

VERSION 1	INFORME TECNICO DE OBRA Y SUS COMPONENTES	
	Contrato No.165-00-A-COFAC-DIFRA-2024	
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MANUAL DE OPERACIÓN Y MANTENIMIENTO

21 DE MAYO DEL 2025
BOGOTA D.C

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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1. JUSTIFICACIÓN

Este manual tiene como objetivo proporcionar a los administradores y usuarios finales las instrucciones necesarias para operar correctamente las instalaciones, así como los procedimientos de mantenimiento preventivo y correctivo para conservar la obra en óptimas condiciones, prolongando su vida útil y garantizando la seguridad de los ocupantes.

2. ALCANCE

Este documento cubre las áreas y sistemas construidos en el proyecto, incluyendo:

Estructuras y obra civil.
Redes hidráulicas y sanitarias.
Instalaciones eléctricas.
Acabados arquitectónicos.
Equipos y mobiliario instalado.

En el presente procedimiento se contempla los siguientes servicios de mantenimiento de infraestructura para el laboratorio sistemas electrónicos de seguridad - SES Y SECURITY OPERATIONS CENTER - SOC MULTIPROPÓSITO para la fuerza aérea colombiana en el Gruse 85.

2.1. Aseo con suministro de elementos necesarios para desarrollar estas labores. Comprende:

- Aseo de todas las áreas, incluidos los baños.
- Limpieza general de ventanas internas y externas.
- Limpieza de equipos de oficina en el cuarto de RACK
- Desinfección de enchapes y aparatos sanitarios.
- Recolección y disposición de basuras.

2.2. Mantenimiento preventivo de los insumos:

- Mantenimiento preventivo y correctivo de la redes de voz y datos .

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▪ Mantenimiento preventivo y correctivo de la red normal y equipos eléctricos no regulados.

Comprende:

- Reemplazo de luminarias, fusibles, tomas, interruptores, balastros, encendedores, tramos de conducción, revisión y reparación eléctrica de equipos
- Instalación de nuevas salidas de alumbrado.
- Traslado de salidas eléctricas.
- Revisión y reparación de cortos.
- Revisión de los niveles de carga.
- Mantenimiento preventivo y correctivo de la red y equipo hidráulico. Comprende:
 - Limpieza de depósitos de agua, control y corrección de fugas, sustitución de válvulas, empaques, flotadores, mantenimiento de alcantarillas, sifones, canales, bajantes y desagües.
- Instalación y/o corte de salidas.
- Reparación y mantenimiento de grifería y aparatos sanitarios.

3. PLAN DE MANTENIMIENTO PREVENTIVO

Componente	Actividad de Mantenimiento	Frecuencia	Responsable
Estructuras y pisos	Inspección visual de fisuras, limpieza y retiro de escombros	Trimestral	Operador / Maestro
Redes hidráulicas	Verificación de fugas, limpieza de sifones, desinfección de tanques	trimestral	Plomero
Instalaciones eléctricas	Revisión de tableros, reemplazo de bombillas, prueba de diferenciales	Trimestral	Electricista
Acabados	Limpieza, retoque de pintura, reparación de vidrios o herrajes	Semestral	Personal de mantenimiento
Equipos	Mantenimiento según manual del fabricante	Según fabricante	Técnico especializado

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4. PLAN DE MANTENIMIENTO CORRECTIVO

Componente	Tipo de Falla	Acción Correctiva	Tiempo de Respuesta	Responsable
Redes hidráulicas	Fuga en tubería	Reemplazar tramo de tubería afectada	24 horas	Plomero
Instalaciones eléctricas	Cortocircuito en circuito de iluminación	Revisión y reemplazo de cableado y breaker	24 horas	Electricista
Estructura	Fisura en muro no estructural	Sellado con mortero y pintura de acabado	72 horas	Maestro de obra
Acabados	Vidrio roto	Retiro y sustitución del vidrio	48 horas	Personal de mantenimiento

5. SEGURIDAD Y NORMAS DE USO

- Señalización de salidas de emergencia y zonas de riesgo.
- Normas para el uso de equipos y espacios.
- Elementos de protección personal para personal de mantenimiento.
- Protocolo en caso de emergencias (incendio, inundación, cortocircuito).

6. BITÁCORA DE MANTENIMIENTO

Se recomienda a la entidad realizar formato de control donde se registren todas las actividades de mantenimiento preventivo y correctivo realizadas, con fecha, responsable y observaciones.

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7. PLANOS Y ESPECIFICACIONES TÉCNICAS

Se entrega a la entidad los siguiente para el mantenimiento y operación del área intervenida:

- Planos “as built” (tal como quedó construido).
- Fichas técnicas de materiales y equipos instalados.
- Garantías de equipos, manuales de usuario, pólizas.

8. CONCLUSIONES Y RECOMENDACIONES

La correcta operación y el mantenimiento preventivo y correctivos descritos en este manual son esenciales para garantizar la seguridad, funcionalidad y vida útil de la obra.

El cumplimiento de las frecuencias de mantenimiento evita reparaciones costosas y prolonga la inversión realizada.

El manual constituye un documento de consulta obligatoria para el personal encargado de la administración y operación de las instalaciones.

Recomendaciones

Cumplir con el cronograma de mantenimiento preventivo y registrar todas las actividades en la bitácora correspondiente.

Capacitar al personal en el uso de equipos, manejo de instalaciones y protocolos de seguridad.

Contratar personal calificado para la atención de fallas, especialmente en redes eléctricas e hidráulicas.

Actualizar el manual cada vez que se realicen cambios o mejoras en la infraestructura.

Implementar un plan de inspección periódica para detectar a tiempo riesgos de deterioro estructural, fugas o fallas eléctricas, debido a la vetustez del edificio.

Mantener comunicación con el personal de la unidad para reportar novedades importantes y garantizar que las reparaciones estén alineadas con las especificaciones originales de la obra.

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9. ANEXOS

Se adjunta los documentos soportes de las certificaciones del sistema eléctrico y telecomunicaciones.

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INFORME TÉCNICO SISTEMA TELECOMUNICACIONES

JUNIO DE 2025
BOGOTA D.C

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1. Descripción general:

Se realiza la instalación y adecuación de sistema de telecomunicaciones dentro del proyecto para la Adecuación y Remodelación para los Laboratorios Sistemas Electrónicos de Seguridad SES – SOC Multipropósito para Fuerza Aérea Colombiana en el GRUSE 85 Comando Aéreo de Transporte Militar CATAM, Bogotá DC. Incluyo la instalación de canalizaciones con bandejas porta cables tipo rejilla de 30 cm desde cuarto técnico por pasillo central , dispersión con tubería metálica EMT hacia canalizaciones perimetrales, oficinas, salas de juntas y áreas comunes en donde se tuvo en cuenta crecimiento a futuro de salidas de telecomunicaciones, re organización de cableado, instalación de paneles de parcheo, organizadores horizontales, organización de cruzadas entre switches y paneles de parcheo permitiendo el correcto funcionamiento del IDF minimizando incidencias por indebida operación, se suministran Patch cords de 1 y 2 metros de longitud tipo CAT.6A de 4 pares RJ45 Ref. ZM6A-S07-06B, esta intervención cumple con todas las normas y especificaciones técnicas correspondientes para poder evitar las posibles averías y deficiencias que puedan causar una interrupción en el servicio o dificulten la operatividad de los equipos incluidos o alguno dependiente de los mismos.

Dentro de las áreas se instalan, cablean y terminan 116 salidas de telecomunicaciones para cableado horizontal e instalación de sistema de distribución de telecomunicaciones que incluyen salas de juntas, oficinas, espacios de trabajo, laboratorios, access point, sistema de CCTV, intrusión y áreas comunes, todas ponchadas, probadas e identificadas dentro de las normas y especificaciones técnicas que correspondan.

- Norma ANSI/TIA 568-569
- Norma EIA
- Instituto Colombiano de normas Técnicas (ICONTEC)
- NTC Norma técnica colombiana 4353
- MINTIC ministerio de las tecnologías y las telecomunicaciones

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2. Características Básicas de los Componentes del Sistema

Cableado de telecomunicaciones

El cableado de las acometidas fue suministrado e instalado de acuerdo al diseño original del proyecto, considerando mayor holgura en cuanto al calibre del mismo, en la siguiente tabla se detalla el tipo de cable utilizado para cada una de las salidas de telecomunicaciones.

- Tendido horizontal con cable F/UTP LSZH 4 pares categoría 6A, 10G, violeta de la marca SIEMON 9A6L4-A5 (clase FA) de 100 Ω , bajo humo, cero halógenos.
- Terminación en Jack RJ45 10G, cableado T568A/B, categoría 6A con conectores hembra color estándar blanco SIEMON Z6A-S01B 8 posiciones de la marca SIEMON.
- Jack RJ45 10G, cableado T568A/B, Categoría 6A para paneles de parcheo con conectores hembra color estándar negro Z6A-S02B 8 posiciones de la marca SIEMON.
- Código de colores según especificación T568B para cable F/UTP.

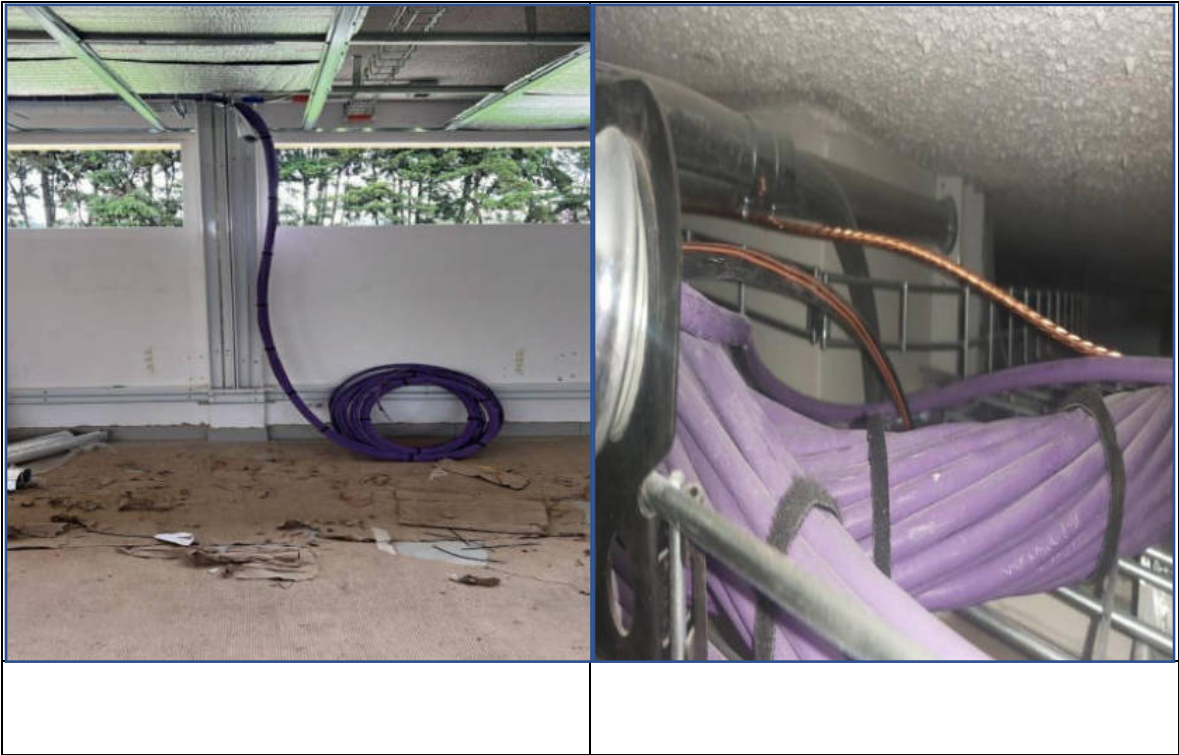


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3. Distribución y Canalizaciones

- Canalización principal con bandeja porta cables ducto cerrado de 30 cm x 10 cm, esta canalización se instala nueva, partiendo desde cuarto técnico ubicado en piso 2 y ubicándose por pasillo central.
- Dispersión en otras áreas de piso 2 con tubería metálica EMT hacia estaciones de trabajo y puntos designados en diseño original.
- Canalización perimetral con canaleta blanca 12x5 pintura electrostática en estaciones de trabajo, oficinas, salas de juntas.
- En todas las canalizaciones fue instalado SPT sistema puesta a tierra, bandejas portacables por techos con cable desnudo 6 AWG 100% cobre, canaletas metálicas por muros y estaciones de trabajo con alambre desnudo 12 AWG 100% cobre de acuerdo con normas vigentes.



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4. Infraestructura para cuarto de telecomunicaciones

4.1. Cableado de telecomunicaciones

El sistema de cableado de telecomunicaciones permitirá a sus usuarios una conexión mas efectiva para acceder a los servidores y al uso de todas las aplicaciones cliente/servidor del laboratorio. El sistema se divide en varios subsistemas, los cuales forman parte indispensable para un desempeño óptimo general, a continuación, detallamos los mismos.

4.2. Cuarto de telecomunicaciones IDF

Comprenden los puntos de convergencia de todo el cableado horizontal de las oficinas y de ubicación de todos los equipos activos de tecnologías de la información, también concentra las conexiones troncales y proveedores de servicios.

Para este proyecto se tomó como origen el centro de datos IDF o cuarto técnico ubicado en el piso 2 del laboratorio de sistemas electrónicos de seguridad ubicado en en GRUSE 85 del aeropuerto militar de Catam.

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4.3. Cableado Vertical

Comprende todos los enlaces para comunicación de voz y datos desde el cuarto de telecomunicaciones, para este caso no estableció ningún medio de transmisión ya que solamente existe 1 centro de cableado para todo el proyecto.

4.4. Cableado Horizontal

Comprende todo enlace desde un centro de conexión cruzada principal u horizontal MCC (Main Cross Connect), para este caso ubicado en el piso 2 del área hacia las tomas de las áreas de trabajo.

Para esta instalación se utilizó cable F/UTP LSZH (bajo humo, cero halógenos) 4 pares categoría 6A, 10G SIEMON, con ancho de banda de 500MHz por par trenzado y con aprobación de los estándares ISO/IEC 11801:2002 y IEC 61156-5:2002, con chaqueta color violeta.

4.5. Tomas Telecomunicaciones

Compuestas en su mayoría por un faceplate sencillo de hasta 2 posiciones, color blanco, 68.9mm ancho X 114.3mm alto, marca SIEMON, conectores hembra de 8 contactos, categoría 6A, el conector posee iconos distintivos color azul para determinar servicio de "datos".

4.6. Cables de Parcheo

Tanto para el área de trabajo como para la conexión entre los puntos terminales en el centro de datos se incluyeron los cables de parcheo (Patch Cords), para el caso de las tomas de telecomunicaciones se utilizó el modelo LSZH (bajo humo, cero halógenos), 10G categoría 6A, construido con cable multifilar F/UTP de 4 pares de 1.5M de largo y de color azul para los puntos que se conectan a las estaciones de trabajo.

Para el caso del MDF se conectaron los puntos horizontales para datos a los equipos activos de LAN switching se utilizó el modelo LSZH (bajo humo, cero halógenos), 10G categoría 6A, construido con cable multifilar de 4 pares, de 1.0M de largo y de color azul, todos de la marca SIEMON.

4.7. Panel de Parcheo

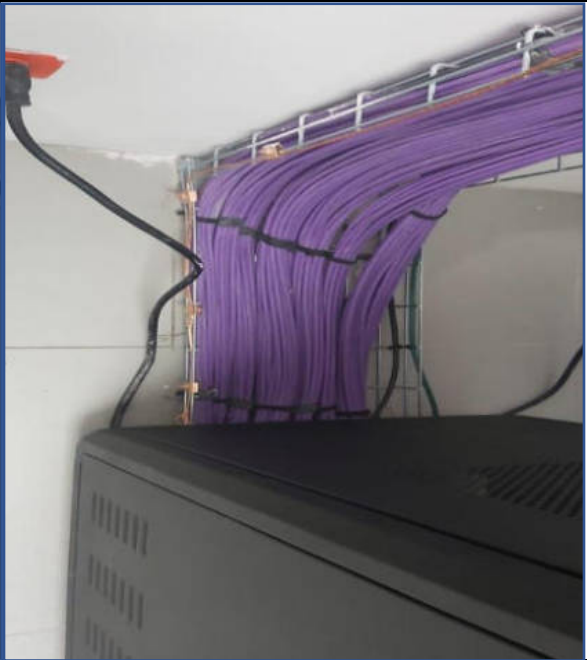
Poseen un rendimiento y una estética excepcionales en una solución modular blindada de alta densidad, los paneles RJ45/110,24 SIEMON permiten una instalación rápida y fiable acelerando las operaciones de montaje de tomas, de conexión a tierra y de sujeción de cables, en este caso se utiliza un panel de 48 puertos categoría 6A.

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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VERSION 1	INFORME TECNICO DE OBRA Y SUS COMPONENTES	
	Contrato No.165-00-A-COFAC-DIFRA-2024	
	OBRA PÚBLICA PARA EL MANTENIMIENTO, ADECUACIÓN Y REMODELACIÓN PARA LOS LABORATORIOS SISTEMAS ELECTRÓNICOS DE SEGURIDAD - SES Y SECURITY OPERATIONS CENTER - SOC MULTIPROPÓSITO PARA LA FUERZA AÉREA COLOMBIANA EN EL GRUSE 85 EN EL COMANDO AÉREO DE TRANSPORTE MILITAR CATAM, EN BOGOTÁ D.C., CONFORME ESPECIFICACIONES TÉCNICAS Y DOCUMENTOS QUE RIGEN EL PROCESO	

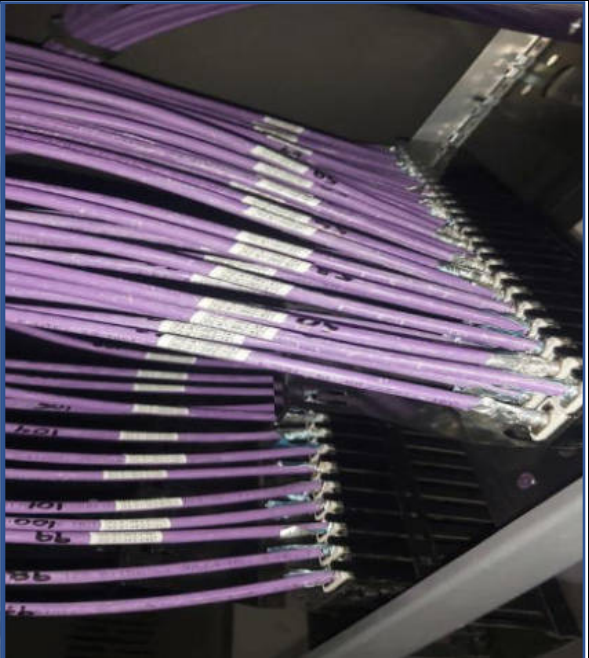
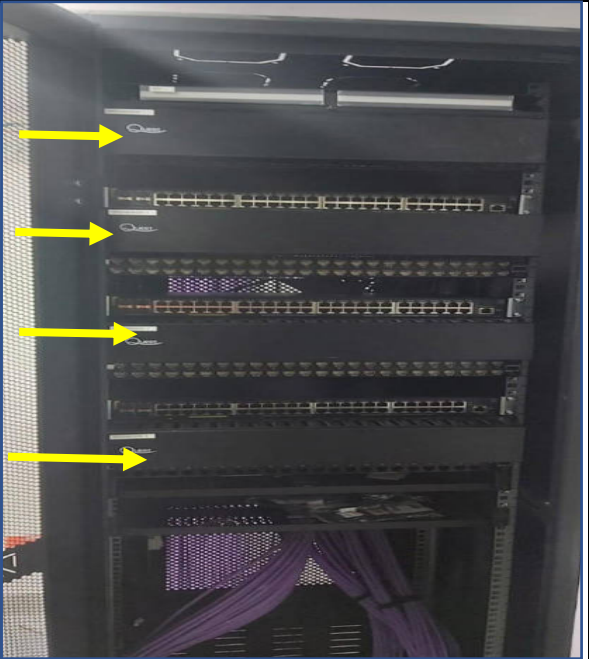
4.8. Organizador Horizontal

De dos unidades de rack contienen los cables de parcheo utilizados en las cruzadas entre equipos activos y no activos que conforman el sistema, en este caso se utiliza un organizador frontal/trasero negro de 2 unidades de rack marca SIEMON.

	
Cableado vertical	Cableado horizontal

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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Tomas telecomunicaciones	Tomas telecomunicaciones en rack
	
Panel Parcheo	Organizadores horizontales

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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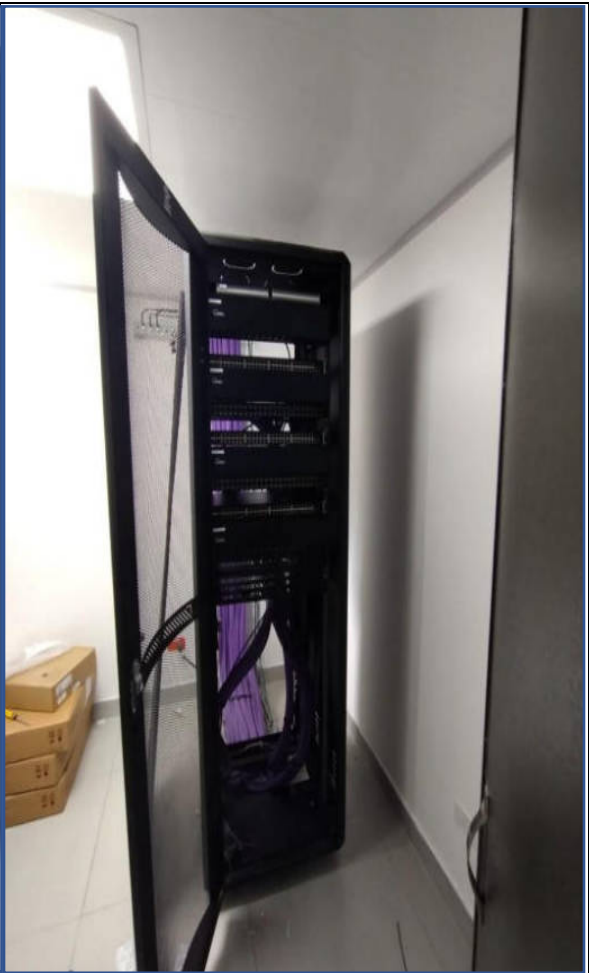
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4.9. Rack / Gabinete Telecomunicaciones

RACK acrónimo del inglés **Risk Aware Consensual Kink** o riesgo asumido consensuado.

Es un armario metálico que incluye un bastidor formado por cuatro perfiles y cuya finalidad principal es la de alojar el equipamiento electrónico, informático y de telecomunicaciones, sus medidas están normalizadas o estandarizadas para que sean compatibles con equipamiento de cualquier marca o fabricante.

Están diseñados para optimizar el flujo de aire, lo que ayuda a eliminar el aire caliente del área alrededor del servidor o equipos activos.

	
Gabinete telecomunicaciones	Gabinete telecomunicaciones

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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4.10. Equipos activos

Switch 48 puertos PoE +4 SFP ARUBA 2930F

Part No. JL262A#ABA

Serial No. TW49HL3068

MAC Address 14-AB-EC-0D-B7-C0

Spare Part No. JL262-61001

Software Version WC. 16. 11. 0001

Switch 48 puertos PoE +4 SFP ARUBA 2930F

Part No. JL262A#ABA

Serial No. TW49HL307G

MAC Address 14-AB-EC-0D-88-00

Spare Part No. JL262-61001

Software Version WC. 16. 11. 0001

Switch 48 puertos PoE +4 SFP ARUBA 2930F

Part No. JL262A#ABA

Serial No. TW49HL300C

MAC Address 14-AB-EC-0C-B2-00

Spare Part No. JL262-61001

Software Version WC. 16. 11. 0001

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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AP ARUBA 555(RW) Unified

Model APIN0555

Serial No.

VNQDK9Y03T MAC.

E81098C04A88 SW.

8.10.0.15

AP ARUBA 555(RW) Unified

Model APIN0555

Serial No. VNQFK9Y08L

MAC. E81098C051ED

SW. 8.10.0.15

TRANSCEIVER ARUBA 1G SFP LC SX 500M MMF XCVR

Model. J48858D

Serial.

CN4ALK10RZ

TRANSCEIVER ARUBA 1G SFP LC SX 500M MMF XCVR

Model. J48858D

Serial.

CN4ALK10WV

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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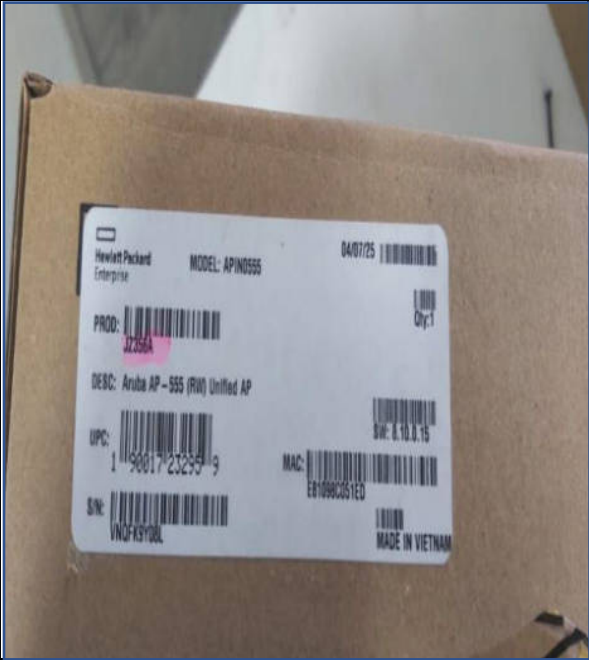
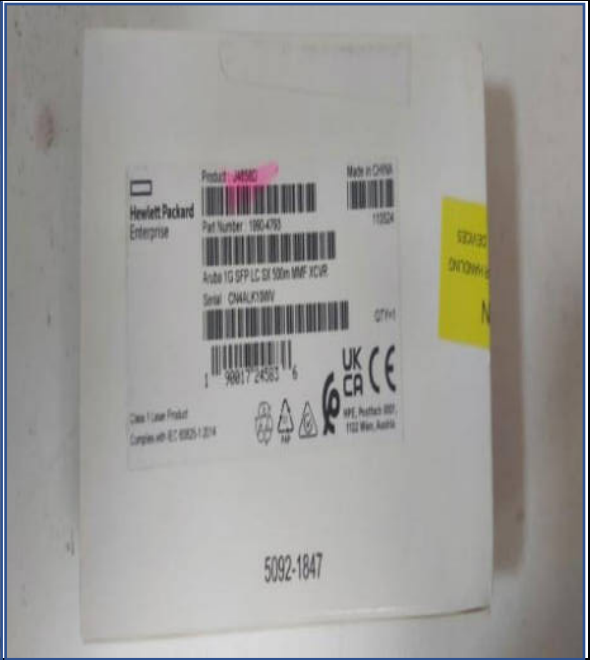
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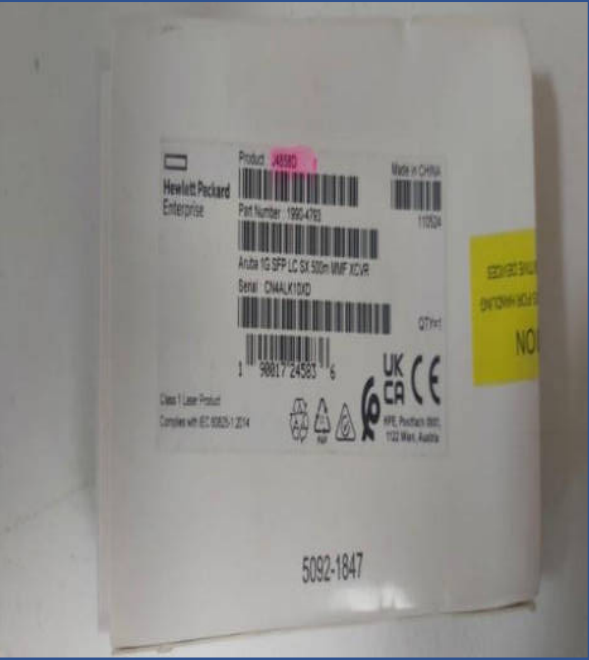
	
Switch 48 puertos	Switch 48 puertos

	
Switch 48 puertos	Access Point 1

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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Access Point 2	Módulo SFP

	
Módulo SFP	Access Point instalado

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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4.11. Enlace fibra óptica

Un enlace de fibra óptica es una ruta o conexión que utiliza fibras ópticas para transmitir información en forma de pulsos de luz. Estas fibras son hebras finas de vidrio o plástico que pueden transmitir datos a velocidades mucho mayores que los cables de cobre tradicionales, para este caso se tiende un cable de fibra óptica multimodo para interiores de 12 hilos que se instalo desde el rack de telecomunicaciones ubicado en el piso 2 del GRUSE 85 hasta el rack del cuarto técnico ubicado en laboratorio de sistemas electrónicos de seguridad en piso 2.

	
Rack en piso 2 GRUSE 85	ODF bandeja fibra GRUSE 85

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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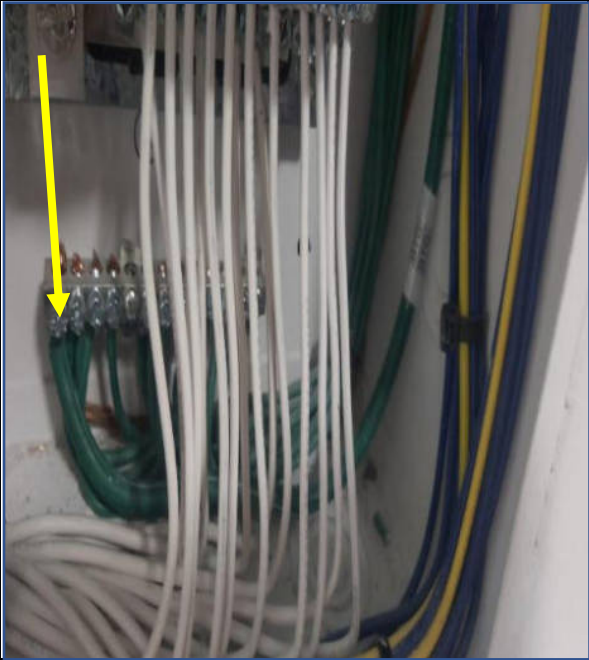
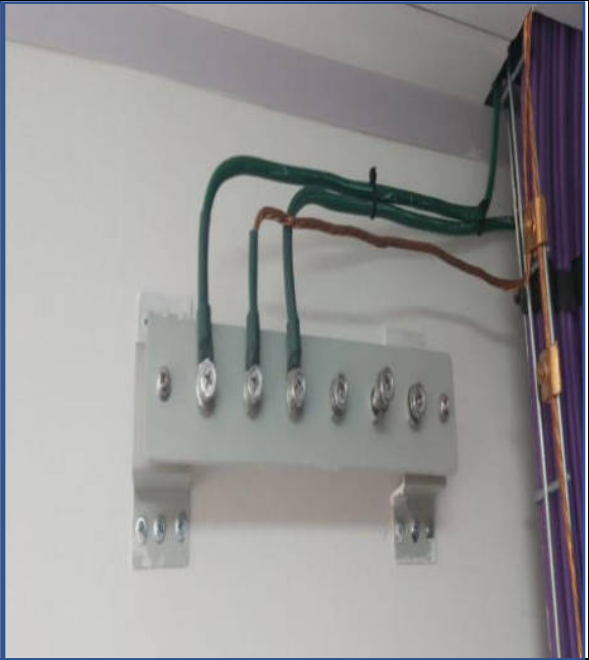
	
Enlace fibra óptica MM 12 hilos	Bandeja fibra óptica ODF Laboratorio sistemas electrónicos seguridad

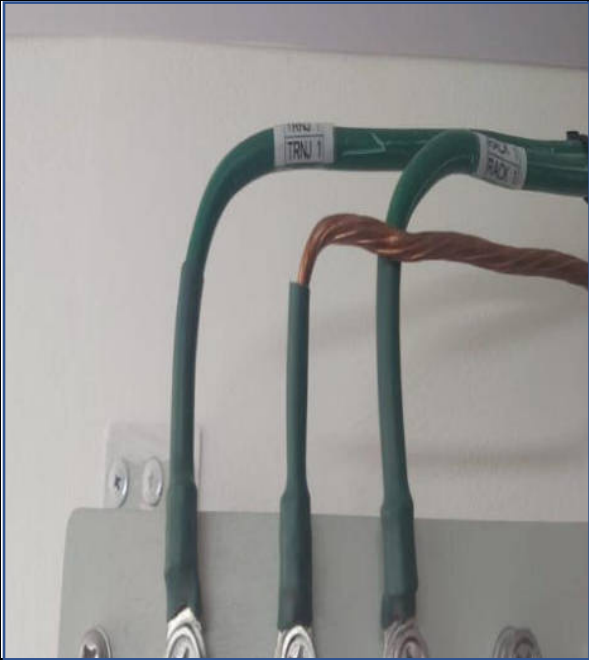
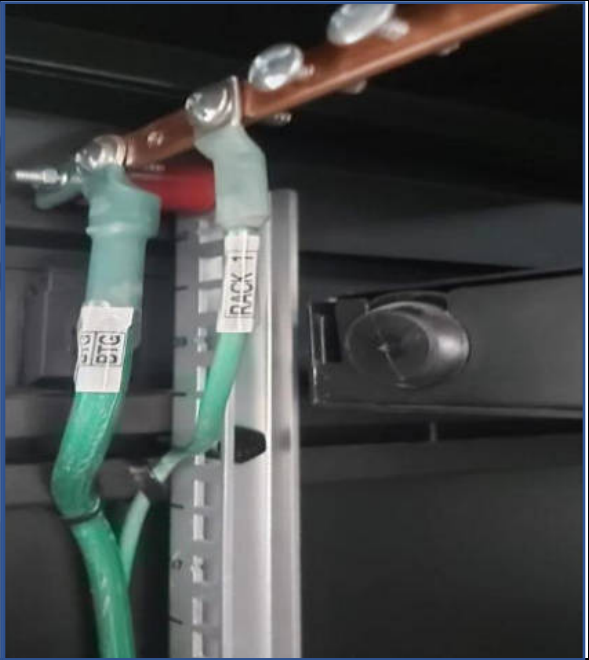
4.12. Sistema puesta a tierra SPT

Un sistema de puesta a tierra, también conocido como toma de tierra, es una conexión física entre una instalación eléctrica y el suelo. Su función principal es proporcionar un camino seguro para las corrientes eléctricas no deseadas, como fugas o descargas de rayos, para que se dirijan a la tierra. Esto ayuda a proteger a las personas y equipos de daños y a garantizar la seguridad del sistema eléctrico. Para este caso se instala un sistema de tierra partiendo del barraje de tierras del tablero eléctrico normal o no regulado desde el que se lleva un cable para hacer conexión hasta el cuarto técnico donde se conecta a un barraje general BTG y a partir del cual se conectan sistemas de infraestructura de cableado y sistemas de telecomunicaciones.

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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Conexión SPT desde tablero normal	Barraje general sistema tierra

	
Conexión STP a infraestructura	Conexión STP a rack

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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5. Identificación

La identificación de las salidas de telecomunicaciones se realizó siguiendo la codificación y numeración establecida y acordada, con una numeración ascendente de izquierda a derecha, denotando la ubicación del rack o gabinete y el número de los mismos, el panel de parcheo al cual pertenece y el número de puerto en dicho panel.

P2-R1-PP1-P24

En donde:

P2: identificación del piso donde se encuentra centro de datos

R1: identificación del rack de telecomunicaciones

PP1: identificación del panel de parcheo

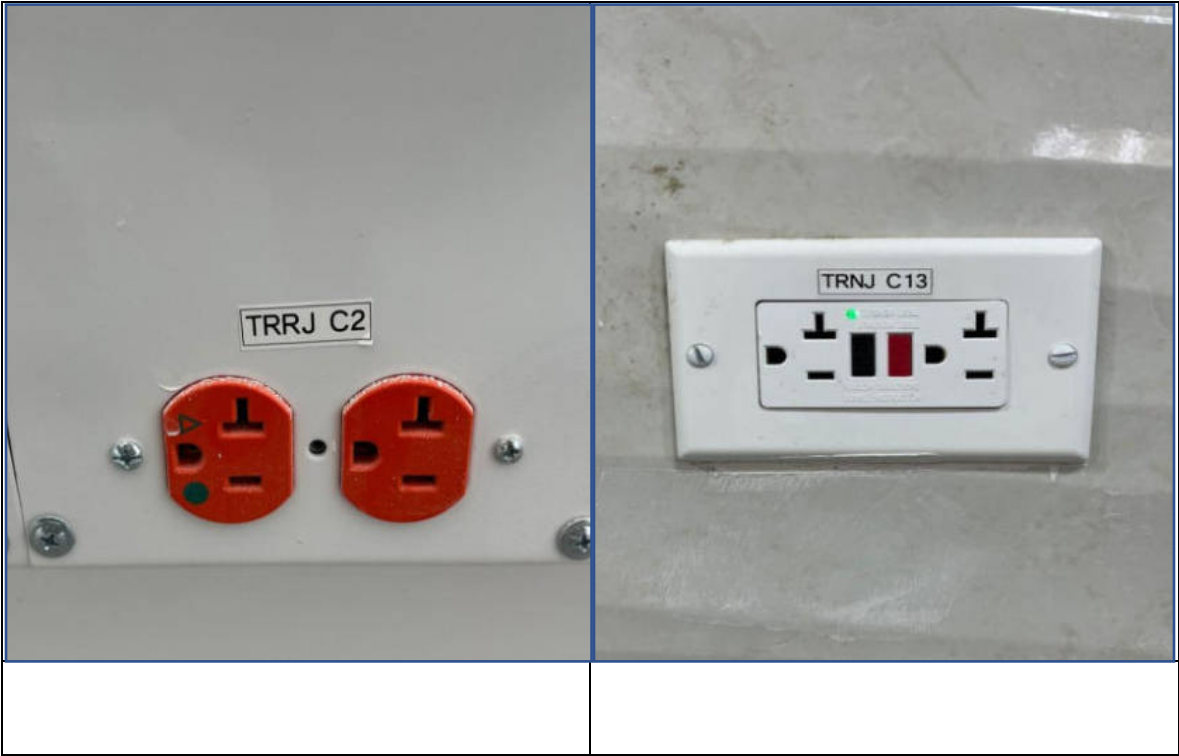
P24: número del puerto al que se encuentra conectado

Ejemplo: La salida P2-R1-PP1-P24, está ubicada en el puerto 24 del Patch panel 01 en rack 01 ubicado en el piso 2 del laboratorio de sistemas electrónicos de seguridad en el GRUSE 85 del aeropuerto militar de CATAM.

Todos los interruptores fueron fijadas a los troqueles correspondientes en el área de trabajo, bien sea a caja 5800 o caja 2400 con suplemento, también utilizando cinta aislante 3M-SUPER 33 para mantener la protección adecuada.

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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6. Pruebas y Certificaciones

Las certificaciones de los enlaces permanentes del cableado F/UTP se realizaron con el analizador FLUKE DSX-8000 con certificado de calibración vigente resultando **EXITOSAS** para todas las salidas de telecomunicaciones instaladas dentro del proyecto.

7. Recomendaciones

Presentamos algunas recomendaciones para tener en cuenta, lo que nos puede ayudar a mantener el sistema operando correcta

- Mantener control estricto de quien manipula los equipos internos del sistema.
- En caso de tener que manipular infraestructura del sistema debe realizarse con mucho cuidado teniendo en cuenta directorios, diagramas, planos y rutas, para evitar dañar alguno de los elementos que conforman el sistema.
- Realizar un mantenimiento preventivo al menos dos veces por año asegurando limpieza, previniendo fallas y asegurando el correcto funcionamiento del sistema.
- Al realizar ampliación de la red tener en cuenta la capacidad de los equipos activos, cálculos en infraestructura pasiva y normas establecidas para este fin, así se evitarán daños en infraestructura, equipos existentes y malas prácticas sobre el sistema.
- Mantener documentado todo cambio o novedad que se presente por deterioro de componentes del sistema o por mantenimientos realizados.

Esta intervención del cableado, componentes activos y pasivos del sistema de telecomunicaciones al igual que toda la documentación se realiza bajo la administración de normas vigentes TIA 568/569 EIA / Normas MINTIC (Ministerio de las telecomunicaciones), siguiendo las normas de seguridad SST de todo nuestro personal.

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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CONTRATO No.	CONTRATO No.165-00-A-COFAC-DIFRA-2024
OBJETO DEL CONTRATO	OBRA PÚBLICA PARA EL MANTENIMIENTO, ADECUACIÓN Y REMODELACIÓN PARA LOS LABORATORIOS SISTEMAS ELECTRÓNICOS DE SEGURIDAD - SES Y SECURITY OPERATIONS CENTER – SOC MULTIPROPÓSITO PARA LA FUERZA AÉREA COLOMBIANA EN EL GRUSE 85 EN EL COMANDO AÉREO DE TRANSPORTE MILITAR CATAM, EN BOGOTÁ D.C., CONFORME ESPECIFICACIONES TÉCNICAS Y DOCUMENTOS QUE RIGEN EL PROCESO"
CONTRATISTA	EDWIN PARADA CALVO
INTERVENTOR	N/A
SUPERVISOR	CT RODRIGUEZ GOMEZ JONATHAN
FECHA	26/05/2025
ASUNTO	ACTA DE RELACION DE EQUIPOS ENTREGADOS A JETIC ESTABLECIDOS EN EL CONTRATO

ITEM	DESCRIPCION	UNIDAD	REFERENCIA / MODELO	IMAGEN REFERENCIAL
EQUIPOS				
8.3	INSTALACIÓN Y PUESTA EN FUNCIONAMIENTO DE 02 ACCESS POINT AP-555 Y 01 RACK DE COMUNICACIONES, (GABINETE DE 42 UNIDADES (ANCHO 60 CM X PROFUNDO 1,20 CM), QUE INCLUYE, 02 PDU TIPO INDUSTRIAL X16 TOMAS, 03 SWITCH ARUBA 2930F 48G POE +, INCLUYE LICENCIAS, ACCESORIOS U OTRA REFERENCIA SIMILAR CON LAS CARACTERISTICAS ESTANDARIZADOS EN LA FAC CON 02 MÓDULOS SFP MULTIMODO ARUBA NETWORK, 03 PATCH PANEL DE (48 PUERTOS) 1UR, 04 ORGANIZADORES 2UR)	1	01 RACK DE COMUNICACIONES QUEST INTERNATIONAL MODELO DYNAMIC GF-2203	  
		2	02 ACCESS POINT AP-555 JZ356A	 

NOTA: Se realiza verificación en sitio de la instalación y entrega de los equipos, así mismo se designa por parte de JETIC como responsable del inventario al señor Mayor MY. JAIBER EDILSON GOMEZ SOSA quien realizó la inspección y verificación de los equipos anteriormente relacionados dando fe de su instalación y disposición en el sitio de obra

MY. JAIBER EDILSON GOMEZ SOSA Responsable Inventario JETIC	CT RODRIGUEZ GOMEZ JONATHAN Supervisor contrato	 Arq. EDWIN PARADA CALVO Contratista  VB. Ing Jazmin Gomez Directora de obra
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MODELO DYNAMIC

FORMATO: 19"

ANCHO: 580 MM (22,5")

FONDO: 610 MM (24")

REFERENCIA:

GF-2203

Formato de Montaje: 19"

Altura útil: **40U**

Altura Externa: 1,968 mm [77,5"]

Ancho: 580 mm [22,5"]

Profundidad útil: 535 mm [21"]

ESPECIFICACIONES

DIMENSIONES

Altura útil	40U
Ancho	580 mm [22,5"]
Profundidad	610 mm [24"]
Parales demarcados	Si, bajo estándar EIA-310D
Máxima Distancia Paral a Paral	465 mm [18"]

VENTILACIÓN

Ventilación Posterior:	Panel posterior desmontable con perforaciones hexagonales distribuidas en 3 bloques de piso a techo y 24 ventilas.
Puerta Frontal:	Marco metálico con micro perforaciones Hexagonales al 80%.
Paneles laterales	Sistema de 24 Ventilas ubicadas en la parte inferior.

CAPACIDAD DE CARGA

Estática:	422 kg (930 lbs)
Dinámica	119 kg (262 lbs)

CERTIFICACIONES

UL- 2416

ESTÁNDARES

Cumplimiento de Estándares	EIA / ECA-310-E IEC 297-2 PCI DSS
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Excelente equilibrio en almacenamiento refrigeración pasiva.

MODELO DYNAMIC

FORMATO: 19"

ANCHO: 580 MM (22,5")

FONDO: 610 MM (24")

Ventilación Pasiva Extra

El mantenimiento de la temperatura interior de los gabinetes es fundamental para el buen funcionamiento y la duración de los equipos que operan dentro de ellos.

Una amplia mayoría de estudios han demostrado que tan solo 10° mas arriba de los 30°C reducen aproximadamente hasta en un 40% la vida útil de los equipos digitales, es por esto que es esencial garantizar que el aire caliente dentro de un gabinete se mantenga a no mas de 30°C para ayudar a proteger los equipos sensitivos y delicados.

Los gabinetes Dynamic le permiten aprovechar al máximo la convención(*) natural del aire, aunque en algunos casos el uso de ventiladores permiten forzar el flujo de aire a través del gabinete para mantener la temperatura deseada al interior del mismo.

*Convención: Propagación del calor en fluidos y líquidos por el movimiento de sus partículas producido por las diferencias de densidad: (El aire que se mueve por convección lo hace verticalmente).



REFERENCIA: GF-2203

Características Destacadas

Cierres plásticos que permiten retirar los paneles laterales rápidamente



Paneles laterales y posterior desmontables por medio de llave maestra.



Puerta frontal en malla metálica expandida en acero laminado calibre 18.



Ventilas laterales que facilitan el intercambio de aire lateralmente.



Juego de niveladores que proporcionan estabilidad a la unidad



Ranuras de acceso de cables desde el panel superior o base del gabinete.



Sistema de bisagras que permiten la apertura de la puerta frontal a mas de 180°.



Cierre de seguridad que restringe el acceso a los equipos de personal no autorizado.



Acabados en pintura electroestática, sobre acero laminado en frío tratado con procesos fosfatizantes y desengrasantes.



Juego de rodachinas que permiten el desplazamiento a la unidad hasta su sitio de instalación.

ESPECIFICACIONES

GENERALES

El Gabinete de Piso para Cableado Estructurado y Servidores tipo torre, brinda una extracción rápida del calor generado por los equipos, aprovechando el intercambio de aire frío que ingresa desde la puerta frontal del gabinete y desde las ventilas laterales de la unidad.

Ideal para equipos con profundidades hasta de 535 mm (21"). como Servidores y UPS Tipo torre que por la alta densidad instalada de estos equipos se requiere una expulsión eficiente del calor generado por los mismos.

El panel posterior esta provisto de 3 bloques con micro perforaciones hexagonales al 60% de Piso a Techo que permiten la salida del aire caliente, en la parte inferior de esta panel un sistema de 24 ventilas facilitan el ingreso de aire por convección. Este panel es desmontable por medio de cerradura lo que facilita el montaje y revisiones.

La puerta frontal es curva y esta construida en un marco metálico con micro perforaciones hexagonales al 80% que permiten el ingreso de grandes volúmenes de aire frío, cuenta con cerradura de seguridad que restringe el acceso de personal no autorizado.

Las tapas laterales son desmontables por medio de cerradura y para facilitar la instalación de equipos de manera práctica y segura, en su parte inferior están provistas 24 ventilas que permiten el ingreso de aire frío por convección.

El techo cuenta con ranuras que permiten la instalación de 4 unidades de ventilación adicionales y un amplio agujero en la parte posterior para permitir el ingreso de cables.

La base cuenta con 2 paneles removibles para permitir el acceso de cables en el caso de que el cableado se administre por medio de piso falso.

4 Parales de montaje dispuestos sobre un sistema de rieles a cada uno de su lados los cuales permiten un ajuste preciso de los equipos hasta una profundidad máxima entre parales de 465 mm (18"), marcados bajo el estándar EIA/ECA-310-E y con perforaciones cuadradas para uso con tuerca tipo Push.

El sistema de rieles está soldado a la unidad lo que brinda excelente resistencia y estabilidad al gabinete. La capacidad de carga estática es de 422 kg (930 lbs) y de 119 kg (262 lbs) de carga Dinámica.

Ruedas instaladas que permiten movilizar el gabinete hasta el sitio que será instalado, Cuenta con 4 Niveladores que permiten compensar las variaciones en altura del piso y garantizar que todo el gabinete se encuentre estable.

Cuenta con Cable equipotencial de Conexión eléctrica en todas las superficies metálicas expuestas que transportan corriente, como Protección contra descargas eléctricas residuales, además de barraje a tierra en barra de cobre de 1/8" x 1/2" para 6 conexiones con capacidad nominal de 85 amperios.

Construido en acero laminado en frío de diversos calibres y esquinas hexagonales de aluminio inyectado que brindan, gran apariencia además de evitar deformaciones en las esquinas por golpes accidentales en su montaje. Todo el conjunto es tratado en tanques especiales con procesos desengrasantes y fosfatizantes que garantizan su resistencia a la oxidación. Los acabados son en pintura de polvo electrostática horneada y fijada por paneles infrarrojos.

Garantía de 5 años.

ESPECIFICACIONES TÉCNICAS

Modelo:	GF-2203
Altura útil Rieles de Montaje	40U, marcados bajo el estándar EIA-19", Racks de Telecomunicaciones o equipamiento para telecomunicaciones con perforaciones así (5/8", 5/8" y 1/2") para tuerca tipo Push.
Características Físicas	Dimensiones Externas Alto (H): 1,968 mm [77,5"] Ancho (W): 580 mm [22,5"] Fondo (D): 610 mm [24"]
Capacidad de Carga	Estática: 422 kg (930 lb). Dinámica: 119 Kg (262 lb).
Características Eléctricas	Cable equipotencial : Cable equipotencial de Conexión eléctrica en todas las superficies metálicas expuestas que transportan corriente, como protección contra descargas eléctricas residuales. Barraje a tierra : Barraje a Tierra en barra de cobre de 1/8" x 1/2" para 6 conexiones con capacidad nominal de 85 amperios.
Sistema de Ventilación	• Puerta frontal con microperforaciones Hexagonales al 80% y Panel Posterior con tres bloques de microperforaciones al 60% y sistema de 24 ventilas. • Techo provisto de 6 ranuras habilitables para la instalación de ventiladores. • Paneles laterales con 24 ventilas dispuestas en la parte inferior para permitir el ingreso de aire por convección para facilitar el intercambio de aire.
Estructura	• Construcción en acero laminado en frío de diversos calibres y esquinas hexagonales de aluminio inyectado para evitar deformaciones en las esquinas por golpes accidentales en su montaje. Conjunto tratado en tanques especiales con procesos desengrasantes y fosfatizantes que garantizan resistencia a la oxidación. • Acabados en pintura de polvo electrostática horneada y fijada por paneles infrarrojos. • Certificada con el estándar: UL-2416 • Cumple con el estándar PCI DSS.
Panel Posterior	• Panel posterior removible con cerradura para facilitar la instalación y mantenimiento de equipos, provisto de 3 bloques con microperforaciones hexagonales al 60% y sistema de 24 ventilas ubicadas en la parte inferior, para permitir el ingreso de aire por convección.
Paneles laterales	2 Paneles laterales removible con cerradura para facilitar la instalación y mantenimiento de equipos.
Panel Superior (Techo)	4 Ranuras superiores para instalación de ventiladores adicionales (Opcional) 1 Ranuras para ingreso de cables dispuesta en la parte posterior
Paneles inferiores	2 Paneles inferiores desmontables para permitir el ingreso de cables desde la base del gabinete.
Puerta Frontal	Puerta Metálica curva con marco metálico y microperforaciones al 80% para ingreso de grandes volúmenes de aire, con cierre de seguridad tipo maneta con grado de protección IP-65.

ESPECIFICACIONES TÉCNICAS

Parales de Montaje	Elaborados en acero laminado en frío de 2,5 mm y acabados en pintura electrostática marcados bajo el estándar EIA / ECA-310E.
Certificaciones	UL- 2416 TELECOMMUNICATIONS ENCLOSURE SYSTEM
Estandares	EIA / ECA-310-E IEC 297-2 PCI DSS
Accesorios Incluidos	4 Ruedas con capacidad de carga dinámica de 152 Kg (335 lb). 4 Niveladores 32 Tuercas Tipo Push 32 Tornillos 12-24 64 Arandelas 2 Llaves para puerta frontal 4 Llaves para paneles laterales. Instrucciones de montaje: UL- 2416
Grado de Protección NEMA	IP-20
Garantía	5 años por defectos de fábrica



DATA SHEET

ARUBA 550 SERIES WIRELESS ACCESS POINTS

Extreme Wi-Fi 6 (802.11ax) performance with tri-radios and Green AP energy efficiency

Aruba Wi-Fi 6 access points provide high-performance connectivity for any organization experiencing growing numbers of IoT and mobility requirements. With a maximum real-world aggregate data rate of 5.37 Gbps (HE80/HE20), the 550 Series deliver the speed and reliability needed for any enterprise

INCREDIBLE EFFICIENCY

The 550 Series APs are also designed to optimize user experience by maximizing Wi-Fi efficiency and dramatically reducing airtime contention between clients.

Features include Orthogonal frequency-division multiple access (OFDMA), bi-directional multi-user MIMO and cellular optimization. With optional tri-radios, up to 4 spatial streams (4SS) and 160MHz channel bandwidth (VHT160), the 550 Series provides groundbreaking wireless capabilities for any enterprise.

Read the Multi-User [802.11ax white paper](#) for further information.

Advantages of OFDMA

This capability allows Aruba's APs to handle multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type. Channel utilization is optimized by handling each transaction via smaller sub-carriers or resource units (RUs), which means that clients are sharing a channel and not competing for airtime and bandwidth.

The following table highlights the number of available resources units per Wi-Fi Channel used:

Aruba Air Slice™ for Extended Application Assurance

Initially, APs in controller-less mode (Instant) can provide SLA-grade performance by allocating radio resources, such as time, frequency, and spatial streams, to specific traffic types. By combining Aruba's [Policy Enforcement Firewall \(PEF\)](#) and



KEY FEATURES

- 5.37 Gbps maximum real-world speed (HE80/HE20)
- WPA3 and Enhanced Open security
- Built-in technology that resolves sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices
- OFDMA and MU-MIMO for enhanced multi-user efficiency
- IoT-ready Bluetooth 5, NFC, and Zigbee support
- Optional tri-radio mode with two 5GHz and one 2.4GHz radio (4x4 MIMO)

NUMBER OF CONCURRENT CLIENTS PER CHANNEL PER RADIO*

Prior Wi-Fi generations	1 at a time
Wi-Fi 6 in 20 MHz	Up to 9 at a time
Wi-Fi 6 in 40 MHz	Up to 18 at a time
Wi-Fi 6 in 80 MHz	Up to 37 at a time
Wi-Fi 6 in 160 MHz	Up to 74 at a time

* Client density varies based on configured network settings

Layer 7 deep packet inspection (DPI) to identify user roles and applications, the APs will dynamically allocate the bandwidth needed. Non-Wi-Fi 6 clients can also benefit.

Air Slice™ for APs uses Aruba Central for management. Controller-based APs will be supported in a future software release.

Bi-directional Multi-user MIMO (MU-MIMO)

Similar to downlink MU-MIMO in Wi-Fi 5 (802.11ac Wave 2), the 550 Series can simultaneously connect clients use downlink – and now – uplink spatial streams. The added benefit is the ability to multiply the number of clients that can now send traffic, thus optimizing client-to-AP spatial stream diversity.

Wi-Fi 6 and MU-MIMO aware client optimization

Aruba's patented AI-powered ClientMatch technology eliminates sticky client issues by placing Wi-Fi 6 capable devices on the best available AP. Session metrics are used to steer mobile devices to the best AP based on available bandwidth, types of applications being used and traffic type – even as users roam.

Aruba Advanced Cellular Coexistence (ACC)

This feature uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.

Intelligent Power Monitoring (IPM)

Aruba APs continuously monitor and report hardware energy consumption. They can also be configured to enable or disable capabilities based on available PoE power – ideal when wired switches have exhausted their power budget.

Green AP energy efficiency

Aruba Wi-Fi 6 APs utilize analytics from NetInsight to automatically transition in and out of a sleep mode based on client density. Learn more in the [Green AP At-A-Glance](#).

IOT PLATFORM CAPABILITIES

Like all Aruba Wi-Fi 6 APs, the 550 Series includes an integrated Bluetooth 5 and 802.15.4 radio (for Zigbee support) to simplify deploying and managing IoT-based location services, asset tracking services, security solutions and IoT sensors. It also enables NFC to easily display AP status information and streamline deployment. This allows organizations to leverage the 550 Series as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources.

Target Wake Time (TWT)

Ideal for IoTs that communicate infrequently, TWT establishes a schedule for when clients need to communicate with an AP. This helps improve client power savings and reduces airtime contention with other clients.

ARUBA SECURE INFRASTRUCTURE

The Aruba 550 Series includes components of Aruba's 360 Secure Fabric to help protect user authentication and wireless traffic. Select capabilities include:

WPA3 and Enhanced Open

Support for stronger encryption and authentication is provided via the latest version of WPA for enterprise protected networks.

Enhanced Open offers seamless new protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.

WPA2-MPSK

MPSK enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device or device type change, no additional changes are needed for other devices. Requires ClearPass Policy Manager.

VPN Tunnels

In Remote AP (RAP) and IAP-VPN deployments, the Aruba 550 Series can be used to establish a secure SSL/IPSec VPN tunnel to a Mobility Controller that is acting as a VPN concentrator.

Trusted Platform Module (TPM)

For enhanced device assurance, all Aruba APs have an installed TPM for secure storage of credentials and keys, and boot code.

SIMPLE AND SECURE ACCESS

To simplify policy enforcement, the Aruba 550 Series uses Aruba's policy enforcement firewall (PEF) feature to encapsulate all traffic from the AP to the Mobility Controller (or Gateway) for end-to-end encryption and inspection. Policies are applied based on user role, device type, applications, and location. This reduces the manual configuration of SSIDs, VLANs and ACLs. PEF also serves as the underlying technology for Aruba [Dynamic Segmentation](#).

HIGH-DENSITY CONNECTIVITY

Like the 530 Series AP, each 550 Series AP provides connectivity for a maximum of 1024 associated clients per radio (3072 in total). In real-world scenarios, the maximum recommended client density is dependent on environmental conditions.

FLEXIBLE OPERATION AND MANAGEMENT

A unique feature of Aruba APs is the ability to operate in either controllerless (Instant) or controller-based mode.

Controller-less (Instant) mode

In controllerless mode, one AP serves as a virtual controller for the entire network. Learn more about Instant mode in [this technology brief](#).

Mobility Controller mode

For optimized network performance, roaming and security, APs tunnel all traffic to a mobility controller for centrally managed traffic forwarding and segmentation, data encryption, and policy enforcement. Learn more in the [ArubaOS datasheet](#).

Management options

Available management solutions include Aruba Central (cloud-managed) or Aruba AirWave – a multi-vendor on-premises management solution.

For large installations across multiple sites, APs can be factory-shipped and can be activated with Zero Touch Provisioning through Aruba Central or AirWave. This reduces deployment time, centralizes configuration, and helps manage inventory.

ADDITIONAL WI-FI FEATURES

Each AP also includes the following standards-based technologies:

Transmit beamforming (TxBF)

Increased signal reliability and range

Passpoint Wi-Fi (Release 2) (Hotspot 2.0)

Seamless cellular-to-Wi-Fi carryover for guests

Dynamic Frequency Selection (DFS)

Optimized use of available RF spectrum

Maximum Ratio Combining (MRC)

Improved receiver performance

Cyclic Delay/Shift Diversity (CDD/CSD)

Greater downlink RF performance

Space-Time Block Coding

Increased range and improved reception

Low-Density Parity Check (LDPC)

High-efficiency error correction for increased throughput

SPECIFICATIONS

Hardware variants

- AP-555: Internal antenna models

Wi-Fi radio specifications

- AP type: Indoor, dual/tri-radio, 5GHz and 2.4GHz 802.11ax 4x4 MIMO
- 5GHz radio (dual-radio operation): Eight spatial stream Single User (SU) MIMO for up to 4.8Gbps wireless data rate with individual 8SS HE80 (or 4SS HE160) 802.11ax client devices, or with eight 1SS or four 2SS HE80 802.11ax MU-MIMO capable client devices simultaneously
- 5GHz radio (tri-radio operation): Four spatial stream Single User (SU) MIMO for up to 2.4Gbps wireless data rate with individual 4SS HE80 (or 2SS HE160) 802.11ax client devices, or with four 1SS or two 2SS HE80 802.11ax MU-MIMO capable client devices simultaneously
- 2.4GHz radio: Four spatial stream Single User (SU) MIMO for up to 1,147Mbps (574Mbps) wireless data rate with individual 4SS HE40 (HE20) 802.11ax client devices or with two 2SS HE40 (HE20) 802.11ax MU-MIMO capable client devices simultaneously
- Support for up to 1,024 associated client devices per radio, and up to 16 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply):
 - 2.400 to 2.4835GHz (radio 1)
 - 5.150 to 5.250GHz (radio 0 and 0L)
 - 5.250 to 5.350GHz (radio 0 and 0L)
 - 5.470 to 5.725GHz (radio 0 and 0U)
 - 5.725 to 5.850GHz (radio 0 and 0U)
- Available channels: Dependent on configured regulatory domain
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
- Supported radio technologies:
 - 802.11b: Direct-sequence spread-spectrum (DSSS)
 - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
 - 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 37 resource units (for an 80MHz channel)*
- Supported modulation types:
 - 802.11b: BPSK, QPSK, CCK
 - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension)
 - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension)
 - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM

- 802.11n high-throughput (HT) support: HT20/40
- 802.11ac very high throughput (VHT) support: VHT20/40/80/160
- 802.11ax high efficiency (HE) support: HE20/40/80/160
- Supported data rates (Mbps):
 - 802.11b: 1, 2, 5.5, 11
 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
 - 802.11n: 6.5 to 600 (MCS0 to MCS31, HT20 to HT40), 800 with 256-QAM
 - 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160), 2,166 with 1024-QAM
 - 802.11ax (2.4GHz): 3.6 to 1,147 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE40)
 - 802.11ax (5GHz): 3.6 to 4,804 (MCS0 to MCS11, NSS = 1 to 8, HE20 to HE160)
- 802.11n/ac packet aggregation: A-MPDU, A-MSDU
- Transmit power: Configurable in increments of 0.5dBm
- Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements):
 - 2.4GHz band: +24dBm (18dBm per chain)
 - 5GHz band: +27dBm in dual-radio mode, +24dBm in tri-radio mode (18dBm per chain)
 - Note: conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.
- Advanced Cellular Coexistence (ACC) minimizes the impact of interference from cellular networks
- Maximum ratio combining (MRC) for improved receiver performance
- Cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
- Space-time block coding (STBC) for increased range and improved reception
- Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
- Transmit beam-forming (TxBF) for increased signal reliability and range
- 802.11ax Target Wait Time (TWT) to support low-power client devices

Wi-Fi antennas

- Integrated downtilt omni-directional antennas for 4x4 MIMO in 2.4GHz with peak antenna gain of 4.3dBi, and 8x8 MIMO in 5GHz with peak antenna gain of 5.8dBi in 5GHz. In tri-radio mode, the peak gain of the antennas for each of the 4x4 5GHz radios is 5.5dBi (radio 0L, lower half of 5GHz) and 5.6dBi (radio 0U, upper half of 5GHz). Built-in antennas are optimized for horizontal ceiling

mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.

- A mix of horizontally and vertically polarized antenna elements is used
- Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 2.4dBi in 2.4GHz and 2.0dBi in 5GHz (dual-radio mode).
- In tri-radio mode, the peak gain of the combined, average pattern is 2.7dBi (radio 0L, lower half of 5GHz) and 1.8dBi (radio 0U, upper half of 5GHz)

Other interfaces

- E0, E1: HPE SmartRate port (RJ-45, maximum negotiated speed 5Gbps)
 - Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI/MDX
 - 2.5Gbps and 5Gbps speeds comply with NBase-T and 802.3bz specifications
 - POE-PD: 48Vdc (nominal) 802.3at/bt POE (class 4 or higher)
 - 802.3az Energy Efficient Ethernet (EEE)
- Link aggregation (LACP) support between both network ports for redundancy and increased capacity
- POE power can be drawn from either port (single source, or set to prioritize) or both ports simultaneously (set to combine). When set to prioritize, the AP draws power from E0 and may failover to E1.
- DC power interface: 48Vdc (nominal, +/- 5%), accepts 1.35mm/3.5mm center-positive circular plug with 9.5mm length
- USB 2.0 host interface (Type A connector)
 - Capable of sourcing up to 1A / 5W to an attached device
- Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio (2.4GHz)
 - BLE: up to 8dBm transmit power (class 1) and -99dBm receive sensitivity (125kbps)
 - Zigbee: up to 8dBm transmit power and -97dBm receive sensitivity
 - A pair of integrated omnidirectional antennas (polarization diversity) with roughly 30 degrees downtilt and peak gain of 4.5dBi
- Visual indicators (two multi-color LEDs): for System and Radio status
- Reset button: factory reset, LED mode control (normal/off)
- Serial console interface (proprietary, micro-B USB physical jack)
- Kensington security slot

Power sources and power consumption

- The AP supports direct DC power and Power over Ethernet (POE; on port E0 and/or E1)
- When POE power is supplied to both Ethernet ports, the AP can be configured to combine or prioritize power sources
- When both DC and POE power sources are available, DC power takes priority over POE
- Power sources are sold separately; see the ordering Information section below for details
- When powered by DC, 802.3bt (class 5) POE or 2x 802.3at (class 4) POE, the AP will operate without restrictions.
- When powered by 1x 802.3at (class 4) POE and with the IPM feature disabled, the AP will disable the USB port, disable the other Ethernet port, operate the 5GHz radio in 4x4 mode, and disable tri-radio operation
- In the same configuration but with IPM enabled, the AP will start up in unrestricted mode, but may dynamically apply restrictions depending on the POE budget and actual power. The feature restrictions and order can be programmed.
- Operating the AP with an 802.3af (class 3 or lower) POE source is not supported.
- Maximum (worst-case) power consumption (dual-radio operation):
 - DC powered: 32.6W
 - POE powered (802.3bt or dual 802.3at): 38.2W
 - POE powered (802.3at, IPM disabled): 25.1W
 - All numbers above are without an external USB device connected. When sourcing the full 5W power budget to such a device, the incremental (worst-case) power consumption for the AP is up to 6.0W (POE powered) or 5.4W (DC powered).
- Maximum (worst-case) power consumption in idle mode (dual-radio operation): 15.0W (POE) or 15.1W (DC).
- Maximum (worst-case) power consumption in deep-sleep mode: 3.8W(POE) or 3.6W (DC)

Mounting details

- A mounting bracket has been pre-installed on the back of the AP. This bracket is used to secure the AP to any of the Aruba mount kits (sold separately); see the ordering Information section below for details.

Mechanical specifications

- Dimensions/weight (AP-555; unit, excluding mount bracket):
 - 260mm (W) x 260mm (D) x 58mm (H) / 10.2" (W) x 10.2" (D) x 2.3" (H)
 - 1,570g / 55.4oz
- Dimensions/weight (AP-555; shipping):
 - 320mm (W) x 303mm (D) x 108mm (H) / 12.6" (W) x 11.9" (D) x 4.3" (H)
 - 2,230g / 78.7oz

Environmental specifications

- Operating conditions
 - Temperature: 0C to +50C / +32F to +122F
 - Humidity: 5% to 93% non-condensing
 - AP is plenum rated for use in air-handling spaces
 - ETS 300 019 class 3.2 environments
- Storage and transportation conditions
 - Temperature: -40C to +70C / -40F to +158F
 - Humidity: 5% to 93% non-condensing
 - ETS 300 019 classes 1.2 and 2.3 environments

Reliability

- Mean Time Between Failure (MTBF): 855,000hrs (98yrs) at +25C operating temperature.

Regulatory compliance

- FCC/ISED
- CE Marked
- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 60950
- EN 60601-1-1, EN60601-1-2

For more country-specific regulatory information and approvals, please see your Aruba representative.

Regulatory model numbers

- AP-555: APIN0555

Certifications

- UL2043 plenum rating
- Wi-Fi Alliance:
 - Wi-Fi CERTIFIED a, b, g, n, ac, ax
 - WPA, WPA2 and WPA3 – Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)
 - WMM, WMM-PS, Wi-Fi Vantage, W-Fi Agile Multiband
 - Passpoint (release 2)
- Bluetooth SIG

WARRANTY

Aruba's hardware limited lifetime warranty.

MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS

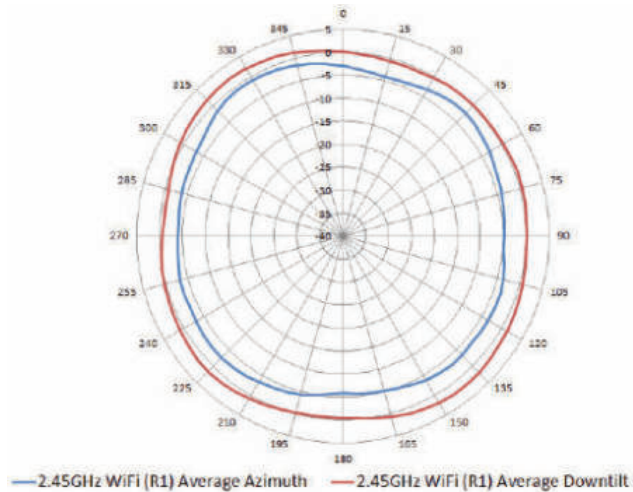
ArubaOS and Aruba InstantOS 8.5.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.

RF PERFORMANCE TABLE		
Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
2.4GHz, 802.11b		
1Mbps	18	-98
11Mbps	18	-89
2.4GHz, 802.11g		
6Mbps	18	-92
54Mbps	16	-75
2.4GHz, 802.11n HT20		
MCS0	18	-92
MCS7	14	-73
2.4GHz, 802.11ax HE20		
MCS0	18	-92
MCS11	10	-64
5GHz, 802.11a		
6Mbps	18	-91
54Mbps	16	-74
5GHz, 802.11n HT20		
MCS0	18	-91
MCS7	14	-72
5GHz, 802.11n HT40		
MCS0	18	-88
MCS7	14	-69
5GHz, 802.11ac VHT20		
MCS0	18	-91
MCS9	12	-68
5GHz, 802.11ac VHT40		
MCS0	18	-88
MCS9	12	-65
5GHz, 802.11ac VHT80		
MCS0	18	-85
MCS9	12	-62
5GHz, 802.11ac VHT160		
MCS0	18	-82
MCS9	12	-59
5GHz, 802.11ax HE20		
MCS0	18	-91
MCS11	10	-62
5GHz, 802.11ax HE40		
MCS0	18	-88
MCS11	10	-58
5GHz, 802.11ax HE80		
MCS0	18	-85
MCS11	10	-56
5GHz, 802.11ax HE160		
MCS0	18	-82
MCS11	10	-53

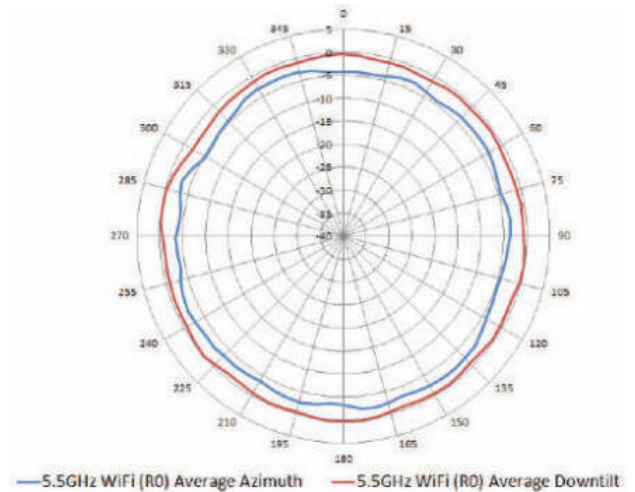
ANTENNA PATTERNS

Horizontal planes (top view)

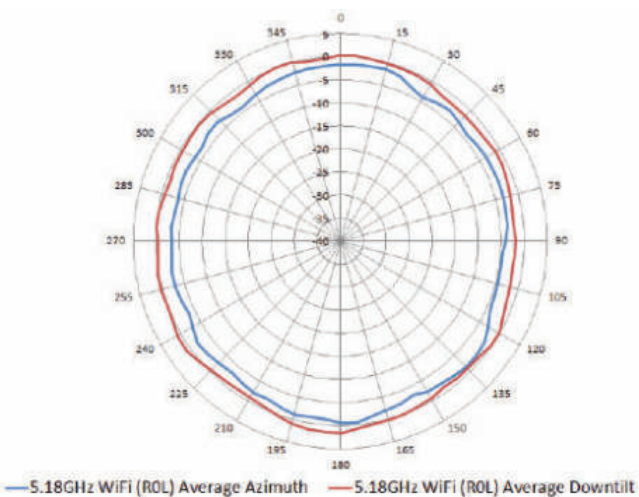
Showing azimuth (0 degrees) and 30 degrees downtilt patterns (averaged patterns for all applicable antennas)



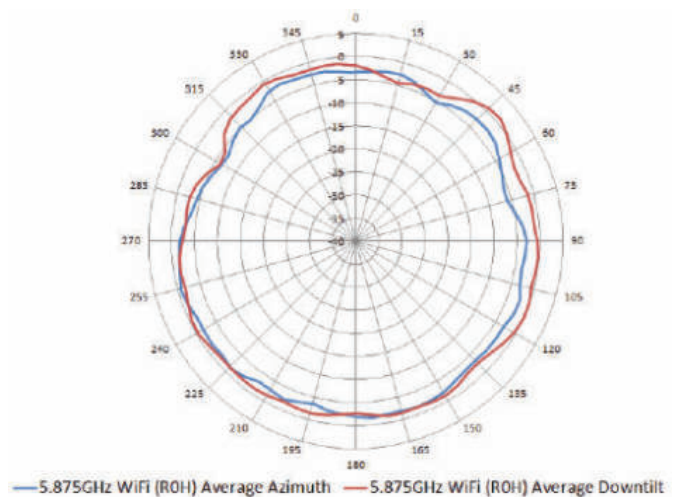
2.45GHz Wi-Fi (radio 1)



5.5GHz Wi-Fi (radio 0, dual-radio mode)



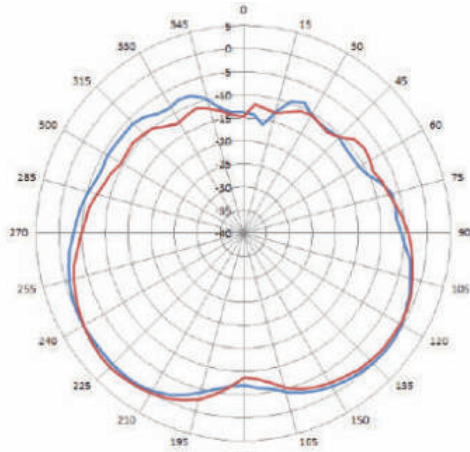
5.18GHz Wi-Fi (radio 0L, tri-radio mode)



5.875GHz Wi-Fi (radio 0U, tri-radio mode)

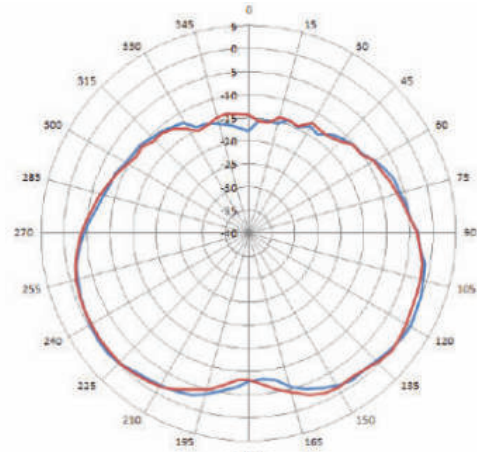
Vertical (elevation) planes (side view, AP facing down)

Showing side view with AP rotated 0 and 90 degrees (averaged patterns for all applicable antennas)



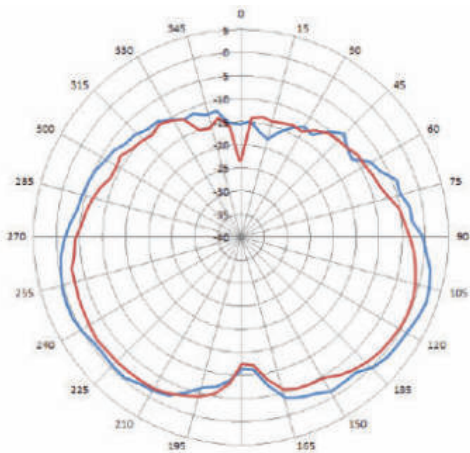
— 2.45GHz Wi-Fi (R1) Average Elevation 0 — 2.45GHz Wi-Fi (R1) Average Elevation 90

2.45GHz Wi-Fi (radio 1)



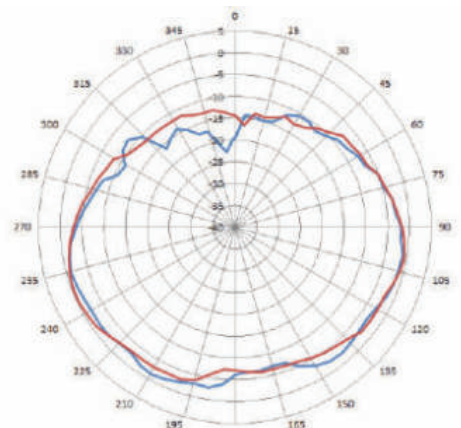
— 5.5GHz Wi-Fi (R0) Average Elevation 0 — 5.5GHz Wi-Fi (R0) Average Elevation 90

5.5GHz Wi-Fi (radio 0, dual-radio mode)



— 5.18GHz Wi-Fi (R0L) Average Elevation 0 — 5.18GHz Wi-Fi (R0L) Average Elevation 90

5.18GHz Wi-Fi (radio 0L, tri-radio mode)



— 5.875GHz Wi-Fi (R0H) Average Elevation 0 — 5.875GHz Wi-Fi (R0H) Average Elevation 90

5.875GHz Wi-Fi (radio 0U, tri-radio mode)

ORDERING INFORMATION

Part Number	Description
Aruba 550 Series Campus Access Points	
JZ353A	Aruba AP-555 (EG) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ354A	Aruba AP-555 (IL) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ355A	Aruba AP-555 (JP) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ356A	Aruba AP-555 (RW) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ357A	Aruba AP-555 (US) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ356ACM	Aruba CM AP-555 (RW) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ357ACM	Aruba CM AP-555 (US) Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ363A	Aruba AP-555 (EG) TAA Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ364A	Aruba AP-555 (IL) TAA Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ365A	Aruba AP-555 (JP) TAA Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ366A	Aruba AP-555 (RW) TAA Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
JZ367A	Aruba AP-555 (US) TAA Dual Radio 8x8:8 / 4x4:4 802.11ax Internal Antennas Unified Campus AP
Mounting kits	
JZ370A	AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type A: suspended ceiling rail, flat 9/16
Q9G69A	AP-MNT-MP10-B Campus AP mount bracket kit (10-pack) type B: suspended ceiling rail, flat 15/16
Q9G70A	AP-MNT-MP10-C Campus AP mount bracket kit (10-pack) type C: suspended ceiling rail, profile 9/16
Q9G71A	AP-MNT-MP10-D Campus AP mount bracket kit (10-pack) type D: solid surface
JZ370ACM	Aruba CM AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type A: flat rail 9/16
Q9G69ACM	Aruba CM AP-MNT-MP10-B Campus AP mount bracket kit (10-pack) type B: flat rail 15/16
Q9G70ACM	Aruba CM AP-MNT-MP10-C Campus AP mount bracket kit (10-pack) type C: profile rail 9/16
Q9G71ACM	Aruba CM AP-MNT-MP10-D Campus AP mount bracket kit (10-pack) type D: solid surface
R1C72ACM	Aruba CM AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box
R3J15ACM	Aruba CM AP-MNT-A Campus AP mount bracket kit (individual) type A: flat rail 9/16
R3J16ACM	Aruba CM AP-MNT-B Campus AP mount bracket kit (individual) type B: flat rail 15/16
R3J17ACM	Aruba CM AP-MNT-C Campus AP mount bracket kit (individual) type C: profile rail 9/16
R3J18ACM	Aruba CM AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface
R3J19ACM	Aruba CM AP-MNT-E Campus AP mount bracket kit (individual) type E: wall-box
R3T20ACM	Aruba CM AP-MNT-MP10-X Campus AP mount adapter kit (10-pack)
R1C72A	AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box
R3J15A	AP-MNT-A Campus AP mount bracket kit (individual) type A: suspended ceiling rail, flat 9/16
R3J16A	AP-MNT-B Campus AP mount bracket kit (individual) type B: suspended ceiling rail, flat 15/16
R3J17A	AP-MNT-C Campus AP mount bracket kit (individual) type C: suspended ceiling rail, profile 9/16
R3J18A	AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface
R3J19A	AP-MNT-E Campus AP mount bracket kit (individual) type E: wall-box
R3T20A	AP-MNT-MP10-X AP mount adapter 10-pack

ORDERING INFORMATION

Part Number	Description
Cosmetic covers	
JZ369A	AP-555-CVR-20 20-pack for AP-555 White Non-glossy Snap-on Covers
JZ369ACM	Aruba CM AP-555-CVR-20 20-pk White Non-glossy Snap-on Covers
Power accessories	
JX991A	AP-AC-48V36C AC-to-DC Power Adapter (48V/36W)
JX991ACM	Aruba CM AP-AC-48V36C 48V/36W AC/DC desktop style power adapter with type C connector
R1C73ACM	Aruba CM AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W midspan injector
R3K01ACM	Aruba CM AP-AC2-48C 48V/50W AC/DC desktop style power adapter with type C connector
R1C73A	AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W midspan injector
R3K01A	48V/50W AC/DC power adapter type C
Other accessories	
JY728A	AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable
JY728ACM	Aruba CM AP-CBL-SERU AP console adapter cable for custom micro-USB console port

Note: All hardware SKUs can be managed by Aruba Central. Central Managed (CM) SKUs are used for simplified ordering within US and Canada only.

For more ordering information, please refer to the [ordering guide](#)

CERTIFICADO DE CALIBRACIÓN

SEI250109



CLIENTE: CAPITAL NETWORKS S.A.S

DIRECCIÓN: CARRERA 73 A 52 A 18 LOCAL 202,
BOGOTÁ D.C.

UNIDAD BAJO PRUEBA: CERTIFICADOR DE
CABLEADO

CONSECUTIVO INTERNO: M24554

REFERENCIA: DSX-8000

FECHA DE CALIBRACIÓN: 2025-02-03

FABRICANTE: FLUKE NETWORKS

FECHA DE EMISIÓN: 2025-02-03

NÚMERO DE SERIE MÓDULO 1: 2330145

NOMBRE PROCEDIMIENTO: ULUTEST DSX-8000

NÚMERO DE SERIE MÓDULO 2: 2330153

RESULTADO: CONFORME

TEMPERATURA: (18 a 27) °C

TIPO DATO: AS-LEFT

HUMEDAD RELATIVA: (40 a 70) %RH

PATRONES UTILIZADOS			
DESCRIPCIÓN	SERIE	FECHA CALIBRACIÓN	CERTIFICADO DE CALIBRACIÓN
2G CDNEXT ARTIFACT	18163658	2023-11-14	EVL927921
2G TCL ARTIFACT	18163714	2023-11-14	EVL927926
2G NEXT ARTIFACT	18163717	2023-11-14	EVL927920
2G CMDM RL ARTIFACT	18163723	2023-11-14	EVL927923
2G RESISTANCE UNBALANCED	18210452	2023-11-14	EVL927931
2G LOOP RESISTANCE ARTIFACT	18210470	2023-11-14	EVL927930
2G IL/FEXT ARTIFACT	18210483	2023-11-14	EVL927928
IL/FEXT ARTIFACT	18210497	2023-11-14	EVL927929

SEI S.A, asegura el mantenimiento de la trazabilidad de los patrones de referencia utilizados en estas mediciones, con los patrones National Institute of Standards and Technology (NIST), mediante certificado adjunto de calibración del Patrón utilizado. Nuestro laboratorio, certifica que los resultados contenidos en el presente certificado, se refieren al momento y condiciones en que se realizaron las mediciones. El laboratorio que lo emite no se responsabiliza de los perjuicios que pueden derivarse del uso inadecuado de los instrumentos calibrados.

Los resultados contenidos en este certificado de calibración solo aplican al instrumento bajo prueba y se refieren al momento y condiciones en que se realizan las mediciones, el Laboratorio de Calibración de SEI SISTEMAS E INSTRUMENTACION S.A. no se responsabiliza de los perjuicios que pueden derivarse del uso inadecuado de los instrumentos calibrados. Es responsabilidad del usuario establecer la fecha de una nueva calibración del instrumento.

Este Certificado de Calibración no podrá ser reproducido total o parcialmente, excepto cuando se haya obtenido previamente aprobación escrita por parte de SEI SISTEMAS E INSTRUMENTACION S.A.

El tipo de dato que puede contener este certificado debe ser interpretado así:

AS-FOUND Los datos de la calibración corresponden a la unidad en prueba antes de reparación y/o ajuste.

AS-LEFT Los datos de calibración corresponden a la unidad en prueba después de reparación y/o ajuste.

FOUND-LEFT Los datos de calibración corresponden a la unidad en prueba sin ningún tipo de reparación y/o ajuste.

Los resultados podrán ser:

CONFORME Cuando las desviaciones asociadas al resultado de medida se encuentran dentro de los límites especificados en Los resultados de la calibración

NO CONFORME Cuando las desviaciones asociadas al resultado de medida no se encuentran dentro de los límites especificados en Los resultados de la calibración

INDETERMINADO Cuando al asociar la incertidumbre de medida al error, no es posible determinar si el instrumento está o no dentro de los límites especificados en los resultados de la calibración

FIRMAS AUTORIZADAS

LUIS JORDAN
Metrólogo

FABIAN RUBIANO
Director técnico

CERTIFICADO DE CALIBRACIÓN

SEI250109



Número de serie: 2330145

Módulo 1

TestName	Expected	Measured	Limit	LimitType	MeasError	Units
MAIN Module Serial Number	-	2330145	-	16	-	-
MAIN Module Model	400	400	-	0	-	-
MAIN Module Calibration Date	-	20231212-0454	-	0	-	-
cmcal begin base on MAIN	-	Starting	-	0	-	-
Connect the DSX-CMLOAD artifact	102	102	230	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-NXGAIN artifact	301	301	225	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMLOAD artifact	302	302	222	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMSHORT artifact	303	303	222	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-OPEN artifact	304	304	221	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMDM artifact	305	305	220	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-TCLUN artifact	306	306	220	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-RESIST artifact	307	307	228	0	-	-
MAIN cmcal meas	-	-	-	0	-	-
MAIN cmcal save	-	-	-	0	-	-
Setup Remove the last artifact from the tester.	-	Ok	-	0	-	-
Init MainframeDevice for MAIN	-	-	-	0	-	-
MAIN Mainframe Serial Number	-	23453256	-	16	-	-
MAIN Module Serial Number	-	2330145	-	16	-	-
MAIN Module Model	400	400	-	0	-	-
MAIN Module Calibration Date	-	20250203-1251	-	0	-	-
MAIN dturnon self-test	-	-	-	18	-	-
Connect the 2G NEXT verification artifact to the UUT.	312	312	205	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN NEXTVER NEXT Pair12-36	98 MHz	66.59763	-	0	0.6985635	-
MAIN NEXTVER NEXT Pair12-45	1.375 MHz	68.66687	-	0	0.6027523	-
MAIN NEXTVER NEXT Pair12-78	134.5 MHz	65.22569	-	0	0.7163645	-
MAIN NEXTVER NEXT Pair36-45	114.5 MHz	65.68789	-	0	0.6037596	-
MAIN NEXTVER NEXT Pair36-78	117.5 MHz	65.6608	-	0	0.6008979	-
MAIN NEXTVER NEXT Pair45-78	4.625 MHz	69.22067	-	0	0.5693929	-
Connect the 2G CDNEXT verification artifact to the UUT.	314	314	203	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN CDNEXTVER CDNEXT Pair12	157 MHz	37.35963	-	0	1.481299	-
MAIN CDNEXTVER CDNEXT Pair36	152.5 MHz	37.27709	-	0	1.692501	-
MAIN CDNEXTVER CDNEXT Pair45	175.5 MHz	36.49651	-	0	1.299887	-
MAIN CDNEXTVER CDNEXT Pair78	175.5 MHz	36.22932	-	0	1.487141	-
Connect the 2G CMDM RL verification artifact to the UUT.	311	311	399	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN CMDMRL CMRL Pair12	1346 MHz	5.942111	-	0	1.61965	-
MAIN CMDMRL CMRL Pair36	1338 MHz	5.946853	-	0	1.55585	-
MAIN CMDMRL CMRL Pair45	1334 MHz	6.268538	-	0	1.881023	-

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MAIN CMDMRL CMRL Pair78	1336 MHz	6.32857	-	0	1.961978	-
MAIN CMDMRLVER DMRL Pair12	1350 MHz	7.478665	-	0	0.7722006	-
MAIN CMDMRLVER DMRL Pair36	1019 MHz	8.279587	-	0	0.6683316	-
MAIN CMDMRLVER DMRL Pair45	838 MHz	8.668073	-	0	0.9162108	-
MAIN CMDMRLVER DMRL Pair78	859 MHz	8.765891	-	0	0.9680877	-
Connect the 2G TCL verification artifact to the UUT.	315	315	202	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN TCLVER TCL Pair12	100 MHz	39.17162	-	0	1.957346	-
MAIN TCLVER TCL Pair36	1 MHz	61.81405	-	0	1.649806	-
MAIN TCLVER TCL Pair45	107 MHz	38.78661	-	0	2.07043	-
MAIN TCLVER TCL Pair78	100 MHz	39.3077	-	0	2.009802	-
Connect 2G SETREF artifact between Main and Remote testers. The remote must be turned on and warm. The remote must NOT have a USB cable connected.	408	408	203	0	-	-
MAIN SetRef	-	-	-	18	-	-
Connect the REMOTE end of the 2G IL/FEXT_artifact to the Remote tester. Connect the Main tester to the other end of the IL/FEXT.	313	313	390	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN IL/FEXT IL Pair12	100 MHz	6.450214	-	0	0.6540917	-
MAIN IL/FEXT IL Pair36	100 MHz	6.478562	-	0	0.660068	-
MAIN IL/FEXT IL Pair45	100 MHz	6.452361	-	0	0.6598049	-
MAIN IL/FEXT IL Pair78	100 MHz	6.470809	-	0	0.653919	-
MAIN IL/FEXT FEXT Pair12-36	1984 MHz	73.21941	-	0	0.6246498	-
MAIN IL/FEXT FEXT Pair12-45	126.5 MHz	71.30447	-	0	0.9805624	-
MAIN IL/FEXT FEXT Pair12-78	45.5 MHz	72.37065	-	0	0.8212013	-
MAIN IL/FEXT FEXT Pair36-12	132.5 MHz	63.51414	-	0	0.9476357	-
MAIN IL/FEXT FEXT Pair36-45	34.25 MHz	72.37846	-	0	0.9925399	-
MAIN IL/FEXT FEXT Pair36-78	2.75 MHz	67.50656	-	0	1.016465	-
MAIN IL/FEXT FEXT Pair45-12	127 MHz	71.25958	-	0	0.8909221	-
MAIN IL/FEXT FEXT Pair45-36	3.625 MHz	66.84837	-	0	0.9044809	-
MAIN IL/FEXT FEXT Pair45-78	1.375 MHz	66.80582	-	0	0.9717507	-
MAIN IL/FEXT FEXT Pair78-12	84 MHz	71.3653	-	0	0.6927288	-
MAIN IL/FEXT FEXT Pair78-36	1 MHz	67.06742	-	0	0.6054749	-
MAIN IL/FEXT FEXT Pair78-45	35.25 MHz	69.82338	-	0	0.7559333	-
Connect the 2G LOOP RESISTANCE artifact between Main and Remote units.	316	316	217	0	-	-
MAIN Resistance on pair 12	0	0.279512	0.800000012	4	0.279512	ohm
MAIN Resistance on pair 36	49.799999	49.9352	0.600000024	4	0.13520076	ohm
MAIN Resistance on pair 45	99.800003	100.128	1.600000024	4	0.32799695	ohm
MAIN Resistance on pair 78	453	451.859	4	4	-1.141	ohm
Connect the 2G RES UNBALANCED verification artifact between UUT and Remote.	317	317	367	0	-	-
MAIN Resistance on pair 12	0	0.273295	0.800000012	4	0.273295	ohm
MAIN Resistance on pair 36	24.9	25.1452	0.899999976	4	0.24520038	ohm
MAIN Resistance on pair 45	12.126	12.4129	0.899999976	4	0.2868996	ohm
MAIN Resistance on pair 78	24.049999	24.3538	0.899999976	4	0.30380076	ohm
MAIN Resistance imbalance on pair 12	0	0.00202608	0.050000001	4	0.00202608	ohm
MAIN Resistance imbalance on pair 36	0	0.0060122	0.125	4	0.0060122	ohm
MAIN Resistance imbalance on pair 45	0.324	0.32211	0.061000001	4	-0.00189	ohm

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MAIN Resistance imbalance on pair 78	0.85	0.844015	0.119999997	4	-0.00598502	ohm
Connect the REMOTE end of the DSX IL/FEXT_artifact to the Remote tester. Connect the Main tester to the other end of the IL/FEXT.	113	113	369	0	-	
Cert info from artifact	-	-	-	16	-	-
MAIN M ILFEXT IL Pair12 2 MHz	2.942615	-	0	0.6562413	-	-
MAIN M ILFEXT IL Pair36 2.375 MHz	3.083003	-	0	0.6530944	-	-
MAIN M ILFEXT IL Pair45 2.375 MHz	3.069207	-	0	0.6588883	-	-
MAIN M ILFEXT IL Pair78 2.125 MHz	2.977758	-	0	0.6490408	-	-
MAIN M ILFEXT FEXT Pair12-36 108.5 MHz	67.41771	-	0	0.7239621	-	-
MAIN M ILFEXT FEXT Pair12-45 33.5 MHz	67.70576	-	0	0.6496636	-	-
MAIN M ILFEXT FEXT Pair12-78 33.5 MHz	67.66364	-	0	0.7176948	-	-
MAIN M ILFEXT FEXT Pair36-12 16 MHz	70.02013	-	0	0.4469371	-	-
MAIN M ILFEXT FEXT Pair36-45 10.25 MHz	71.49957	-	0	0.6211703	-	-
MAIN M ILFEXT FEXT Pair36-78 25.75 MHz	68.59204	-	0	0.5784601	-	-
MAIN M ILFEXT FEXT Pair45-12 34.75 MHz	67.67033	-	0	0.6628501	-	-
MAIN M ILFEXT FEXT Pair45-36 7 MHz	72.02718	-	0	0.6839127	-	-
MAIN M ILFEXT FEXT Pair45-78 39.75 MHz	67.47906	-	0	0.4277132	-	-
MAIN M ILFEXT FEXT Pair78-12 21 MHz	69.22939	-	0	0.5469189	-	-
MAIN M ILFEXT FEXT Pair78-36 19.75 MHz	69.57874	-	0	0.4907452	-	-
MAIN M ILFEXT FEXT Pair78-45 6.125 MHz	72.49414	-	0	0.4865536	-	-
Número de serie:	2330153					
Módulo 2						
TestName	Expected	Measured	Limit	LimitType	MeasError	Units
MAIN Module Serial Number	-	2330153	-	16	-	-
MAIN Module Model	400	400	-	0	-	-
MAIN Module Calibration Date	-	20231212-0504	-	0	-	-
cmcal begin base on MAIN	-	Starting	-	0	-	-
Connect the DSX-CMLOAD artifact	102	102	231	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-NXGAIN artifact	301	301	226	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMLOAD artifact	302	302	223	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMSHORT artifact	303	303	223	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-OPEN artifact	304	304	222	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-CMDM artifact	305	305	221	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-TCLUN artifact	306	306	221	0	-	
MAIN cmcal meas	-	-	-	0	-	-
Connect the 2G-RESIST artifact	307	307	229	0	-	
MAIN cmcal meas	-	-	-	0	-	-
MAIN cmcal save	-	-	-	0	-	-
Setup Remove the last artifact from the tester.	-	Ok	-	0	-	-
Init MainframeDevice for MAIN	-	-	-	0	-	-
MAIN Mainframe Serial Number	-	23453256	-	16	-	-
MAIN Module Serial Number	-	2330153	-	16	-	-
MAIN Module Model	400	400	-	0	-	-
MAIN Module Calibration Date	-	20250203-1303	-	0	-	-
MAIN dcturnon self-test	-	-	-	18	-	-

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Connect the 2G NEXT verification artifact to the UUT.	312	312	206	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN NEXTVER NEXT Pair12-36	114.5 MHz	65.90339	-	0	0.659173	-
MAIN NEXTVER NEXT Pair12-45	1 MHz	68.6469	-	0	0.4870365	-
MAIN NEXTVER NEXT Pair12-78	99.25 MHz	66.80333	-	0	0.7041197	-
MAIN NEXTVER NEXT Pair36-45	120.5 MHz	65.46873	-	0	0.6467072	-
MAIN NEXTVER NEXT Pair36-78	94 MHz	66.585	-	0	0.6186363	-
MAIN NEXTVER NEXT Pair45-78	105 MHz	66.11224	-	0	0.6125	-
Connect the 2G CDNEXT verification artifact to the UUT.	314	314	204	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN CDNEXTVER CDNEXT Pair12	152.5 MHz	37.50569	-	0	1.522193	-
MAIN CDNEXTVER CDNEXT Pair36	156 MHz	37.04074	-	0	1.736261	-
MAIN CDNEXTVER CDNEXT Pair45	175.5 MHz	36.45509	-	0	1.323278	-
MAIN CDNEXTVER CDNEXT Pair78	180 MHz	35.93096	-	0	1.541709	-
Connect the 2G CMDM RL verification artifact to the UUT.	311	311	401	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN CMDMRL CMRL Pair12	1350 MHz	5.817974	-	0	1.500865	-
MAIN CMDMRL CMRL Pair36	1350 MHz	5.926385	-	0	1.5511	-
MAIN CMDMRL CMRL Pair45	979 MHz	7.241033	-	0	1.983476	-
MAIN CMDMRL CMRL Pair78	1013 MHz	7.198818	-	0	1.979456	-
MAIN CMDMRLVER DMRL Pair12	1358 MHz	7.421216	-	0	0.7256429	-
MAIN CMDMRLVER DMRL Pair36	1200 MHz	7.994726	-	0	0.7163372	-
MAIN CMDMRLVER DMRL Pair45	971 MHz	8.487989	-	0	0.9713469	-
MAIN CMDMRLVER DMRL Pair78	968 MHz	8.69661	-	0	1.003814	-
Connect the 2G TCL verification artifact to the UUT.	315	315	203	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN TCLVER TCL Pair12	100 MHz	39.1169	-	0	2.009968	-
MAIN TCLVER TCL Pair36	106 MHz	38.51212	-	0	1.960586	-
MAIN TCLVER TCL Pair45	106 MHz	38.88025	-	0	2.082628	-
MAIN TCLVER TCL Pair78	100 MHz	39.34863	-	0	1.971246	-
Connect 2G SETREF artifact between Main and Remote testers. The remote must be turned on and warm. The remote must NOT have a USB cable connected.	408	408	204	0	-	-
MAIN SetRef	-	-	-	18	-	-
Connect the REMOTE end of the 2G IL/FEXT_artifact to the Remote tester. Connect the Main tester to the other end of the IL/FEXT.	313	313	392	0	-	-
Cert info from artifact	-	-	-	16	-	-
MAIN IL/FEXT IL Pair12	100 MHz	6.454854	-	0	0.6586132	-
MAIN IL/FEXT IL Pair36	100 MHz	6.480651	-	0	0.6620981	-
MAIN IL/FEXT IL Pair45	100 MHz	6.453973	-	0	0.6613761	-
MAIN IL/FEXT IL Pair78	100 MHz	6.477727	-	0	0.6606441	-
MAIN IL/FEXT FEXT Pair12-36	1950 MHz	73.65279	-	0	0.8450806	-
MAIN IL/FEXT FEXT Pair12-45	126.5 MHz	71.41329	-	0	1.043595	-
MAIN IL/FEXT FEXT Pair12-78	51.75 MHz	72.23332	-	0	0.7761133	-
MAIN IL/FEXT FEXT Pair36-12	129.5 MHz	63.64622	-	0	0.9688566	-
MAIN IL/FEXT FEXT Pair36-45	3.75 MHz	66.83308	-	0	1.035145	-
MAIN IL/FEXT FEXT Pair36-78	1.125 MHz	67.14838	-	0	0.9780625	-

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MAIN IL/FEXT FEXT Pair45-12	123.5 MHz	71.37862	-	0	0.89668	-
MAIN IL/FEXT FEXT Pair45-36	1862 MHz	65.78264	-	0	0.9974303	-
MAIN IL/FEXT FEXT Pair45-78	1.5 MHz	66.74277	-	0	0.9268099	-
MAIN IL/FEXT FEXT Pair78-12	88.5 MHz	71.35741	-	0	0.763875	-
MAIN IL/FEXT FEXT Pair78-36	1 MHz	67.02789	-	0	0.6375446	-
MAIN IL/FEXT FEXT Pair78-45	60.5 MHz	67.49708	-	0	0.8311279	-
Connect the 2G LOOP RESISTANCE artifact between Main and Remote units.	316	316	218	0	-	
MAIN Resistance on pair 12	0	0.270734	0.800000012	4	0.270734	ohm
MAIN Resistance on pair 36	49.799999	49.9583	0.600000024	4	0.15830076	ohm
MAIN Resistance on pair 45	99.800003	100.116	1.600000024	4	0.31599695	ohm
MAIN Resistance on pair 78	453	451.802	4	4	-1.198	ohm
Connect the 2G RES UNBALANCED verification artifact between UUT and Remote.	317	317	369	0	-	
MAIN Resistance on pair 12	0	0.26973	0.800000012	4	0.26973	ohm
MAIN Resistance on pair 36	24.9	25.1526	0.899999976	4	0.25260038	ohm
MAIN Resistance on pair 45	12.126	12.433	0.899999976	4	0.3069996	ohm
MAIN Resistance on pair 78	24.049999	24.3858	0.899999976	4	0.33580076	ohm
MAIN Resistance imbalance on pair 12	0	0.00231993	0.050000001	4	0.00231993	ohm
MAIN Resistance imbalance on pair 36	0	0.00664771	0.125	4	0.00664771	ohm
MAIN Resistance imbalance on pair 45	0.324	0.31995	0.061000001	4	-0.00405	ohm
MAIN Resistance imbalance on pair 78	0.85	0.849587	0.119999997	4	-0.00041302	ohm
Connect the REMOTE end of the DSX IL/FEXT_artifact to the Remote tester. Connect the Main tester to the other end of the IL/FEXT.	113	113	371	0	-	
Cert info from artifact	-	-	-	16	-	-
MAIN M ILFEXT IL Pair12	2.125 MHz	2.986994	-	0	0.6574938	-
MAIN M ILFEXT IL Pair36	2.125 MHz	2.996139	-	0	0.6547623	-
MAIN M ILFEXT IL Pair45	2.125 MHz	2.985031	-	0	0.663613	-
MAIN M ILFEXT IL Pair78	2.125 MHz	2.981517	-	0	0.6532068	-
MAIN M ILFEXT FEXT Pair12-36	102 MHz	67.24529	-	0	0.6854934	-
MAIN M ILFEXT FEXT Pair12-45	5.25 MHz	72.33142	-	0	0.5391414	-
MAIN M ILFEXT FEXT Pair12-78	13.125 MHz	71.64974	-	0	0.6082623	-
MAIN M ILFEXT FEXT Pair36-12	17.875 MHz	69.73787	-	0	0.5493578	-
MAIN M ILFEXT FEXT Pair36-45	5.25 MHz	72.14307	-	0	0.6800712	-
MAIN M ILFEXT FEXT Pair36-78	41.75 MHz	67.19209	-	0	0.6093501	-
MAIN M ILFEXT FEXT Pair45-12	29.125 MHz	68.13376	-	0	0.6208948	-
MAIN M ILFEXT FEXT Pair45-36	5 MHz	71.52318	-	0	0.5246801	-
MAIN M ILFEXT FEXT Pair45-78	34.75 MHz	67.63614	-	0	0.2653157	-
MAIN M ILFEXT FEXT Pair78-12	22.5 MHz	69.03429	-	0	0.6197392	-
MAIN M ILFEXT FEXT Pair78-36	23 MHz	69.06304	-	0	0.5300528	-
MAIN M ILFEXT FEXT Pair78-45	5.125 MHz	71.94559	-	0	0.6555647	-
Fin del Certificado						

ITEM	PUNTO RED	PATCH PANEL 48PTS	PUERTO	SWITCH	PUERTO	UBICACIÓN	MARQUILLAS
1	D-01	1	1	1		SIMULACION CONTROL ACCESO	P2-R1-PP1-01
2	D-02	1	2			SIMULACION CONTROL ACCESO	P2-R1-PP1-02
3	D-03	1	3			SIMULACION CONTROL ACCESO	P2-R1-PP1-03
4	D-04	1	4			SIMULACION CONTROL ACCESO	P2-R1-PP1-04
5	D-05	1	5			SIMULACION CONTROL ACCESO	P2-R1-PP1-05
6	D-06	1	6			LABORATORIO SES	P2-R1-PP1-06
7	D-07	1	7			LABORATORIO SES	P2-R1-PP1-07
8	D-08	1	8			LABORATORIO SES	P2-R1-PP1-08
9	D-09	1	9			LABORATORIO SES	P2-R1-PP1-09
10	D-10	1	10			LABORATORIO SES	P2-R1-PP1-10
11	D-11	1	11			LABORATORIO SES	P2-R1-PP1-11
12	D-12	1	12			SOC	P2-R1-PP1-12
13	D-13	1	13			SOC	P2-R1-PP1-13
14	D-14	1	14			LABORATORIO SES	P2-R1-PP1-14
15	D-15	1	15			LABORATORIO SES	P2-R1-PP1-15
16	D-16	1	16			LABORATORIO SES	P2-R1-PP1-16
17	D-17	1	17			LABORATORIO SES	P2-R1-PP1-17
18	D-18	1	18			LABORATORIO SES	P2-R1-PP1-18
19	D-19	1	19			LABORATORIO SES	P2-R1-PP1-19
20	D-20	1	20			LABORATORIO SES	P2-R1-PP1-20
21	D-21	1	21			LABORATORIO SES	P2-R1-PP1-21
22	D-22	1	22			LABORATORIO SES	P2-R1-PP1-22
23	D-23	1	23			LABORATORIO SES	P2-R1-PP1-23
24	D-24	1	24			DIRECTOR DISIE	P2-R1-PP1-24
25	D-25	1	25			DIRECTOR DISIE	P2-R1-PP1-25
26	D-26	1	26			OFICINAS DISIE ISLA 1	P2-R1-PP1-26
27	D-27	1	27			OFICINAS DISIE ISLA 1	P2-R1-PP1-27
28	D-28	1	28			OFICINAS DISIE ISLA 1	P2-R1-PP1-28
29	D-29	1	29			OFICINAS DISIE ISLA 1	P2-R1-PP1-29
30	D-30	1	30			OFICINAS DISIE ISLA 1	P2-R1-PP1-30
31	D-31	1	31			OFICINAS DISIE ISLA 1	P2-R1-PP1-31
32	D-32	1	32			OFICINAS DISIE ISLA 1	P2-R1-PP1-32
33	D-33	1	33			OFICINAS DISIE ISLA 1	P2-R1-PP1-33
34	D-34	1	34			OFICINAS DISIE ISLA 1	P2-R1-PP1-34
35	D-35	1	35			OFICINAS DISIE ISLA 1	P2-R1-PP1-35
36	D-36	1	36			OFICINAS DISIE ISLA 1	P2-R1-PP1-36
37	D-37	1	37			OFICINAS DISIE ISLA 1	P2-R1-PP1-37
38	D-38	1	38			OFICINAS DISIE ISLA 2	P2-R1-PP1-38
39	D-39	1	39			OFICINAS DISIE ISLA 2	P2-R1-PP1-39
40	D-40	1	40			OFICINAS DISIE ISLA 2	P2-R1-PP1-40
41	D-41	1	41			OFICINAS DISIE ISLA 2	P2-R1-PP1-41
42	D-42	1	42			OFICINAS DISIE ISLA 2	P2-R1-PP1-42
43	D-43	1	43			OFICINAS DISIE ISLA 2	P2-R1-PP1-43
44	D-44	1	44			OFICINAS DISIE ISLA 2	P2-R1-PP1-44
45	D-45	1	45			OFICINAS DISIE ISLA 2	P2-R1-PP1-45
46	D-46	1	46			OFICINAS DISIE ISLA 2	P2-R1-PP1-46
47	D-47	1	47			OFICINAS DISIE ISLA 2	P2-R1-PP1-47
48	D-48	1	48			OFICINAS DISIE ISLA 2	P2-R1-PP1-48
49	D-49	2	1	2		OFICINAS DISIE ISLA 2	P2-R1-PP2-49
50	D-50	2	2			OFICINAS DISIE ISLA 3	P2-R1-PP2-50
51	D-51	2	3			OFICINAS DISIE ISLA 3	P2-R1-PP2-51
52	D-52	2	4			OFICINAS DISIE ISLA 3	P2-R1-PP2-52
53	D-53	2	5			OFICINAS DISIE ISLA 3	P2-R1-PP2-53
54	D-54	2	6			OFICINAS DISIE ISLA 3	P2-R1-PP2-54
55	D-55	2	7			OFICINAS DISIE ISLA 3	P2-R1-PP2-55
56	D-56	2	8			OFICINAS DISIE ISLA 3	P2-R1-PP2-56
57	D-57	2	9			OFICINAS DISIE ISLA 3	P2-R1-PP2-57
58	D-58	2	10			OFICINAS DISIE ISLA 3	P2-R1-PP2-58
59	D-59	2	11			OFICINAS DISIE ISLA 3	P2-R1-PP2-59
60	D-60	2	12			OFICINAS DISIE ISLA 3	P2-R1-PP2-60
61	D-61	2	13			OFICINAS DISIE ISLA 3	P2-R1-PP2-61
62	D-62	2	14			OFICINAS DISIE MEDIO MURO	P2-R1-PP2-62
63	D-63	2	15			OFICINAS DISIE MEDIO MURO	P2-R1-PP2-63
64	D-64	2	16			SALA STAR MEDIO MURO	P2-R1-PP2-64
65	D-65	2	17			SALA STAR MEDIO MURO	P2-R1-PP2-65
66	D-66	2	18			SOC ISLA 01	P2-R1-PP2-66
67	D-67	2	19			SOC ISLA 01	P2-R1-PP2-67
68	D-68	2	20			SOC ISLA 01	P2-R1-PP2-68
69	D-69	2	21			SOC ISLA 01	P2-R1-PP2-69

70	D-70	2	22			SOC ISLA 02	P2-R1-PP2-70
71	D-71	2	23			SOC ISLA 02	P2-R1-PP2-71
72	D-72	2	24			SOC ISLA 02	P2-R1-PP2-72
73	D-73	2	25			SOC ISLA 02	P2-R1-PP2-73
74	D-74	2	26			SOC ISLA 02	P2-R1-PP2-74
75	D-75	2	27			SOC ISLA 02	P2-R1-PP2-75
76	D-76	2	28			SOC ISLA 03	P2-R1-PP2-76
77	D-77	2	29			SOC ISLA 03	P2-R1-PP2-77
78	D-78	2	30			SOC ISLA 03	P2-R1-PP2-78
79	D-79	2	31			SOC ISLA 03	P2-R1-PP2-79
80	D-80	2	32			SOC ISLA 03	P2-R1-PP2-80
81	D-81	2	33			SOC ISLA 03	P2-R1-PP2-81
82	D-82	2	34			SOC ISLA 03	P2-R1-PP2-82
83	D-83	2	35			SOC ISLA 03	P2-R1-PP2-83
84	D-84	2	36			SOC ISLA 04	P2-R1-PP2-84
85	D-85	2	37			SOC ISLA 04	P2-R1-PP2-85
86	D-86	2	38			SOC ISLA 04	P2-R1-PP2-86
87	D-87	2	39			SOC ISLA 04	P2-R1-PP2-87
88	D-88	2	40			SOC ISLA 04	P2-R1-PP2-88
89	D-89	2	41			SOC ISLA 04	P2-R1-PP2-89
90	D-90	2	42			SOC ISLA 04	P2-R1-PP2-90
91	D-91	2	43			SOC ISLA 04	P2-R1-PP2-91
92	D-92	2	44			SOC TV	P2-R1-PP2-92
93	D-93	2	45			SOC TV	P2-R1-PP2-93
94	D-94	2	46			SOC TV	P2-R1-PP2-94
95	D-95	2	47			SOC TV	P2-R1-PP2-95
96	D-96	2	48			SOC TV	P2-R1-PP2-96
97	D-97	3	1	3		SOC TV	P2-R1-PP3-97
98	D-98	3	2			VIDEO PORTERO	P2-R1-PP3-98
99	D-99	3	3			RECONOCIMIENTO FACIAL	P2-R1-PP3-99
100	D-100	3	4			EN TECHO FALSO	P2-R1-PP3-100
101	D-101	3	5			EN TECHO FALSO	P2-R1-PP3-101
102	D-102	3	6			EN TECHO FALSO	P2-R1-PP3-102
103	D-103	3	7			EN TECHO FALSO	P2-R1-PP3-103
104	D-104	3	8			EN TECHO FALSO	P2-R1-PP3-104
105	D-105	3	9			EN TECHO FALSO	P2-R1-PP3-105
106	C-106	3	10			CAMARA EN TECHO PASILLO BAÑOS	P2-R1-PP3-106
107	C-107	3	11			CAMARA EN MURO TALANQUERAS	P2-R1-PP3-107
108	C-108	3	12			CAMARA EN MURO TALANQUERAS	P2-R1-PP3-108
109	C-109	3	13			CAMARA EN TECHO ALMACEN	P2-R1-PP3-109
110	C-110	3	14			CAMARA EN TECHO LABORATORIO	P2-R1-PP3-110
111	C-111	3	15			CAMARA EN TECHO PASILLO PRINCIPAL	P2-R1-PP3-111
112	C-112	3	16			CAMARA EN TECHO OFICINAS DISIE	P2-R1-PP3-112
113	C-113	3	17			CAMARA EN TECHO SOC	P2-R1-PP3-113
114	C-114	3	18			CAMARA EN TECHO SALA STAR	P2-R1-PP3-114
115	AP-115	3	19			AP OFICINAS DISIE	P2-R1-PP3-115
116	AP-116	3	20			AP SOC	P2-R1-PP3-116

LinkWare Live

Official Summary

Certification Report



Exclusively For:		Prepared By:	Projects
		EPC Organization	LABORATORIO SISTEMAS ELECTRONCOS SEGURIDAD GRUSE 85 AEROPUERTO MILITAR CATAM
		LEONARDO JIMÉNEZ	
		proyectofac.epc@gmail.com	
Product Name	Serial Number	Firmware Version	Calibration Date
DSX-8000	2330153	V6.12 Build 2	02/03/2025
DSX-8000	2330145	V6.12 Build 2	02/03/2025

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
P2-R1-PP1-01	PASS	TIA Cat 6A Perm. Link	9.2 m	0.7 dB (NEXT)	04/14/2025 08:37:17 AM
P2-R1-PP1-02	PASS	TIA Cat 6A Perm. Link	9.2 m	0.6 dB (NEXT)	04/14/2025 08:45:41 AM
P2-R1-PP1-03	PASS	TIA Cat 6A Perm. Link	10.2 m	3.3 dB (NEXT)	04/14/2025 08:50:56 AM
P2-R1-PP1-04	PASS	TIA Cat 6A Perm. Link	12.3 m	3.8 dB (NEXT)	04/14/2025 08:52:49 AM
P2-R1-PP1-05	PASS	TIA Cat 6A Perm. Link	12.7 m	3.7 dB (NEXT)	04/14/2025 09:00:49 AM
P2-R1-PP1-06	PASS	TIA Cat 6A Perm. Link	12.1 m	0.8 dB (NEXT)	04/14/2025 09:01:47 AM
P2-R1-PP1-07	PASS	TIA Cat 6A Perm. Link	12.1 m	1.2 dB (NEXT)	04/14/2025 09:03:04 AM
P2-R1-PP1-08	PASS	TIA Cat 6A Perm. Link	14.1 m	3.2 dB (NEXT)	04/14/2025 09:03:29 AM
P2-R1-PP1-09	PASS	TIA Cat 6A Perm. Link	14.1 m	3.5 dB (NEXT)	04/14/2025 09:04:30 AM
P2-R1-PP1-10	PASS	TIA Cat 6A Perm. Link	17.0 m	2.8 dB (NEXT)	04/14/2025 09:04:58 AM
P2-R1-PP1-11	PASS	TIA Cat 6A Perm. Link	17.2 m	3.1 dB (NEXT)	04/14/2025 09:06:07 AM
P2-R1-PP1-12	PASS	TIA Cat 6A Perm. Link	18.4 m	4.0 dB (NEXT)	04/14/2025 09:06:41 AM
P2-R1-PP1-13	PASS	TIA Cat 6A Perm. Link	18.2 m	4.4 dB (NEXT)	04/14/2025 09:10:59 AM
P2-R1-PP1-14	PASS	TIA Cat 6A Perm. Link	21.7 m	3.6 dB (NEXT)	04/14/2025 10:02:34 AM
P2-R1-PP1-15	PASS	TIA Cat 6A Perm. Link	21.9 m	2.7 dB (NEXT)	04/14/2025 09:14:05 AM
P2-R1-PP1-16	PASS	TIA Cat 6A Perm. Link	24.5 m	2.2 dB (NEXT)	04/14/2025 10:05:56 AM
P2-R1-PP1-17	PASS	TIA Cat 6A Perm. Link	24.5 m	4.6 dB (NEXT)	04/14/2025 10:12:05 AM
P2-R1-PP1-18	PASS	TIA Cat 6A Perm. Link	24.5 m	4.3 dB (NEXT)	04/14/2025 10:21:25 AM
P2-R1-PP1-19	PASS	TIA Cat 6A Perm. Link	24.5 m	2.7 dB (NEXT)	04/14/2025 10:19:25 AM
P2-R1-PP1-20	PASS	TIA Cat 6A Perm. Link	24.7 m	3.5 dB (NEXT)	04/14/2025 10:26:09 AM
P2-R1-PP1-21	PASS	TIA Cat 6A Perm. Link	24.9 m	3.3 dB (NEXT)	04/14/2025 10:26:39 AM
P2-R1-PP1-22	PASS	TIA Cat 6A Perm. Link	24.7 m	5.6 dB (NEXT)	04/14/2025 10:31:13 AM
P2-R1-PP1-23	PASS	TIA Cat 6A Perm. Link	24.7 m	3.1 dB (NEXT)	04/14/2025 10:32:03 AM
P2-R1-PP1-25	PASS	TIA Cat 6A Perm. Link	27.0 m	4.3 dB (NEXT)	04/14/2025 10:34:16 AM
P2-R1-PP1-26	PASS	TIA Cat 6A Perm. Link	38.4 m	5.1 dB (NEXT)	04/14/2025 10:37:29 AM
P2-R1-PP1-27	PASS	TIA Cat 6A Perm. Link	38.4 m	5.1 dB (NEXT)	04/14/2025 10:46:30 AM
P2-R1-PP1-28	PASS	TIA Cat 6A Perm. Link	38.0 m	3.4 dB (NEXT)	04/14/2025 10:47:33 AM
P2-R1-PP1-29	PASS	TIA Cat 6A Perm. Link	38.0 m	5.3 dB (NEXT)	04/14/2025 10:48:55 AM
P2-R1-PP1-30	PASS	TIA Cat 6A Perm. Link	38.4 m	3.5 dB (NEXT)	04/14/2025 10:53:38 AM
P2-R1-PP1-31	PASS	TIA Cat 6A Perm. Link	38.4 m	5.1 dB (NEXT)	04/14/2025 10:54:31 AM
P2-R1-PP1-32	PASS	TIA Cat 6A Perm. Link	37.8 m	3.0 dB (NEXT)	04/14/2025 10:57:25 AM
P2-R1-PP1-33	PASS	TIA Cat 6A Perm. Link	38.0 m	4.0 dB (NEXT)	04/14/2025 12:05:38 PM
P2-R1-PP1-34	PASS	TIA Cat 6A Perm. Link	38.4 m	4.1 dB (NEXT)	04/14/2025 10:58:46 AM
P2-R1-PP1-35	PASS	TIA Cat 6A Perm. Link	38.4 m	3.6 dB (NEXT)	04/14/2025 10:59:24 AM
P2-R1-PP1-36	PASS	TIA Cat 6A Perm. Link	37.6 m	3.9 dB (NEXT)	04/14/2025 11:00:23 AM
P2-R1-PP1-37	PASS	TIA Cat 6A Perm. Link	37.6 m	4.0 dB (NEXT)	04/14/2025 11:01:04 AM
P2-R1-PP1-38	PASS	TIA Cat 6A Perm. Link	35.4 m	4.4 dB (NEXT)	04/14/2025 11:11:10 AM
P2-R1-PP1-39	PASS	TIA Cat 6A Perm. Link	35.4 m	5.9 dB (NEXT)	04/14/2025 11:12:19 AM
P2-R1-PP1-40	PASS	TIA Cat 6A Perm. Link	34.8 m	4.1 dB (NEXT)	04/14/2025 11:07:55 AM
P2-R1-PP1-41	PASS	TIA Cat 6A Perm. Link	35.0 m	4.4 dB (NEXT)	04/14/2025 11:08:29 AM
P2-R1-PP1-42	PASS	TIA Cat 6A Perm. Link	35.0 m	3.3 dB (NEXT)	04/14/2025 11:17:44 AM
P2-R1-PP1-43	PASS	TIA Cat 6A Perm. Link	35.4 m	2.6 dB (NEXT)	04/14/2025 11:16:33 AM
P2-R1-PP1-44	PASS	TIA Cat 6A Perm. Link	35.2 m	2.0 dB (NEXT)	04/14/2025 11:18:34 AM
P2-R1-PP1-45	PASS	TIA Cat 6A Perm. Link	35.2 m	4.6 dB (NEXT)	04/14/2025 11:19:52 AM
P2-R1-PP1-46	PASS	TIA Cat 6A Perm. Link	35.4 m	3.7 dB (NEXT)	04/14/2025 11:20:19 AM
P2-R1-PP1-47	PASS	TIA Cat 6A Perm. Link	35.2 m	5.2 dB (NEXT)	04/14/2025 11:34:43 AM
P2-R1-PP1-48	PASS	TIA Cat 6A Perm. Link	35.0 m	2.9 dB (NEXT)	04/14/2025 11:28:23 AM
P2-R1-PP1-P24	PASS	TIA Cat 6A Perm. Link	27.0 m	4.7 dB (NEXT)	04/14/2025 03:28:45 PM
P2-R1-PP2-49	PASS	TIA Cat 6A Perm. Link	34.8 m	4.2 dB (NEXT)	04/14/2025 11:27:39 AM
P2-R1-PP2-50	PASS	TIA Cat 6A Perm. Link	43.1 m	4.3 dB (NEXT)	04/14/2025 11:29:31 AM
P2-R1-PP2-51	PASS	TIA Cat 6A Perm. Link	43.1 m	5.3 dB (NEXT)	04/14/2025 11:30:43 AM
P2-R1-PP2-52	PASS	TIA Cat 6A Perm. Link	42.7 m	3.4 dB (NEXT)	04/14/2025 11:31:35 AM
P2-R1-PP2-53	PASS	TIA Cat 6A Perm. Link	42.7 m	4.6 dB (NEXT)	04/14/2025 11:32:12 AM
P2-R1-PP2-54	PASS	TIA Cat 6A Perm. Link	43.5 m	4.1 dB (NEXT)	04/14/2025 11:32:48 AM
P2-R1-PP2-55	PASS	TIA Cat 6A Perm. Link	43.3 m	5.4 dB (NEXT)	04/14/2025 11:33:22 AM
P2-R1-PP2-56	PASS	TIA Cat 6A Perm. Link	42.9 m	5.4 dB (NEXT)	04/14/2025 11:36:00 AM
P2-R1-PP2-57	PASS	TIA Cat 6A Perm. Link	43.1 m	4.0 dB (NEXT)	04/14/2025 11:36:55 AM
P2-R1-PP2-58	PASS	TIA Cat 6A Perm. Link	43.3 m	4.7 dB (NEXT)	04/14/2025 11:37:42 AM
P2-R1-PP2-59	PASS	TIA Cat 6A Perm. Link	43.3 m	4.3 dB (NEXT)	04/14/2025 11:38:01 AM

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
P2-R1-PP2-60	PASS	TIA Cat 6A Perm. Link	42.5 m	4.7 dB (NEXT)	04/14/2025 11:39:05 AM
P2-R1-PP2-61	PASS	TIA Cat 6A Perm. Link	42.5 m	5.8 dB (NEXT)	04/14/2025 11:39:36 AM
P2-R1-PP2-62	PASS	TIA Cat 6A Perm. Link	43.3 m	3.4 dB (NEXT)	04/14/2025 11:40:17 AM
P2-R1-PP2-63	PASS	TIA Cat 6A Perm. Link	44.2 m	2.0 dB (NEXT)	04/14/2025 11:40:51 AM
P2-R1-PP2-64	PASS	TIA Cat 6A Perm. Link	44.2 m	5.8 dB (NEXT)	04/14/2025 11:41:18 AM
P2-R1-PP2-65	PASS	TIA Cat 6A Perm. Link	44.2 m	5.1 dB (NEXT)	04/14/2025 11:43:28 AM
P2-R1-PP2-66	PASS	TIA Cat 6A Perm. Link	43.1 m	3.5 dB (NEXT)	04/14/2025 11:44:08 AM
P2-R1-PP2-67	PASS	TIA Cat 6A Perm. Link	43.1 m	5.7 dB (NEXT)	04/14/2025 11:44:28 AM
P2-R1-PP2-68	PASS	TIA Cat 6A Perm. Link	43.3 m	3.9 dB (NEXT)	04/14/2025 11:44:53 AM
P2-R1-PP2-69	PASS	TIA Cat 6A Perm. Link	43.3 m	2.6 dB (NEXT)	04/14/2025 11:45:17 AM
P2-R1-PP2-70	PASS	TIA Cat 6A Perm. Link	41.5 m	4.2 dB (NEXT)	04/14/2025 11:45:44 AM
P2-R1-PP2-71	PASS	TIA Cat 6A Perm. Link	41.5 m	4.2 dB (NEXT)	04/14/2025 11:46:20 AM
P2-R1-PP2-72	PASS	TIA Cat 6A Perm. Link	41.7 m	5.3 dB (NEXT)	04/14/2025 11:46:51 AM
P2-R1-PP2-73	PASS	TIA Cat 6A Perm. Link	41.3 m	3.6 dB (NEXT)	04/14/2025 11:47:49 AM
P2-R1-PP2-74	PASS	TIA Cat 6A Perm. Link	41.5 m	4.0 dB (NEXT)	04/14/2025 11:48:12 AM
P2-R1-PP2-75	PASS	TIA Cat 6A Perm. Link	41.5 m	4.9 dB (NEXT)	04/14/2025 11:49:37 AM
P2-R1-PP2-76	PASS	TIA Cat 6A Perm. Link	41.9 m	4.7 dB (NEXT)	04/14/2025 11:50:23 AM
P2-R1-PP2-77	PASS	TIA Cat 6A Perm. Link	41.7 m	3.0 dB (NEXT)	04/14/2025 11:50:50 AM
P2-R1-PP2-78	PASS	TIA Cat 6A Perm. Link	41.9 m	6.0 dB (NEXT)	04/14/2025 11:51:26 AM
P2-R1-PP2-79	PASS	TIA Cat 6A Perm. Link	41.9 m	4.5 dB (NEXT)	04/14/2025 11:52:07 AM
P2-R1-PP2-80	PASS	TIA Cat 6A Perm. Link	42.1 m	5.2 dB (NEXT)	04/14/2025 11:53:24 AM
P2-R1-PP2-81	PASS	TIA Cat 6A Perm. Link	42.1 m	2.0 dB (NEXT)	04/14/2025 11:58:03 AM
P2-R1-PP2-82	PASS	TIA Cat 6A Perm. Link	42.3 m	4.8 dB (NEXT)	04/14/2025 12:03:07 PM
P2-R1-PP2-83	PASS	TIA Cat 6A Perm. Link	42.3 m	4.8 dB (NEXT)	04/14/2025 12:03:57 PM
P2-R1-PP2-84	PASS	TIA Cat 6A Perm. Link	43.8 m	4.7 dB (NEXT)	04/14/2025 12:10:40 PM
P2-R1-PP2-85	PASS	TIA Cat 6A Perm. Link	43.8 m	4.6 dB (NEXT)	04/14/2025 12:07:13 PM
P2-R1-PP2-86	PASS	TIA Cat 6A Perm. Link	43.8 m	5.1 dB (NEXT)	04/14/2025 12:07:59 PM
P2-R1-PP2-87	PASS	TIA Cat 6A Perm. Link	44.0 m	5.8 dB (NEXT)	04/14/2025 12:08:18 PM
P2-R1-PP2-88	PASS	TIA Cat 6A Perm. Link	44.0 m	5.5 dB (NEXT)	04/14/2025 12:08:45 PM
P2-R1-PP2-89	PASS	TIA Cat 6A Perm. Link	44.0 m	4.0 dB (NEXT)	04/14/2025 12:09:30 PM
P2-R1-PP2-90	PASS	TIA Cat 6A Perm. Link	44.4 m	4.6 dB (NEXT)	04/14/2025 12:10:07 PM
P2-R1-PP2-91	PASS	TIA Cat 6A Perm. Link	44.4 m	5.1 dB (NEXT)	04/14/2025 12:23:32 PM
P2-R1-PP2-92	PASS	TIA Cat 6A Perm. Link	42.1 m	4.9 dB (NEXT)	04/14/2025 12:18:43 PM
P2-R1-PP2-93	PASS	TIA Cat 6A Perm. Link	42.1 m	4.6 dB (NEXT)	04/14/2025 12:19:32 PM
P2-R1-PP2-94	PASS	TIA Cat 6A Perm. Link	43.8 m	4.7 dB (NEXT)	04/14/2025 12:31:45 PM
P2-R1-PP2-95	PASS	TIA Cat 6A Perm. Link	43.8 m	4.1 dB (NEXT)	04/14/2025 12:33:15 PM
P2-R1-PP2-96	PASS	TIA Cat 6A Perm. Link	45.8 m	5.2 dB (NEXT)	04/14/2025 12:30:03 PM
P2-R1-PP3-100	PASS	TIA Cat 6A Perm. Link	33.3 m	3.9 dB (NEXT)	04/14/2025 12:34:15 PM
P2-R1-PP3-101	PASS	TIA Cat 6A Perm. Link	33.3 m	2.7 dB (NEXT)	04/14/2025 12:34:55 PM
P2-R1-PP3-102	PASS	TIA Cat 6A Perm. Link	33.3 m	5.7 dB (NEXT)	04/14/2025 12:35:39 PM
P2-R1-PP3-103	PASS	TIA Cat 6A Perm. Link	33.3 m	3.9 dB (NEXT)	04/14/2025 12:36:02 PM
P2-R1-PP3-104	PASS	TIA Cat 6A Perm. Link	33.3 m	3.7 dB (NEXT)	04/14/2025 12:36:26 PM
P2-R1-PP3-105	PASS	TIA Cat 6A Perm. Link	33.3 m	4.8 dB (NEXT)	04/14/2025 12:36:58 PM
P2-R1-PP3-106	PASS	TIA Cat 6A Perm. Link	17.6 m	2.7 dB (NEXT)	04/14/2025 09:26:24 AM
P2-R1-PP3-107	PASS	TIA Cat 6A Perm. Link	16.4 m	3.1 dB (NEXT)	04/14/2025 12:38:39 PM
P2-R1-PP3-108	PASS	TIA Cat 6A Perm. Link	13.3 m	3.6 dB (NEXT)	04/14/2025 12:40:36 PM
P2-R1-PP3-109	PASS	TIA Cat 6A Perm. Link	22.5 m	3.3 dB (NEXT)	04/14/2025 09:07:43 AM
P2-R1-PP3-110	PASS	TIA Cat 6A Perm. Link	34.1 m	5.1 dB (NEXT)	04/14/2025 12:44:45 PM
P2-R1-PP3-112	PASS	TIA Cat 6A Perm. Link	33.1 m	5.4 dB (NEXT)	04/14/2025 10:50:22 AM
P2-R1-PP3-113	PASS	TIA Cat 6A Perm. Link	40.5 m	4.4 dB (NEXT)	04/14/2025 12:47:00 PM
P2-R1-PP3-114	PASS	TIA Cat 6A Perm. Link	41.3 m	3.6 dB (NEXT)	04/14/2025 11:21:14 AM
P2-R1-PP3-115	PASS	TIA Cat 6A Perm. Link	33.9 m	3.9 dB (NEXT)	04/14/2025 11:13:02 AM
P2-R1-PP3-116	PASS	TIA Cat 6A Perm. Link	38.0 m	5.2 dB (NEXT)	04/14/2025 10:23:08 AM
P2-R1-PP3-97	PASS	TIA Cat 6A Perm. Link	45.6 m	4.7 dB (NEXT)	04/14/2025 12:28:41 PM
P2-R1-PP3-98	PASS	TIA Cat 6A Perm. Link	40.3 m	6.0 dB (NEXT)	04/14/2025 02:49:23 PM
P2-R1-PP3-99	PASS	TIA Cat 6A Perm. Link	40.3 m	6.7 dB (NEXT)	04/14/2025 03:07:57 PM
P2-R1-PP3-P111	PASS	TIA Cat 6A Perm. Link	29.0 m	4.8 dB (NEXT)	04/15/2025 10:57:16 AM

Total Length:	4016.0 m
No of Reports:	116
No of Passing Reports:	116
No of Failing Reports:	0
No of Warning Reports:	0
Documentation only:	0



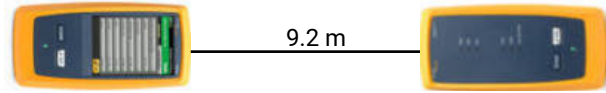
Cable ID: P2-R1-PP1-01

Test Summary: PASS

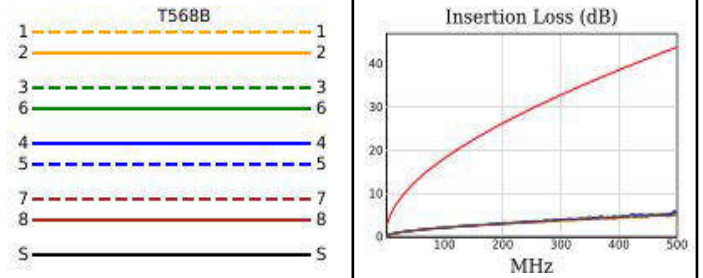
Date / Time: 04/14/2025 08:37:17 AM Operator: Capital Networks
 Headroom: 0.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	9.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	47
Delay Skew (ns), Limit 44	[Pair 3,6]	2
Resistance (ohms)	[Pair 1,2]	2.2
Insertion Loss Margin (dB)	[Pair 3,6]	37.6
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	0.7	0.8	5.9	4.0
Freq. (MHz)	104.5	51.5	489.0	469.0
Limit (dB)	41.5	46.5	27.0	27.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	2.5	2.6	7.1	4.9
Freq. (MHz)	104.5	51.8	500.0	469.0
Limit (dB)	39.0	44.0	23.8	24.7

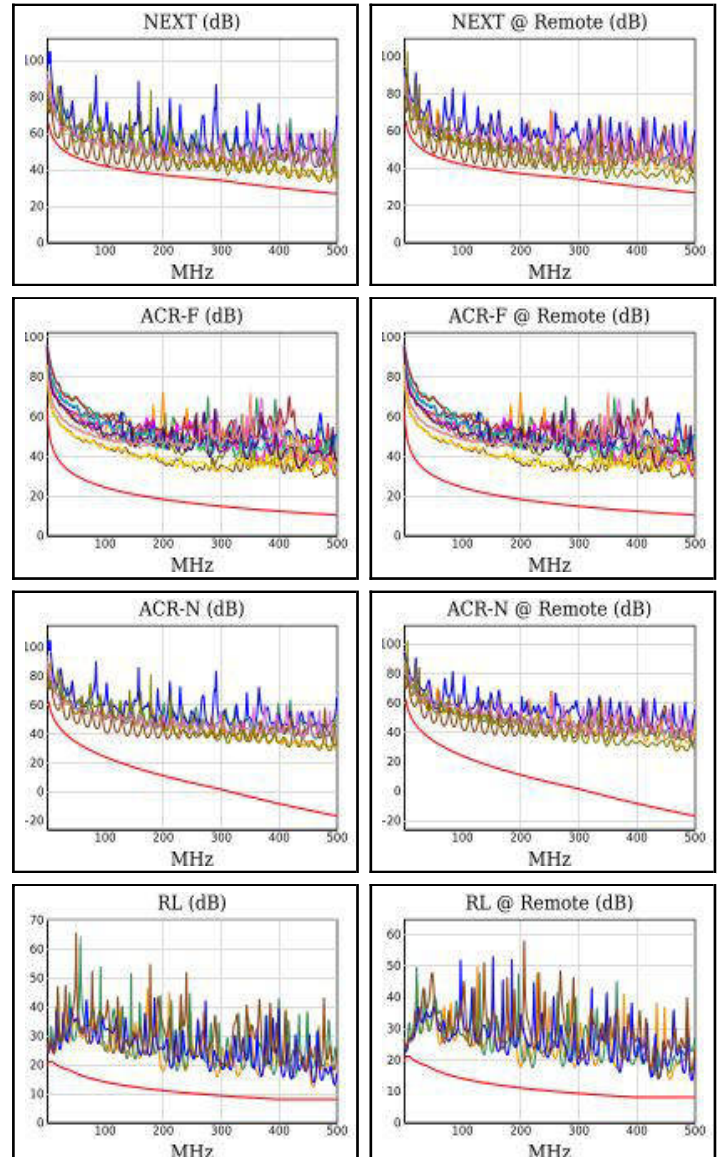
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.2	16.0	18.4	18.2
Freq. (MHz)	257.0	257.0	463.0	463.0
Limit (dB)	16.0	16.0	10.9	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	19.0	18.8	21.4	18.8
Freq. (MHz)	257.0	496.0	496.0	496.0
Limit (dB)	13.0	7.3	7.3	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	9.0	8.1	44.3	41.5
Freq. (MHz)	3.5	3.5	489.0	469.0
Limit (dB)	61.7	61.7	-16.2	-14.6
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	11.0	10.3	45.5	41.9
Freq. (MHz)	3.8	3.8	500.0	469.0
Limit (dB)	58.6	58.6	-20.0	-17.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	4.3	5.3	4.3	5.3
Freq. (MHz)	460.0	495.0	460.0	495.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





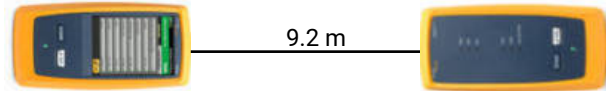
Cable ID: P2-R1-PP1-02

Test Summary: PASS

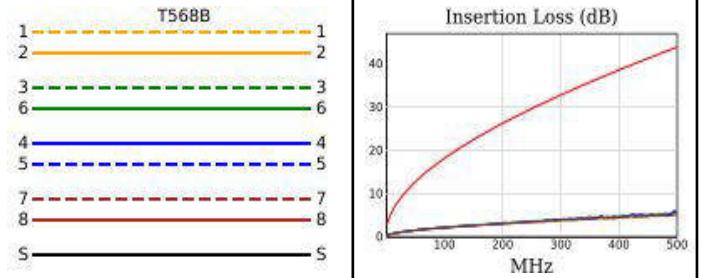
Date / Time: 04/14/2025 08:45:41 AM Operator: Capital Networks
 Headroom: 0.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	9.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	47
Delay Skew (ns), Limit 44	[Pair 3,6]	2
Resistance (ohms)	[Pair 1,2]	2.2
Insertion Loss Margin (dB)	[Pair 3,6]	37.6
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	0.6	0.7	5.8	4.0
Freq. (MHz)	104.5	51.8	488.0	469.0
Limit (dB)	41.5	46.5	27.0	27.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	2.4	2.4	6.8	4.9
Freq. (MHz)	104.5	52.0	489.0	469.0
Limit (dB)	39.0	44.0	24.1	24.7

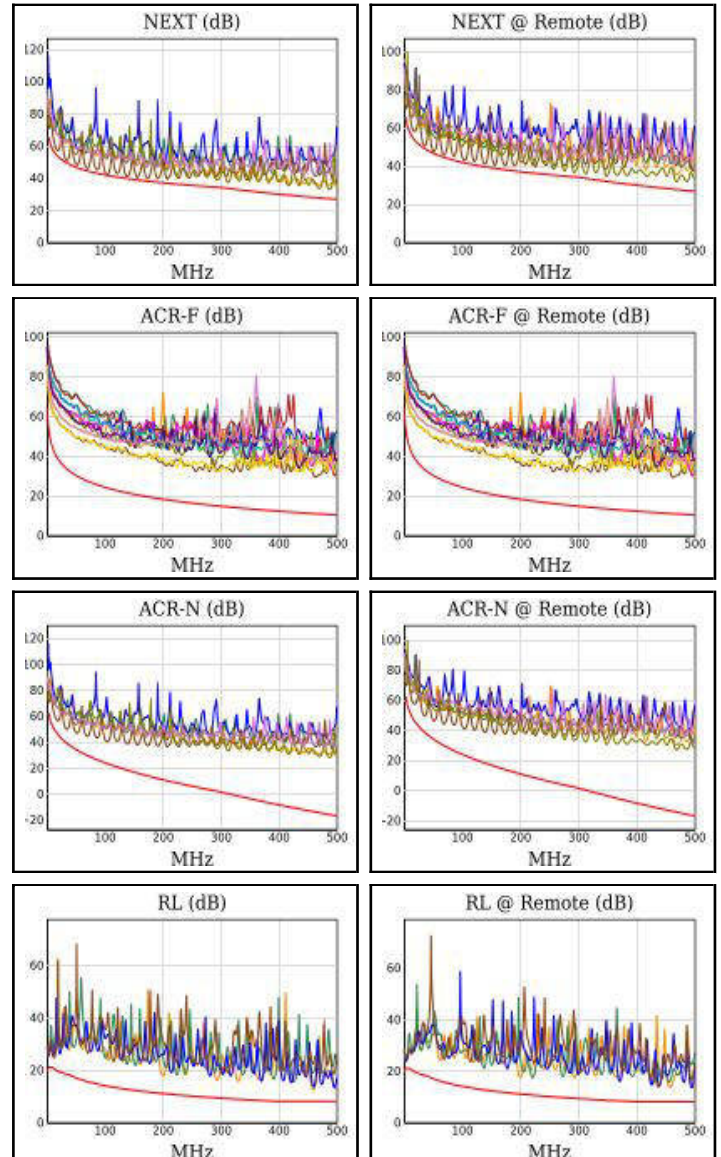
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.1	16.0	18.3	18.1
Freq. (MHz)	257.0	258.0	463.0	463.0
Limit (dB)	16.0	16.0	10.9	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	18.9	18.7	20.7	18.7
Freq. (MHz)	257.0	495.0	463.0	495.0
Limit (dB)	13.0	7.3	7.9	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	9.0	8.1	44.1	41.5
Freq. (MHz)	3.5	3.5	488.0	469.0
Limit (dB)	61.7	61.7	-16.1	-14.6
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	10.9	10.3	45.6	41.9
Freq. (MHz)	3.8	3.8	500.0	469.0
Limit (dB)	58.6	58.6	-20.0	-17.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	4.4	5.4	4.4	5.4
Freq. (MHz)	460.0	495.0	460.0	495.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





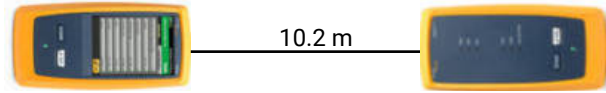
Cable ID: P2-R1-PP1-03

Test Summary: PASS

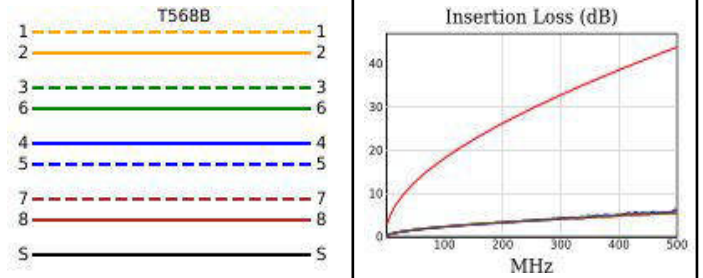
Date / Time: 04/14/2025 08:50:56 AM Operator: Capital Networks
 Headroom: 3.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	10.2
Prop. Delay (ns), Limit 498	[Pair 1,2]	53
Delay Skew (ns), Limit 44	[Pair 1,2]	3
Resistance (ohms)	[Pair 1,2]	2.4
Insertion Loss Margin (dB)	[Pair 4,5]	37.4
Frequency (MHz)	[Pair 4,5]	498.0
Limit (dB)	[Pair 4,5]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.3	3.3	6.6	4.5
Freq. (MHz)	93.3	47.0	448.0	478.0
Limit (dB)	42.3	47.1	28.2	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.5	4.0	7.7	5.9
Freq. (MHz)	30.9	45.8	477.0	478.0
Limit (dB)	47.6	44.9	24.5	24.4

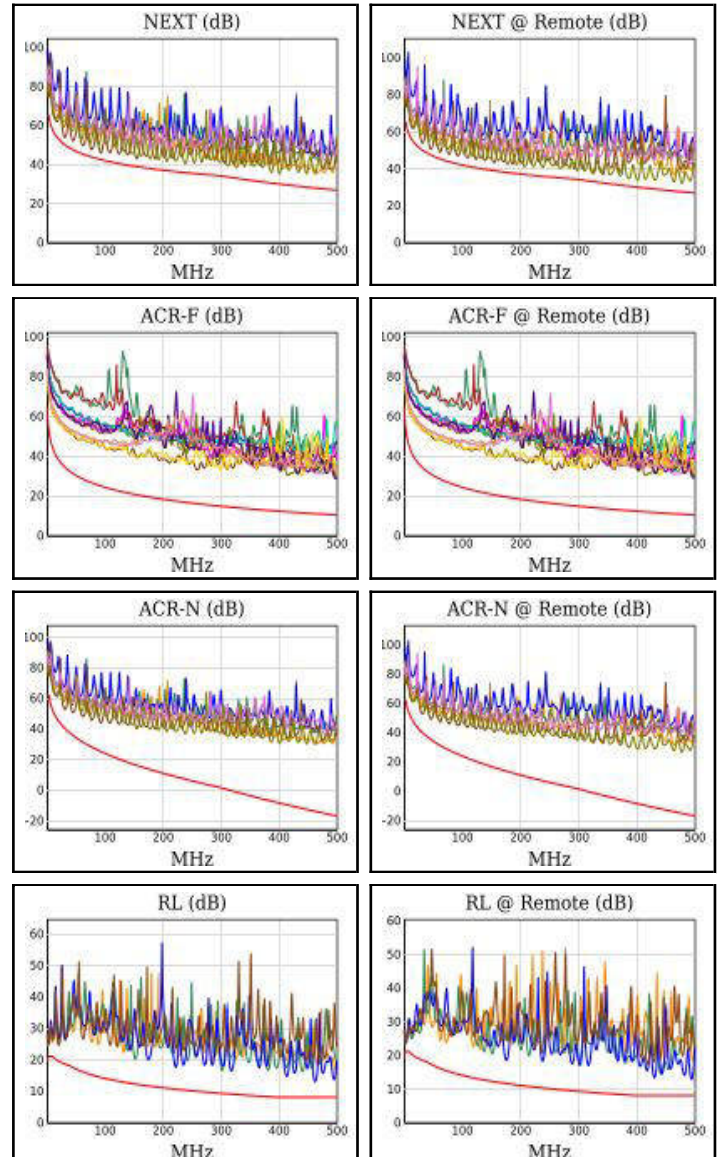
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	7,8-3,6	3,6-7,8
ACR-F (dB)	16.9	16.8	18.3	18.6
Freq. (MHz)	260.0	260.0	498.0	498.0
Limit (dB)	15.9	15.9	10.2	10.2
Worst Pair	4,5	4,5	3,6	3,6
PS ACR-F (dB)	18.6	18.2	19.1	20.3
Freq. (MHz)	2.8	1.5	499.0	498.0
Limit (dB)	52.4	57.7	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	12.0	11.1	43.8	41.7
Freq. (MHz)	3.0	3.3	463.0	478.0
Limit (dB)	61.9	61.8	-14.1	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	12.6	12.0	44.9	43.1
Freq. (MHz)	3.0	14.6	477.0	478.0
Limit (dB)	58.9	46.2	-18.1	-18.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	4.9	4.7	4.9	4.7
Freq. (MHz)	463.0	495.0	463.0	495.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





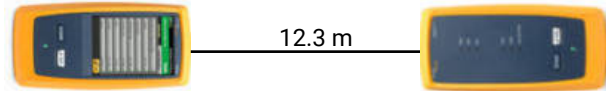
Cable ID: P2-R1-PP1-04

Test Summary: PASS

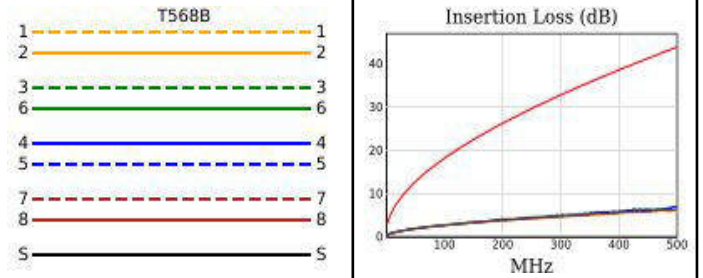
Date / Time: 04/14/2025 08:52:49 AM Operator: Capital Networks
 Headroom: 3.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	12.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	64
Delay Skew (ns), Limit 44	[Pair 3,6]	4
Resistance (ohms)	[Pair 1,2]	2.6
Insertion Loss Margin (dB)	[Pair 3,6]	36.6
Frequency (MHz)	[Pair 3,6]	495.0
Limit (dB)	[Pair 3,6]	43.5



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
NEXT (dB)	4.3	3.8	5.4	6.8
Freq. (MHz)	55.3	78.0	485.0	484.0
Limit (dB)	46.0	43.6	27.1	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.8	4.8	5.9	7.2
Freq. (MHz)	404.0	201.0	472.0	483.0
Limit (dB)	26.9	34.3	24.6	24.3

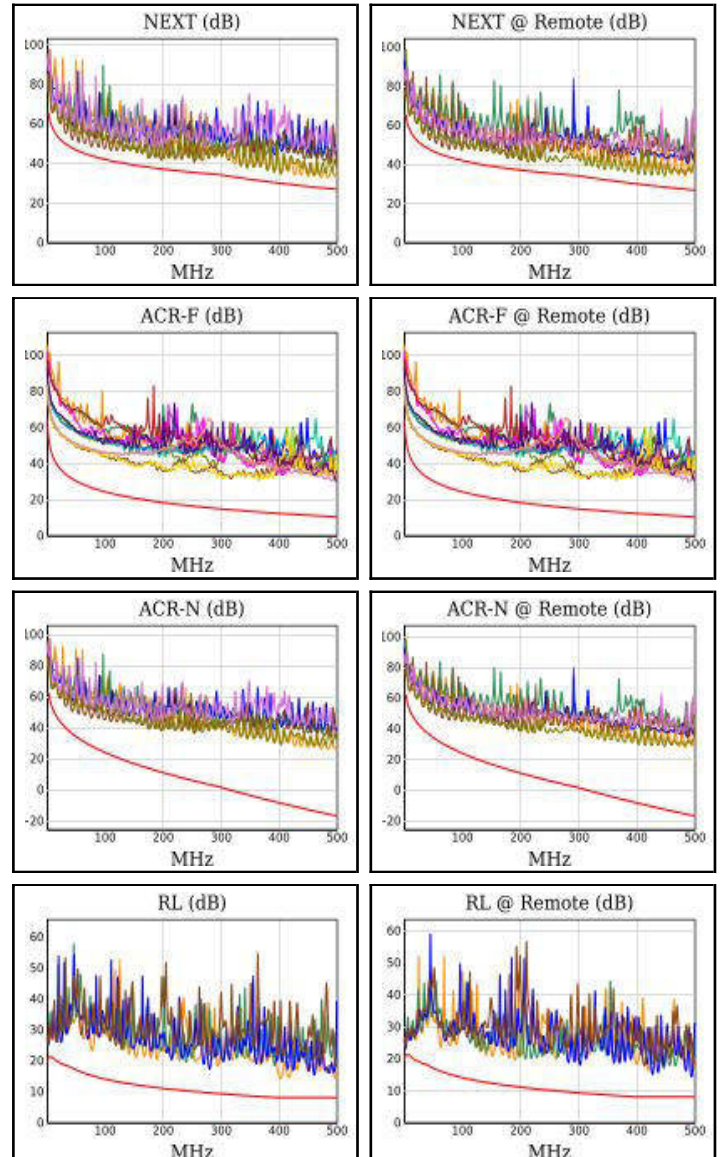
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	7,8-3,6	7,8-4,5
ACR-F (dB)	16.8	17.1	19.7	19.2
Freq. (MHz)	304.0	318.0	500.0	491.0
Limit (dB)	14.5	14.1	10.2	10.4
Worst Pair	4,5	4,5	3,6	4,5
PS ACR-F (dB)	18.5	18.4	19.9	20.8
Freq. (MHz)	2.6	1.5	500.0	494.0
Limit (dB)	52.8	57.7	7.2	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	11.8	11.6	41.8	43.2
Freq. (MHz)	8.9	9.1	485.0	484.0
Limit (dB)	53.4	53.2	-15.9	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	12.2	11.7	41.9	43.6
Freq. (MHz)	9.4	9.5	472.0	483.0
Limit (dB)	50.6	50.5	-17.7	-18.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	6.2	6.1	6.2	6.1
Freq. (MHz)	404.0	495.0	404.0	495.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





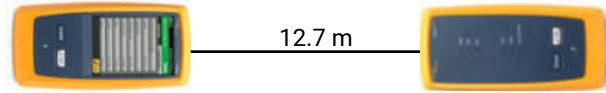
Cable ID: P2-R1-PP1-05

Test Summary: PASS

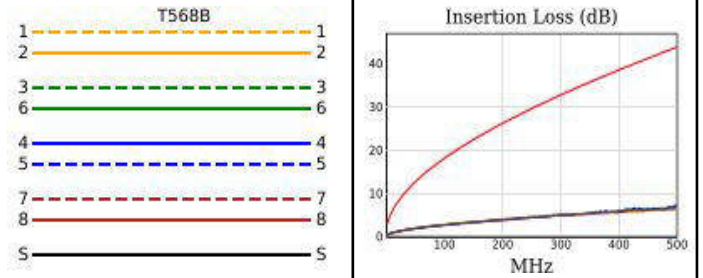
Date / Time: 04/14/2025 09:00:49 AM Operator: Capital Networks
 Headroom: 3.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	12.7
Prop. Delay (ns), Limit 498	[Pair 1,2]	67
Delay Skew (ns), Limit 44	[Pair 1,2]	5
Resistance (ohms)	[Pair 1,2]	2.8
Insertion Loss Margin (dB)	[Pair 3,6]	36.4
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5

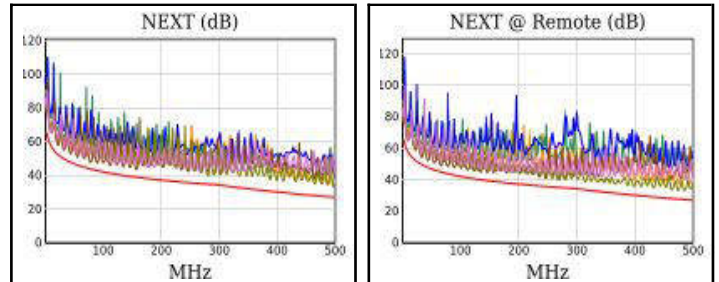


PASS

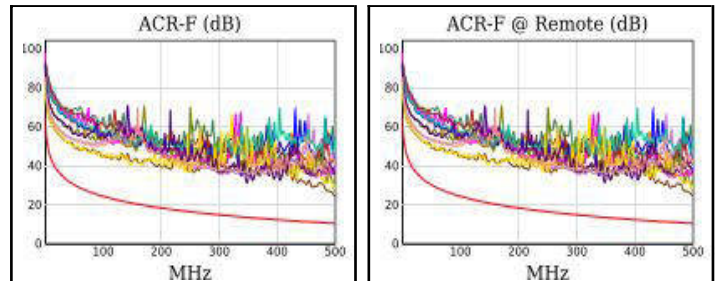


Worst Case Margin Worst Case Value

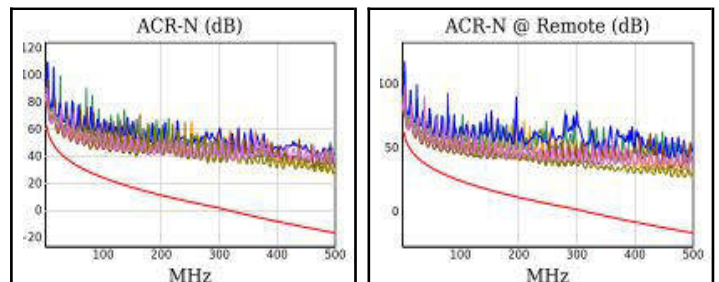
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.7	3.9	6.0	5.6
Freq. (MHz)	78.5	67.0	498.0	486.0
Limit (dB)	43.5	44.7	26.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.7	4.2	5.8	7.0
Freq. (MHz)	78.3	270.0	499.0	476.0
Limit (dB)	41.1	32.1	23.8	24.5



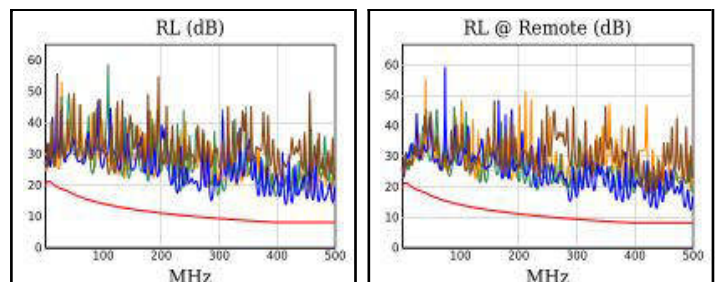
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.3	14.4	14.3	14.4
Freq. (MHz)	499.0	500.0	499.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.2	16.3	17.2	16.3
Freq. (MHz)	499.0	499.0	499.0	499.0
Limit (dB)	7.2	7.2	7.2	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	12.5	11.6	43.3	42.3
Freq. (MHz)	10.1	9.1	499.0	486.0
Limit (dB)	52.2	53.2	-17.0	-16.0
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	11.7	11.4	42.5	43.7
Freq. (MHz)	10.1	10.0	499.0	486.0
Limit (dB)	49.8	50.0	-19.9	-18.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	5.5	4.2	5.6	4.2
Freq. (MHz)	288.0	497.0	416.0	497.0
Limit (dB)	9.4	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



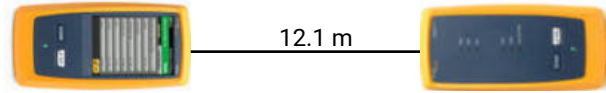
Cable ID: P2-R1-PP1-06

Test Summary: PASS

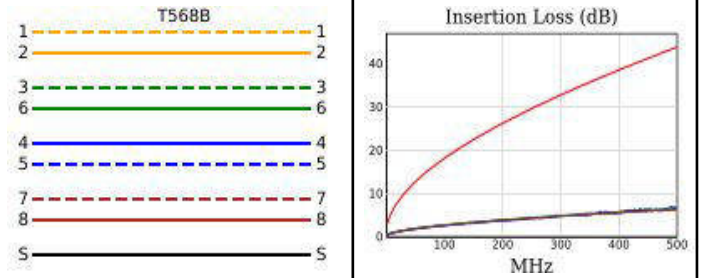
Date / Time: 04/14/2025 09:01:47 AM Operator: Capital Networks
 Headroom: 0.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	12.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	64
Delay Skew (ns), Limit 44	[Pair 1,2]	5
Resistance (ohms)	[Pair 1,2]	2.7
Insertion Loss Margin (dB)	[Pair 3,6]	36.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

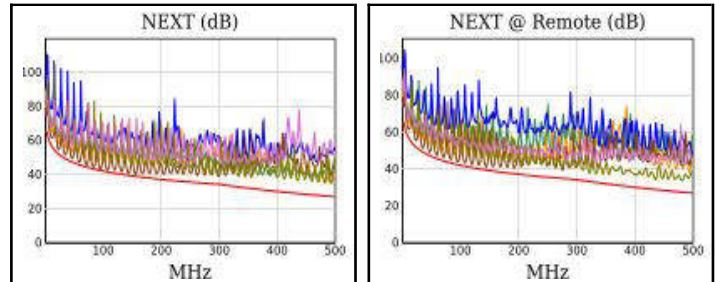


PASS

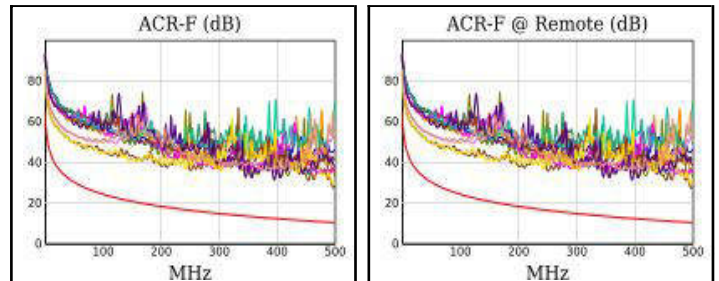


Worst Case Margin Worst Case Value

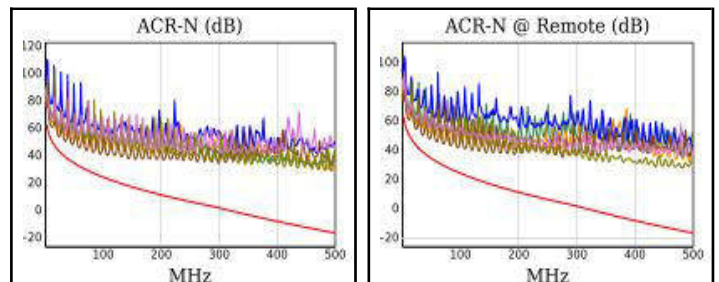
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	0.8	1.5	7.8	6.4
Freq. (MHz)	95.5	60.3	493.0	482.0
Limit (dB)	42.2	45.4	26.9	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	2.5	2.7	7.5	8.6
Freq. (MHz)	59.0	47.0	494.0	494.0
Limit (dB)	43.1	44.7	23.9	23.9



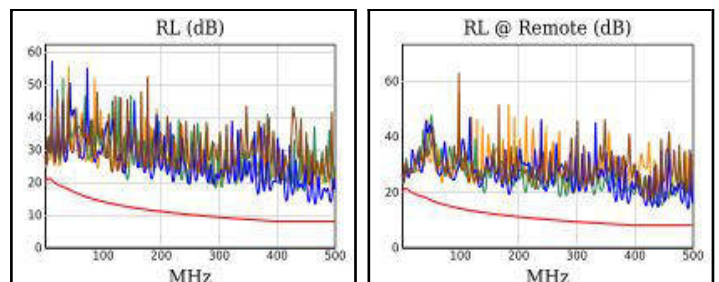
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	17.0	16.8	17.0	16.9
Freq. (MHz)	497.0	497.0	497.0	498.0
Limit (dB)	10.3	10.3	10.3	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	18.9	18.7	19.8	18.7
Freq. (MHz)	1.4	499.0	497.0	499.0
Limit (dB)	58.4	7.2	7.3	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.6	9.5	45.1	43.1
Freq. (MHz)	10.4	10.9	495.0	482.0
Limit (dB)	52.0	51.5	-16.7	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.5	44.3	45.4
Freq. (MHz)	11.0	10.5	494.0	494.0
Limit (dB)	49.0	49.5	-19.5	-19.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	5.2	5.7	5.2	5.7
Freq. (MHz)	466.0	492.0	466.0	492.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



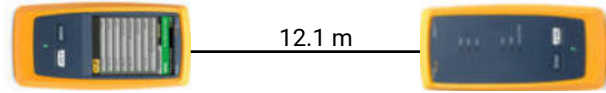
Cable ID: P2-R1-PP1-07

Test Summary: PASS

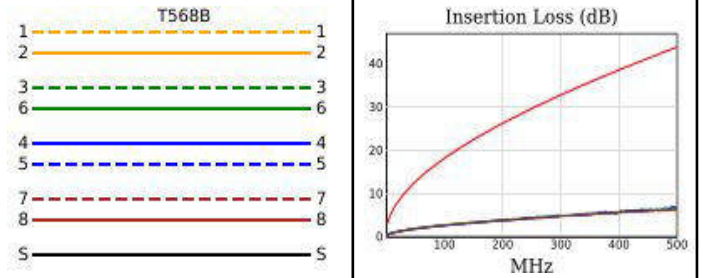
Date / Time: 04/14/2025 09:03:04 AM Operator: Capital Networks
 Headroom: 1.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	12.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	63
Delay Skew (ns), Limit 44	[Pair 1,2]	4
Resistance (ohms)	[Pair 1,2]	2.7
Insertion Loss Margin (dB)	[Pair 3,6]	36.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	1.2	1.7	8.3	7.3
Freq. (MHz)	96.3	121.0	495.0	485.0
Limit (dB)	42.1	40.5	26.8	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	1.3	1.1	7.3	7.5
Freq. (MHz)	47.0	47.0	495.0	495.0
Limit (dB)	44.7	44.7	23.9	23.9

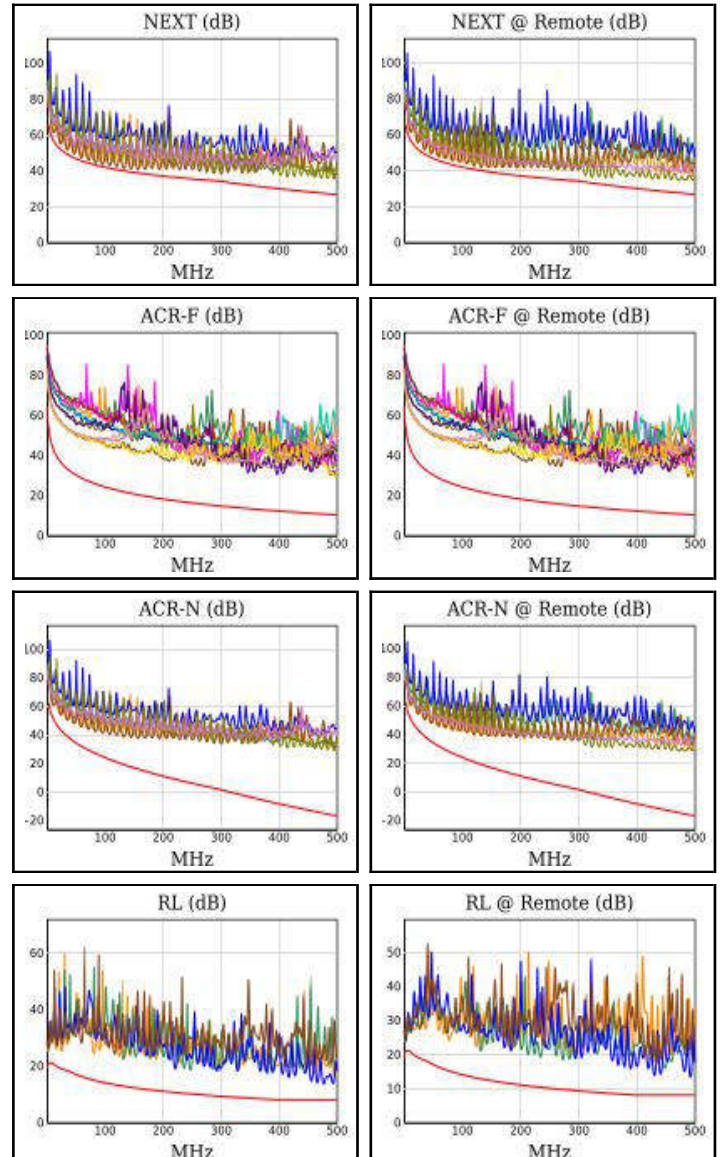
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	4,5-3,6	3,6-4,5
ACR-F (dB)	17.7	18.0	18.7	18.8
Freq. (MHz)	347.0	347.0	498.0	497.0
Limit (dB)	13.4	13.4	10.2	10.3
Worst Pair	4,5	4,5	3,6	3,6
PS ACR-F (dB)	18.3	18.1	20.7	20.8
Freq. (MHz)	1.5	1.4	498.0	500.0
Limit (dB)	57.7	58.4	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
ACR-N (dB)	9.5	9.2	45.6	44.1
Freq. (MHz)	10.4	11.1	495.0	485.0
Limit (dB)	52.0	51.3	-16.7	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.2	44.2	44.4
Freq. (MHz)	11.0	11.1	495.0	495.0
Limit (dB)	49.0	48.9	-19.6	-19.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	5.6	5.1	5.6	5.1
Freq. (MHz)	478.0	493.0	478.0	493.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





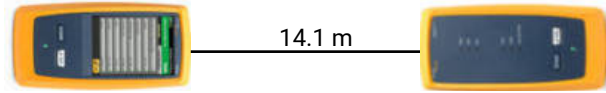
Cable ID: P2-R1-PP1-08

Test Summary: PASS

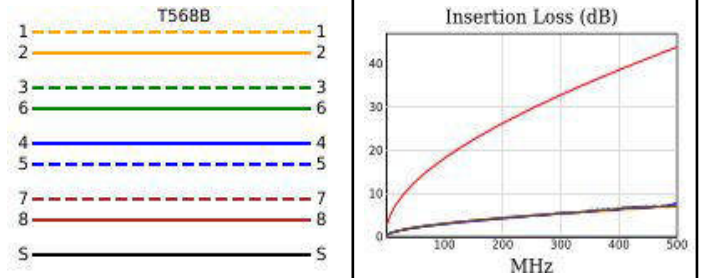
Date / Time: 04/14/2025 09:03:29 AM Operator: Capital Networks
 Headroom: 3.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	14.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	75
Delay Skew (ns), Limit 44	[Pair 1,2]	6
Resistance (ohms)	[Pair 1,2]	3.0
Insertion Loss Margin (dB)	[Pair 4,5]	36.2
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8

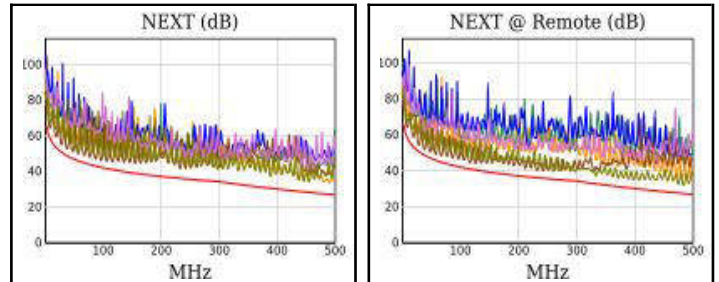


PASS

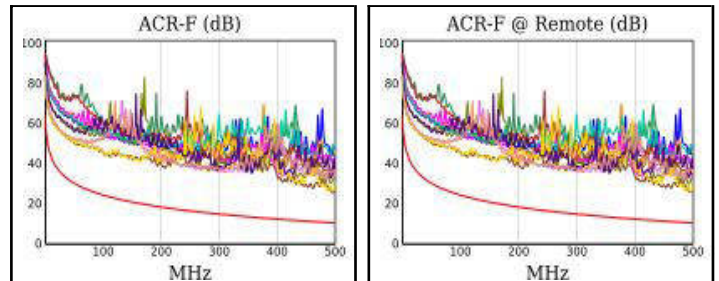


Worst Case Margin Worst Case Value

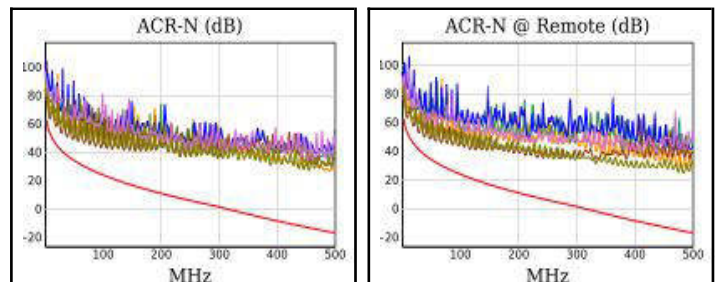
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.8	3.2	6.4	4.4
Freq. (MHz)	97.0	58.5	491.0	484.0
Limit (dB)	42.1	45.6	26.9	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.2	3.9	6.0	6.1
Freq. (MHz)	57.0	57.0	447.0	484.0
Limit (dB)	43.3	43.3	25.4	24.2



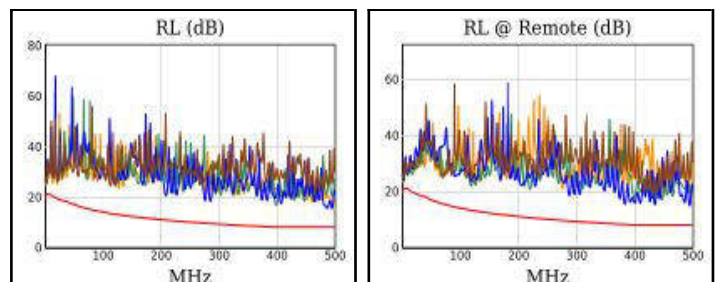
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.9	15.2	14.9	15.2
Freq. (MHz)	496.0	496.0	496.0	496.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.5	16.8	17.5	16.8
Freq. (MHz)	496.0	495.0	496.0	495.0
Limit (dB)	7.3	7.3	7.3	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.8	9.8	42.5	40.3
Freq. (MHz)	8.1	8.4	491.0	484.0
Limit (dB)	54.3	54.0	-16.4	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.1	9.7	40.0	41.8
Freq. (MHz)	8.9	8.6	447.0	484.0
Limit (dB)	51.1	51.4	-15.6	-18.7



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	7.3	6.7	7.3	6.7
Freq. (MHz)	495.0	495.0	495.0	495.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



Cable ID: P2-R1-PP1-09

Date / Time: 04/14/2025 09:04:30 AM Operator: Capital Networks
 Headroom: 3.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	14.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	75
Delay Skew (ns), Limit 44	[Pair 1,2]	6
Resistance (ohms)	[Pair 1,2]	3.0
Insertion Loss Margin (dB)	[Pair 4,5]	36.0
Frequency (MHz)	[Pair 4,5]	499.0
Limit (dB)	[Pair 4,5]	43.7

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.1	3.5	5.4	3.5
Freq. (MHz)	58.0	476.0	500.0	476.0
Limit (dB)	45.7	27.4	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.6	3.8	7.4	6.1
Freq. (MHz)	243.5	38.5	500.0	476.0
Limit (dB)	32.9	46.1	23.8	24.5

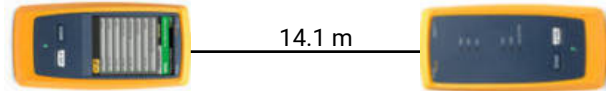
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-F (dB)	14.5	14.5	14.5	14.5
Freq. (MHz)	497.0	497.0	497.0	497.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	17.1	16.8	17.1	16.8
Freq. (MHz)	497.0	497.0	497.0	497.0
Limit (dB)	7.3	7.3	7.3	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	10.4	10.9	41.9	39.2
Freq. (MHz)	7.8	8.4	500.0	476.0
Limit (dB)	54.7	54.0	-17.1	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.3	9.7	43.9	41.6
Freq. (MHz)	8.0	8.4	500.0	476.0
Limit (dB)	52.1	51.7	-20.0	-18.0

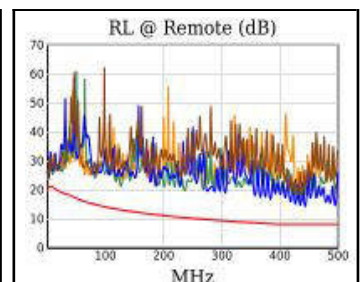
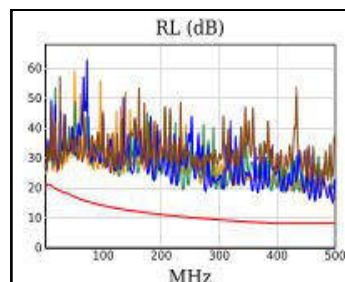
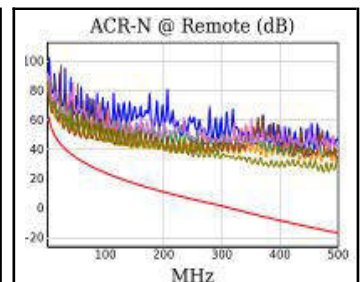
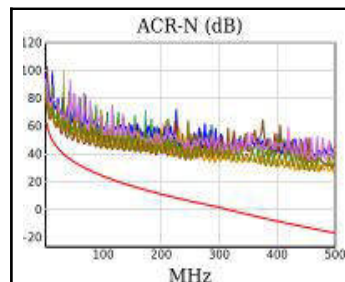
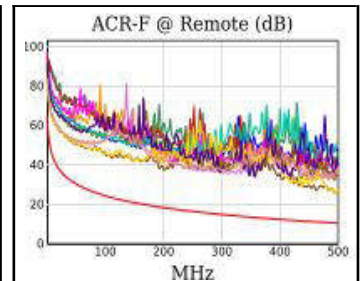
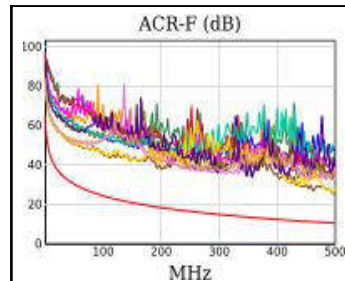
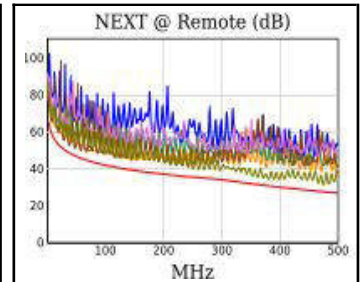
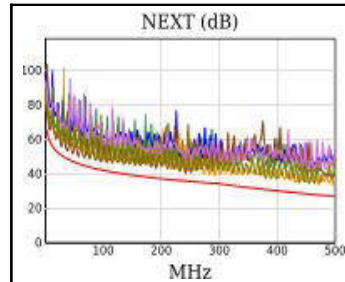
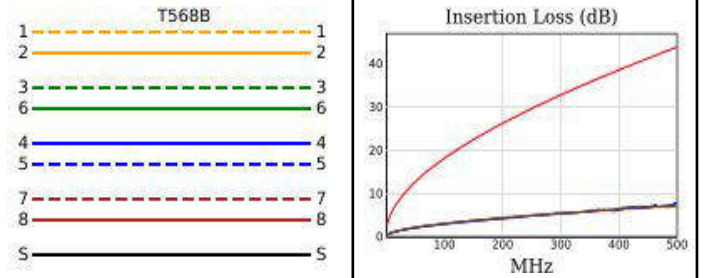
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.9	6.0	6.9	6.0
Freq. (MHz)	497.0	444.0	497.0	444.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS





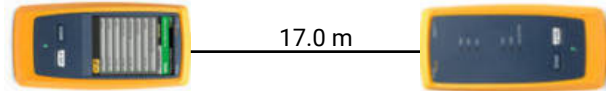
Cable ID: P2-R1-PP1-10

Test Summary: PASS

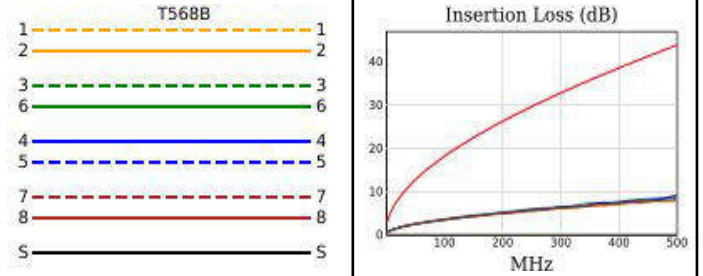
Date / Time: 04/14/2025 09:04:58 AM Operator: Capital Networks
 Headroom: 2.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	17.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	89
Delay Skew (ns), Limit 44	[Pair 3,6]	6
Resistance (ohms)	[Pair 4,5]	3.4
Insertion Loss Margin (dB)	[Pair 3,6]	34.6
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	2.8	3.0	8.3	5.4
Freq. (MHz)	149.5	268.0	497.0	479.0
Limit (dB)	39.0	34.8	26.7	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.3	4.0	8.9	7.6
Freq. (MHz)	50.5	50.5	496.0	480.0
Limit (dB)	44.2	44.2	23.9	24.4

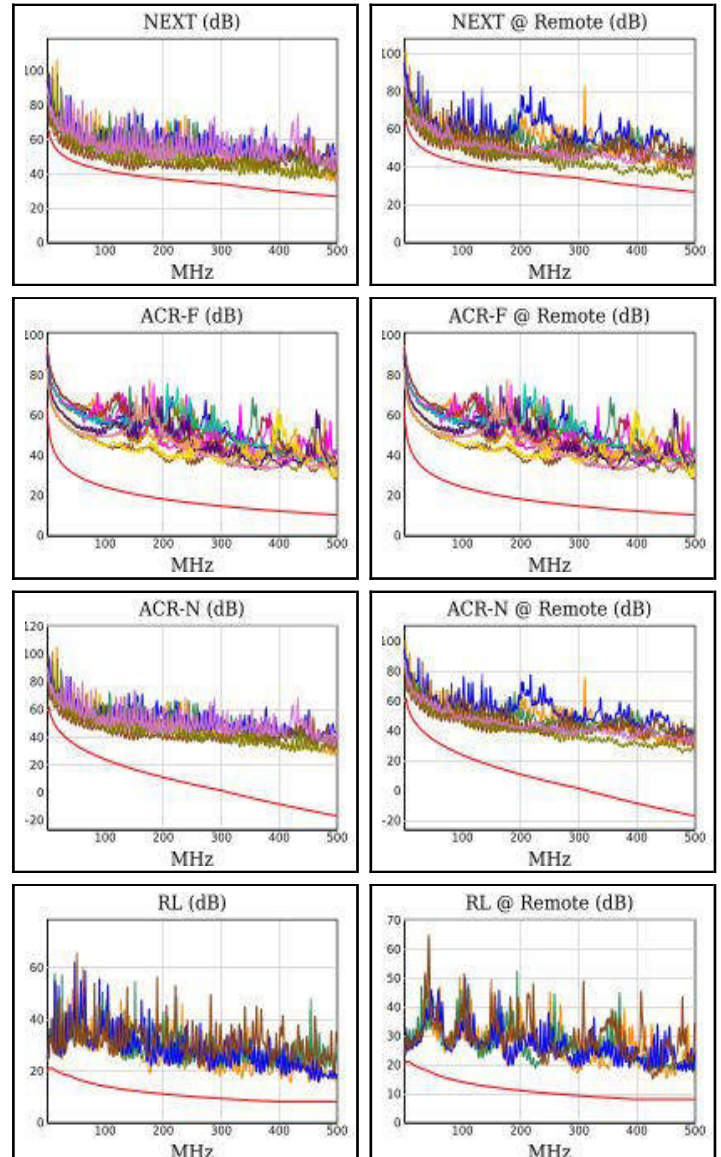
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	17.5	17.5	17.5	17.5
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	4,5	3,6	3,6
PS ACR-F (dB)	18.9	19.2	19.6	19.6
Freq. (MHz)	1.0	1.6	500.0	500.0
Limit (dB)	61.2	57.0	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.6	9.0	43.1	40.2
Freq. (MHz)	5.8	6.3	497.0	479.0
Limit (dB)	57.4	56.7	-16.9	-15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.6	8.8	43.6	41.8
Freq. (MHz)	5.8	6.5	496.0	480.0
Limit (dB)	55.1	54.0	-19.7	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	7.3	6.8	7.3	6.8
Freq. (MHz)	420.0	428.0	420.0	428.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





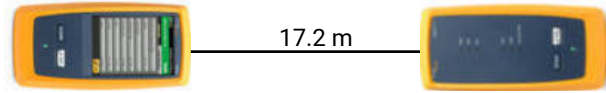
Cable ID: P2-R1-PP1-11

Test Summary: PASS

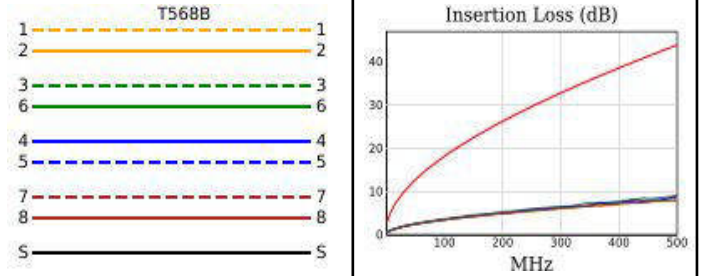
Date / Time: 04/14/2025 09:06:07 AM Operator: Capital Networks
 Headroom: 3.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	17.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	89
Delay Skew (ns), Limit 44	[Pair 3,6]	5
Resistance (ohms)	[Pair 1,2]	3.3
Insertion Loss Margin (dB)	[Pair 3,6]	34.7
Frequency (MHz)	[Pair 3,6]	497.0
Limit (dB)	[Pair 3,6]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	3.1	3.4	6.9	5.8
Freq. (MHz)	142.5	269.0	464.0	480.0
Limit (dB)	39.3	34.8	27.7	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.8	4.5	9.2	7.1
Freq. (MHz)	35.8	35.8	496.0	480.0
Limit (dB)	46.6	46.6	23.9	24.4

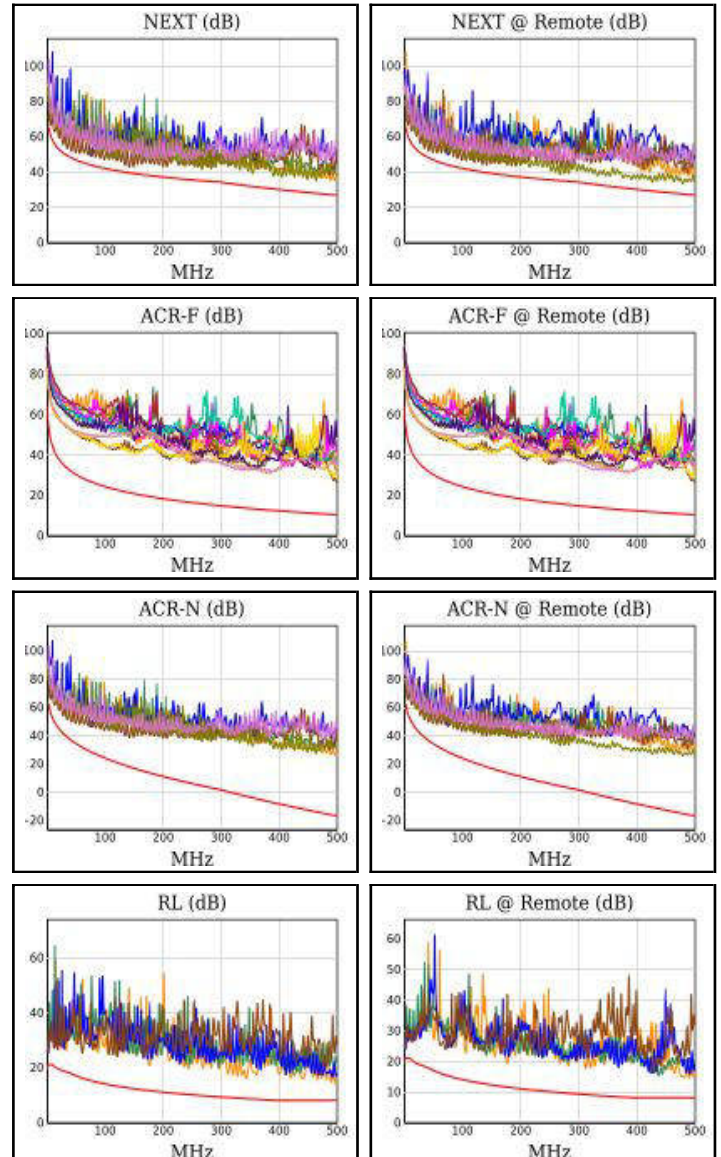
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.9	16.0	15.9	16.0
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	18.4	18.5	18.8	18.5
Freq. (MHz)	1.0	500.0	500.0	500.0
Limit (dB)	61.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.9	9.0	43.0	40.7
Freq. (MHz)	6.1	6.3	497.0	480.0
Limit (dB)	56.8	56.7	-16.9	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.6	43.9	41.3
Freq. (MHz)	6.1	6.5	496.0	480.0
Limit (dB)	54.5	54.0	-19.7	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	5.7	6.3	5.7	6.3
Freq. (MHz)	499.0	491.0	499.0	491.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





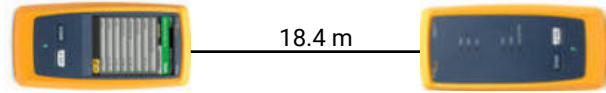
Cable ID: P2-R1-PP1-12

Test Summary: PASS

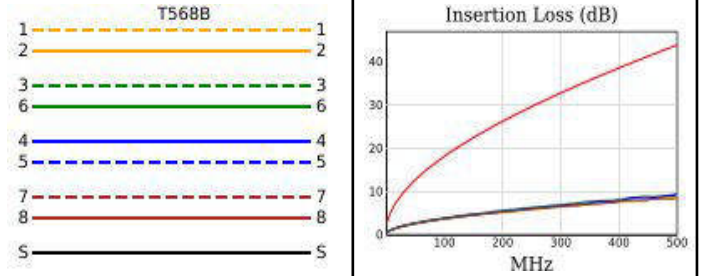
Date / Time: 04/14/2025 09:06:41 AM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	18.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	96
Delay Skew (ns), Limit 44	[Pair 3,6]	6
Resistance (ohms)	[Pair 4,5]	3.6
Insertion Loss Margin (dB)	[Pair 3,6]	34.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.4	4.0	8.2	5.2
Freq. (MHz)	155.5	136.0	490.0	475.0
Limit (dB)	38.7	39.7	26.9	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.0	4.9	8.1	8.2
Freq. (MHz)	45.8	130.0	496.0	488.0
Limit (dB)	44.9	37.4	23.9	24.1

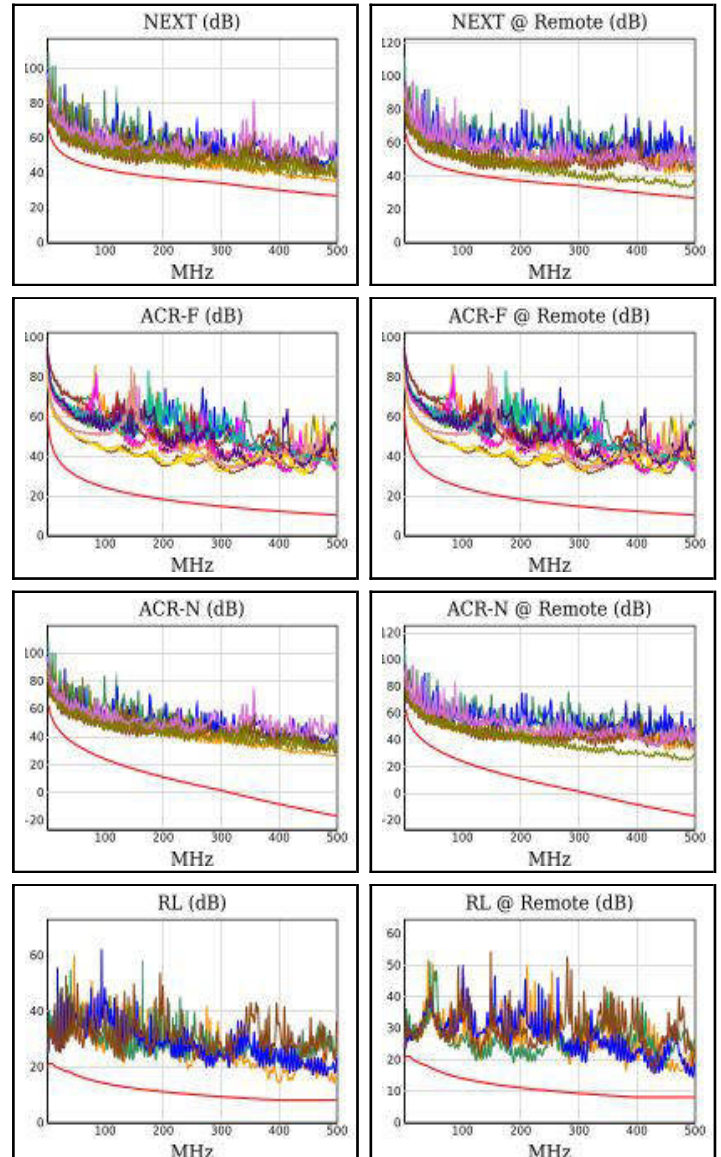
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	16.7	16.5	19.0	16.5
Freq. (MHz)	317.0	317.0	443.0	317.0
Limit (dB)	14.2	14.2	11.3	14.2
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	18.0	18.3	20.7	18.8
Freq. (MHz)	317.0	317.0	443.0	413.0
Limit (dB)	11.2	11.2	8.3	8.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	10.2	9.4	42.8	39.4
Freq. (MHz)	5.4	5.4	496.0	475.0
Limit (dB)	58.0	58.0	-16.8	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.3	9.6	42.5	42.2
Freq. (MHz)	5.4	5.6	496.0	488.0
Limit (dB)	55.7	55.3	-19.7	-19.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	5.9	6.1	5.9	6.1
Freq. (MHz)	495.0	497.0	495.0	497.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





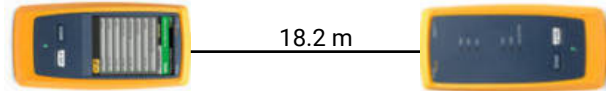
Cable ID: P2-R1-PP1-13

Test Summary: PASS

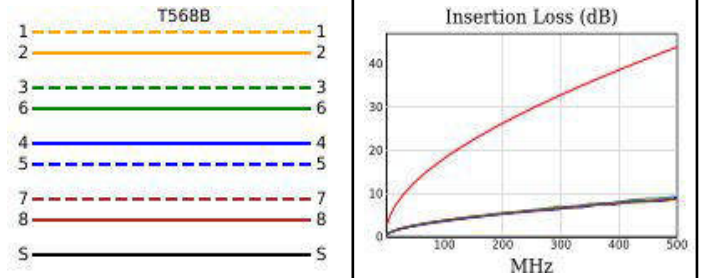
Date / Time: 04/14/2025 09:10:59 AM Operator: Capital Networks
 Headroom: 4.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	18.2
Prop. Delay (ns), Limit 498	[Pair 1,2]	96
Delay Skew (ns), Limit 44	[Pair 1,2]	7
Resistance (ohms)	[Pair 1,2]	3.7
Insertion Loss Margin (dB)	[Pair 3,6]	34.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

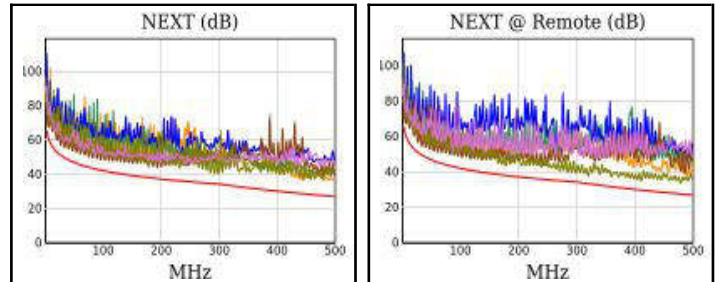


PASS

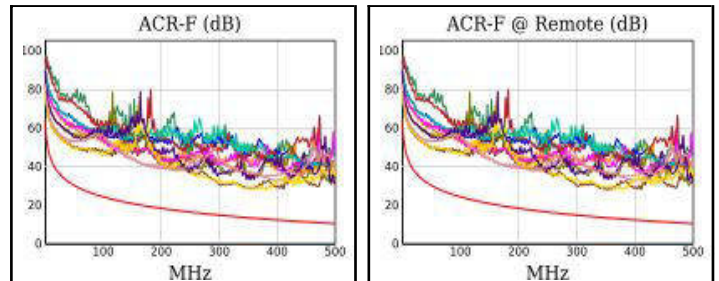


Worst Case Margin Worst Case Value

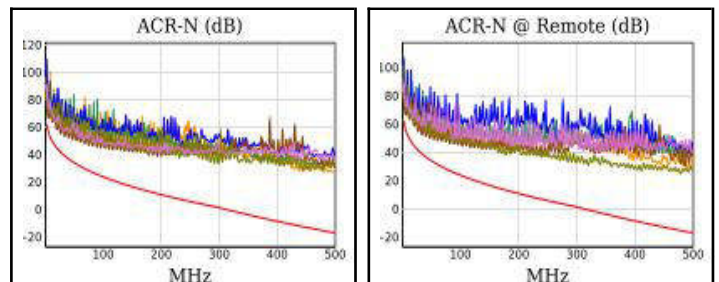
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.8	4.4	8.7	5.9
Freq. (MHz)	300.0	320.0	481.0	479.0
Limit (dB)	34.0	33.1	27.2	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.2	6.0	7.9	7.8
Freq. (MHz)	179.5	34.0	480.0	479.0
Limit (dB)	35.1	47.0	24.4	24.4



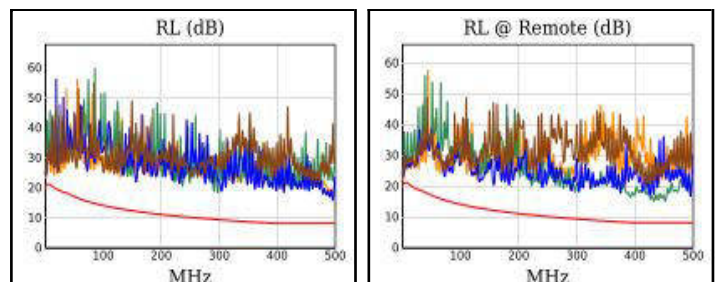
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.9	14.5	15.3	14.5
Freq. (MHz)	345.0	354.0	384.0	354.0
Limit (dB)	13.4	13.2	12.5	13.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.9	16.3	17.1	16.3
Freq. (MHz)	360.0	354.0	366.0	354.0
Limit (dB)	10.1	10.2	9.9	10.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.6	9.6	43.9	40.1
Freq. (MHz)	6.0	6.0	500.0	479.0
Limit (dB)	57.0	57.0	-17.1	-15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.9	41.8	41.6
Freq. (MHz)	5.8	6.0	480.0	479.0
Limit (dB)	55.1	54.7	-18.4	-18.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	3,6	4,5	3,6
RL (dB)	7.4	6.9	7.4	6.9
Freq. (MHz)	497.0	453.0	497.0	453.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



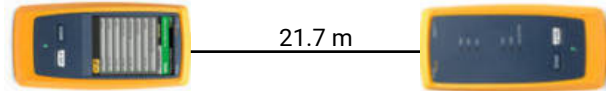
Cable ID: P2-R1-PP1-14

Test Summary: PASS

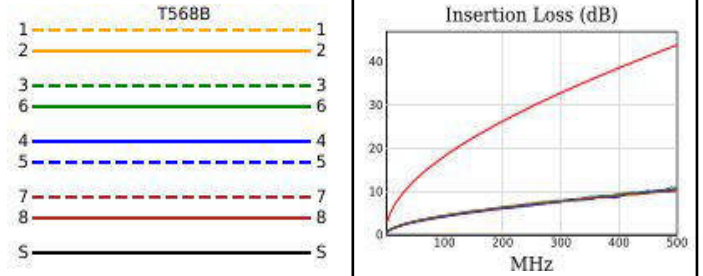
Date / Time: 04/14/2025 10:02:34 AM Operator: Capital Networks
 Headroom: 3.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	21.7
Prop. Delay (ns), Limit 498	[Pair 1,2]	115
Delay Skew (ns), Limit 44	[Pair 1,2]	9
Resistance (ohms)	[Pair 1,2]	4.3
Insertion Loss Margin (dB)	[Pair 3,6]	32.7
Frequency (MHz)	[Pair 3,6]	497.0
Limit (dB)	[Pair 3,6]	43.6

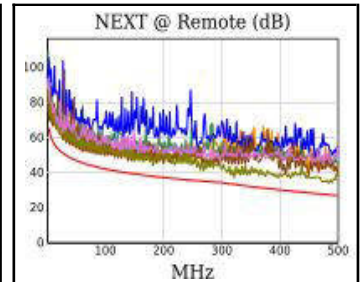
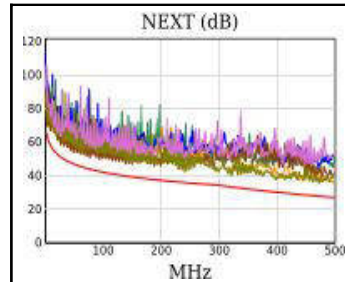


PASS

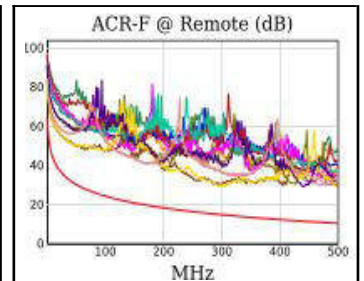
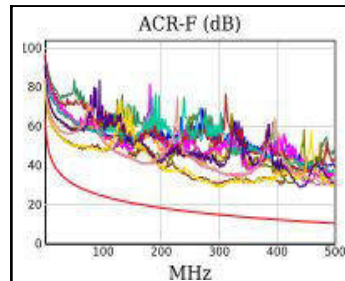


Worst Case Margin Worst Case Value

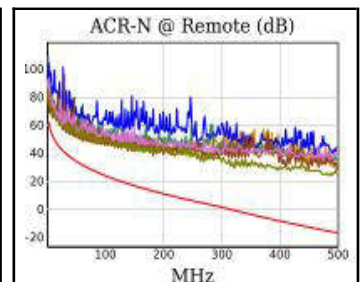
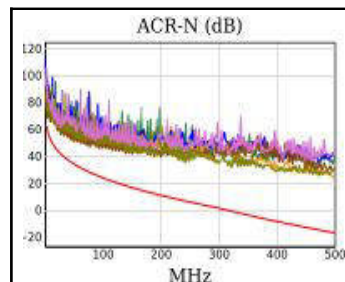
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.3	3.6	7.6	6.8
Freq. (MHz)	242.0	322.0	473.0	490.0
Limit (dB)	35.6	33.0	27.4	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.3	6.0	7.6	8.6
Freq. (MHz)	5.0	322.0	473.0	490.0
Limit (dB)	60.3	30.3	24.6	24.1



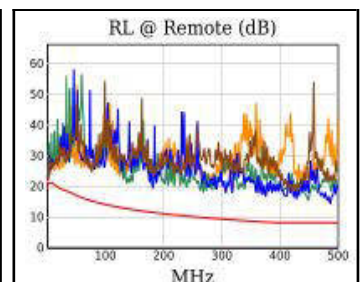
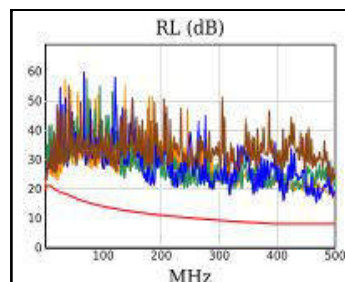
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.9	14.2	14.3	14.5
Freq. (MHz)	296.0	296.0	307.0	307.0
Limit (dB)	14.8	14.8	14.4	14.4
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	16.5	16.5	19.1	18.8
Freq. (MHz)	296.0	296.0	495.0	498.0
Limit (dB)	11.8	11.8	7.3	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.7	9.7	41.4	40.0
Freq. (MHz)	5.0	5.0	497.0	490.0
Limit (dB)	58.6	58.6	-16.9	-16.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	9.2	41.6	41.0
Freq. (MHz)	5.0	5.0	497.0	490.0
Limit (dB)	56.3	56.3	-19.7	-19.2



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	7.1	6.1	7.1	6.1
Freq. (MHz)	468.0	487.0	468.0	487.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



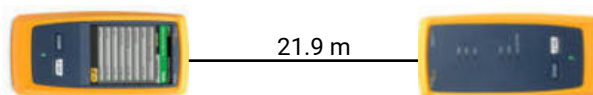
Cable ID: P2-R1-PP1-15

Test Summary: PASS

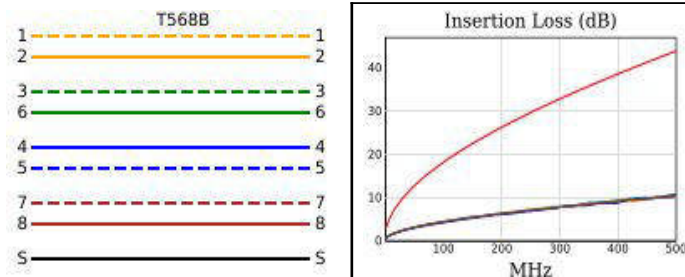
Date / Time: 04/14/2025 09:14:05 AM Operator: Capital Networks
 Headroom: 2.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	21.9
Prop. Delay (ns), Limit 498	[Pair 1,2]	116
Delay Skew (ns), Limit 44	[Pair 1,2]	9
Resistance (ohms)	[Pair 1,2]	4.2
Insertion Loss Margin (dB)	[Pair 3,6]	33.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.2	2.7	6.7	6.4
Freq. (MHz)	150.0	144.5	500.0	493.0
Limit (dB)	39.0	39.2	26.7	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.4	3.5	7.4	8.8
Freq. (MHz)	5.0	138.5	476.0	493.0
Limit (dB)	60.3	37.0	24.5	24.0

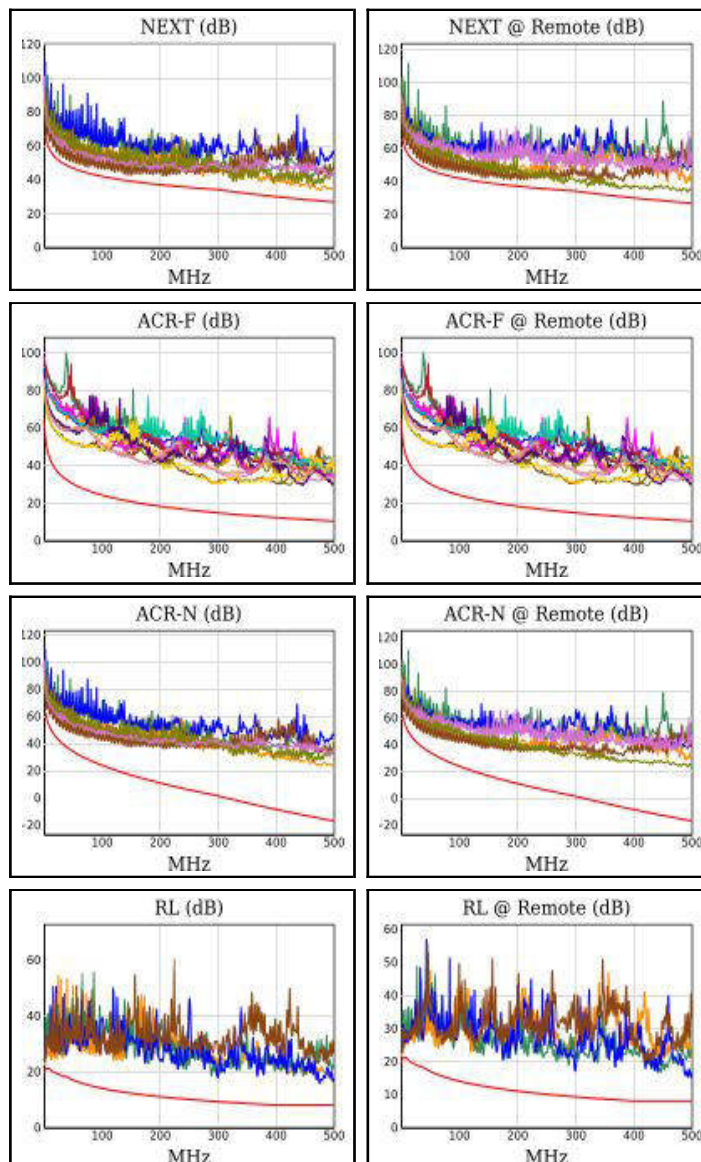
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	7,8-3,6	7,8-3,6
ACR-F (dB)	15.1	15.1	18.0	17.4
Freq. (MHz)	300.0	289.0	447.0	425.0
Limit (dB)	14.6	15.0	11.2	11.6
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	17.7	17.3	18.9	19.5
Freq. (MHz)	300.0	300.0	442.0	500.0
Limit (dB)	11.6	11.6	8.3	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.7	6.4	39.8	39.8
Freq. (MHz)	4.8	5.3	500.0	493.0
Limit (dB)	59.1	58.2	-17.1	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.5	7.1	39.9	41.6
Freq. (MHz)	5.0	5.0	477.0	493.0
Limit (dB)	56.3	56.3	-18.1	-19.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	7.6	7.0	7.6	7.0
Freq. (MHz)	476.0	499.0	476.0	499.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





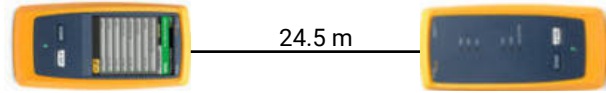
Cable ID: P2-R1-PP1-16

Test Summary: PASS

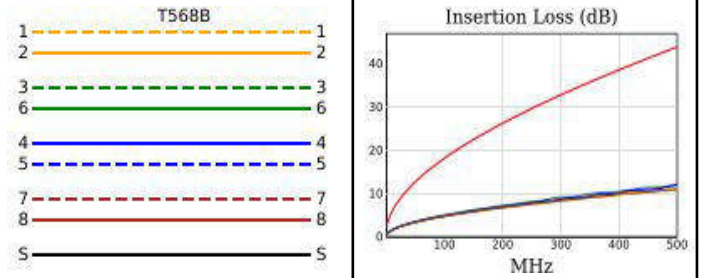
Date / Time: 04/14/2025 10:05:56 AM Operator: Capital Networks
 Headroom: 2.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	24.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	129
Delay Skew (ns), Limit 44	[Pair 3,6]	9
Resistance (ohms)	[Pair 4,5]	4.5
Insertion Loss Margin (dB)	[Pair 3,6]	31.7
Frequency (MHz)	[Pair 3,6]	498.0
Limit (dB)	[Pair 3,6]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	2.2	2.5	8.5	5.9
Freq. (MHz)	95.5	81.8	500.0	474.0
Limit (dB)	42.2	43.3	26.7	27.4
Worst Pair	3,6	3,6	3,6	7,8
PS NEXT (dB)	4.3	3.6	8.3	8.1
Freq. (MHz)	100.5	59.0	473.0	474.0
Limit (dB)	39.3	43.1	24.6	24.6

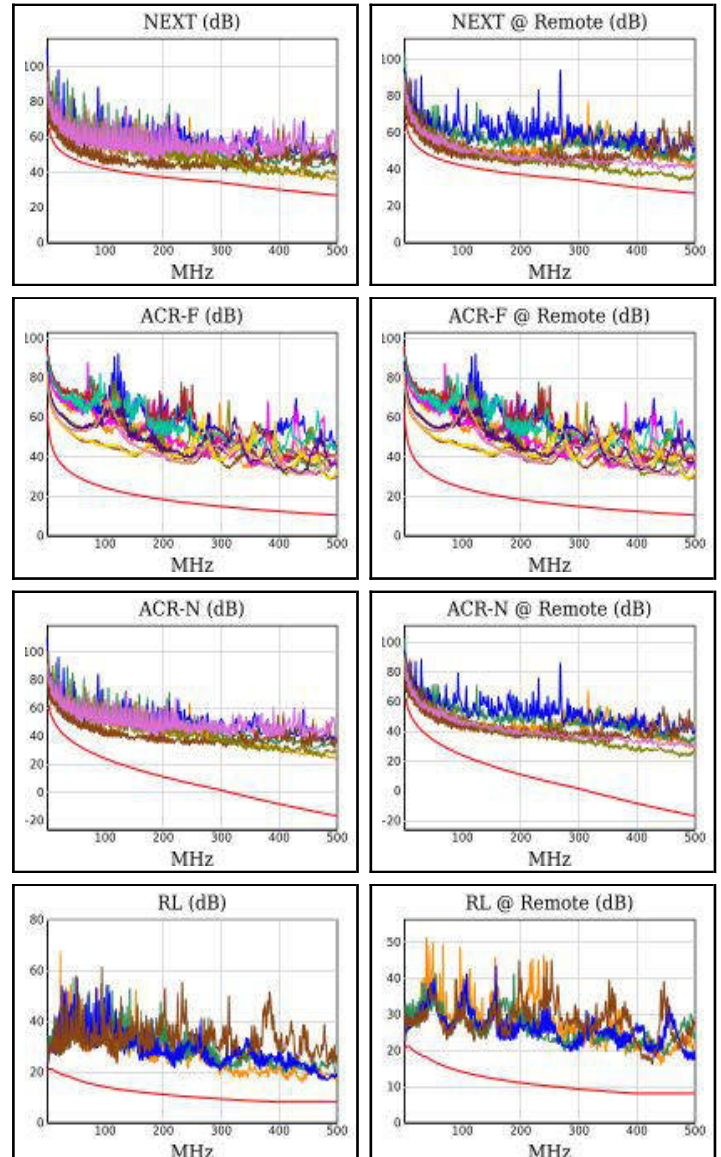
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	17.9	17.8	17.9	17.8
Freq. (MHz)	489.0	489.0	489.0	489.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	4,5	4,5	3,6	3,6
PS ACR-F (dB)	18.4	18.5	20.1	19.1
Freq. (MHz)	1.1	1.5	490.0	490.0
Limit (dB)	60.2	57.7	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.0	6.1	40.5	37.6
Freq. (MHz)	4.1	4.1	500.0	474.0
Limit (dB)	60.3	60.3	-17.1	-15.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.5	6.9	39.3	40.6
Freq. (MHz)	4.4	4.0	473.0	492.0
Limit (dB)	57.5	58.3	-17.8	-19.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.2	7.6	7.2	7.6
Freq. (MHz)	500.0	441.0	500.0	441.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





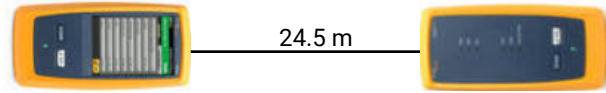
Cable ID: P2-R1-PP1-17

Test Summary: PASS

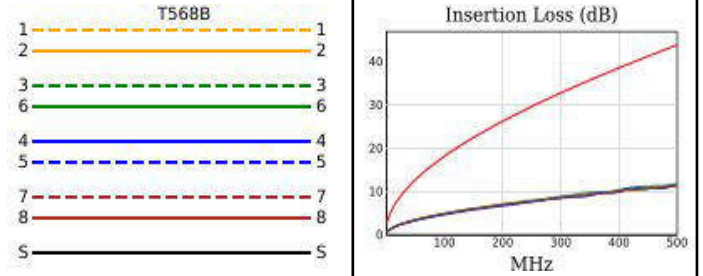
Date / Time: 04/14/2025 10:12:05 AM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	24.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	129
Delay Skew (ns), Limit 44	[Pair 1,2]	9
Resistance (ohms)	[Pair 1,2]	4.7
Insertion Loss Margin (dB)	[Pair 3,6]	32.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.8	4.6	8.9	5.2
Freq. (MHz)	48.5	215.0	484.0	473.0
Limit (dB)	46.9	36.4	27.1	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.5	5.1	9.6	7.1
Freq. (MHz)	4.4	4.5	498.0	469.0
Limit (dB)	61.2	61.0	23.8	24.7

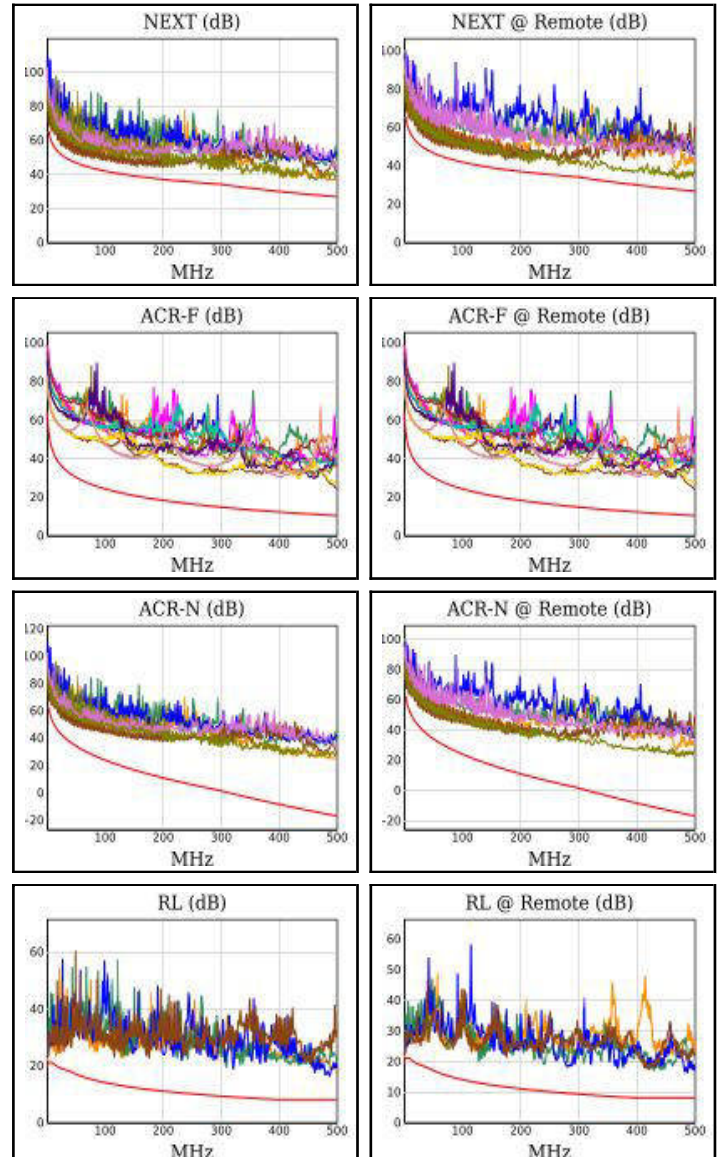
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.6	13.3	13.6	13.3
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.4	16.0	16.4	16.0
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	7.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.7	7.7	40.4	36.6
Freq. (MHz)	4.4	4.4	484.0	473.0
Limit (dB)	59.8	59.8	-15.8	-14.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.0	41.6	38.0
Freq. (MHz)	4.4	4.5	498.0	469.0
Limit (dB)	57.5	57.2	-19.8	-17.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	3,6	4,5	4,5
RL (dB)	8.1	7.0	8.1	8.0
Freq. (MHz)	488.0	129.5	488.0	487.0
Limit (dB)	8.0	12.9	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





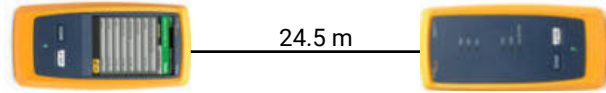
Cable ID: P2-R1-PP1-18

Test Summary: PASS

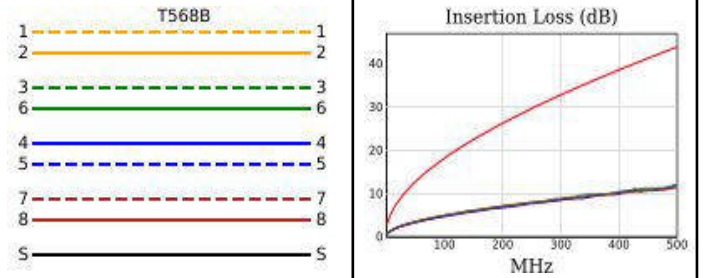
Date / Time: 04/14/2025 10:21:25 AM Operator: Capital Networks
 Headroom: 4.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	24.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	130
Delay Skew (ns), Limit 44	[Pair 1,2]	10
Resistance (ohms)	[Pair 1,2]	4.7
Insertion Loss Margin (dB)	[Pair 4,5]	31.9
Frequency (MHz)	[Pair 4,5]	499.0
Limit (dB)	[Pair 4,5]	43.7



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.8	4.3	8.7	5.4
Freq. (MHz)	110.5	327.0	500.0	479.0
Limit (dB)	41.1	32.8	26.7	27.3
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	6.2	6.5	8.5	7.4
Freq. (MHz)	47.8	327.0	480.0	479.0
Limit (dB)	44.6	30.1	24.4	24.4

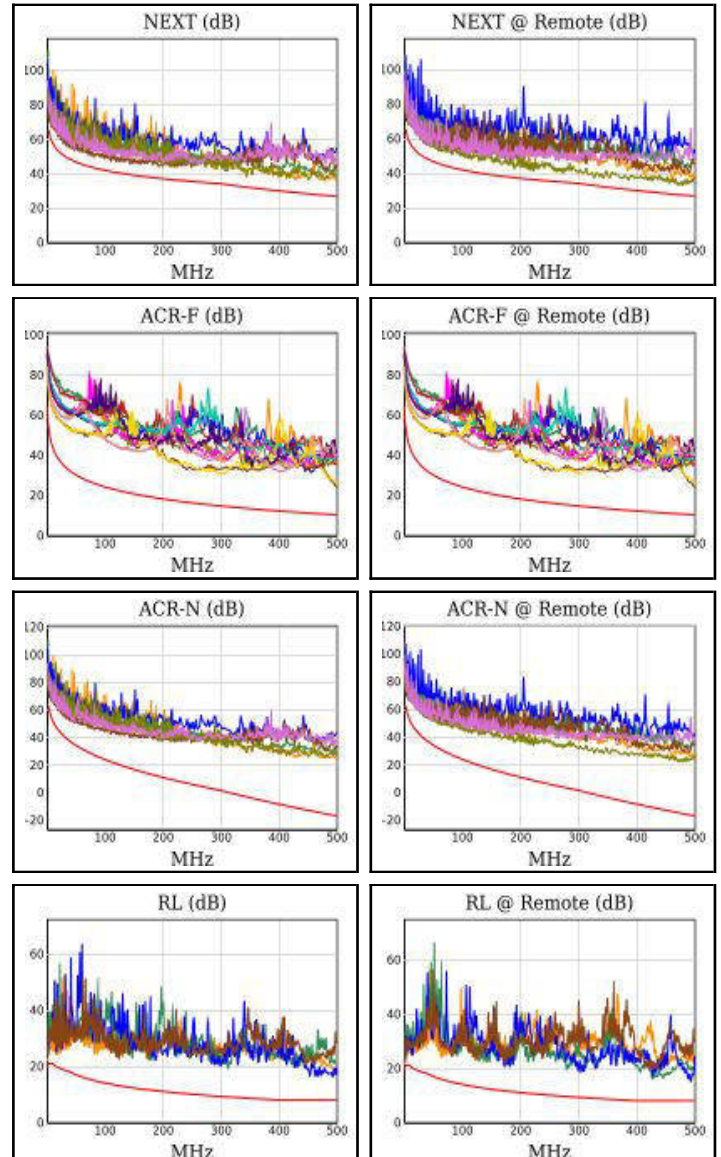
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.9	14.0	13.9	14.0
Freq. (MHz)	499.0	499.0	499.0	499.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.7	16.7	16.7	16.7
Freq. (MHz)	499.0	499.0	499.0	499.0
Limit (dB)	7.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.0	9.3	40.8	37.0
Freq. (MHz)	4.1	4.4	500.0	479.0
Limit (dB)	60.3	59.8	-17.1	-15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	9.3	40.0	38.8
Freq. (MHz)	4.0	4.4	480.0	479.0
Limit (dB)	58.3	57.5	-18.4	-18.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	8.0	6.8	8.0	6.8
Freq. (MHz)	493.0	493.0	493.0	493.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



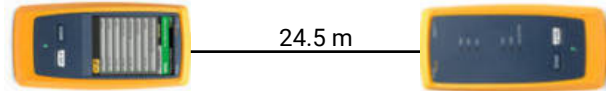


Cable ID: P2-R1-PP1-19

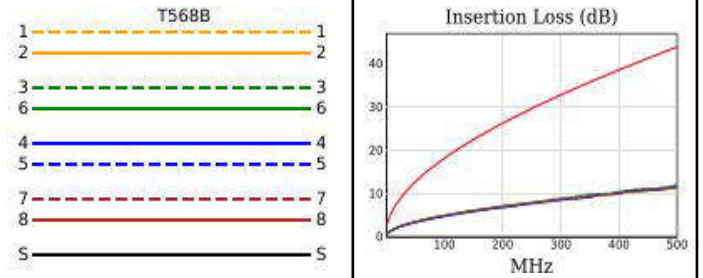
Date / Time: 04/14/2025 10:19:25 AM Operator: Capital Networks
 Headroom: 2.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	24.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	130
Delay Skew (ns), Limit 44	[Pair 1,2]	10
Resistance (ohms)	[Pair 1,2]	4.7
Insertion Loss Margin (dB)	[Pair 3,6]	31.9
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	43.7



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.4	2.7	7.8	6.3
Freq. (MHz)	28.8	111.0	470.0	475.0
Limit (dB)	50.6	41.1	27.5	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.8	3.8	8.4	8.3
Freq. (MHz)	4.3	111.0	470.0	479.0
Limit (dB)	61.4	38.6	24.7	24.4

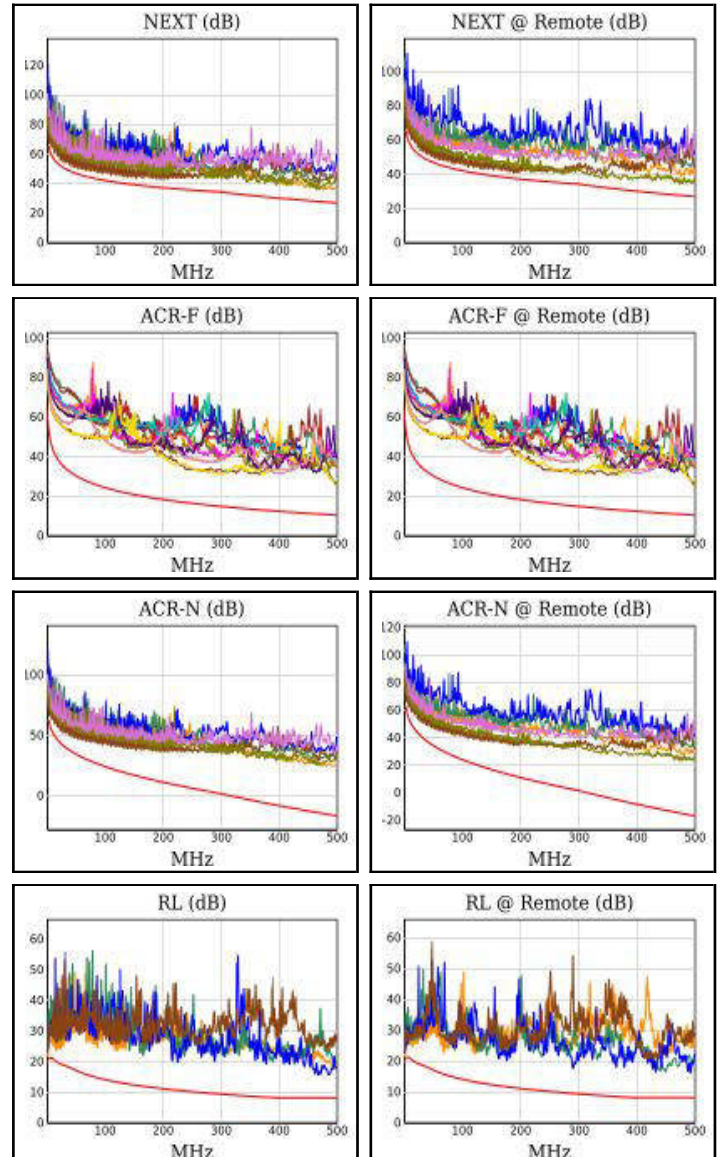
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.7	15.5	15.7	15.5
Freq. (MHz)	498.0	498.0	498.0	498.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	18.1	18.0	18.2	18.0
Freq. (MHz)	296.0	498.0	498.0	498.0
Limit (dB)	11.8	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.4	6.0	40.5	37.7
Freq. (MHz)	4.3	4.4	492.0	475.0
Limit (dB)	60.0	59.8	-16.5	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.6	7.0	39.4	39.6
Freq. (MHz)	4.3	4.4	470.0	479.0
Limit (dB)	57.7	57.5	-17.5	-18.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	4,5
RL (dB)	7.1	7.0	7.1	7.5
Freq. (MHz)	468.0	68.5	468.0	493.0
Limit (dB)	8.0	15.6	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





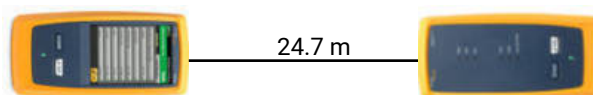
Cable ID: P2-R1-PP1-20

Test Summary: PASS

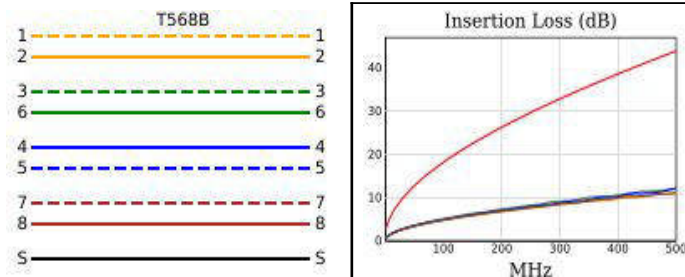
Date / Time: 04/14/2025 10:26:09 AM Operator: Capital Networks
 Headroom: 3.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	24.7
Prop. Delay (ns), Limit 498	[Pair 3,6]	130
Delay Skew (ns), Limit 44	[Pair 3,6]	9
Resistance (ohms)	[Pair 4,5]	4.6
Insertion Loss Margin (dB)	[Pair 3,6]	31.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.5	3.8	8.0	5.5
Freq. (MHz)	90.5	90.0	498.0	474.0
Limit (dB)	42.5	42.6	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.7	5.5	8.2	6.9
Freq. (MHz)	90.5	49.8	498.0	474.0
Limit (dB)	40.0	44.3	23.8	24.6

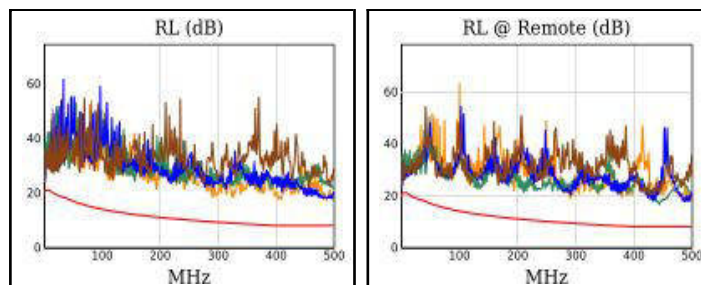
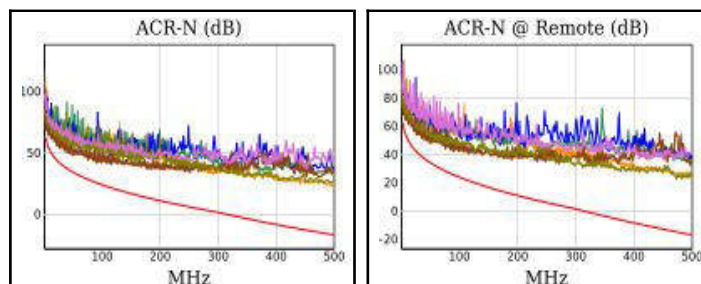
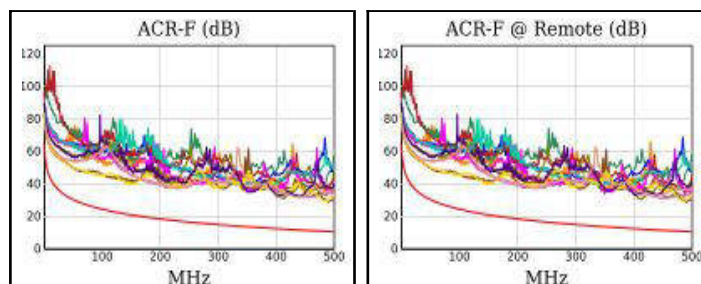
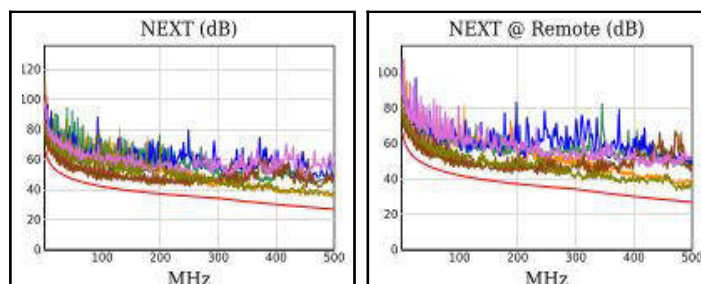
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	17.9	17.8	17.9	17.8
Freq. (MHz)	490.0	490.0	490.0	490.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	4,5	4,5	4,5	3,6
PS ACR-F (dB)	18.5	18.4	20.0	19.2
Freq. (MHz)	1.1	1.4	490.0	490.0
Limit (dB)	60.2	58.4	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	7.7	39.6	37.2
Freq. (MHz)	4.0	4.1	498.0	474.0
Limit (dB)	60.5	60.3	-16.9	-15.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	8.8	39.8	38.6
Freq. (MHz)	4.0	4.1	498.0	483.0
Limit (dB)	58.3	58.0	-19.8	-18.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	1,2	3,6
RL (dB)	8.6	8.4	8.7	8.4
Freq. (MHz)	291.0	444.0	500.0	444.0
Limit (dB)	9.4	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



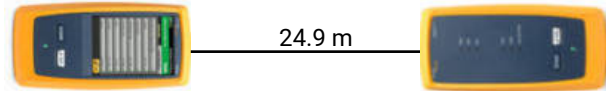


Cable ID: P2-R1-PP1-21

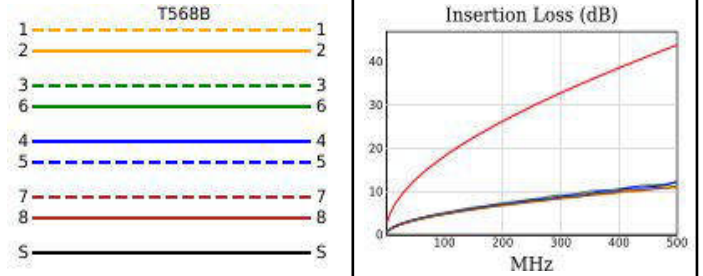
Date / Time: 04/14/2025 10:26:39 AM Operator: Capital Networks
 Headroom: 3.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	24.9
Prop. Delay (ns), Limit 498	[Pair 3,6]	130
Delay Skew (ns), Limit 44	[Pair 3,6]	8
Resistance (ohms)	[Pair 4,5]	4.6
Insertion Loss Margin (dB)	[Pair 3,6]	31.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.3	3.7	7.7	7.3
Freq. (MHz)	103.5	36.0	464.0	487.0
Limit (dB)	41.6	49.0	27.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.0	4.7	9.1	7.0
Freq. (MHz)	36.3	199.0	464.0	477.0
Limit (dB)	46.5	34.4	24.9	24.5

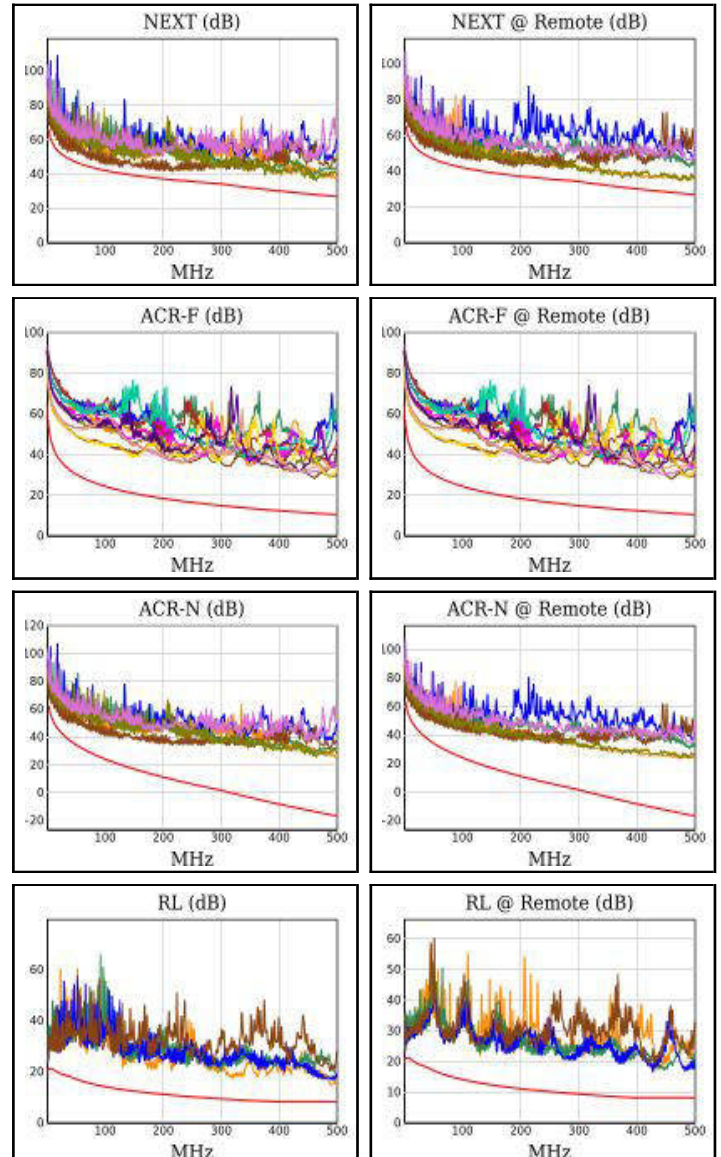
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	17.0	16.7	17.0	16.7
Freq. (MHz)	462.0	462.0	462.0	462.0
Limit (dB)	10.9	10.9	10.9	10.9
Worst Pair	4,5	4,5	4,5	3,6
PS ACR-F (dB)	17.9	18.2	18.5	19.0
Freq. (MHz)	1.0	1.3	462.0	490.0
Limit (dB)	61.2	59.3	7.9	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	6.9	6.4	41.6	37.7
Freq. (MHz)	4.0	4.0	500.0	472.0
Limit (dB)	60.5	60.5	-17.1	-14.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.1	7.6	42.5	38.1
Freq. (MHz)	4.0	4.0	500.0	477.0
Limit (dB)	58.3	58.3	-20.0	-18.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	6.3	8.2	6.3	8.2
Freq. (MHz)	500.0	428.0	500.0	428.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





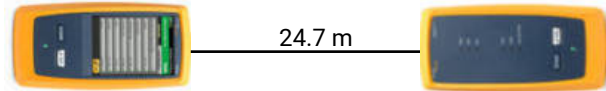
Cable ID: P2-R1-PP1-22

Test Summary: PASS

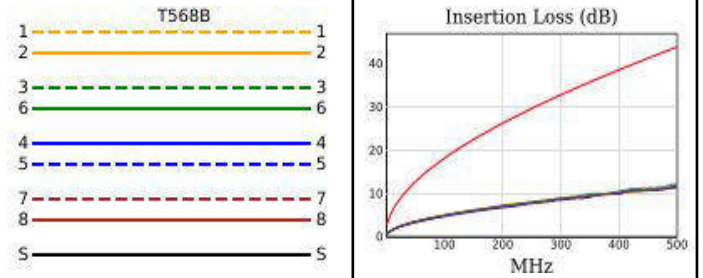
Date / Time: 04/14/2025 10:31:13 AM Operator: Capital Networks
 Headroom: 5.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	24.7
Prop. Delay (ns), Limit 498	[Pair 1,2]	132
Delay Skew (ns), Limit 44	[Pair 1,2]	11
Resistance (ohms)	[Pair 1,2]	4.8
Insertion Loss Margin (dB)	[Pair 3,6]	31.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.6	5.6	9.3	6.4
Freq. (MHz)	183.5	270.0	494.0	483.0
Limit (dB)	37.5	34.8	26.8	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.1	5.5	9.6	8.1
Freq. (MHz)	4.1	4.1	472.0	474.0
Limit (dB)	61.6	61.6	24.6	24.6

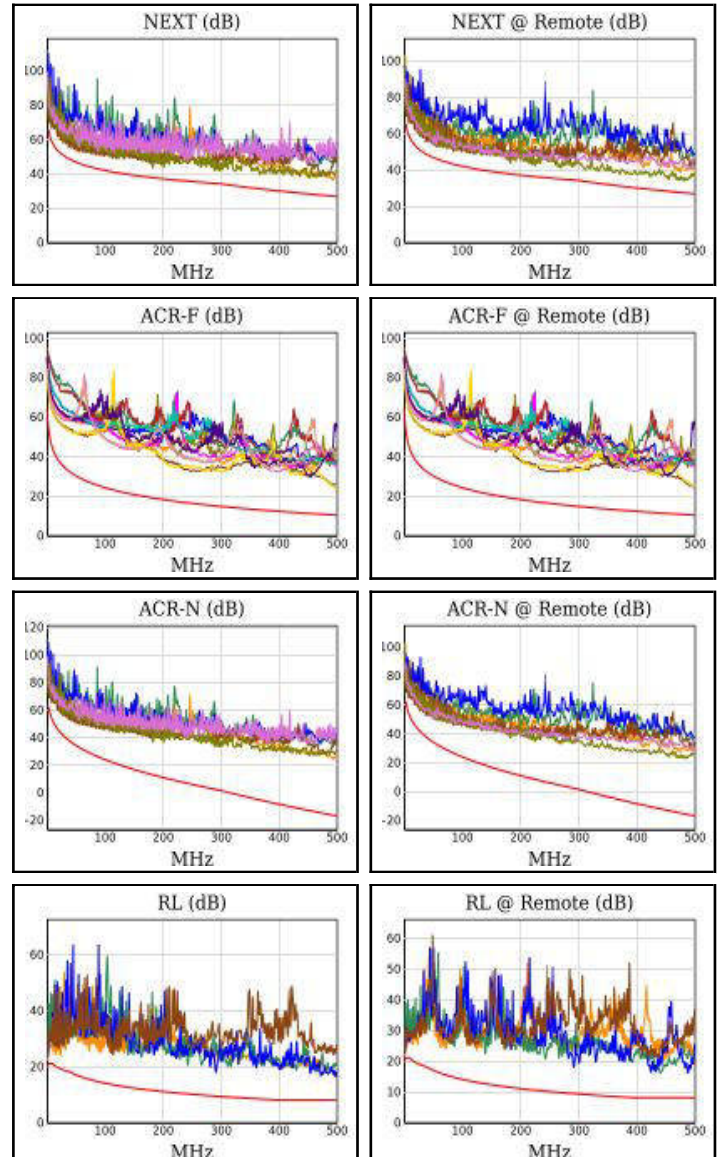
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.1	14.2	14.1	14.3
Freq. (MHz)	497.0	497.0	497.0	498.0
Limit (dB)	10.3	10.3	10.3	10.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.9	16.7	16.9	16.9
Freq. (MHz)	497.0	492.0	497.0	498.0
Limit (dB)	7.3	7.4	7.3	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.8	8.5	40.7	38.0
Freq. (MHz)	4.1	4.1	494.0	483.0
Limit (dB)	60.3	60.3	-16.6	-15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.8	8.2	41.8	40.1
Freq. (MHz)	4.1	4.1	493.0	488.0
Limit (dB)	58.0	58.0	-19.4	-19.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	8.0	7.8	8.0	7.8
Freq. (MHz)	498.0	489.0	498.0	489.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





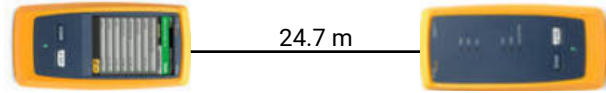
Cable ID: P2-R1-PP1-23

Test Summary: PASS

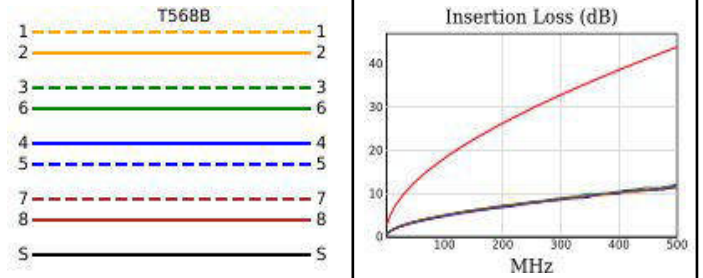
Date / Time: 04/14/2025 10:32:03 AM Operator: Capital Networks
 Headroom: 3.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	24.7
Prop. Delay (ns), Limit 498	[Pair 1,2]	131
Delay Skew (ns), Limit 44	[Pair 1,2]	10
Resistance (ohms)	[Pair 1,2]	4.8
Insertion Loss Margin (dB)	[Pair 3,6]	31.7
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	43.7



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.3	3.1	8.2	6.0
Freq. (MHz)	4.4	62.0	500.0	484.0
Limit (dB)	63.5	45.2	26.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.2	3.8	9.1	8.3
Freq. (MHz)	4.4	4.3	500.0	484.0
Limit (dB)	61.2	61.4	23.8	24.2

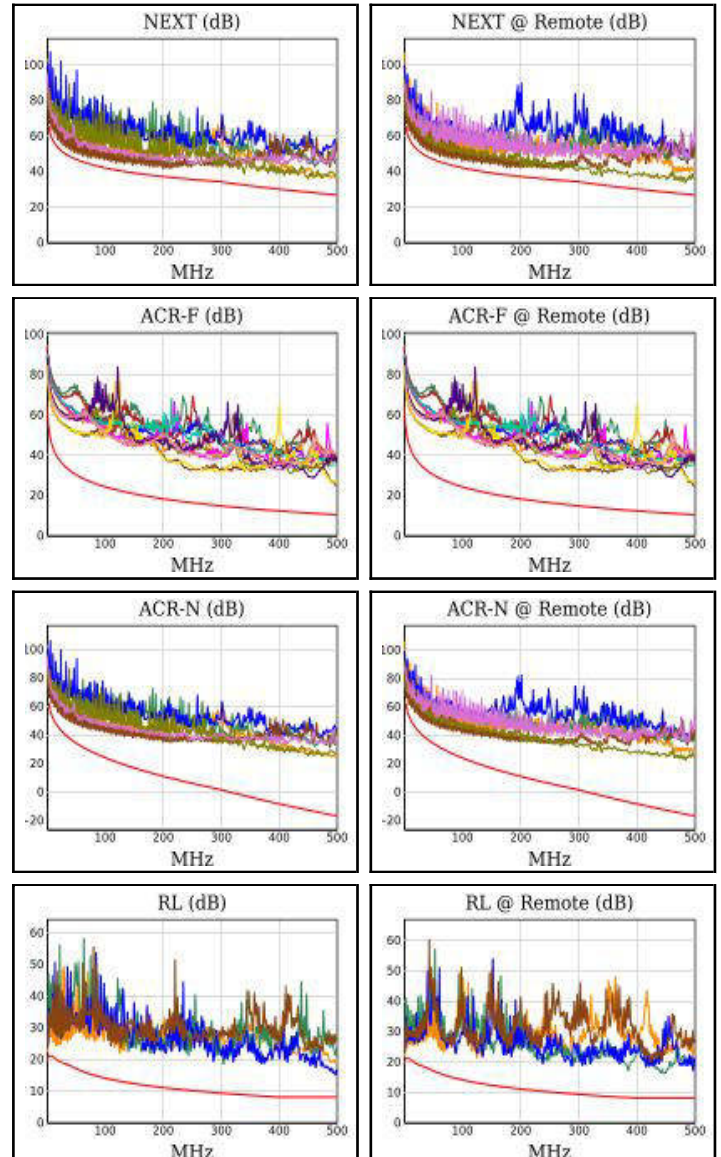
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.4	14.2	14.4	14.2
Freq. (MHz)	500.0	499.0	500.0	499.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.2	16.8	17.2	16.8
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	7.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.1	6.1	40.1	37.7
Freq. (MHz)	4.4	4.3	500.0	484.0
Limit (dB)	59.8	60.0	-17.1	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	6.9	6.6	41.0	39.7
Freq. (MHz)	4.4	4.3	500.0	484.0
Limit (dB)	57.5	57.7	-20.0	-18.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	3,6
RL (dB)	6.7	7.3	6.7	8.0
Freq. (MHz)	498.0	68.3	498.0	447.0
Limit (dB)	8.0	15.7	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





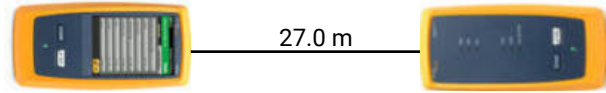
Cable ID: P2-R1-PP1-25

Test Summary: PASS

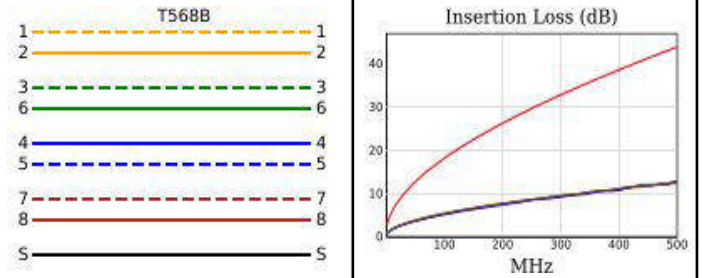
Date / Time: 04/14/2025 10:34:16 AM Operator: Capital Networks
 Headroom: 4.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	27.0
Prop. Delay (ns), Limit 498	[Pair 1,2]	144
Delay Skew (ns), Limit 44	[Pair 1,2]	12
Resistance (ohms)	[Pair 1,2]	5.1
Insertion Loss Margin (dB)	[Pair 4,5]	30.9
Frequency (MHz)	[Pair 4,5]	499.0
Limit (dB)	[Pair 4,5]	43.7

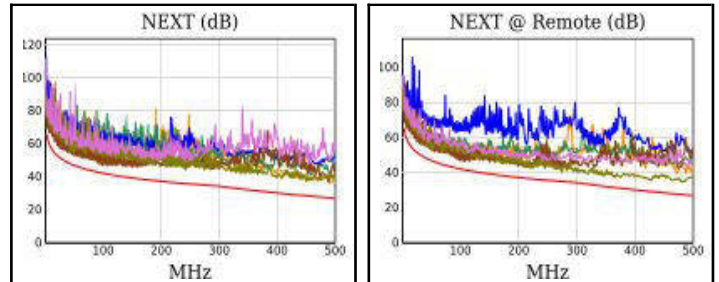


PASS

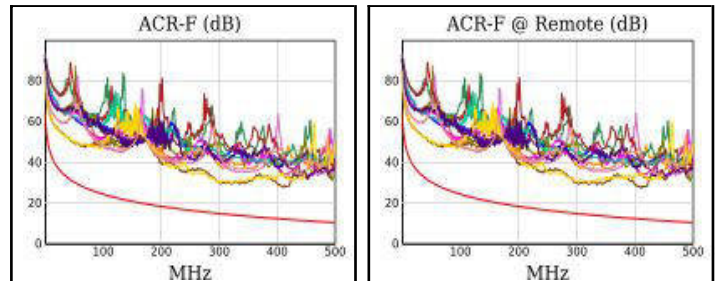


Worst Case Margin Worst Case Value

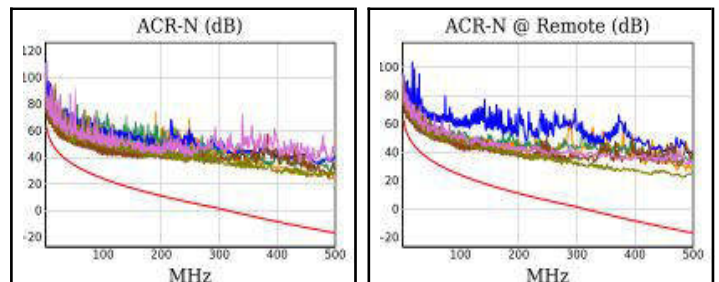
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.6	4.3	8.7	7.1
Freq. (MHz)	99.5	104.0	491.0	483.0
Limit (dB)	41.9	41.6	26.9	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.5	4.9	8.5	9.3
Freq. (MHz)	99.3	3.9	490.0	484.0
Limit (dB)	39.4	62.0	24.1	24.2



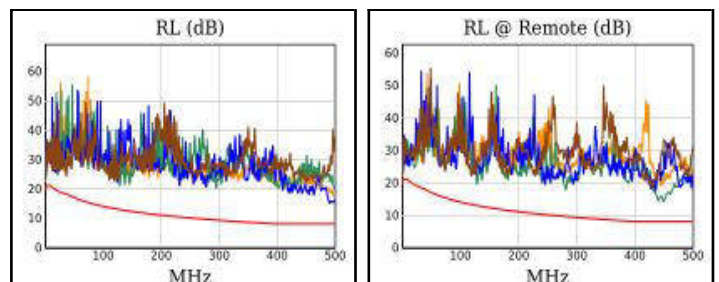
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.6	14.4	15.5	15.2
Freq. (MHz)	304.0	304.0	412.0	411.0
Limit (dB)	14.5	14.5	11.9	11.9
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	17.2	16.7	18.3	16.7
Freq. (MHz)	304.0	412.0	412.0	412.0
Limit (dB)	11.5	8.9	8.9	8.9



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.6	7.2	39.4	37.7
Freq. (MHz)	3.9	3.9	491.0	483.0
Limit (dB)	60.8	60.8	-16.4	-15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.1	7.5	39.3	40.3
Freq. (MHz)	4.0	4.0	490.0	488.0
Limit (dB)	58.3	58.3	-19.2	-19.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	3,6	4,5	3,6
RL (dB)	6.2	6.1	6.9	6.1
Freq. (MHz)	37.5	450.0	491.0	450.0
Limit (dB)	18.1	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

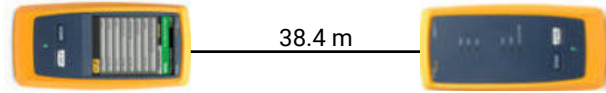


Cable ID: P2-R1-PP1-26

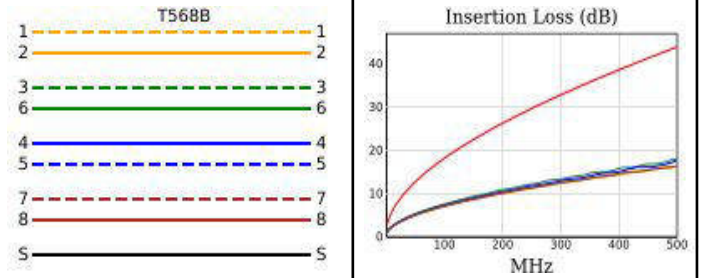
Date / Time: 04/14/2025 10:37:29 AM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	202
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	25.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.8	5.1	9.7	7.4
Freq. (MHz)	52.0	201.0	485.0	485.0
Limit (dB)	46.4	36.9	27.1	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.3	6.2	9.9	9.5
Freq. (MHz)	104.0	198.0	488.0	485.0
Limit (dB)	39.0	34.4	24.1	24.2

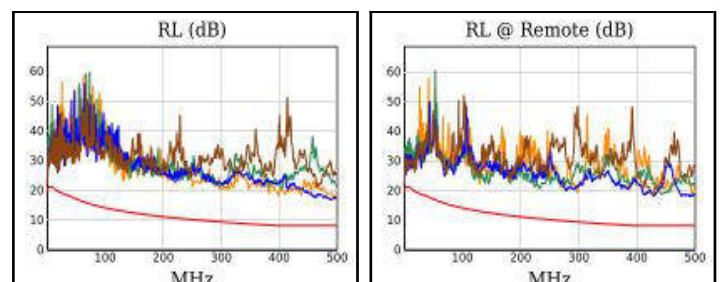
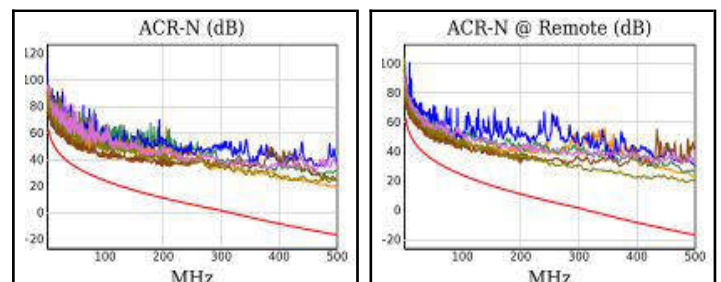
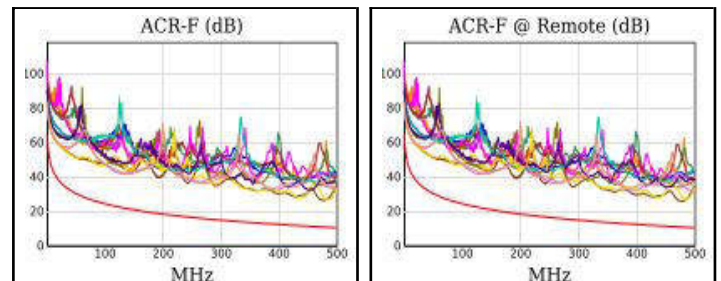
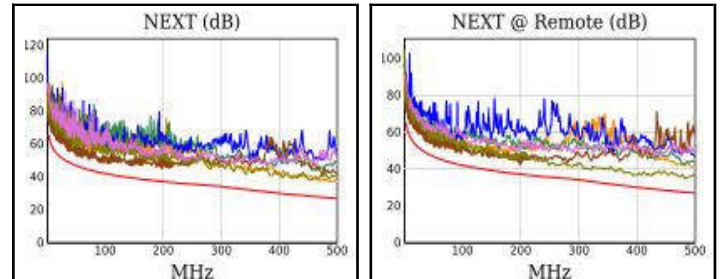
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.5	14.9	15.5	14.9
Freq. (MHz)	477.0	477.0	477.0	477.0
Limit (dB)	10.6	10.6	10.6	10.6
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	17.9	17.2	18.0	17.2
Freq. (MHz)	441.0	477.0	480.0	477.0
Limit (dB)	8.3	7.6	7.6	7.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	10.2	9.4	35.6	34.4
Freq. (MHz)	2.6	2.6	491.0	485.0
Limit (dB)	62.0	62.0	-16.4	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	11.3	10.2	35.5	35.1
Freq. (MHz)	5.0	5.1	488.0	485.0
Limit (dB)	56.3	56.1	-19.0	-18.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	4,5
RL (dB)	6.4	6.7	8.6	9.5
Freq. (MHz)	19.0	19.0	498.0	430.0
Limit (dB)	19.6	19.6	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



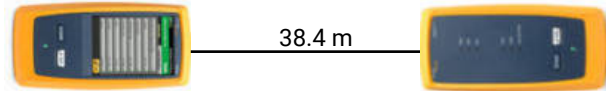


Cable ID: P2-R1-PP1-27

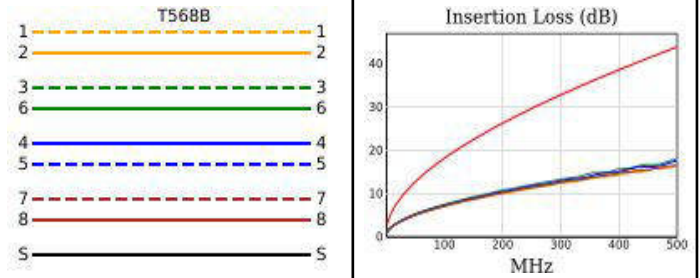
Date / Time: 04/14/2025 10:46:30 AM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	202
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 3,6]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.5	5.1	8.8	5.3
Freq. (MHz)	57.5	330.0	487.0	480.0
Limit (dB)	45.7	32.6	27.0	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.2	6.5	8.5	7.2
Freq. (MHz)	57.8	159.0	488.0	480.0
Limit (dB)	43.2	36.0	24.1	24.4

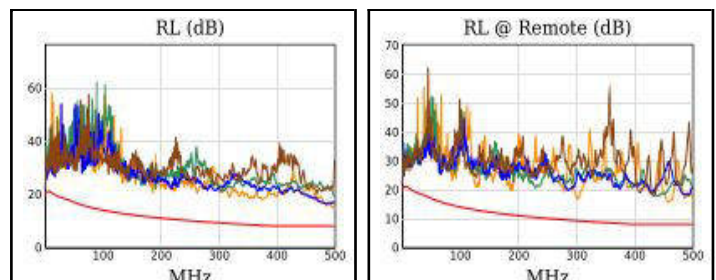
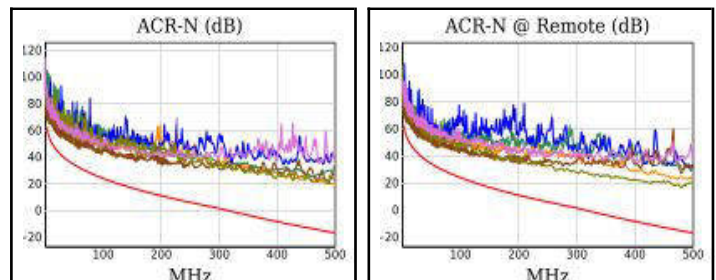
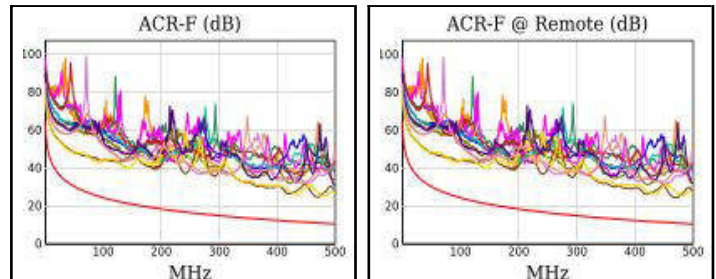
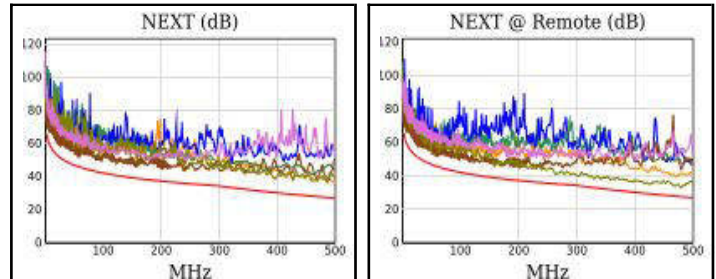
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.6	13.2	13.6	13.2
Freq. (MHz)	469.0	469.0	469.0	469.0
Limit (dB)	10.8	10.8	10.8	10.8
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.0	15.8	16.3	15.8
Freq. (MHz)	436.0	469.0	469.0	469.0
Limit (dB)	8.4	7.8	7.8	7.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.4	8.3	35.9	31.8
Freq. (MHz)	5.3	2.9	500.0	480.0
Limit (dB)	58.2	62.0	-17.1	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.7	34.1	32.9
Freq. (MHz)	5.3	5.1	488.0	480.0
Limit (dB)	55.9	56.1	-19.0	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	6.8	7.4	6.8	7.6
Freq. (MHz)	498.0	302.0	498.0	456.0
Limit (dB)	8.0	9.2	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





Cable ID: P2-R1-PP1-28

Date / Time: 04/14/2025 10:47:33 AM Operator: Capital Networks
 Headroom: 3.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	38.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	200
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.3	3.4	9.8	5.0
Freq. (MHz)	61.0	61.0	498.0	490.0
Limit (dB)	45.3	45.3	26.7	26.9
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	5.5	4.7	10.0	7.3
Freq. (MHz)	61.0	164.0	489.0	490.0
Limit (dB)	42.8	35.8	24.1	24.1

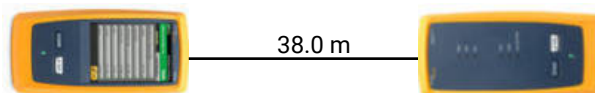
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.3	13.9	14.3	13.9
Freq. (MHz)	470.0	470.0	470.0	470.0
Limit (dB)	10.7	10.7	10.7	10.7
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.5	16.3	16.5	16.3
Freq. (MHz)	470.0	470.0	470.0	470.0
Limit (dB)	7.7	7.7	7.7	7.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.5	6.6	35.8	32.1
Freq. (MHz)	5.0	5.0	498.0	490.0
Limit (dB)	58.6	58.6	-16.9	-16.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.2	7.3	35.9	33.2
Freq. (MHz)	5.3	5.3	489.0	490.0
Limit (dB)	55.9	55.9	-19.1	-19.2

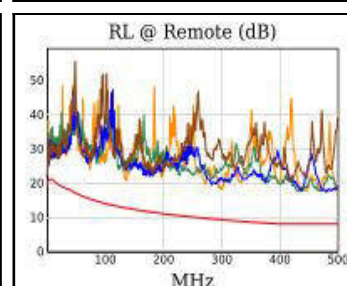
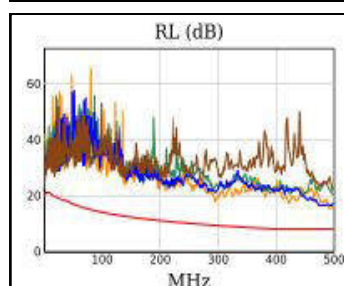
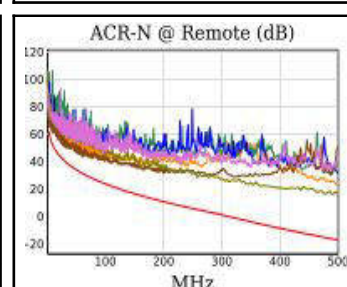
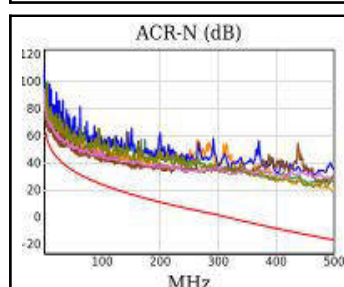
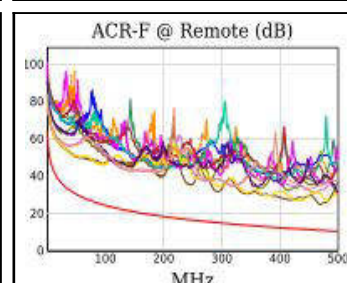
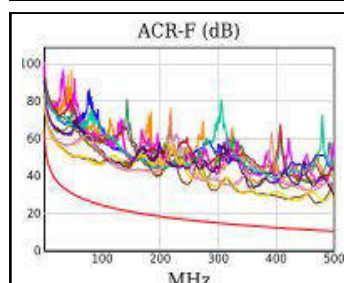
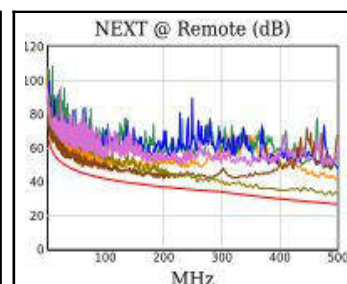
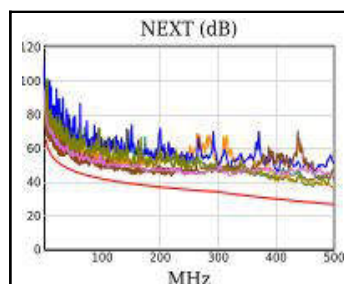
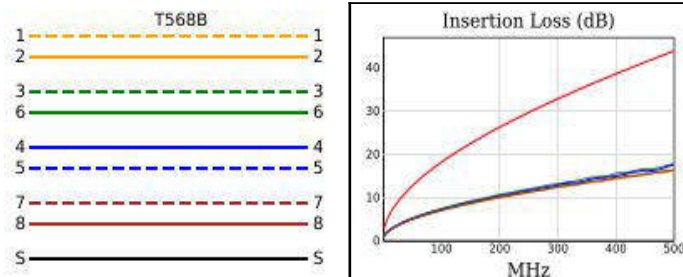
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	7.1	7.5	7.1	9.1
Freq. (MHz)	493.0	19.0	493.0	499.0
Limit (dB)	8.0	19.6	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS





Cable ID: P2-R1-PP1-29

Date / Time: 04/14/2025 10:48:55 AM Operator: Capital Networks
 Headroom: 5.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	38.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	200
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.3	5.5	10.2	6.5
Freq. (MHz)	96.5	60.8	498.0	475.0
Limit (dB)	42.1	45.3	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.4	5.9	10.2	8.9
Freq. (MHz)	5.3	5.4	484.0	475.0
Limit (dB)	59.9	59.8	24.2	24.5

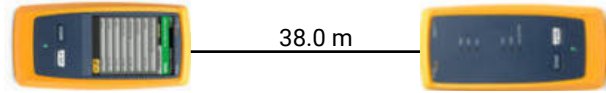
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	14.9	15.1	14.9	15.4
Freq. (MHz)	436.0	403.0	436.0	436.0
Limit (dB)	11.4	12.1	11.4	11.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	17.0	16.9	17.9	16.9
Freq. (MHz)	438.0	435.0	492.0	435.0
Limit (dB)	8.4	8.4	7.4	8.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.9	8.8	36.0	33.5
Freq. (MHz)	5.0	5.1	498.0	478.0
Limit (dB)	58.6	58.4	-16.9	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.8	8.3	36.9	35.3
Freq. (MHz)	5.3	5.3	498.0	489.0
Limit (dB)	55.9	55.9	-19.8	-19.1

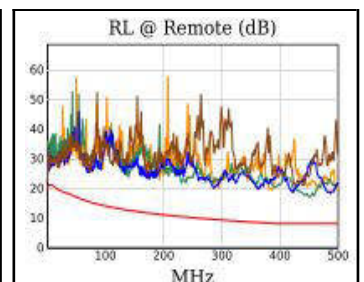
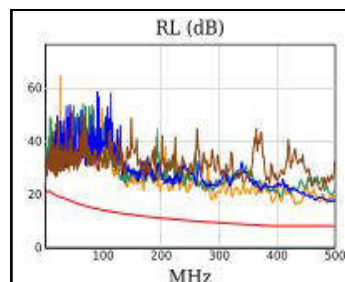
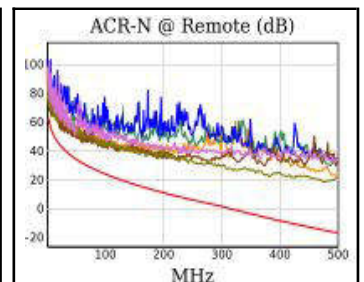
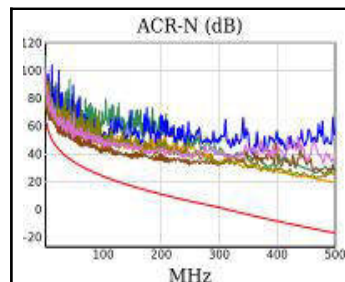
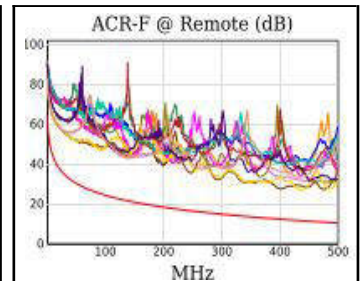
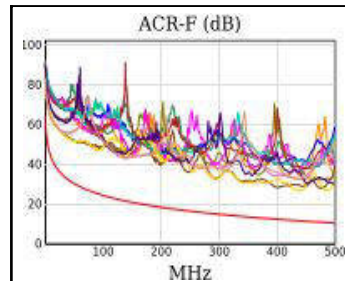
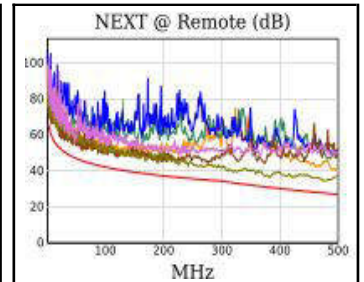
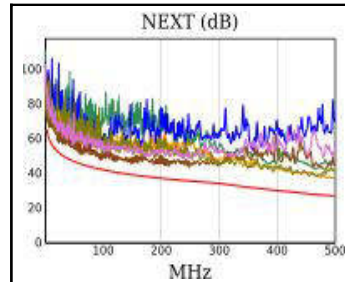
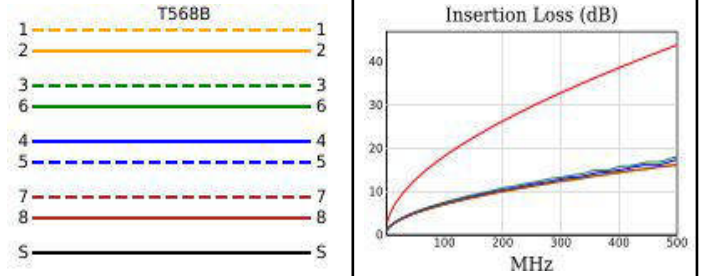
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	3,6
RL (dB)	7.2	7.5	8.0	8.9
Freq. (MHz)	19.1	21.9	433.0	452.0
Limit (dB)	19.6	19.3	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS





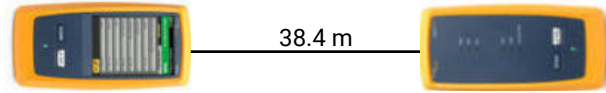
Cable ID: P2-R1-PP1-30

Test Summary: PASS

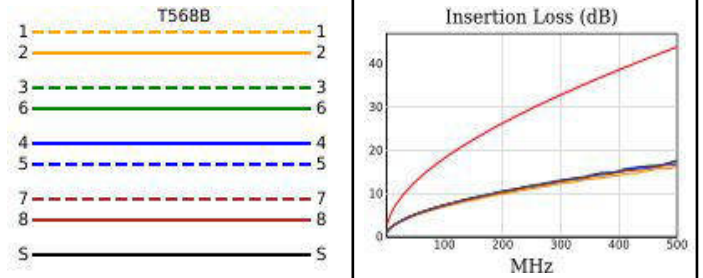
Date / Time: 04/14/2025 10:53:38 AM Operator: Capital Networks
 Headroom: 3.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	201
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 3,6]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

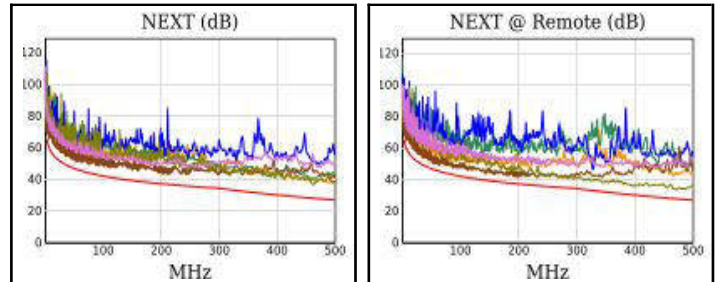


PASS

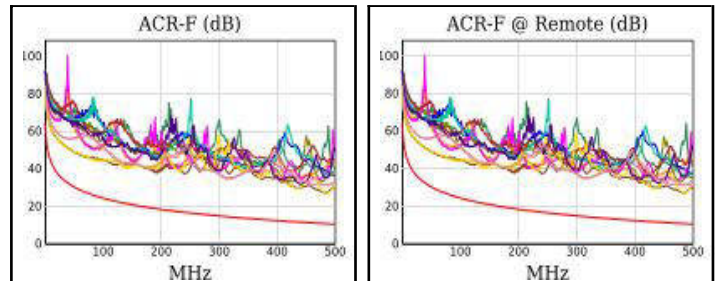


Worst Case Margin Worst Case Value

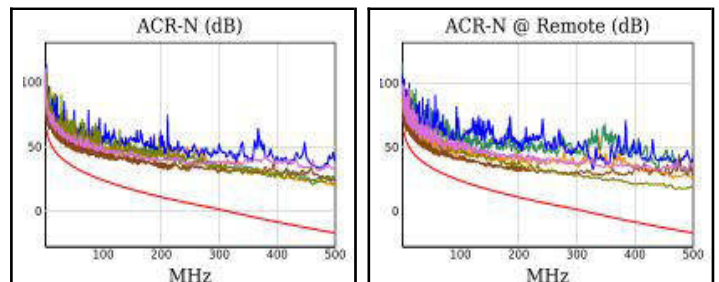
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.7	3.5	8.1	5.6
Freq. (MHz)	55.0	63.3	463.0	472.0
Limit (dB)	46.0	45.1	27.8	27.5
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.3	4.8	9.9	8.0
Freq. (MHz)	77.0	193.0	500.0	472.0
Limit (dB)	41.2	34.6	23.8	24.6



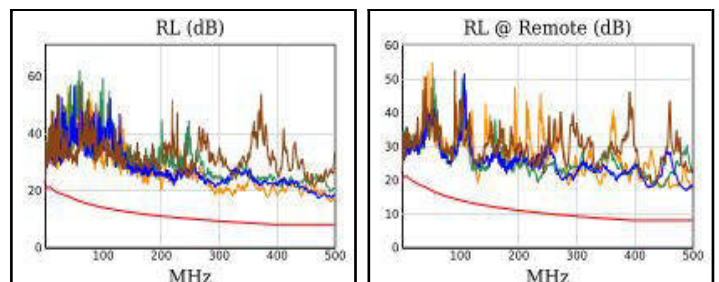
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.3	16.3	16.3	16.3
Freq. (MHz)	481.0	484.0	481.0	484.0
Limit (dB)	10.5	10.5	10.5	10.5
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	17.8	17.9	18.0	18.0
Freq. (MHz)	1.0	485.0	484.0	487.0
Limit (dB)	61.2	7.5	7.5	7.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	6.9	36.3	31.6
Freq. (MHz)	5.3	5.3	500.0	472.0
Limit (dB)	58.2	58.2	-17.1	-14.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.7	8.0	36.2	35.2
Freq. (MHz)	5.3	5.3	500.0	489.0
Limit (dB)	55.9	55.9	-20.0	-19.1



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	4,5
RL (dB)	8.0	6.2	8.0	8.7
Freq. (MHz)	493.0	130.5	493.0	489.0
Limit (dB)	8.0	12.8	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



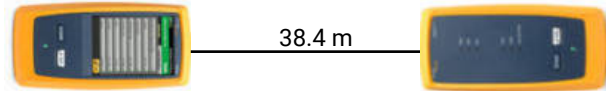
Cable ID: P2-R1-PP1-31

Test Summary: PASS

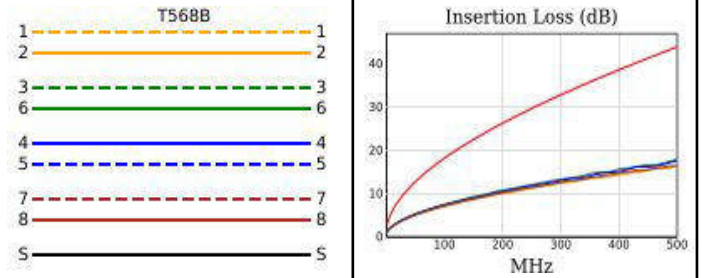
Date / Time: 04/14/2025 10:54:31 AM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	202
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.7
Insertion Loss Margin (dB)	[Pair 3,6]	26.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

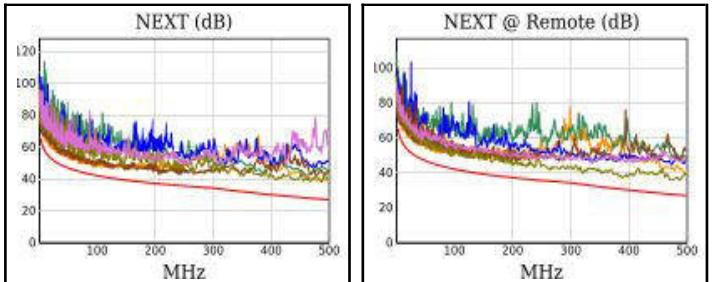


PASS

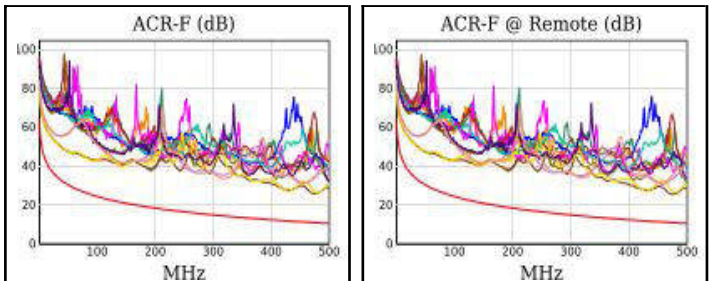


Worst Case Margin Worst Case Value

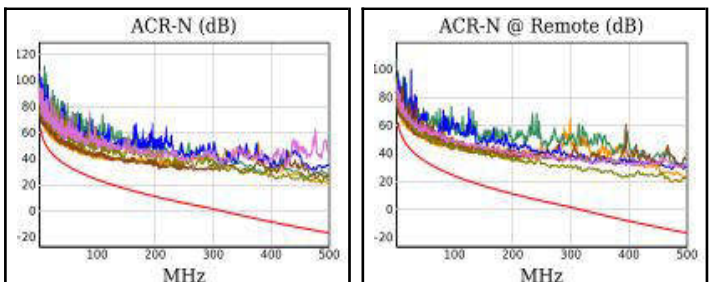
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	5.1	6.1	10.4	8.4
Freq. (MHz)	93.8	5.1	487.0	487.0
Limit (dB)	42.3	62.4	27.0	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.3	5.3	10.1	10.2
Freq. (MHz)	145.5	5.4	487.0	488.0
Limit (dB)	36.6	59.8	24.2	24.1



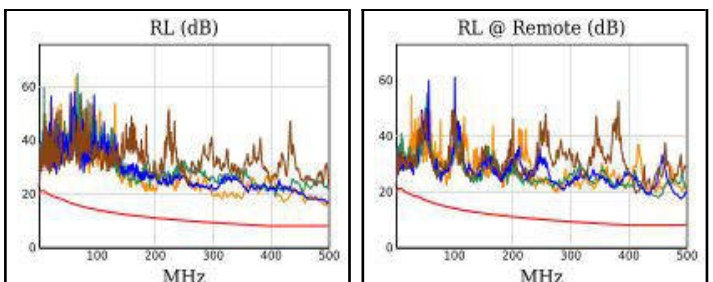
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.7	14.4	14.7	14.4
Freq. (MHz)	474.0	474.0	474.0	474.0
Limit (dB)	10.7	10.7	10.7	10.7
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.0	17.2	17.0	17.2
Freq. (MHz)	474.0	477.0	474.0	477.0
Limit (dB)	7.7	7.6	7.7	7.6



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.0	8.5	37.7	35.3
Freq. (MHz)	5.0	5.1	496.0	487.0
Limit (dB)	58.6	58.4	-16.8	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.8	7.7	35.9	35.9
Freq. (MHz)	5.3	5.3	487.0	488.0
Limit (dB)	55.9	55.9	-18.9	-19.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	7.5	7.5	7.5	9.1
Freq. (MHz)	496.0	30.1	496.0	491.0
Limit (dB)	8.0	18.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



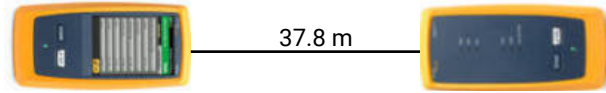
Cable ID: P2-R1-PP1-32

Test Summary: PASS

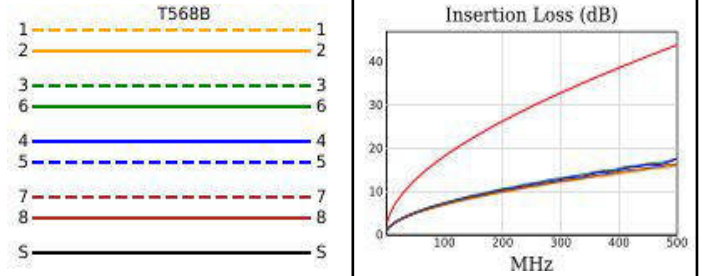
Date / Time: 04/14/2025 10:57:25 AM Operator: Capital Networks
 Headroom: 3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	37.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	199
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

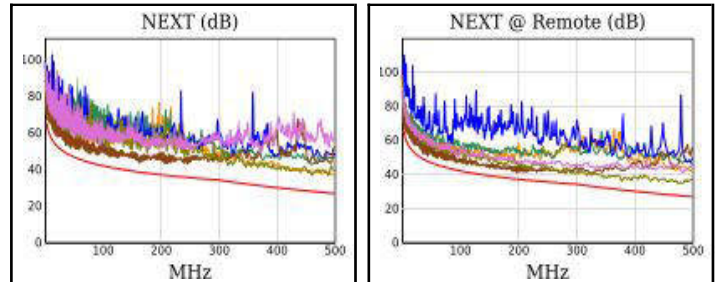


PASS

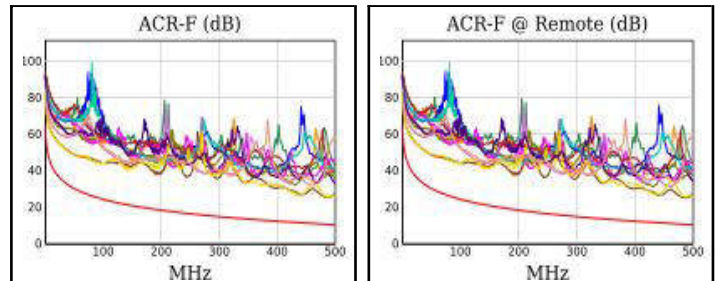


Worst Case Margin Worst Case Value

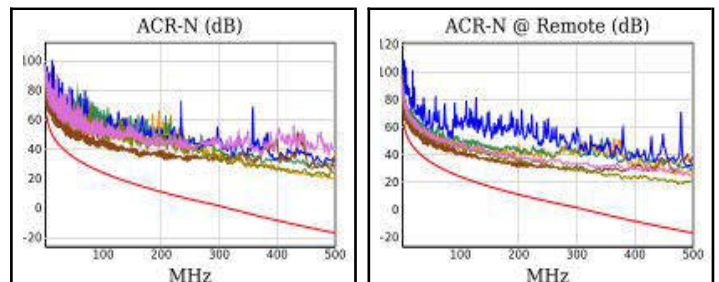
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.0	3.0	9.4	6.7
Freq. (MHz)	44.5	36.3	489.0	475.0
Limit (dB)	47.5	48.9	27.0	27.4
Worst Pair	3,6	3,6	3,6	7,8
PS NEXT (dB)	5.9	4.3	9.4	9.2
Freq. (MHz)	36.3	36.3	490.0	484.0
Limit (dB)	46.5	46.5	24.1	24.2



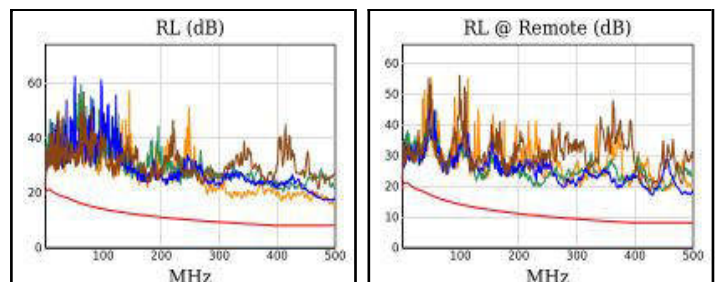
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.7	14.4	14.7	14.5
Freq. (MHz)	490.0	484.0	490.0	490.0
Limit (dB)	10.4	10.5	10.4	10.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.0	16.9	17.4	16.9
Freq. (MHz)	436.0	484.0	488.0	484.0
Limit (dB)	8.4	7.5	7.4	7.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.1	6.2	36.5	34.1
Freq. (MHz)	2.8	5.4	500.0	484.0
Limit (dB)	62.0	58.0	-17.1	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.4	7.3	35.6	35.6
Freq. (MHz)	5.3	5.4	490.0	484.0
Limit (dB)	55.9	55.7	-19.2	-18.7



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	1,2	4,5
RL (dB)	6.0	8.0	6.0	8.6
Freq. (MHz)	500.0	29.9	500.0	431.0
Limit (dB)	8.0	18.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



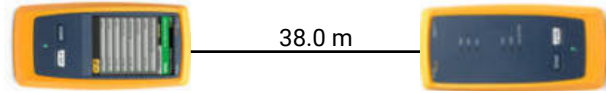
Cable ID: P2-R1-PP1-33

Test Summary: PASS

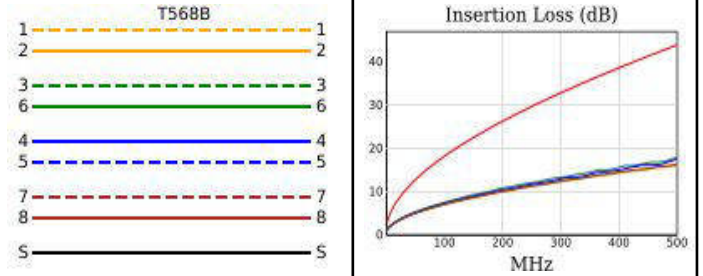
Date / Time: 04/14/2025 12:05:38 PM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	38.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	199
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	26.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

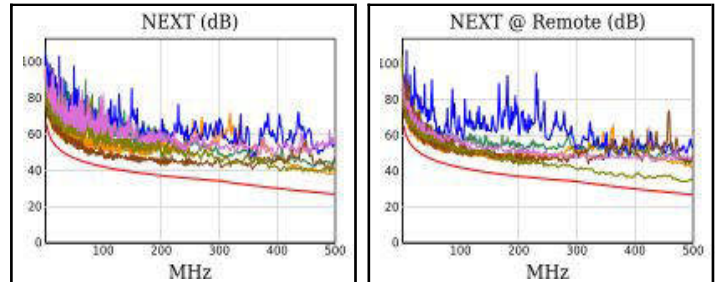


PASS

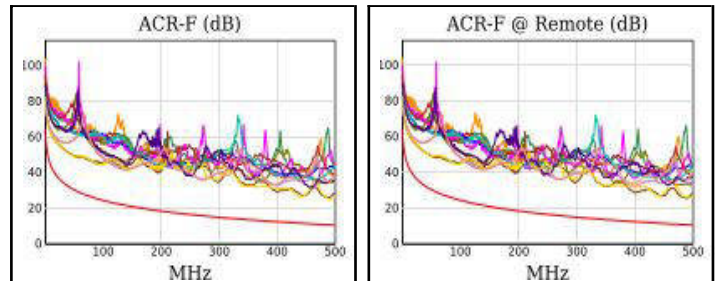


Worst Case Margin Worst Case Value

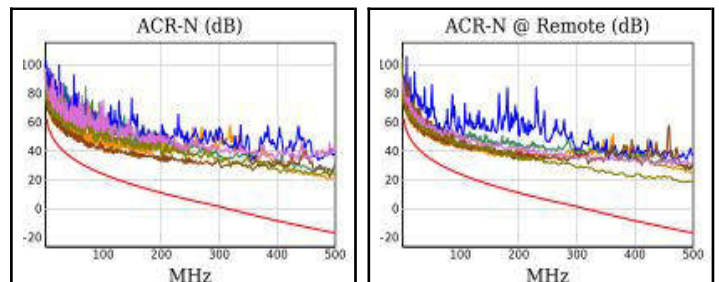
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	4.0	5.7	10.5	6.6
Freq. (MHz)	75.0	72.0	488.0	486.0
Limit (dB)	43.9	44.2	27.0	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.9	4.9	10.4	8.9
Freq. (MHz)	75.0	75.0	492.0	488.0
Limit (dB)	41.4	41.4	24.0	24.1



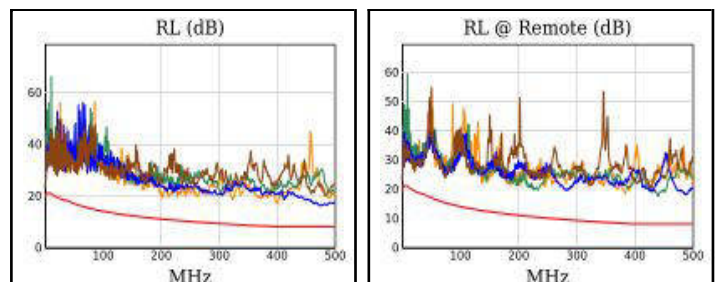
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	14.3	14.7	14.3	14.7
Freq. (MHz)	492.0	492.0	492.0	492.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.7	17.0	16.7	17.0
Freq. (MHz)	492.0	491.0	492.0	491.0
Limit (dB)	7.4	7.4	7.4	7.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.1	9.1	36.3	33.8
Freq. (MHz)	5.1	2.8	488.0	486.0
Limit (dB)	58.4	62.0	-16.1	-16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	8.6	36.2	35.6
Freq. (MHz)	5.3	5.1	492.0	500.0
Limit (dB)	55.9	56.1	-19.3	-20.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	3,6
RL (dB)	8.0	6.5	8.0	9.4
Freq. (MHz)	475.0	22.1	475.0	440.0
Limit (dB)	8.0	19.3	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



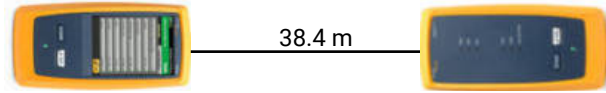
Cable ID: P2-R1-PP1-34

Test Summary: PASS

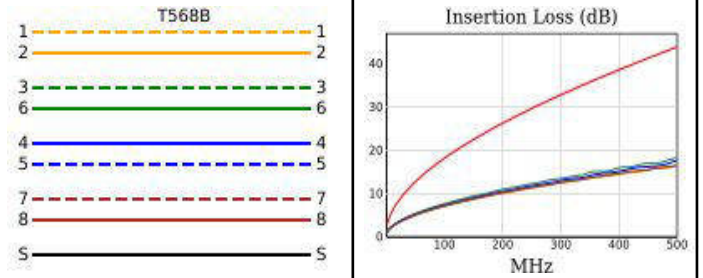
Date / Time: 04/14/2025 10:58:46 AM Operator: Capital Networks
 Headroom: 4.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	202
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 3,6]	6.6
Insertion Loss Margin (dB)	[Pair 3,6]	25.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

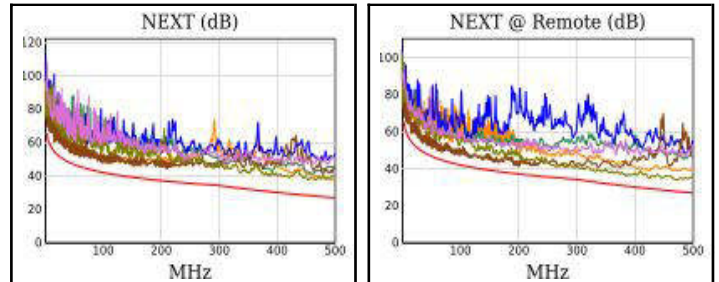


PASS

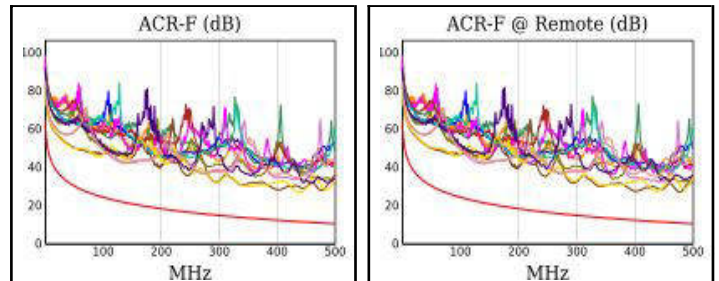


Worst Case Margin Worst Case Value

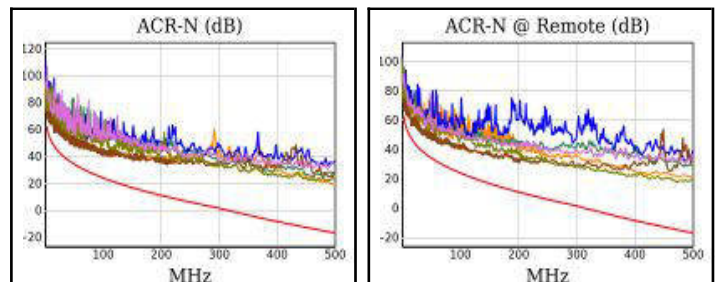
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.4	4.1	9.8	6.1
Freq. (MHz)	106.5	200.0	500.0	473.0
Limit (dB)	41.4	36.9	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	5.3	9.9	7.5
Freq. (MHz)	101.0	203.0	492.0	473.0
Limit (dB)	39.2	34.2	24.0	24.6



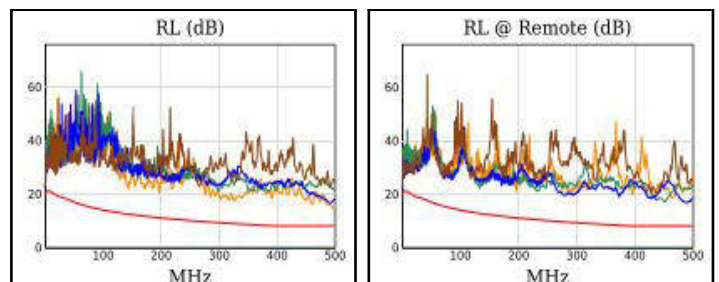
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.0	15.1	15.1	16.3
Freq. (MHz)	438.0	404.0	439.0	478.0
Limit (dB)	11.4	12.1	11.3	10.6
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	17.2	17.4	17.2	18.1
Freq. (MHz)	443.0	438.0	443.0	478.0
Limit (dB)	8.3	8.4	8.3	7.6



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.7	7.2	35.6	34.2
Freq. (MHz)	5.0	5.0	500.0	492.0
Limit (dB)	58.6	58.6	-17.1	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.3	8.5	35.3	34.2
Freq. (MHz)	5.1	5.0	492.0	492.0
Limit (dB)	56.1	56.3	-19.3	-19.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	4,5
RL (dB)	5.8	8.0	5.8	8.5
Freq. (MHz)	499.0	18.9	499.0	490.0
Limit (dB)	8.0	19.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



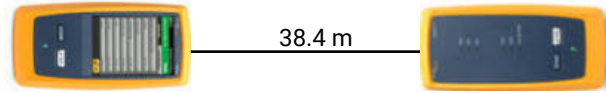
Cable ID: P2-R1-PP1-35

Test Summary: PASS

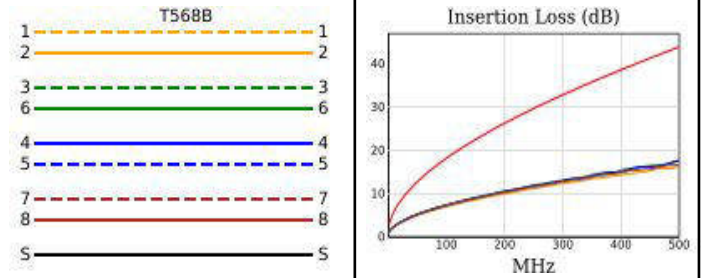
Date / Time: 04/14/2025 10:59:24 AM Operator: Capital Networks
 Headroom: 3.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	38.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	202
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.7
Insertion Loss Margin (dB)	[Pair 3,6]	26.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

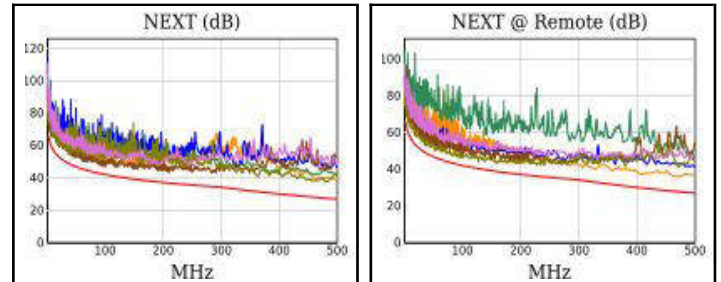


PASS

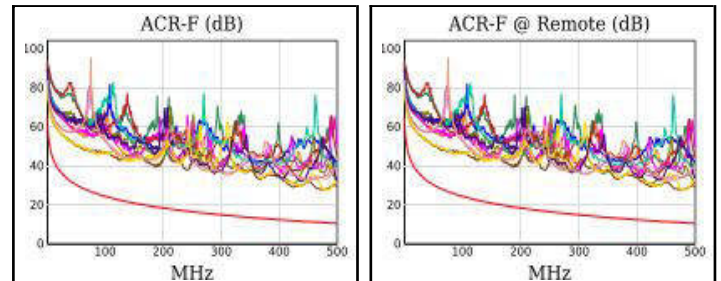


Worst Case Margin Worst Case Value

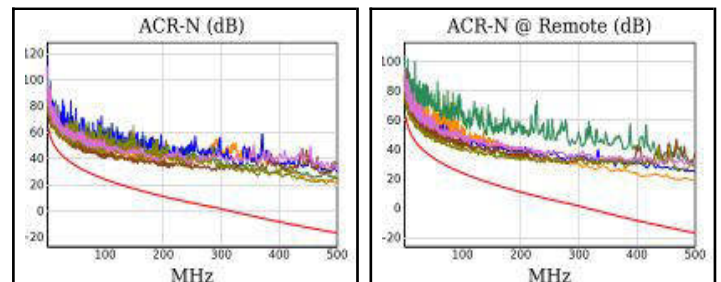
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	1,2-3,6
NEXT (dB)	4.6	3.6	10.1	7.9
Freq. (MHz)	63.0	53.3	483.0	470.0
Limit (dB)	45.1	46.3	27.1	27.5
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.9	4.2	10.0	9.7
Freq. (MHz)	22.0	38.5	465.0	470.0
Limit (dB)	50.0	46.1	24.8	24.7



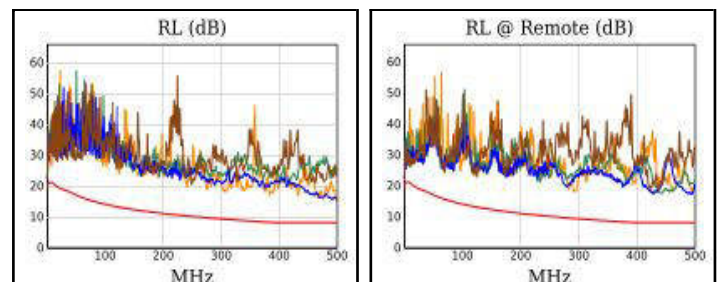
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	16.6	16.6	16.7	16.6
Freq. (MHz)	480.0	480.0	481.0	480.0
Limit (dB)	10.6	10.6	10.5	10.6
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	18.8	18.1	18.9	19.2
Freq. (MHz)	480.0	426.0	482.0	500.0
Limit (dB)	7.6	8.6	7.5	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	8.1	8.1	36.5	35.4
Freq. (MHz)	5.0	5.1	483.0	499.0
Limit (dB)	58.6	58.4	-15.7	-17.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.2	7.9	36.5	37.7
Freq. (MHz)	5.0	7.9	480.0	499.0
Limit (dB)	56.3	52.2	-18.4	-19.9



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	4,5
RL (dB)	6.7	7.5	6.7	8.8
Freq. (MHz)	500.0	18.9	500.0	493.0
Limit (dB)	8.0	19.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



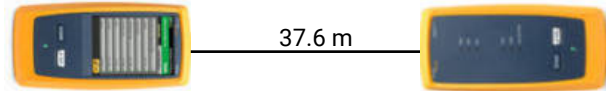
Cable ID: P2-R1-PP1-36

Test Summary: PASS

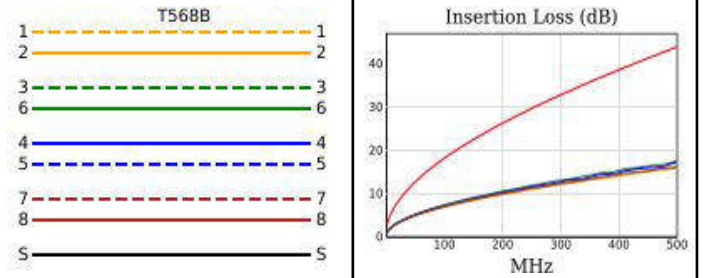
Date / Time: 04/14/2025 11:00:23 AM Operator: Capital Networks
 Headroom: 3.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	37.6
Prop. Delay (ns), Limit 498	[Pair 3,6]	198
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 3,6]	6.5
Insertion Loss Margin (dB)	[Pair 3,6]	26.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.0	3.9	9.1	7.1
Freq. (MHz)	61.8	61.8	497.0	484.0
Limit (dB)	45.2	45.2	26.7	27.1
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	6.7	5.4	9.2	9.1
Freq. (MHz)	61.8	61.8	496.0	485.0
Limit (dB)	42.7	42.7	23.9	24.2

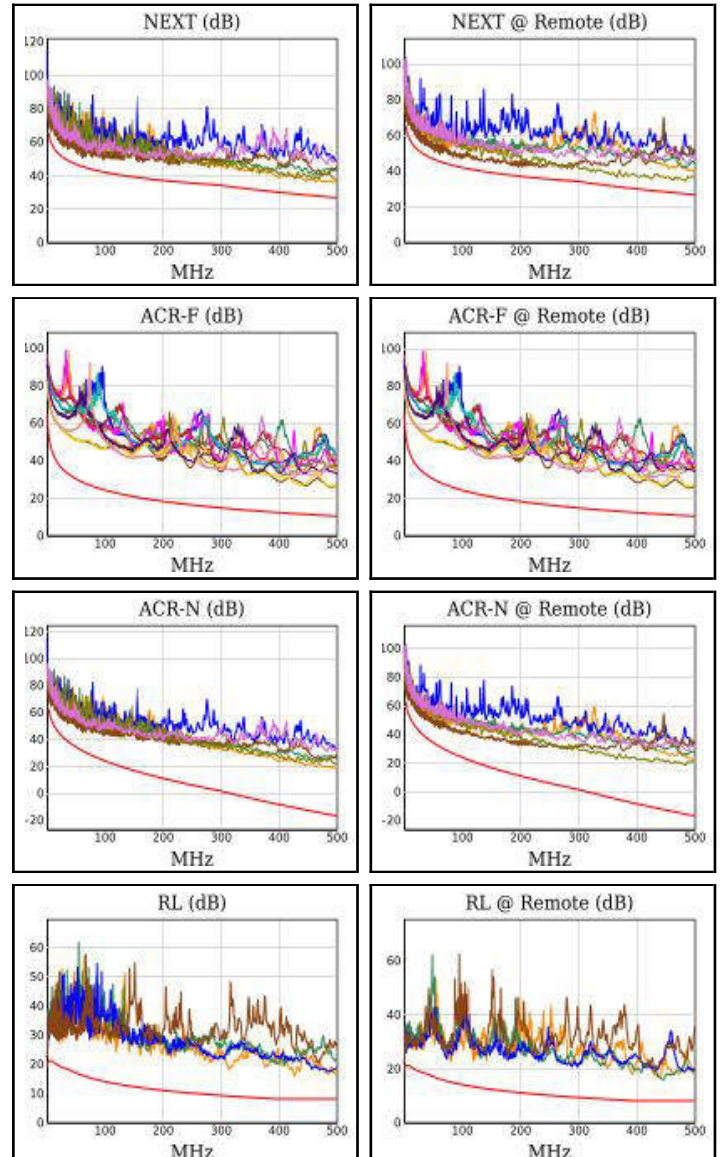
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.0	14.6	15.1	14.8
Freq. (MHz)	448.0	446.0	491.0	491.0
Limit (dB)	11.2	11.2	10.4	10.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.9	16.9	17.5	17.2
Freq. (MHz)	440.0	407.0	494.0	491.0
Limit (dB)	8.3	9.0	7.3	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.5	7.9	35.5	34.2
Freq. (MHz)	5.1	5.3	499.0	484.0
Limit (dB)	58.4	58.2	-17.0	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.6	8.7	35.6	35.2
Freq. (MHz)	5.3	5.3	499.0	485.0
Limit (dB)	55.9	55.9	-19.9	-18.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	7.6	7.5	7.6	7.6
Freq. (MHz)	427.0	20.4	427.0	445.0
Limit (dB)	8.0	19.5	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





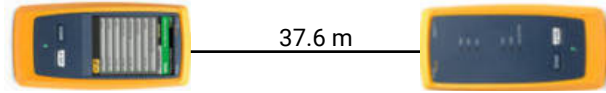
Cable ID: P2-R1-PP1-37

Test Summary: PASS

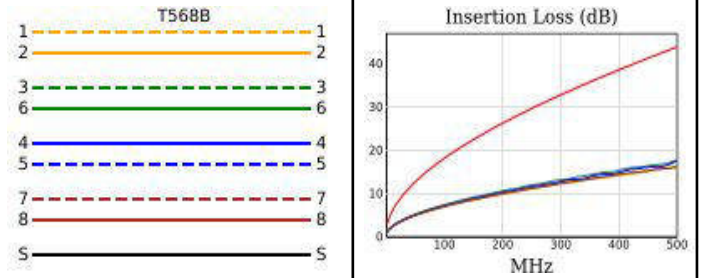
Date / Time: 04/14/2025 11:01:04 AM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	37.6
Prop. Delay (ns), Limit 498	[Pair 3,6]	198
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 3,6]	6.5
Insertion Loss Margin (dB)	[Pair 3,6]	26.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.3	4.0	11.1	7.5
Freq. (MHz)	112.0	151.5	499.0	484.0
Limit (dB)	41.0	38.9	26.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.2	4.9	10.8	9.8
Freq. (MHz)	5.4	151.5	481.0	484.0
Limit (dB)	59.8	36.3	24.3	24.2

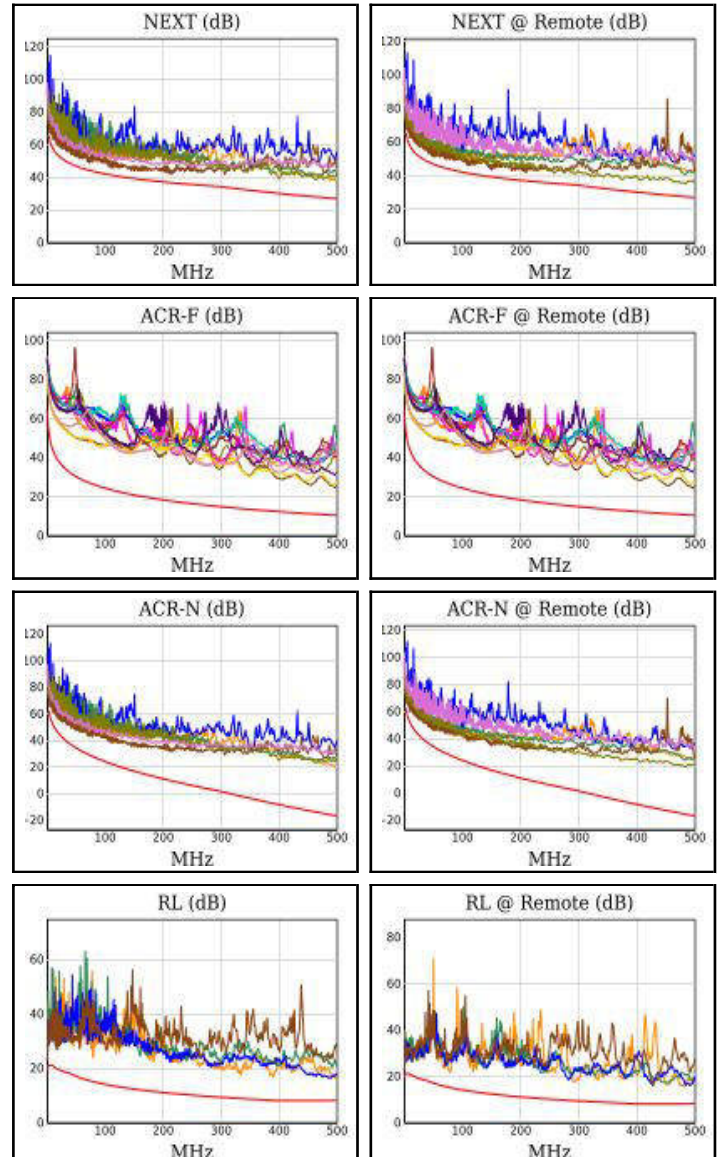
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.2	13.9	14.3	14.0
Freq. (MHz)	496.0	496.0	498.0	498.0
Limit (dB)	10.3	10.3	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.7	16.6	17.2	16.8
Freq. (MHz)	453.0	453.0	498.0	498.0
Limit (dB)	8.1	8.1	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.0	6.9	37.2	34.6
Freq. (MHz)	5.1	5.1	499.0	484.0
Limit (dB)	58.4	58.4	-17.0	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.7	7.3	37.7	36.6
Freq. (MHz)	5.4	5.3	499.0	499.0
Limit (dB)	55.7	55.9	-19.9	-19.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	1,2	1,2
RL (dB)	7.4	6.5	8.1	7.5
Freq. (MHz)	19.4	79.8	499.0	481.0
Limit (dB)	19.6	15.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





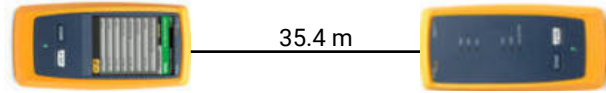
Cable ID: P2-R1-PP1-38

Test Summary: PASS

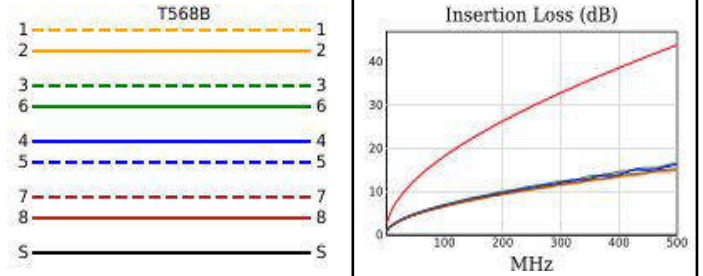
Date / Time: 04/14/2025 11:11:10 AM Operator: Capital Networks
 Headroom: 4.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	185
Delay Skew (ns), Limit 44	[Pair 3,6]	12
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.4	5.2	8.0	7.1
Freq. (MHz)	117.5	5.6	446.0	484.0
Limit (dB)	40.7	61.8	28.3	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.5	6.4	10.1	9.0
Freq. (MHz)	117.5	220.5	489.0	485.0
Limit (dB)	38.1	33.6	24.1	24.2

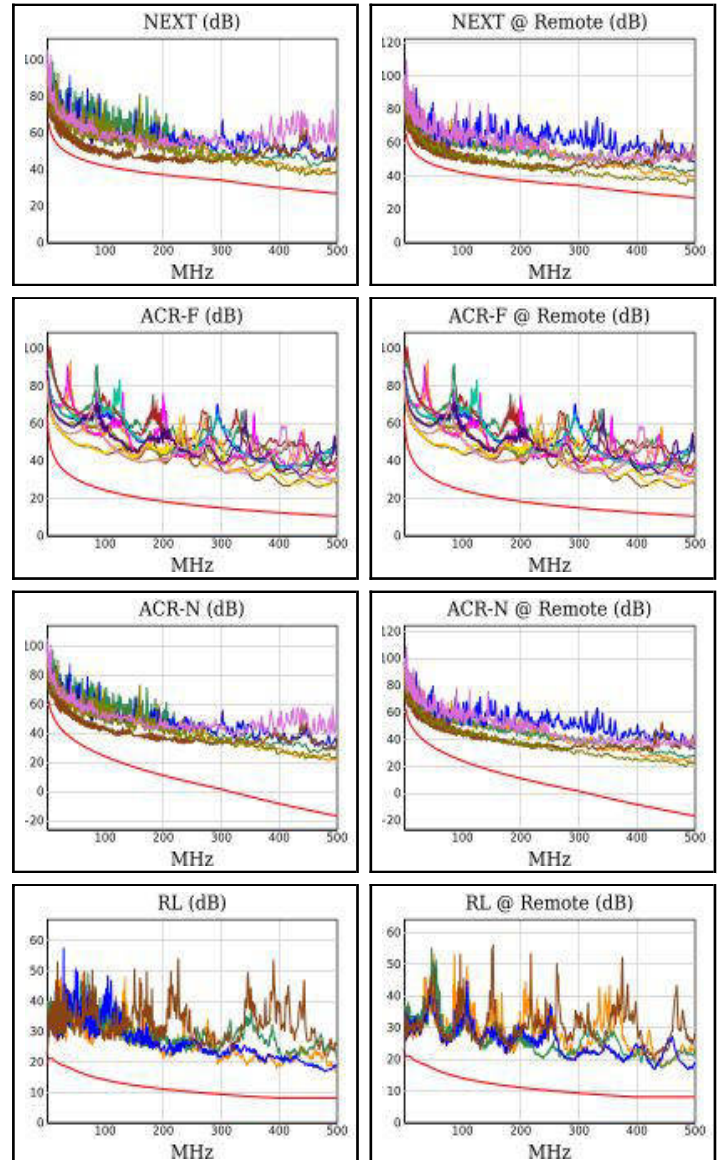
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.4	13.8	15.2	14.9
Freq. (MHz)	409.0	408.0	474.0	474.0
Limit (dB)	12.0	12.0	10.7	10.7
Worst Pair	4,5	3,6	4,5	4,5
PS ACR-F (dB)	17.2	15.7	17.4	16.9
Freq. (MHz)	464.0	413.0	474.0	482.0
Limit (dB)	7.9	8.9	7.7	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.4	7.7	36.7	35.1
Freq. (MHz)	3.0	2.9	486.0	484.0
Limit (dB)	61.9	62.0	-16.0	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.9	9.0	37.5	35.9
Freq. (MHz)	5.5	5.6	495.0	485.0
Limit (dB)	55.5	55.3	-19.6	-18.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	4,5
RL (dB)	7.7	8.5	7.7	8.5
Freq. (MHz)	500.0	66.0	500.0	432.0
Limit (dB)	8.0	15.8	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



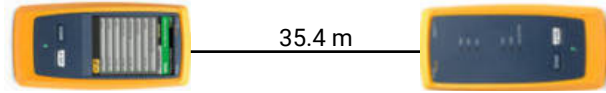


Cable ID: P2-R1-PP1-39

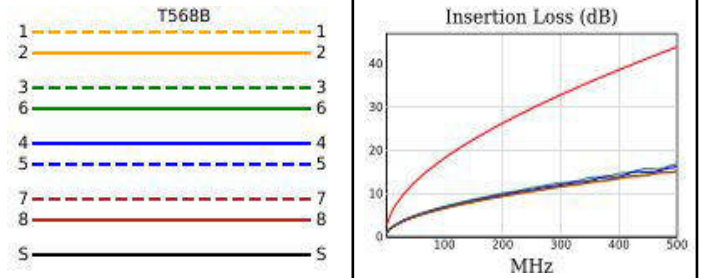
Date / Time: 04/14/2025 11:12:19 AM Operator: Capital Networks
 Headroom: 5.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	35.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	186
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	6.4	5.9	10.6	7.9
Freq. (MHz)	3.0	57.0	500.0	468.0
Limit (dB)	65.0	45.8	26.7	27.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.6	6.4	9.8	9.6
Freq. (MHz)	5.6	130.0	473.0	468.0
Limit (dB)	59.5	37.4	24.6	24.7

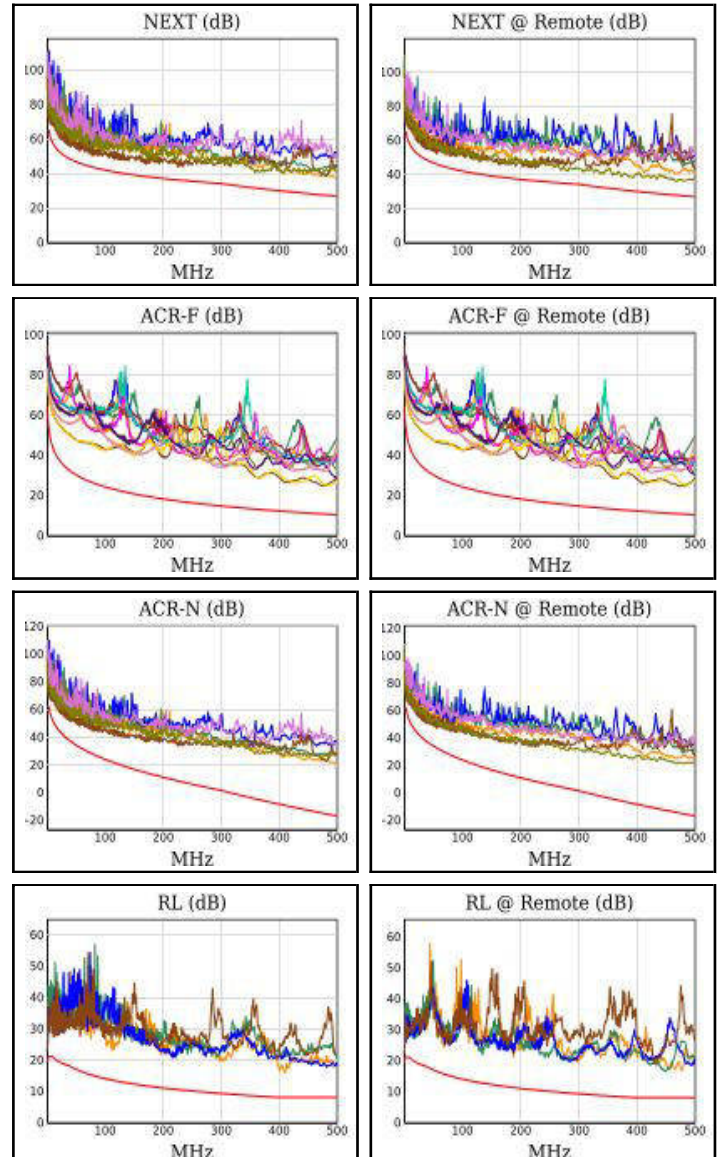
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.0	13.7	14.2	13.8
Freq. (MHz)	474.0	474.0	487.0	477.0
Limit (dB)	10.7	10.7	10.4	10.6
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	16.1	15.7	16.3	16.6
Freq. (MHz)	474.0	412.0	490.0	483.0
Limit (dB)	7.7	8.9	7.4	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.3	8.4	37.7	35.3
Freq. (MHz)	2.8	3.0	500.0	468.0
Limit (dB)	62.0	61.9	-17.1	-14.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.8	9.6	38.4	37.9
Freq. (MHz)	3.0	5.8	500.0	497.0
Limit (dB)	58.9	55.1	-20.0	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	1,2	3,6
RL (dB)	7.6	7.9	7.6	8.4
Freq. (MHz)	411.0	20.6	411.0	450.0
Limit (dB)	8.0	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





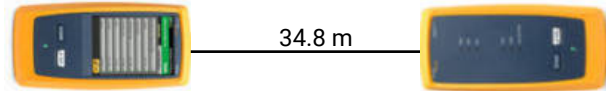
Cable ID: P2-R1-PP1-40

Test Summary: PASS

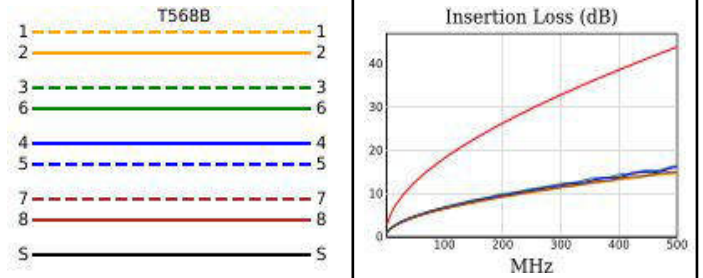
Date / Time: 04/14/2025 11:07:55 AM Operator: Capital Networks
 Headroom: 4.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	34.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	183
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	27.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.1	4.8	8.1	5.7
Freq. (MHz)	95.0	5.6	459.0	485.0
Limit (dB)	42.2	61.8	27.9	27.1
Worst Pair	3,6	3,6	3,6	7,8
PS NEXT (dB)	5.7	5.5	9.3	8.0
Freq. (MHz)	95.0	88.8	483.0	485.0
Limit (dB)	39.7	40.2	24.3	24.2

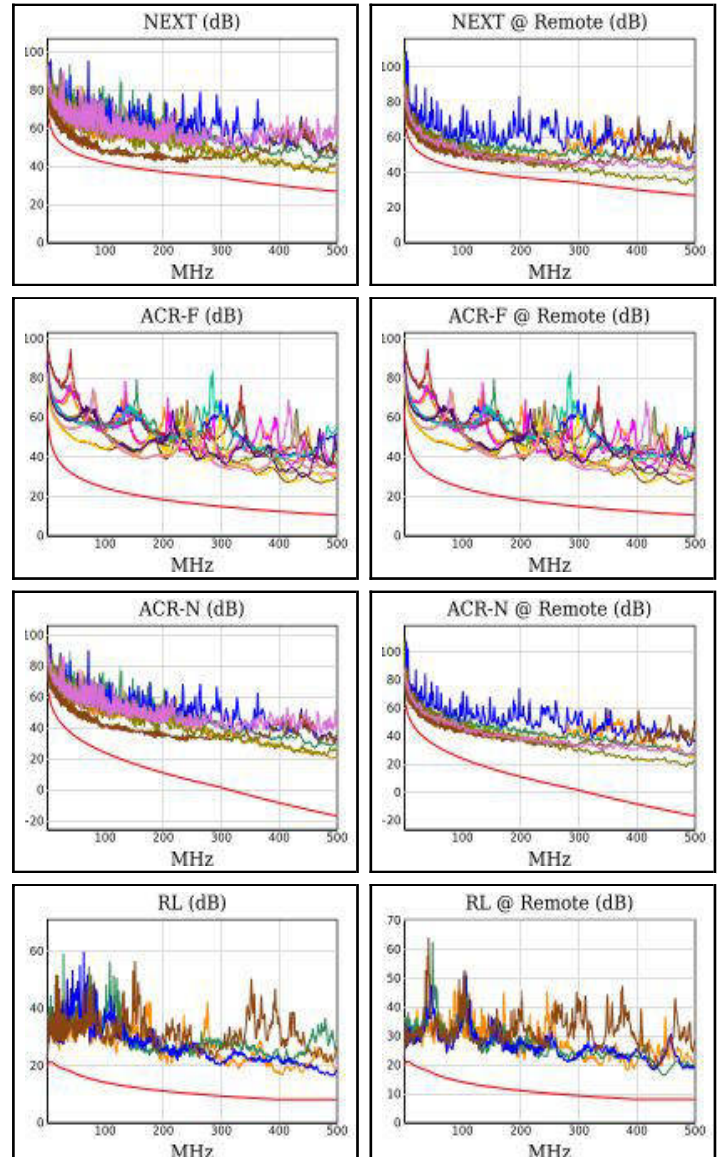
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.1	14.8	15.6	15.2
Freq. (MHz)	418.0	416.0	472.0	472.0
Limit (dB)	11.8	11.8	10.7	10.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.1	16.3	17.1	16.4
Freq. (MHz)	433.0	418.0	433.0	419.0
Limit (dB)	8.5	8.8	8.5	8.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.6	7.5	36.6	33.9
Freq. (MHz)	5.6	5.6	493.0	485.0
Limit (dB)	57.6	57.6	-16.5	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.7	8.3	36.4	35.3
Freq. (MHz)	5.8	5.8	483.0	485.0
Limit (dB)	55.1	55.1	-18.6	-18.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	3,6
RL (dB)	8.2	7.5	8.2	8.1
Freq. (MHz)	492.0	31.5	492.0	448.0
Limit (dB)	8.0	18.5	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





Cable ID: P2-R1-PP1-41

Date / Time: 04/14/2025 11:08:29 AM Operator: Capital Networks
 Headroom: 4.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	35.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	183
Delay Skew (ns), Limit 44	[Pair 3,6]	12
Resistance (ohms)	[Pair 4,5]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	27.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.4	5.4	8.5	7.4
Freq. (MHz)	181.0	5.6	466.0	475.0
Limit (dB)	37.6	61.8	27.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.2	6.1	9.6	8.6
Freq. (MHz)	5.6	119.5	465.0	475.0
Limit (dB)	59.5	38.0	24.8	24.5

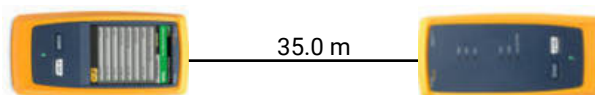
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	15.0	14.3	15.1	15.5
Freq. (MHz)	412.0	409.0	489.0	489.0
Limit (dB)	11.9	12.0	10.4	10.4
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	17.3	16.1	17.3	17.4
Freq. (MHz)	489.0	418.0	489.0	489.0
Limit (dB)	7.4	8.8	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	8.1	37.6	35.3
Freq. (MHz)	2.9	5.6	499.0	475.0
Limit (dB)	62.0	57.6	-17.0	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	9.0	38.1	36.5
Freq. (MHz)	5.8	5.8	493.0	488.0
Limit (dB)	55.1	55.1	-19.4	-19.0

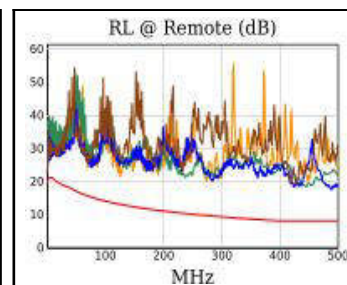
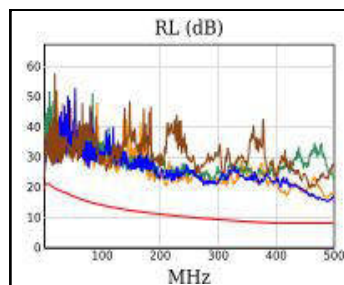
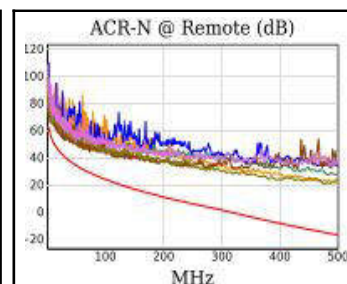
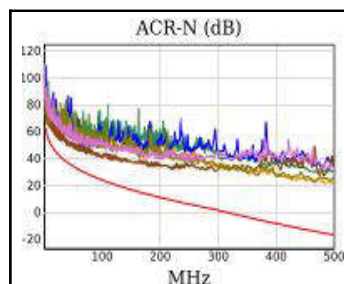
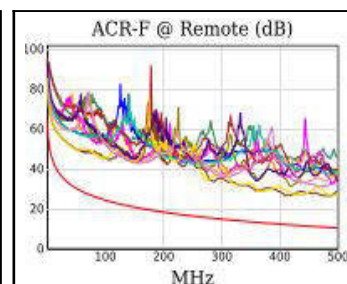
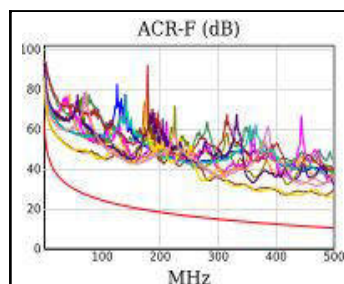
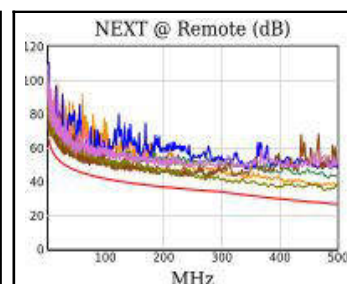
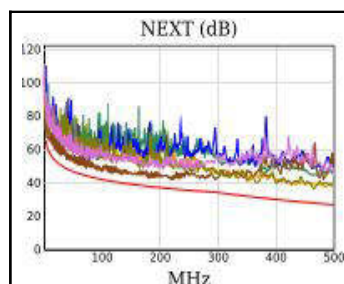
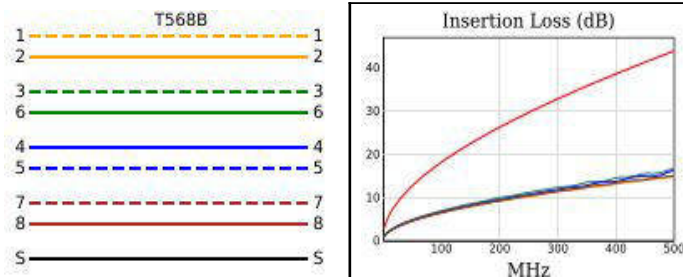
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	4,5
RL (dB)	7.1	8.3	7.1	9.1
Freq. (MHz)	490.0	126.5	490.0	489.0
Limit (dB)	8.0	13.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS





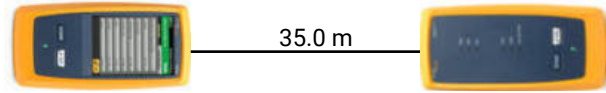
Cable ID: P2-R1-PP1-42

Test Summary: PASS

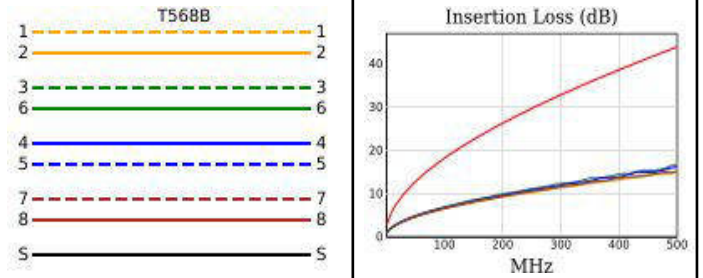
Date / Time: 04/14/2025 11:17:44 AM Operator: Capital Networks
 Headroom: 3.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	184
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.3	4.3	10.5	8.0
Freq. (MHz)	121.5	57.5	496.0	478.0
Limit (dB)	40.5	45.7	26.8	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.8	5.0	10.8	10.1
Freq. (MHz)	121.5	5.6	496.0	478.0
Limit (dB)	37.9	59.5	23.9	24.4

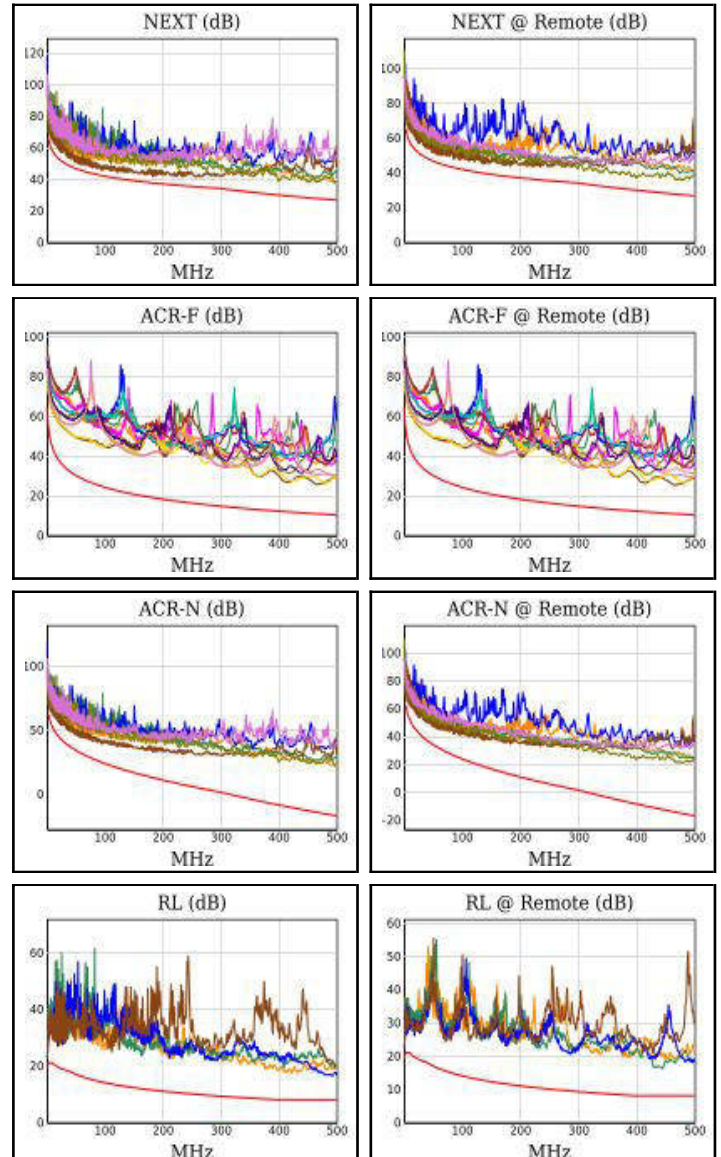
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.7	14.4	14.7	14.4
Freq. (MHz)	465.0	466.0	465.0	466.0
Limit (dB)	10.8	10.8	10.8	10.8
Worst Pair	4,5	3,6	4,5	4,5
PS ACR-F (dB)	16.9	16.0	16.9	17.1
Freq. (MHz)	465.0	415.0	465.0	486.0
Limit (dB)	7.8	8.8	7.8	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.2	7.4	38.4	35.8
Freq. (MHz)	3.0	2.9	496.0	478.0
Limit (dB)	61.9	62.0	-16.8	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.6	7.7	37.9	37.0
Freq. (MHz)	5.8	5.8	496.0	478.0
Limit (dB)	55.1	55.1	-19.7	-18.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	3,6
RL (dB)	8.3	8.0	8.3	8.1
Freq. (MHz)	492.0	27.5	492.0	445.0
Limit (dB)	8.0	18.8	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





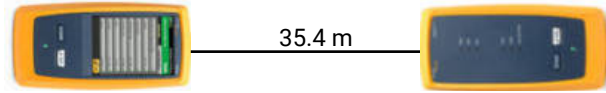
Cable ID: P2-R1-PP1-43

Test Summary: PASS

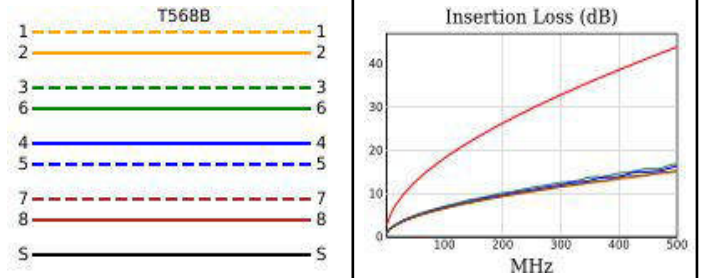
Date / Time: 04/14/2025 11:16:33 AM Operator: Capital Networks
 Headroom: 2.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	186
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	2.6	9.9	6.7
Freq. (MHz)	66.3	66.3	500.0	474.0
Limit (dB)	44.7	44.7	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.1	4.0	9.6	8.6
Freq. (MHz)	5.8	130.0	471.0	474.0
Limit (dB)	59.3	37.4	24.7	24.6

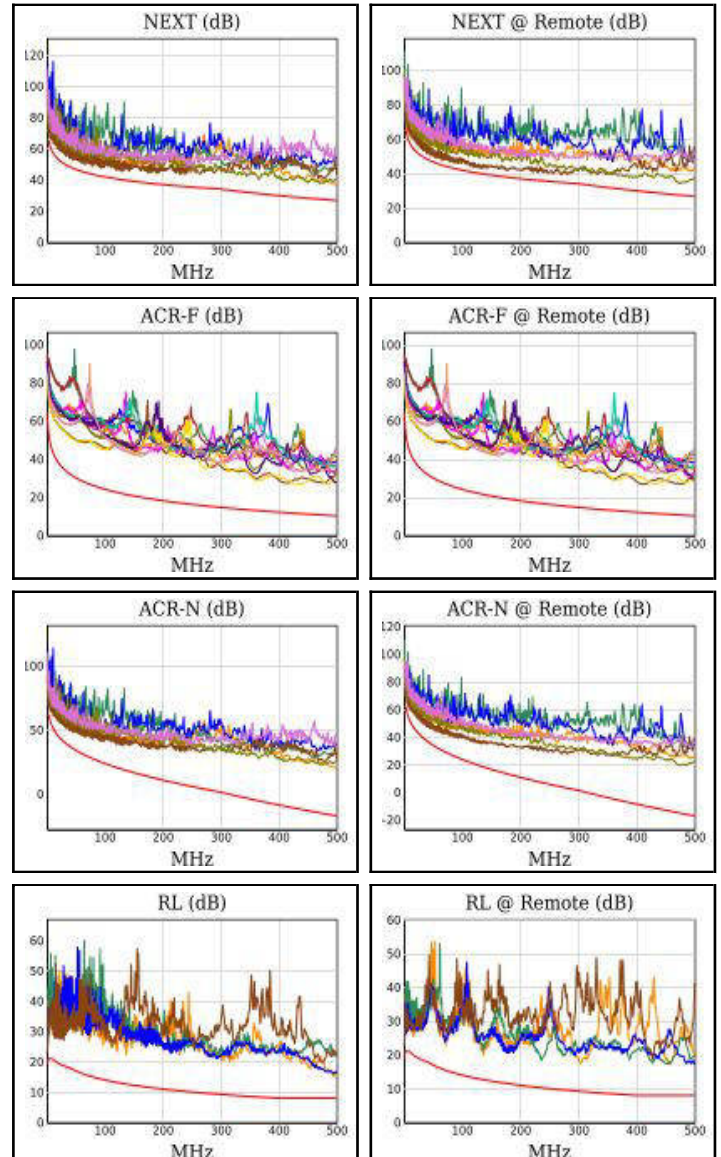
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.2	14.8	15.3	14.8
Freq. (MHz)	433.0	412.0	436.0	412.0
Limit (dB)	11.5	11.9	11.4	11.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.9	16.7	17.7	18.0
Freq. (MHz)	360.0	415.0	497.0	482.0
Limit (dB)	10.1	8.8	7.3	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.4	6.2	37.0	34.3
Freq. (MHz)	5.6	5.5	500.0	474.0
Limit (dB)	57.6	57.8	-17.1	-15.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.7	6.6	37.9	36.1
Freq. (MHz)	5.8	5.6	500.0	487.0
Limit (dB)	55.1	55.3	-20.0	-18.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.2	7.2	7.2	9.0
Freq. (MHz)	495.0	136.5	495.0	458.0
Limit (dB)	8.0	12.6	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





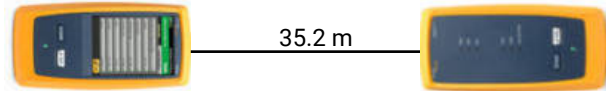
Cable ID: P2-R1-PP1-44

Test Summary: PASS

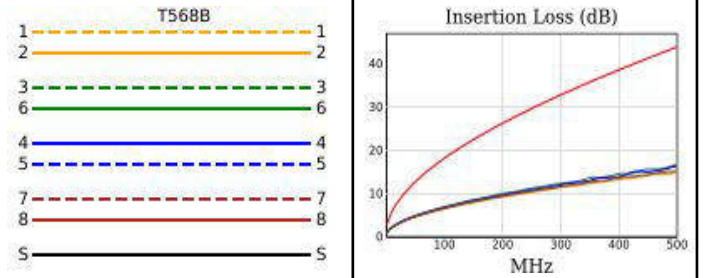
Date / Time: 04/14/2025 11:18:34 AM Operator: Capital Networks
 Headroom: 2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	185
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	2.0	4.4	9.6	7.3
Freq. (MHz)	63.3	45.3	500.0	475.0
Limit (dB)	45.1	47.4	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.1	5.4	9.7	9.3
Freq. (MHz)	48.5	48.5	466.0	475.0
Limit (dB)	44.4	44.4	24.8	24.5

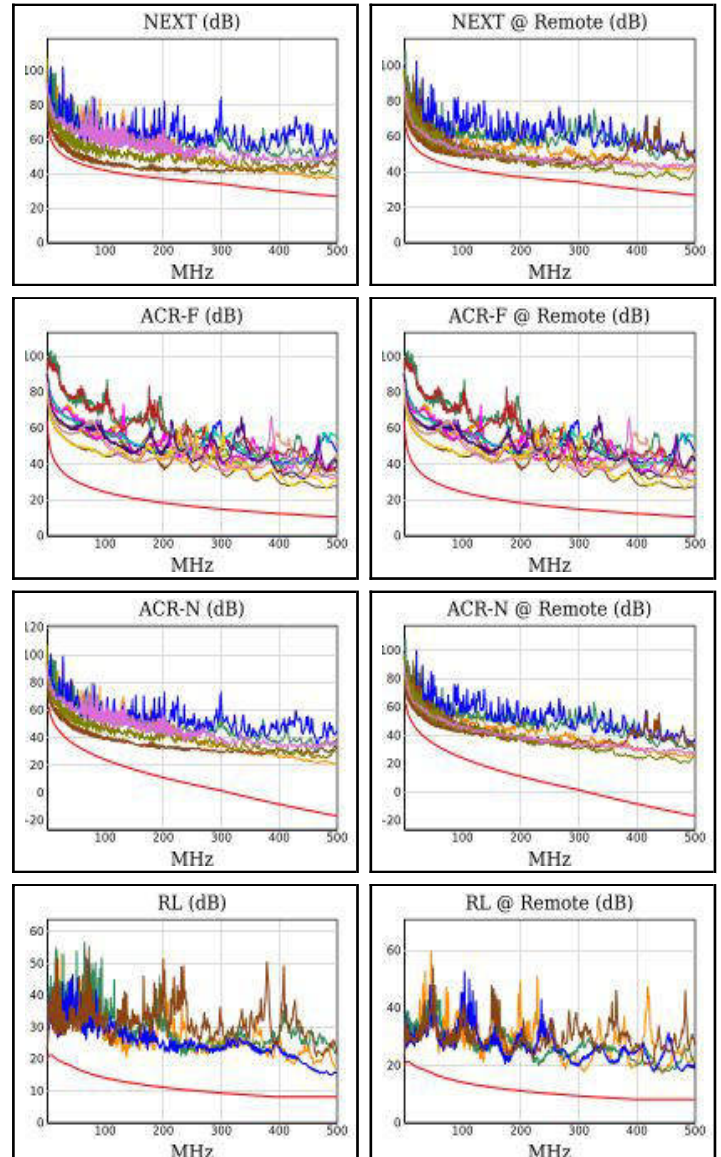
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.6	15.5	15.8	15.5
Freq. (MHz)	417.0	479.0	479.0	479.0
Limit (dB)	11.8	10.6	10.6	10.6
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.9	17.1	18.0	17.4
Freq. (MHz)	479.0	420.0	483.0	479.0
Limit (dB)	7.6	8.7	7.5	7.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.6	6.8	36.9	34.9
Freq. (MHz)	2.9	3.0	500.0	475.0
Limit (dB)	62.0	61.9	-17.1	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.9	8.4	38.9	36.8
Freq. (MHz)	5.6	5.8	500.0	488.0
Limit (dB)	55.3	55.1	-20.0	-19.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	1,2
RL (dB)	6.8	7.8	6.8	8.7
Freq. (MHz)	492.0	60.3	492.0	444.0
Limit (dB)	8.0	16.2	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





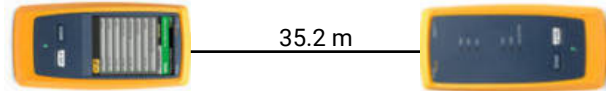
Cable ID: P2-R1-PP1-45

Test Summary: PASS

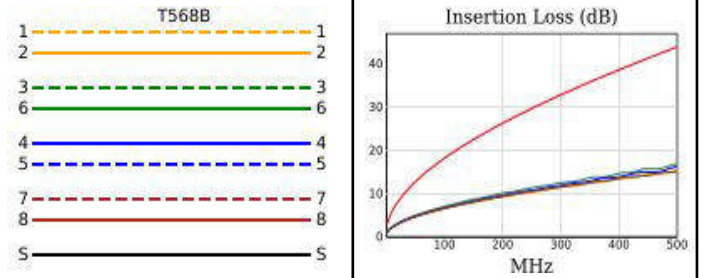
Date / Time: 04/14/2025 11:19:52 AM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	184
Delay Skew (ns), Limit 44	[Pair 3,6]	12
Resistance (ohms)	[Pair 4,5]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	27.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

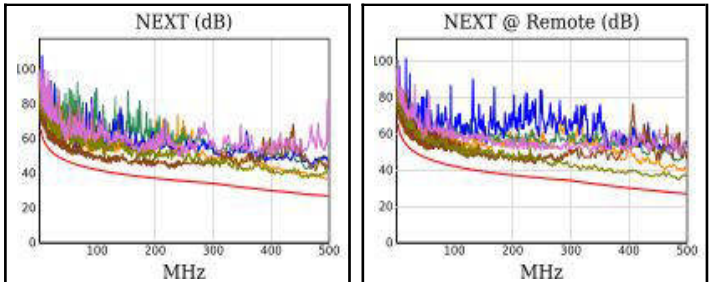


PASS

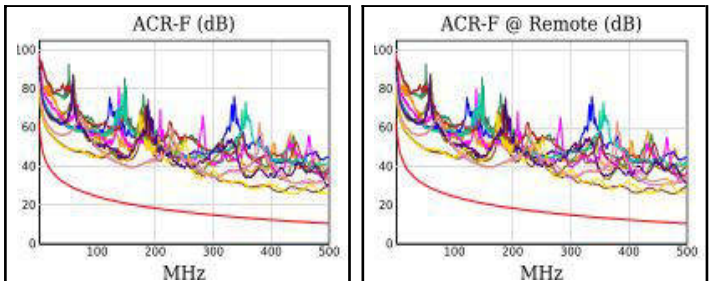


Worst Case Margin Worst Case Value

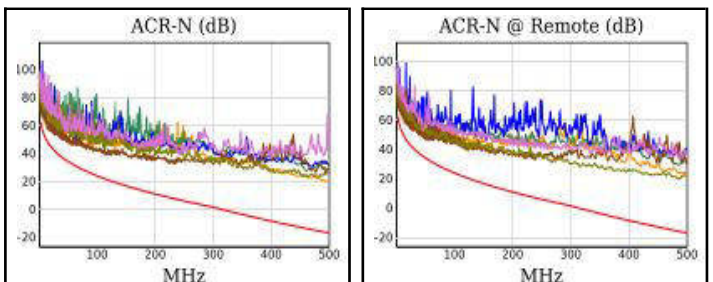
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	4.6	9.5	7.1
Freq. (MHz)	57.8	51.5	496.0	486.0
Limit (dB)	45.7	46.5	26.8	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.1	5.6	10.1	9.0
Freq. (MHz)	15.3	54.8	495.0	486.0
Limit (dB)	52.6	43.6	23.9	24.2



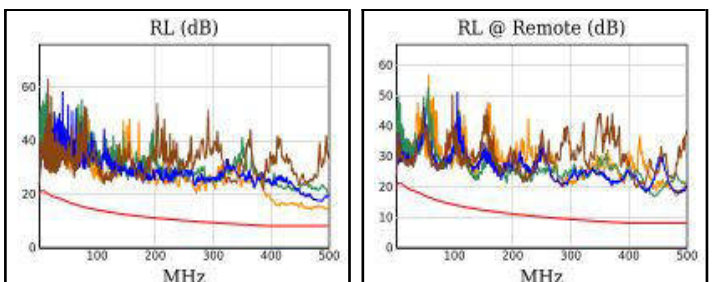
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.7	14.0	13.7	15.0
Freq. (MHz)	437.0	409.0	437.0	473.0
Limit (dB)	11.4	12.0	11.4	10.7
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.3	15.9	16.8	16.0
Freq. (MHz)	437.0	418.0	494.0	437.0
Limit (dB)	8.4	8.8	7.3	8.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.8	7.2	36.6	35.4
Freq. (MHz)	2.9	3.0	497.0	486.0
Limit (dB)	62.0	61.9	-16.9	-16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.8	8.8	37.0	35.7
Freq. (MHz)	2.9	5.8	495.0	486.0
Limit (dB)	59.0	55.1	-19.6	-18.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	3,6
RL (dB)	5.9	7.9	5.9	8.6
Freq. (MHz)	498.0	30.0	498.0	446.0
Limit (dB)	8.0	18.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



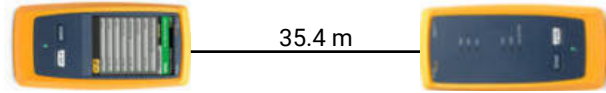
Cable ID: P2-R1-PP1-46

Test Summary: PASS

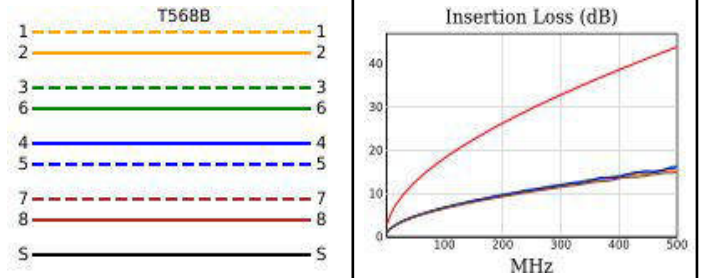
Date / Time: 04/14/2025 11:20:19 AM Operator: Capital Networks
 Headroom: 3.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	184
Delay Skew (ns), Limit 44	[Pair 3,6]	11
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.1	3.7	8.8	7.8
Freq. (MHz)	57.5	54.5	458.0	477.0
Limit (dB)	45.7	46.1	27.9	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.7	5.0	10.2	8.6
Freq. (MHz)	21.4	54.8	492.0	470.0
Limit (dB)	50.2	43.6	24.0	24.7

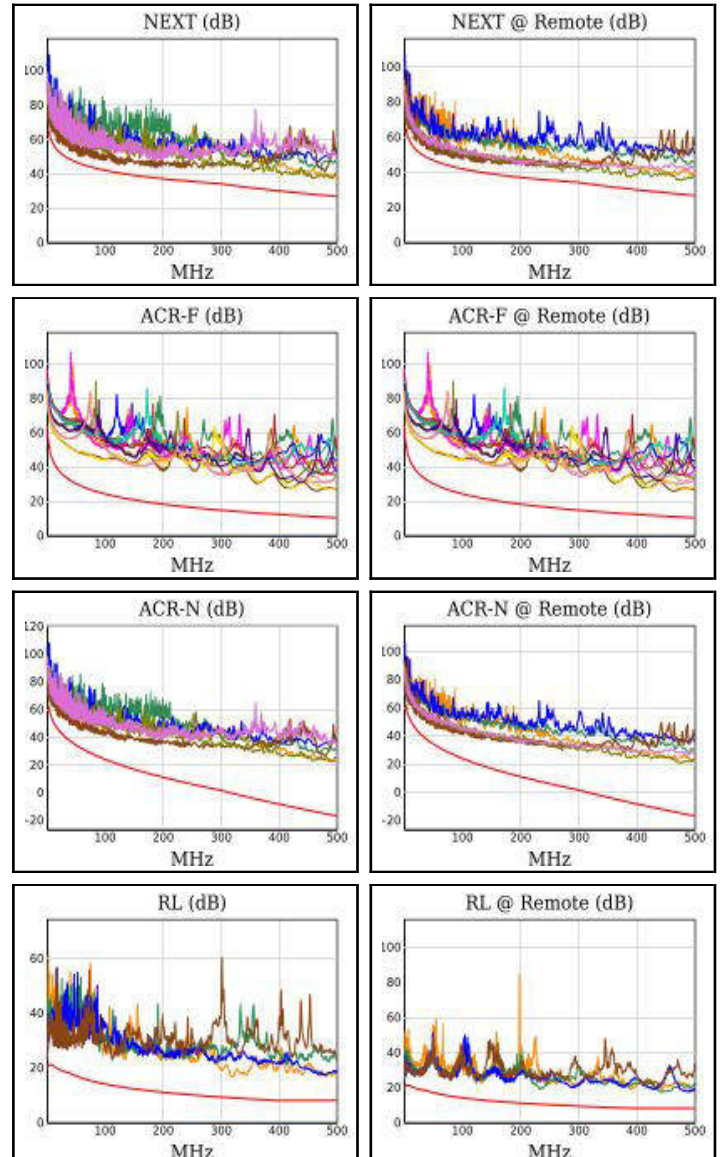
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.1	14.9	15.1	15.0
Freq. (MHz)	467.0	464.0	467.0	467.0
Limit (dB)	10.8	10.9	10.8	10.8
Worst Pair	4,5	3,6	4,5	4,5
PS ACR-F (dB)	17.1	16.8	17.1	17.3
Freq. (MHz)	469.0	417.0	469.0	478.0
Limit (dB)	7.8	8.8	7.8	7.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.8	6.5	38.3	35.7
Freq. (MHz)	2.9	2.9	498.0	477.0
Limit (dB)	62.0	62.0	-16.9	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.4	7.9	37.4	37.1
Freq. (MHz)	5.8	5.8	492.0	492.0
Limit (dB)	55.1	55.1	-19.3	-19.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	3,6
RL (dB)	7.4	7.8	7.4	9.1
Freq. (MHz)	320.0	26.9	320.0	444.0
Limit (dB)	8.9	18.9	8.9	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



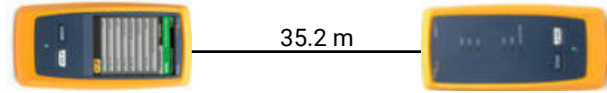


Cable ID: P2-R1-PP1-47

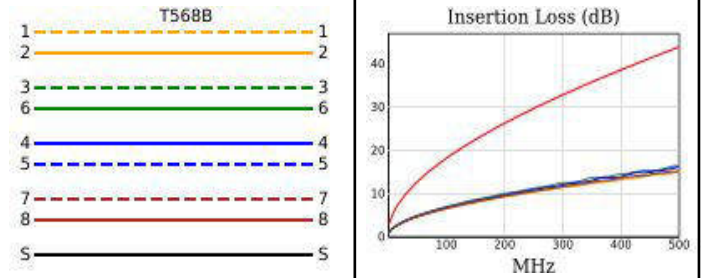
Date / Time: 04/14/2025 11:34:43 AM Operator: Capital Networks
 Headroom: 5.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	35.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	185
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	27.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.4	5.2	9.7	6.6
Freq. (MHz)	54.0	317.0	494.0	479.0
Limit (dB)	46.2	33.2	26.8	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.9	5.6	9.6	7.2
Freq. (MHz)	123.5	317.0	494.0	481.0
Limit (dB)	37.8	30.6	23.9	24.3

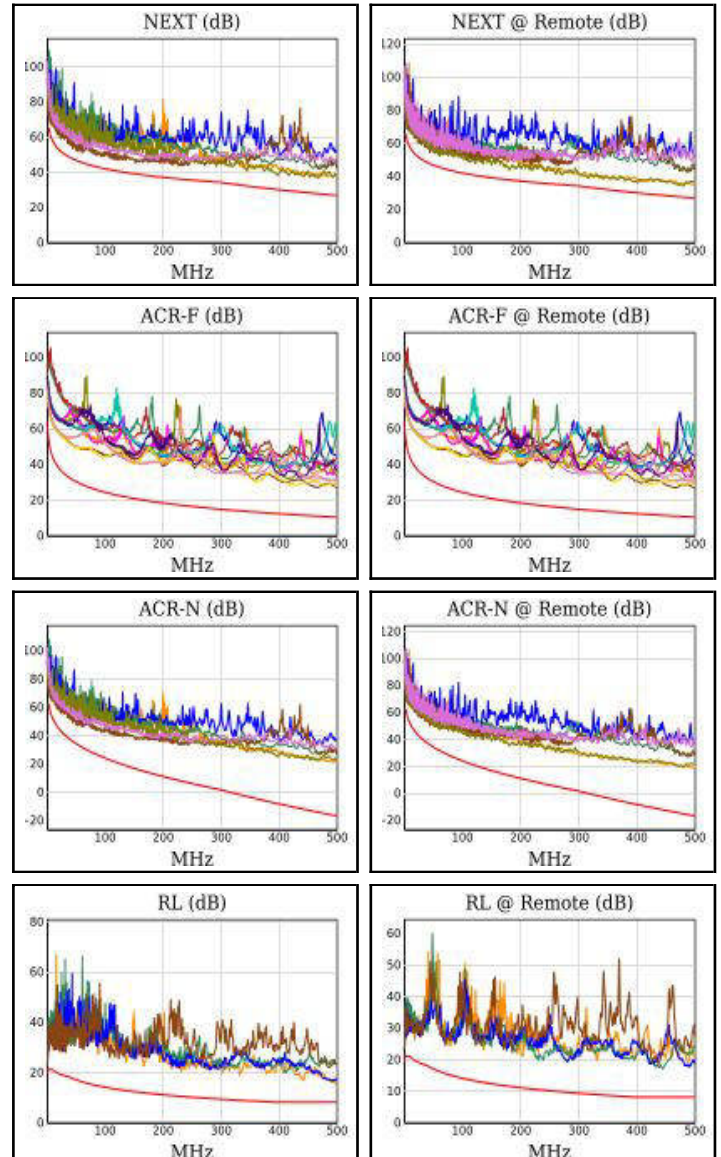
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.1	15.9	16.3	16.1
Freq. (MHz)	467.0	467.0	500.0	500.0
Limit (dB)	10.8	10.8	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.9	17.8	18.0	17.8
Freq. (MHz)	467.0	500.0	500.0	500.0
Limit (dB)	7.8	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	8.8	9.3	36.8	35.2
Freq. (MHz)	5.5	5.5	494.0	497.0
Limit (dB)	57.8	57.8	-16.6	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.8	10.1	36.7	34.0
Freq. (MHz)	5.5	5.6	494.0	481.0
Limit (dB)	55.5	55.3	-19.5	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	6.6	8.1	6.6	8.9
Freq. (MHz)	500.0	28.1	500.0	445.0
Limit (dB)	8.0	18.8	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





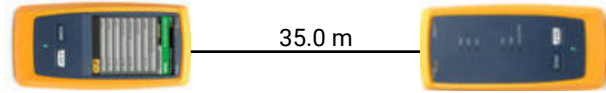
Cable ID: P2-R1-PP1-48

Test Summary: PASS

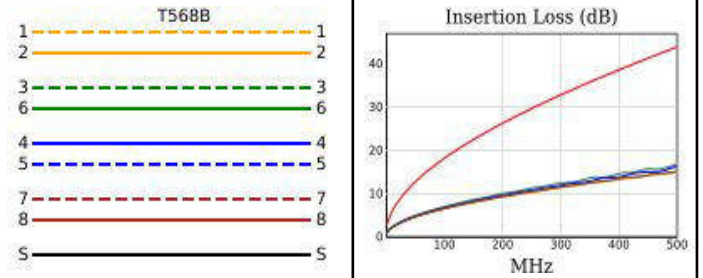
Date / Time: 04/14/2025 11:28:23 AM Operator: Capital Networks
 Headroom: 2.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	35.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	184
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	27.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	2.9	3.8	8.6	8.6
Freq. (MHz)	91.5	39.5	477.0	480.0
Limit (dB)	42.5	48.3	27.3	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.3	5.2	9.0	9.1
Freq. (MHz)	91.5	5.9	478.0	467.0
Limit (dB)	39.9	59.2	24.4	24.8

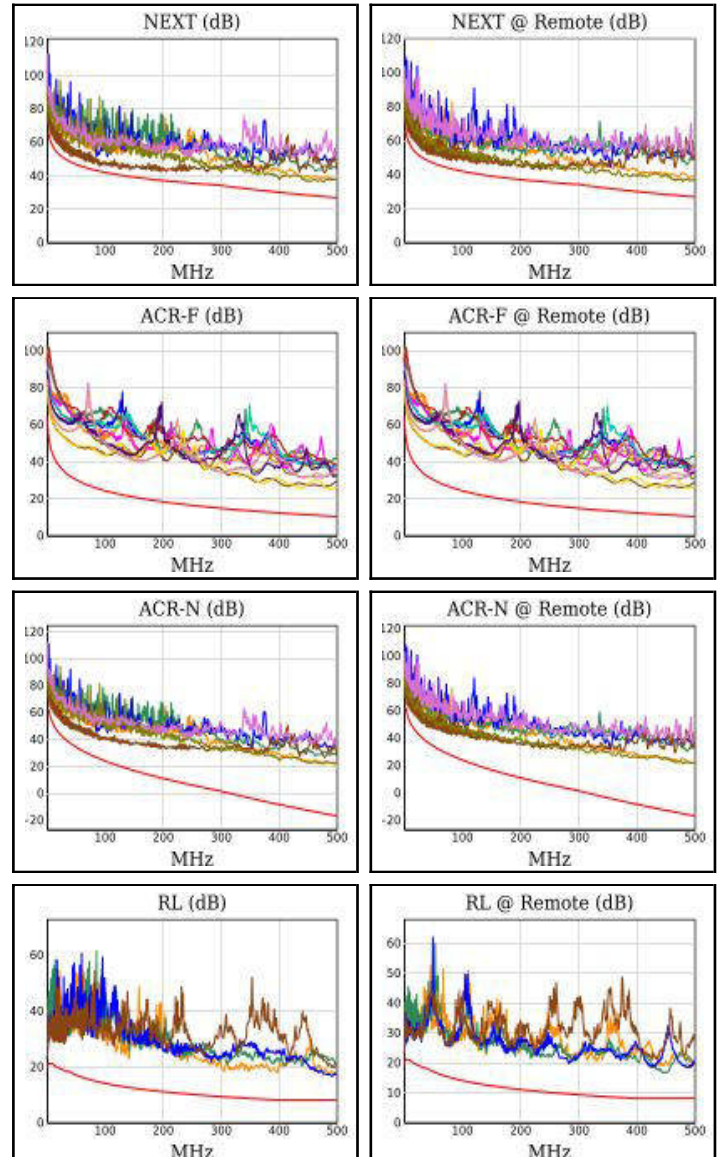
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	14.0	14.1	14.6	15.1
Freq. (MHz)	440.0	414.0	493.0	493.0
Limit (dB)	11.3	11.8	10.3	10.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.4	15.7	16.4	16.9
Freq. (MHz)	493.0	414.0	493.0	488.0
Limit (dB)	7.3	8.8	7.3	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.7	6.6	38.0	37.5
Freq. (MHz)	5.6	5.6	500.0	492.0
Limit (dB)	57.6	57.6	-17.1	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.0	7.9	37.3	37.4
Freq. (MHz)	5.6	5.9	500.0	498.0
Limit (dB)	55.3	54.9	-20.0	-19.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	3,6
RL (dB)	8.3	8.3	8.3	8.4
Freq. (MHz)	500.0	30.3	500.0	446.0
Limit (dB)	8.0	18.6	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





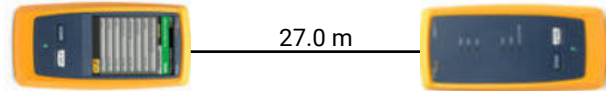
Cable ID: P2-R1-PP1-P24

Test Summary: PASS

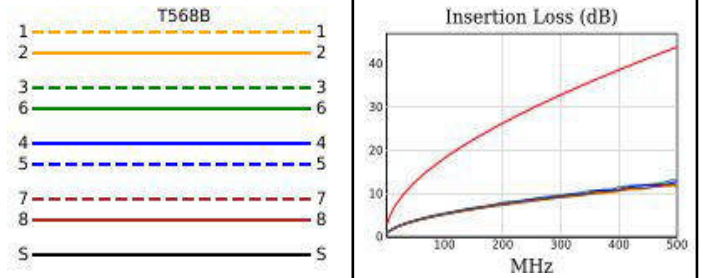
Date / Time: 04/14/2025 03:28:45 PM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	27.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	140
Delay Skew (ns), Limit 44	[Pair 3,6]	8
Resistance (ohms)	[Pair 4,5]	4.9
Insertion Loss Margin (dB)	[Pair 3,6]	30.4
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	3,6-7,8	3,6-7,8
NEXT (dB)	5.3	4.7	6.7	5.5
Freq. (MHz)	272.0	25.5	486.0	465.0
Limit (dB)	34.7	51.4	27.1	27.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.7	5.3	8.3	7.8
Freq. (MHz)	37.5	183.0	483.0	465.0
Limit (dB)	46.3	35.0	24.3	24.8

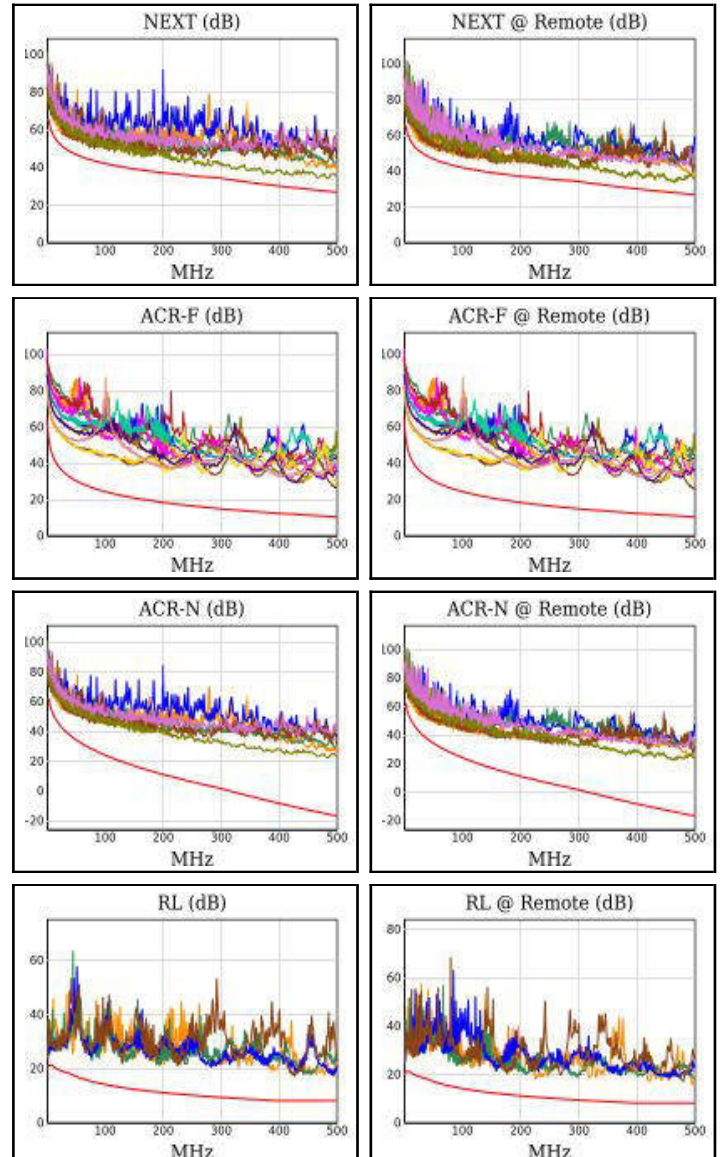
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.6	15.1	15.6	15.2
Freq. (MHz)	500.0	496.0	500.0	500.0
Limit (dB)	10.2	10.3	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.7	17.7	18.3	17.7
Freq. (MHz)	1.4	500.0	500.0	500.0
Limit (dB)	58.4	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	8.5	8.8	37.9	35.9
Freq. (MHz)	3.8	3.6	486.0	465.0
Limit (dB)	61.1	61.4	-16.0	-14.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.2	8.4	38.7	39.6
Freq. (MHz)	3.8	3.9	486.0	498.0
Limit (dB)	58.6	58.5	-18.8	-19.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	1,2	1,2
RL (dB)	7.7	7.4	8.7	7.4
Freq. (MHz)	77.8	496.0	495.0	496.0
Limit (dB)	15.1	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





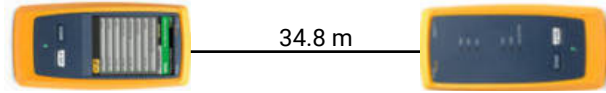
Cable ID: P2-R1-PP2-49

Test Summary: PASS

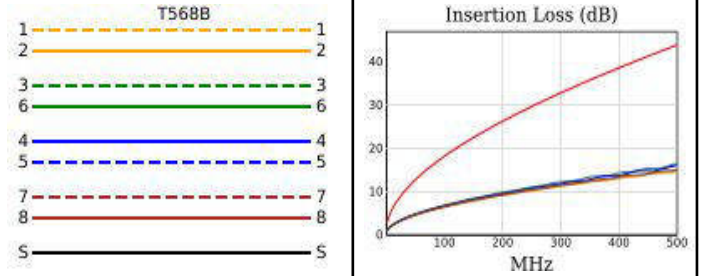
Date / Time: 04/14/2025 11:27:39 AM Operator: Capital Networks
 Headroom: 4.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	34.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	182
Delay Skew (ns), Limit 44	[Pair 3,6]	12
Resistance (ohms)	[Pair 4,5]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	27.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

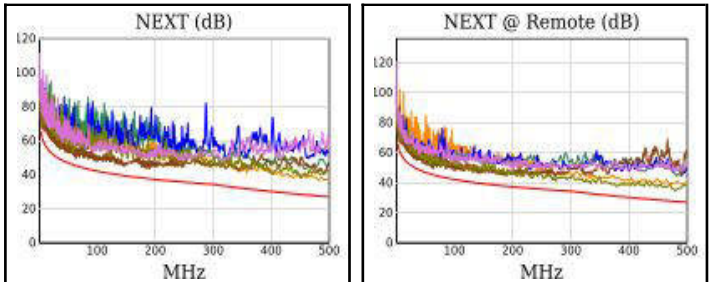


PASS

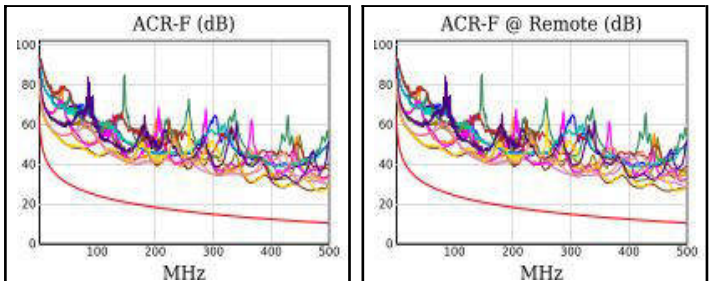


Worst Case Margin Worst Case Value

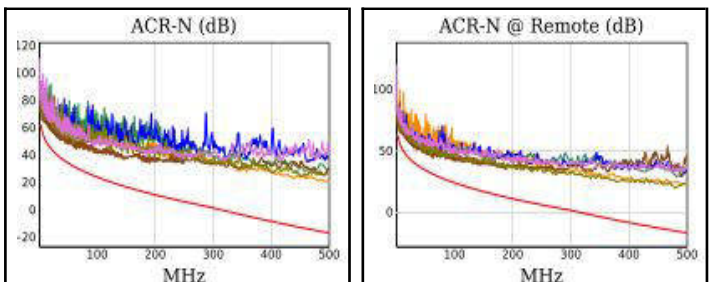
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.3	4.2	9.8	7.0
Freq. (MHz)	64.5	64.5	498.0	480.0
Limit (dB)	44.9	44.9	26.7	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.0	5.7	9.7	8.7
Freq. (MHz)	5.6	5.6	492.0	480.0
Limit (dB)	59.5	59.5	24.0	24.4



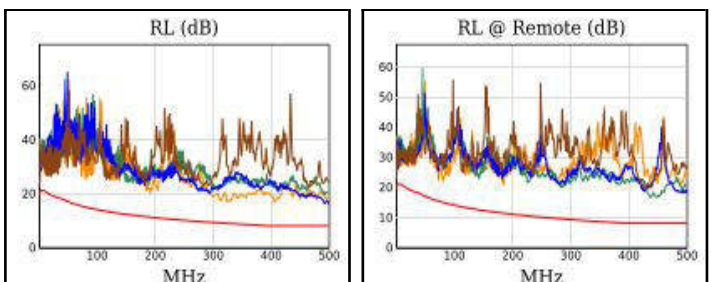
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	15.4	15.4	15.4	15.7
Freq. (MHz)	488.0	469.0	488.0	488.0
Limit (dB)	10.4	10.8	10.4	10.4
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	17.2	16.9	17.2	16.9
Freq. (MHz)	488.0	416.0	488.0	488.0
Limit (dB)	7.4	8.8	7.4	7.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	7.8	37.3	35.0
Freq. (MHz)	5.6	5.6	499.0	480.0
Limit (dB)	57.6	57.6	-17.0	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.7	8.4	36.9	35.9
Freq. (MHz)	5.6	5.6	492.0	480.0
Limit (dB)	55.3	55.3	-19.3	-18.4



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	3,6
RL (dB)	7.8	6.9	8.1	8.5
Freq. (MHz)	325.0	73.3	493.0	449.0
Limit (dB)	8.9	15.4	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



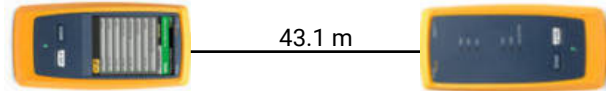
Cable ID: P2-R1-PP2-50

Test Summary: PASS

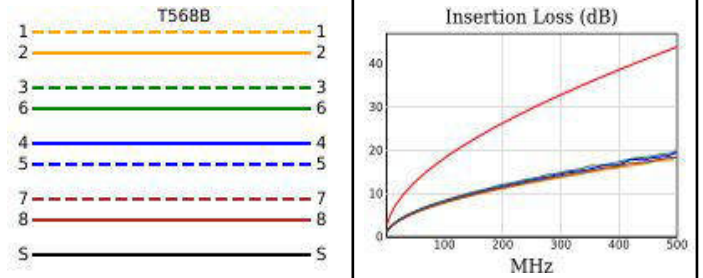
Date / Time: 04/14/2025 11:29:31 AM Operator: Capital Networks
 Headroom: 4.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	24.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

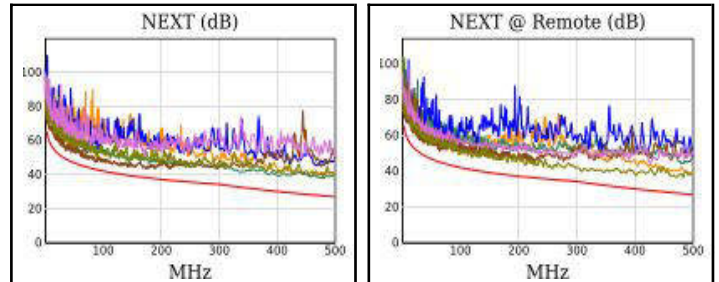


PASS

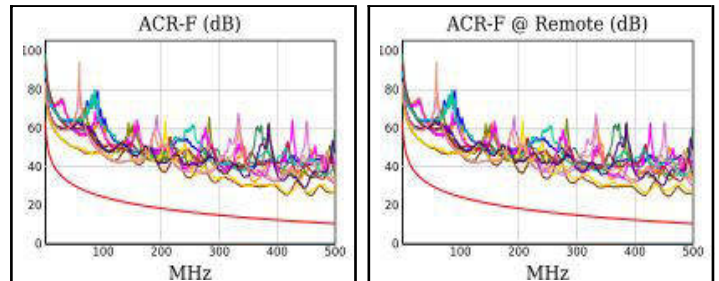


Worst Case Margin Worst Case Value

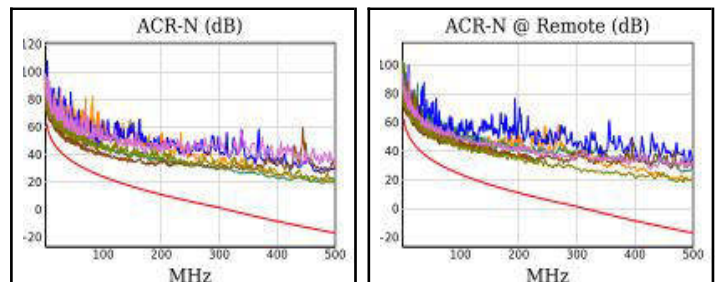
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	3,6-7,8
NEXT (dB)	4.3	5.8	10.4	8.5
Freq. (MHz)	87.0	65.0	481.0	472.0
Limit (dB)	42.8	44.9	27.2	27.5
Worst Pair	3,6	3,6	1,2	3,6
PS NEXT (dB)	5.4	6.1	10.3	9.9
Freq. (MHz)	145.0	4.6	459.0	472.0
Limit (dB)	36.6	60.8	25.0	24.6



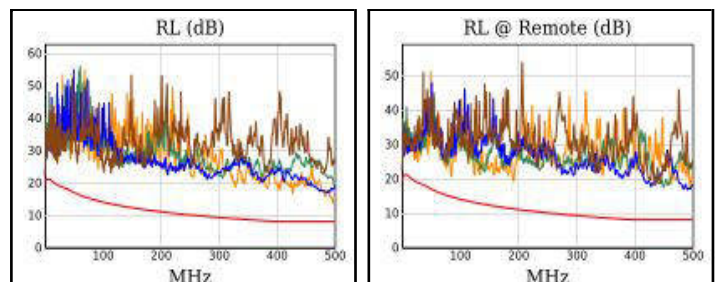
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.2	13.0	13.6	13.1
Freq. (MHz)	418.0	418.0	458.0	458.0
Limit (dB)	11.8	11.8	11.0	11.0
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	15.9	15.6	16.1	15.6
Freq. (MHz)	418.0	459.0	459.0	459.0
Limit (dB)	8.8	8.0	8.0	8.0



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	3,6-7,8
ACR-N (dB)	8.6	8.4	34.7	33.9
Freq. (MHz)	4.4	4.6	481.0	484.0
Limit (dB)	59.8	59.3	-15.6	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.6	8.2	35.0	35.1
Freq. (MHz)	4.5	4.6	481.0	500.0
Limit (dB)	57.2	57.0	-18.4	-20.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	4,5
RL (dB)	5.6	5.8	5.6	8.7
Freq. (MHz)	497.0	85.0	497.0	492.0
Limit (dB)	8.0	14.7	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



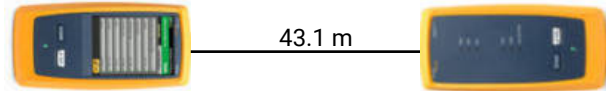
Cable ID: P2-R1-PP2-51

Test Summary: PASS

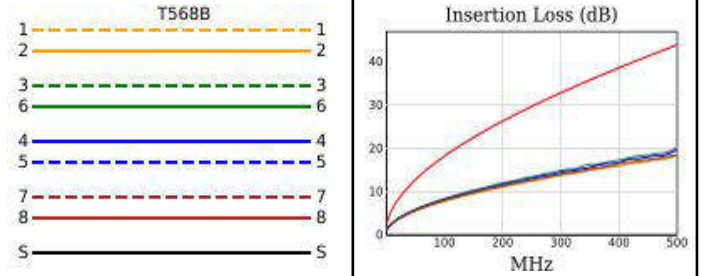
Date / Time: 04/14/2025 11:30:43 AM Operator: Capital Networks
 Headroom: 5.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

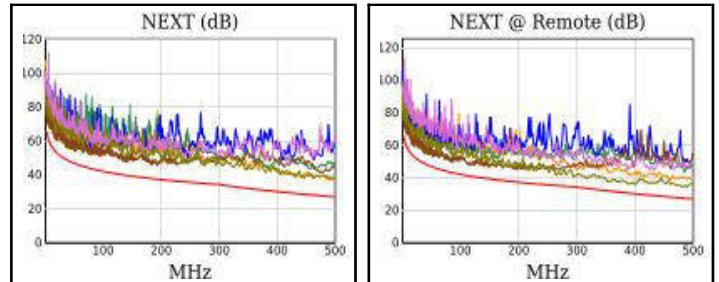


PASS

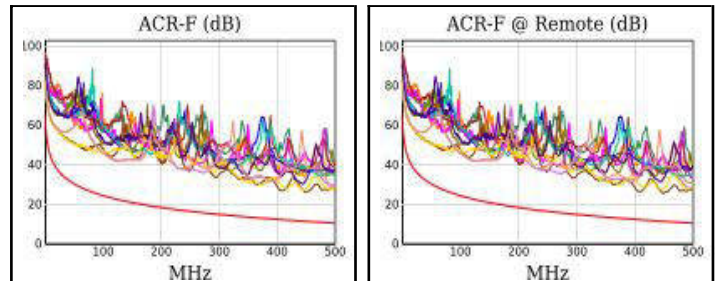


Worst Case Margin Worst Case Value

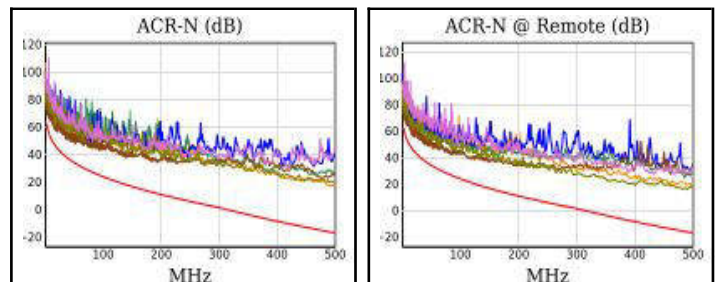
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	6.8	5.3	9.6	6.9
Freq. (MHz)	4.4	389.0	492.0	490.0
Limit (dB)	63.5	30.3	26.9	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.8	6.9	9.2	8.2
Freq. (MHz)	19.4	266.0	490.0	490.0
Limit (dB)	50.9	32.3	24.1	24.1



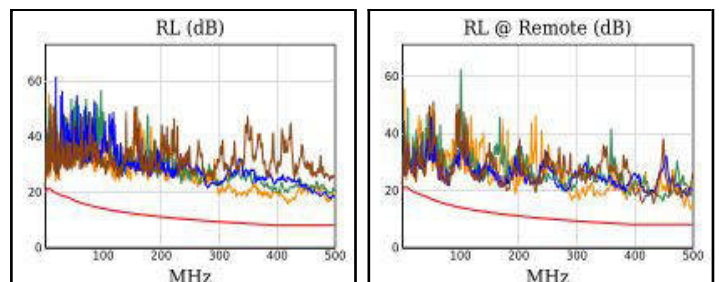
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.5	14.1	14.5	14.1
Freq. (MHz)	450.0	450.0	450.0	450.0
Limit (dB)	11.1	11.1	11.1	11.1
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.3	16.0	16.3	17.5
Freq. (MHz)	446.0	407.0	446.0	494.0
Limit (dB)	8.2	9.0	8.2	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.9	9.0	34.0	32.1
Freq. (MHz)	4.4	4.4	497.0	491.0
Limit (dB)	59.8	59.8	-16.9	-16.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.9	9.6	33.2	32.2
Freq. (MHz)	4.5	4.5	490.0	490.0
Limit (dB)	57.2	57.2	-19.2	-19.2



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	4.5	3.8	7.5	5.2
Freq. (MHz)	19.6	25.3	419.0	496.0
Limit (dB)	19.5	19.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



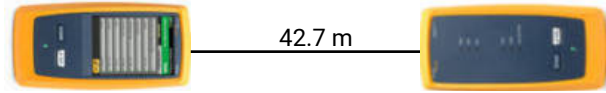
Cable ID: P2-R1-PP2-52

Test Summary: PASS

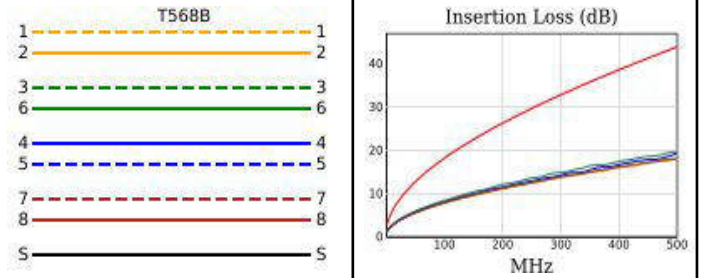
Date / Time: 04/14/2025 11:31:35 AM Operator: Capital Networks
 Headroom: 3.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.7
Prop. Delay (ns), Limit 498	[Pair 3,6]	225
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.4	4.7	9.1	6.5
Freq. (MHz)	112.5	36.5	489.0	476.0
Limit (dB)	41.0	48.9	27.0	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.2	6.1	9.8	8.7
Freq. (MHz)	112.5	36.8	500.0	475.0
Limit (dB)	38.5	46.4	23.8	24.5

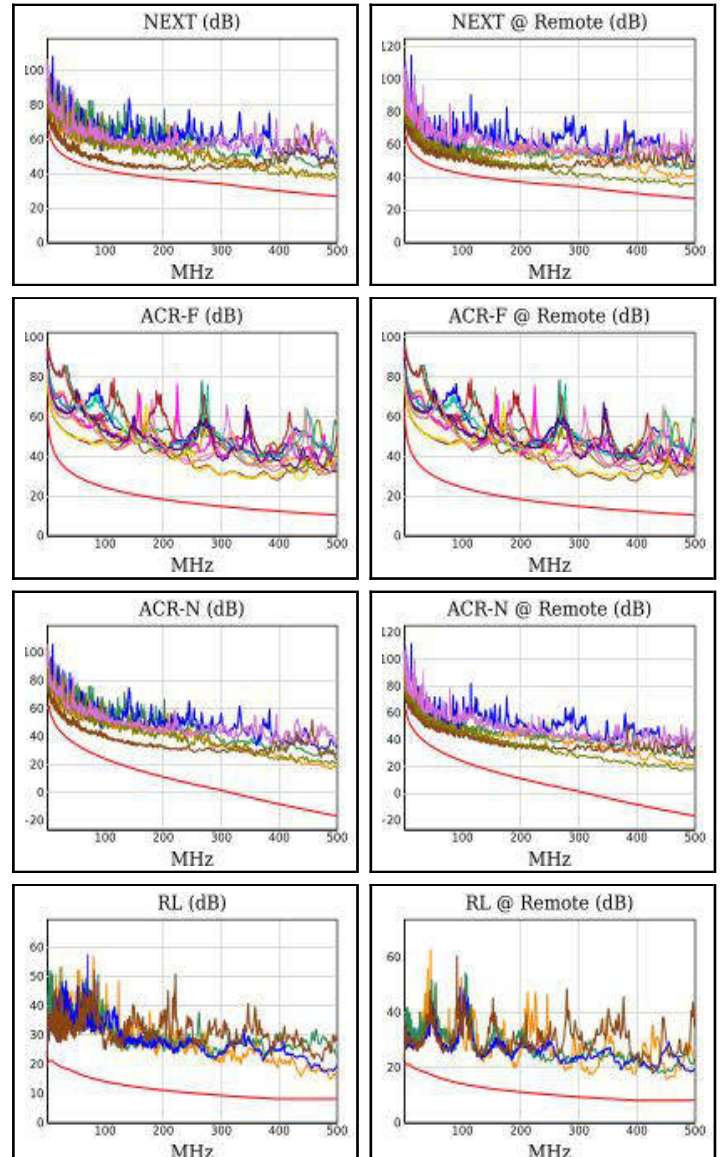
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.5	14.8	16.5	15.0
Freq. (MHz)	345.0	355.0	437.0	397.0
Limit (dB)	13.4	13.2	11.4	12.2
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	17.7	16.8	17.8	17.6
Freq. (MHz)	304.0	355.0	398.0	399.0
Limit (dB)	11.5	10.2	9.2	9.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.3	7.8	32.9	31.5
Freq. (MHz)	4.4	7.0	489.0	476.0
Limit (dB)	59.8	55.6	-16.2	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.4	34.1	32.3
Freq. (MHz)	4.5	4.6	500.0	476.0
Limit (dB)	57.2	57.0	-20.0	-18.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	1,2
RL (dB)	6.7	6.8	6.7	7.4
Freq. (MHz)	491.0	17.5	491.0	453.0
Limit (dB)	8.0	19.8	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





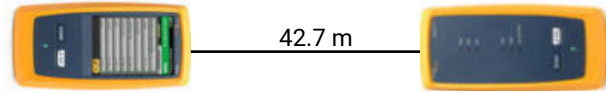
Cable ID: P2-R1-PP2-53

Test Summary: PASS

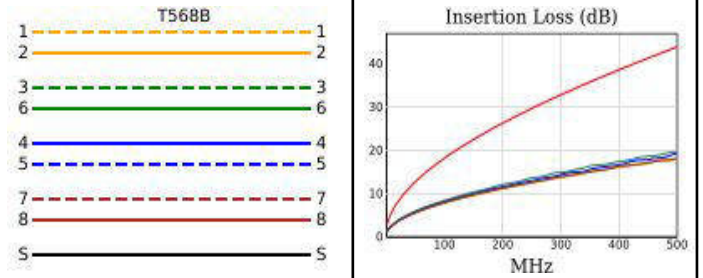
Date / Time: 04/14/2025 11:32:12 AM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.7
Prop. Delay (ns), Limit 498	[Pair 3,6]	225
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

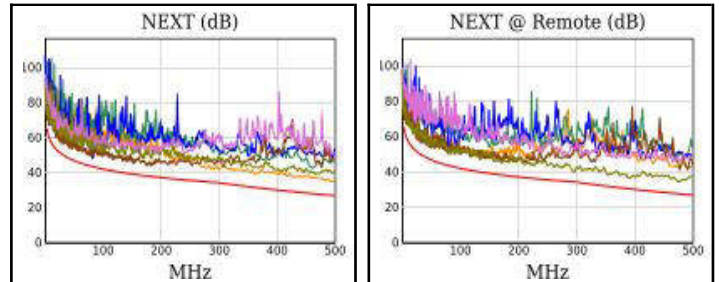


PASS

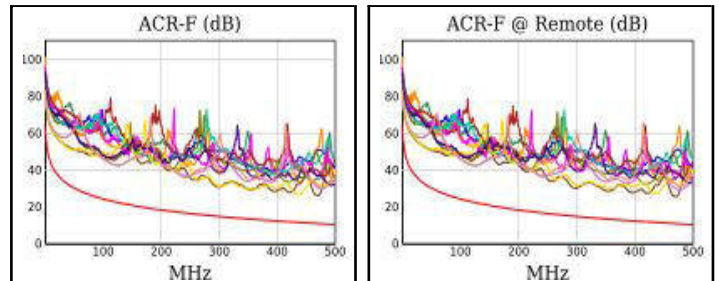


Worst Case Margin Worst Case Value

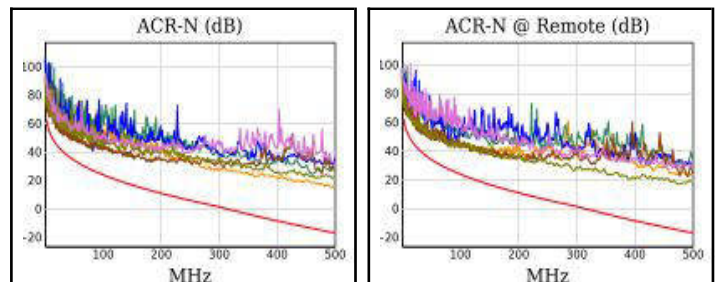
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.6	5.2	7.8	6.9
Freq. (MHz)	83.0	297.0	494.0	476.0
Limit (dB)	43.2	34.1	26.8	27.4
Worst Pair	7,8	3,6	3,6	3,6
PS NEXT (dB)	6.5	6.0	9.3	8.6
Freq. (MHz)	82.3	4.6	494.0	478.0
Limit (dB)	40.7	60.8	23.9	24.4



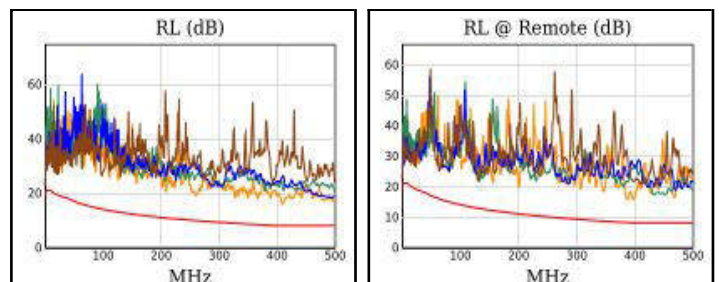
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.8	14.7	15.4	14.7
Freq. (MHz)	437.0	473.0	471.0	473.0
Limit (dB)	11.4	10.7	10.7	10.7
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.6	17.2	16.9	17.2
Freq. (MHz)	437.0	471.0	473.0	471.0
Limit (dB)	8.4	7.7	7.7	7.7



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.5	8.2	31.7	31.9
Freq. (MHz)	4.5	4.6	494.0	476.0
Limit (dB)	59.5	59.3	-16.6	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	8.1	33.2	32.1
Freq. (MHz)	4.6	4.6	494.0	478.0
Limit (dB)	57.0	57.0	-19.5	-18.2



PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	1,2	1,2
RL (dB)	7.5	7.3	7.6	7.3
Freq. (MHz)	21.9	389.0	410.0	389.0
Limit (dB)	19.3	8.1	8.0	8.1



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



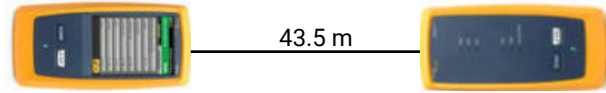
Cable ID: P2-R1-PP2-54

Test Summary: PASS

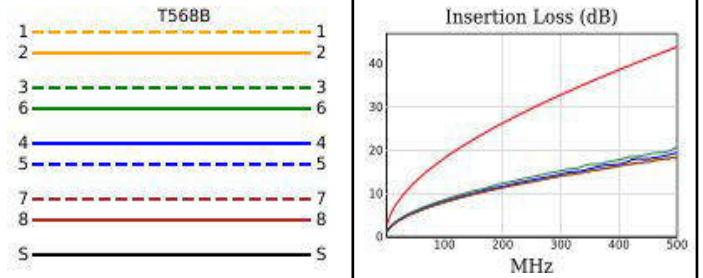
Date / Time: 04/14/2025 11:32:48 AM Operator: Capital Networks
 Headroom: 4.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	229
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	23.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.1	4.6	9.4	7.2
Freq. (MHz)	4.4	4.5	497.0	484.0
Limit (dB)	63.5	63.3	26.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.1	5.2	9.7	8.8
Freq. (MHz)	4.4	4.5	479.0	494.0
Limit (dB)	61.2	61.0	24.4	23.9

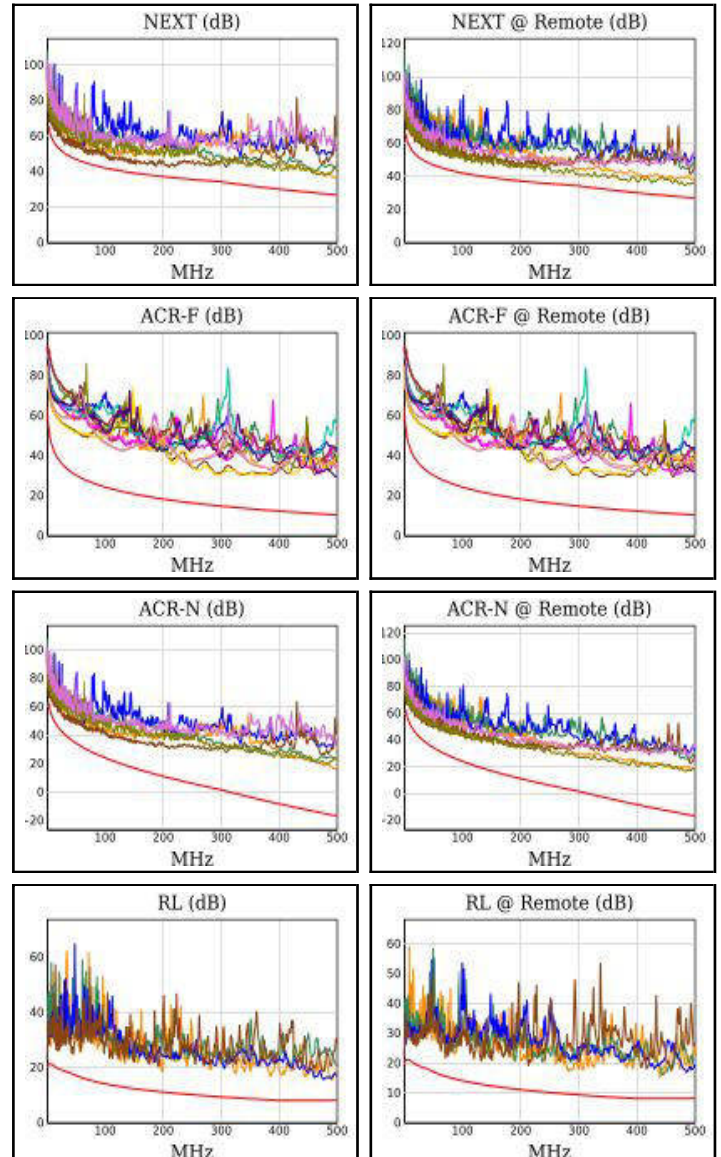
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	7,8-3,6	4,5-3,6
ACR-F (dB)	15.1	15.1	19.0	18.2
Freq. (MHz)	298.0	291.0	498.0	463.0
Limit (dB)	14.7	14.9	10.2	10.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.3	17.8	20.5	18.3
Freq. (MHz)	298.0	291.0	498.0	464.0
Limit (dB)	11.7	11.9	7.2	7.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.2	6.7	32.6	32.1
Freq. (MHz)	4.4	4.4	497.0	484.0
Limit (dB)	59.8	59.8	-16.9	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.1	7.3	33.9	32.0
Freq. (MHz)	4.4	4.6	494.0	494.0
Limit (dB)	57.5	57.0	-19.5	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	1,2
RL (dB)	6.4	6.1	7.0	7.2
Freq. (MHz)	18.9	21.4	492.0	441.0
Limit (dB)	19.6	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



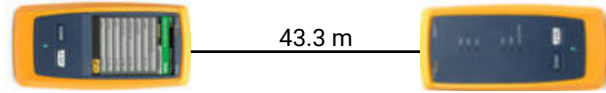


Cable ID: P2-R1-PP2-55

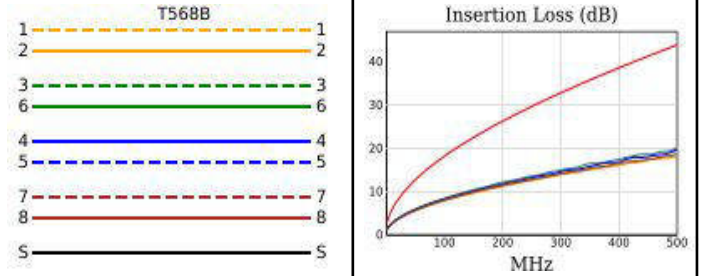
Date / Time: 04/14/2025 11:33:22 AM Operator: Capital Networks
 Headroom: 5.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	43.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	228
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	6.5	5.4	8.4	6.4
Freq. (MHz)	69.5	321.0	483.0	492.0
Limit (dB)	44.4	33.0	27.1	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.3	6.5	9.0	8.1
Freq. (MHz)	154.0	321.0	475.0	492.0
Limit (dB)	36.2	30.4	24.5	24.0

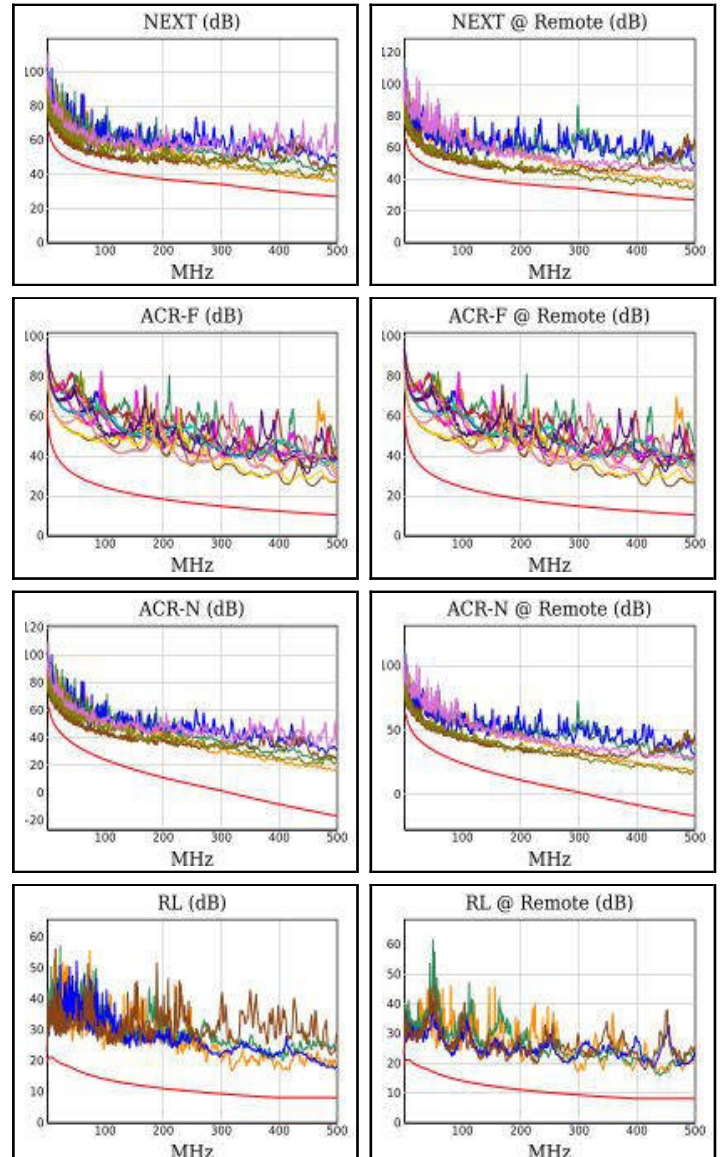
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.7	13.3	13.9	13.6
Freq. (MHz)	414.0	416.0	459.0	461.0
Limit (dB)	11.8	11.8	11.0	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.3	16.0	16.3	16.1
Freq. (MHz)	459.0	414.0	459.0	459.0
Limit (dB)	8.0	8.8	8.0	8.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.3	8.9	32.9	31.5
Freq. (MHz)	4.4	4.5	499.0	492.0
Limit (dB)	59.8	59.5	-17.0	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.1	33.7	31.9
Freq. (MHz)	4.4	4.5	496.0	492.0
Limit (dB)	57.5	57.2	-19.7	-19.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	3,6
RL (dB)	7.8	7.3	8.7	7.6
Freq. (MHz)	320.0	14.8	418.0	440.0
Limit (dB)	8.9	20.2	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





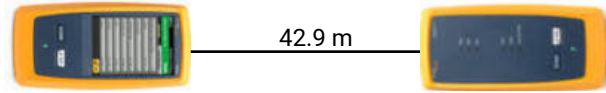
Cable ID: P2-R1-PP2-56

Test Summary: PASS

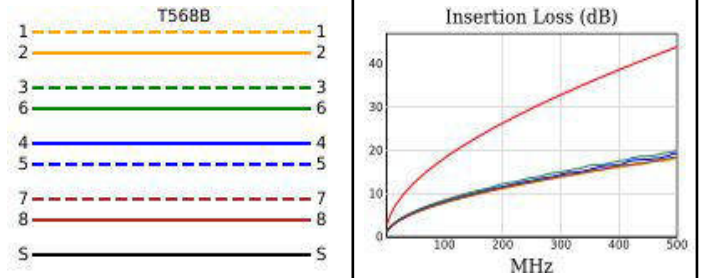
Date / Time: 04/14/2025 11:36:00 AM Operator: Capital Networks
 Headroom: 5.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.9
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	24.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

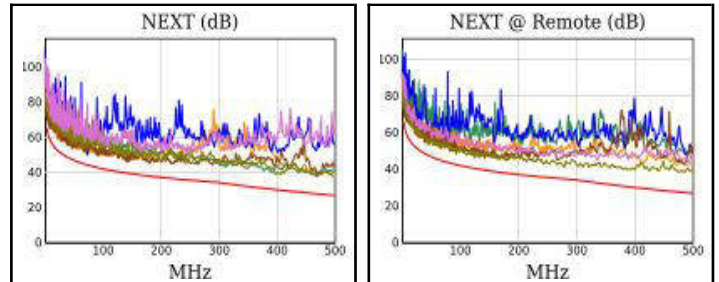


PASS

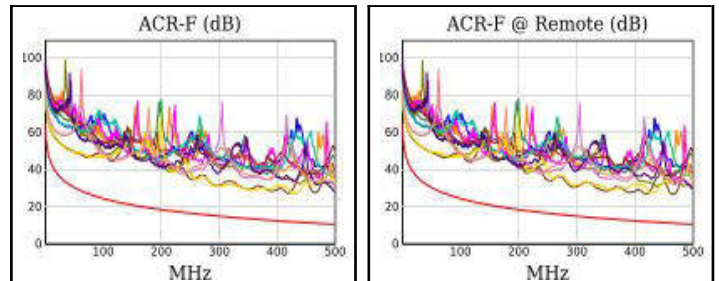


Worst Case Margin Worst Case Value

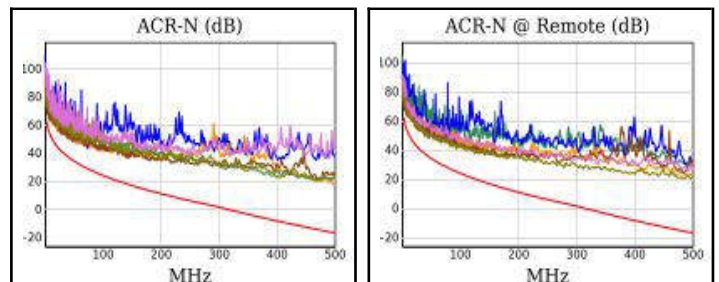
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	5.7	5.4	10.6	10.7
Freq. (MHz)	73.8	4.5	498.0	477.0
Limit (dB)	44.0	63.3	26.7	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	5.1	9.1	11.7
Freq. (MHz)	4.6	4.6	470.0	485.0
Limit (dB)	60.8	60.8	24.7	24.2



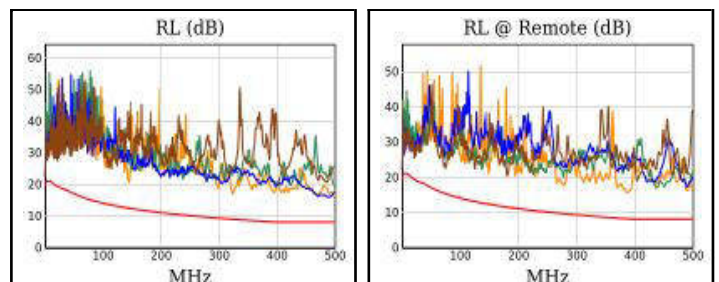
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.0	14.6	15.1	15.5
Freq. (MHz)	359.0	420.0	436.0	467.0
Limit (dB)	13.1	11.7	11.4	10.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.2	16.7	17.2	16.7
Freq. (MHz)	429.0	420.0	429.0	420.0
Limit (dB)	8.5	8.7	8.5	8.7



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	7.5	34.5	37.1
Freq. (MHz)	4.4	4.4	498.0	497.0
Limit (dB)	59.8	59.8	-16.9	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.9	7.2	32.7	35.5
Freq. (MHz)	4.6	4.6	475.0	487.0
Limit (dB)	57.0	57.0	-17.9	-18.9



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	7.5	6.0	7.5	7.2
Freq. (MHz)	499.0	21.8	499.0	387.0
Limit (dB)	8.0	19.3	8.0	8.1



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



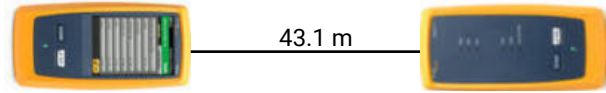
Cable ID: P2-R1-PP2-57

Test Summary: PASS

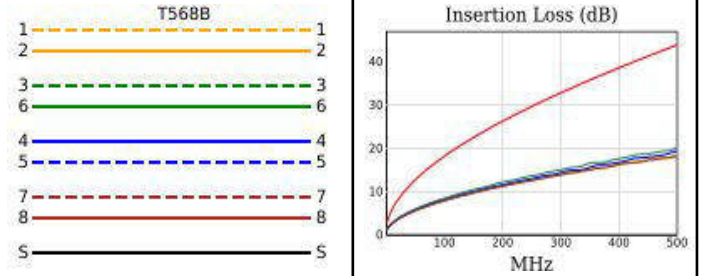
Date / Time: 04/14/2025 11:36:55 AM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	226
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 3,6]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

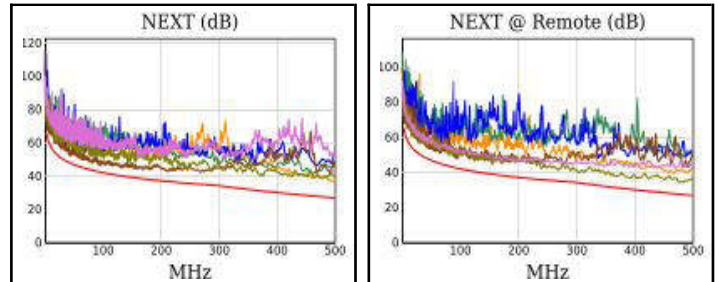


PASS

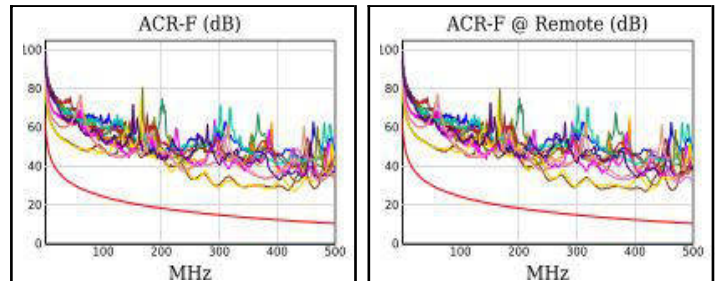


Worst Case Margin Worst Case Value

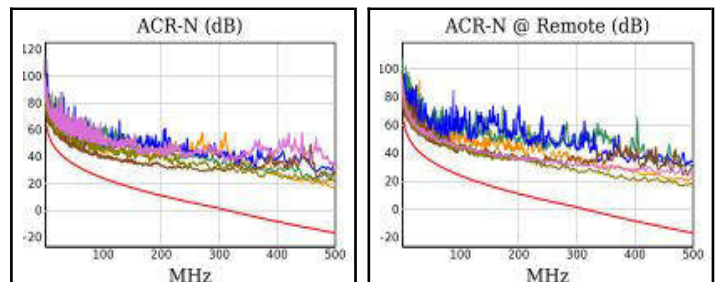
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.0	4.5	9.8	6.8
Freq. (MHz)	4.5	4.5	500.0	477.0
Limit (dB)	63.3	63.3	26.7	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.9	5.1	10.4	8.6
Freq. (MHz)	4.5	4.6	500.0	485.0
Limit (dB)	61.0	60.8	23.8	24.2



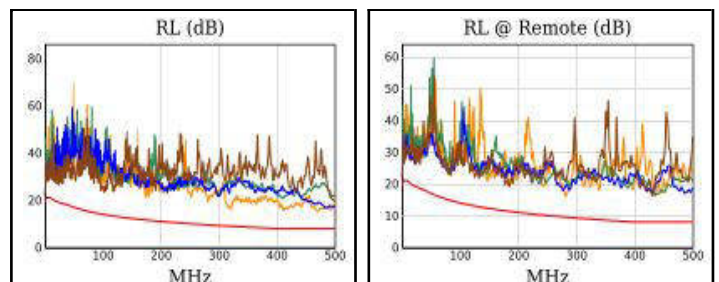
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.6	14.0	15.6	15.1
Freq. (MHz)	299.0	296.0	432.0	421.0
Limit (dB)	14.7	14.8	11.5	11.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.4	16.7	18.0	17.1
Freq. (MHz)	299.0	343.0	430.0	421.0
Limit (dB)	11.7	10.5	8.5	8.7



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.2	6.7	33.6	32.4
Freq. (MHz)	4.5	4.5	500.0	485.0
Limit (dB)	59.5	59.5	-17.1	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.0	7.2	34.2	32.3
Freq. (MHz)	4.5	4.8	500.0	485.0
Limit (dB)	57.2	56.8	-20.0	-18.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.0	6.3	7.0	6.3
Freq. (MHz)	471.0	281.0	471.0	281.0
Limit (dB)	8.0	9.5	8.0	9.5



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



Cable ID: P2-R1-PP2-58

Date / Time: 04/14/2025 11:37:42 AM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	43.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	231
Delay Skew (ns), Limit 44	[Pair 1,2]	19
Resistance (ohms)	[Pair 1,2]	7.6
Insertion Loss Margin (dB)	[Pair 3,6]	24.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	5.0	8.9	7.5
Freq. (MHz)	89.0	87.5	492.0	486.0
Limit (dB)	42.7	42.8	26.9	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.1	4.6	9.5	9.8
Freq. (MHz)	4.8	4.6	483.0	478.0
Limit (dB)	60.6	60.8	24.3	24.4

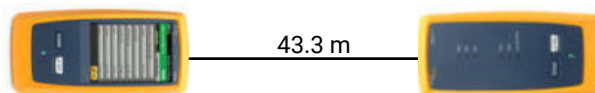
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.0	14.0	14.7	14.1
Freq. (MHz)	433.0	459.0	470.0	470.0
Limit (dB)	11.5	11.0	10.7	10.7
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.0	16.1	16.7	16.1
Freq. (MHz)	433.0	471.0	475.0	471.0
Limit (dB)	8.5	7.7	7.7	7.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.0	7.5	32.9	31.9
Freq. (MHz)	4.6	4.6	492.0	486.0
Limit (dB)	59.3	59.3	-16.5	-16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.2	6.7	33.9	34.7
Freq. (MHz)	4.8	4.6	492.0	496.0
Limit (dB)	56.8	57.0	-19.3	-19.7

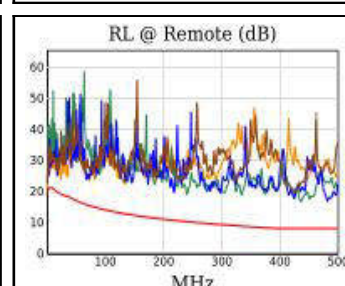
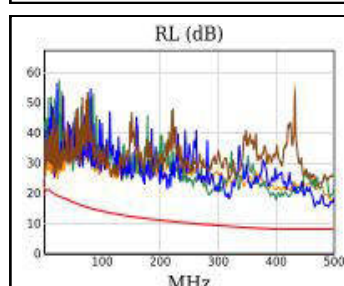
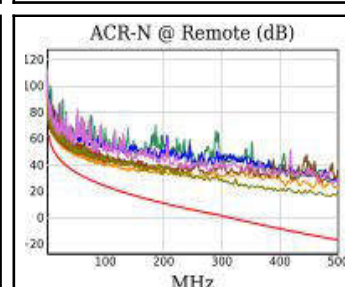
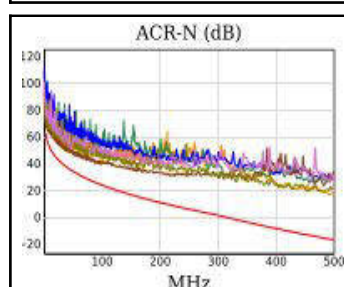
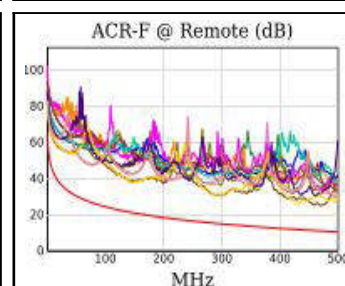
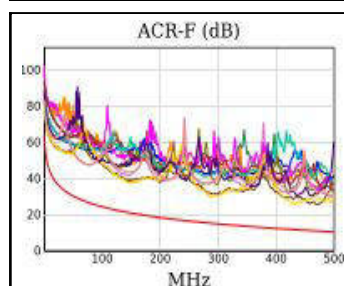
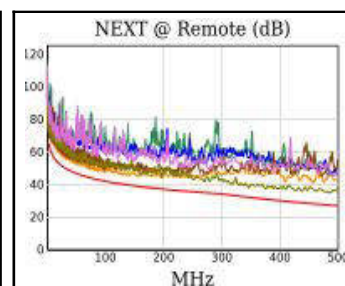
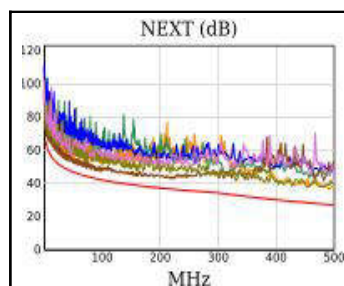
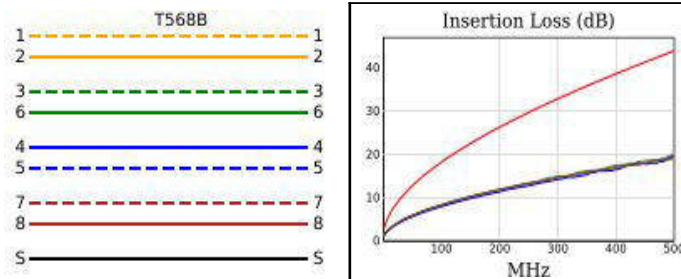
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	3,6
RL (dB)	5.5	4.8	7.3	8.6
Freq. (MHz)	19.0	24.6	491.0	437.0
Limit (dB)	19.6	19.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS



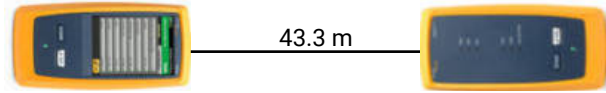


Cable ID: P2-R1-PP2-59

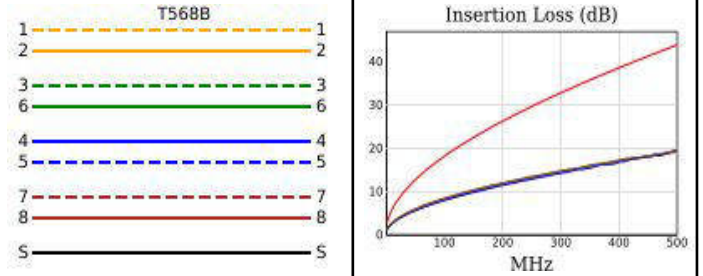
Date / Time: 04/14/2025 11:38:01 AM Operator: Capital Networks
 Headroom: 4.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	43.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	233
Delay Skew (ns), Limit 44	[Pair 1,2]	21
Resistance (ohms)	[Pair 1,2]	7.7
Insertion Loss Margin (dB)	[Pair 3,6]	24.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.4	4.3	10.8	7.5
Freq. (MHz)	91.8	54.3	490.0	487.0
Limit (dB)	42.4	46.1	26.9	27.0
Worst Pair	3,6	3,6	1,2	3,6
PS NEXT (dB)	4.1	4.2	11.8	9.3
Freq. (MHz)	53.5	53.8	490.0	487.0
Limit (dB)	43.8	43.7	24.1	24.2

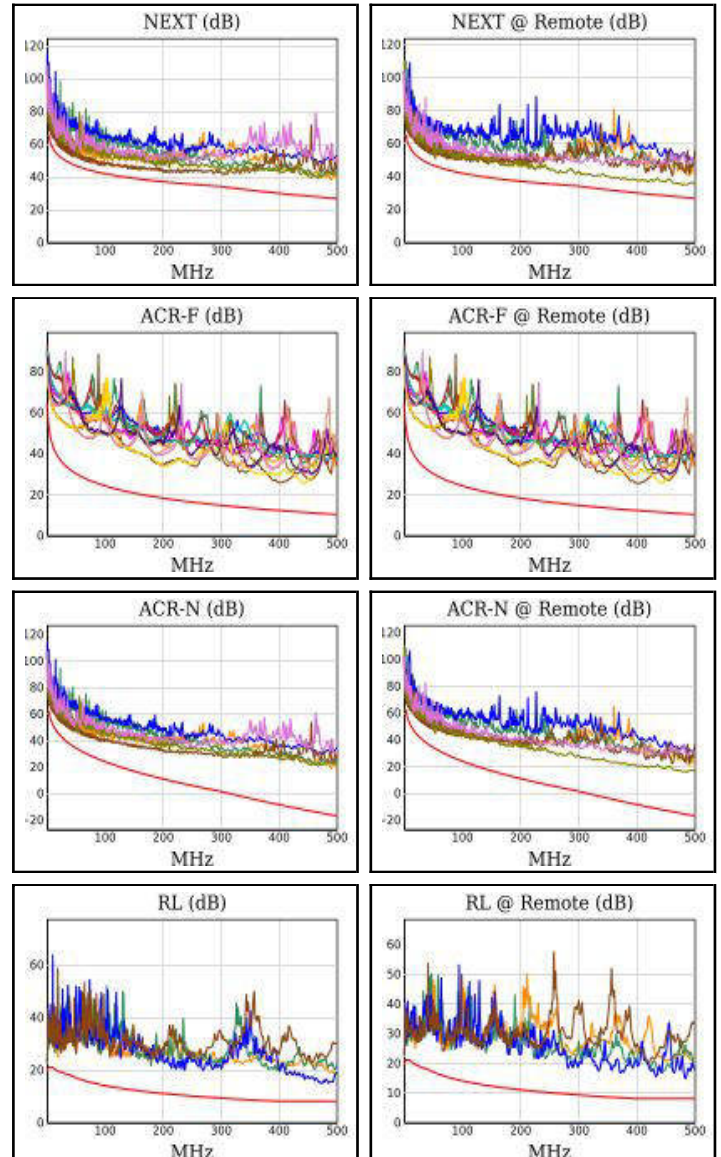
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.5	13.1	13.8	13.2
Freq. (MHz)	401.0	401.0	443.0	406.0
Limit (dB)	12.1	12.1	11.3	12.0
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	15.4	15.9	15.4	16.1
Freq. (MHz)	444.0	401.0	444.0	444.0
Limit (dB)	8.2	9.1	8.2	8.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.2	7.3	35.6	31.6
Freq. (MHz)	4.8	4.8	500.0	487.0
Limit (dB)	59.1	59.1	-17.1	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.0	6.8	36.4	34.5
Freq. (MHz)	4.8	4.8	500.0	500.0
Limit (dB)	56.8	56.8	-20.0	-20.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	5.3	5.4	6.7	6.8
Freq. (MHz)	19.9	19.9	486.0	485.0
Limit (dB)	19.5	19.5	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





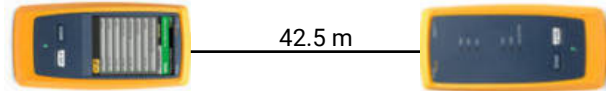
Cable ID: P2-R1-PP2-60

Test Summary: PASS

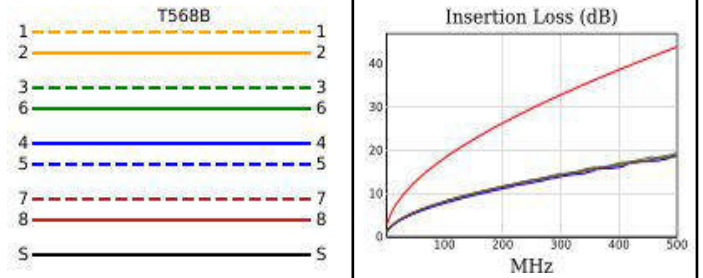
Date / Time: 04/14/2025 11:39:05 AM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	42.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	226
Delay Skew (ns), Limit 44	[Pair 1,2]	18
Resistance (ohms)	[Pair 1,2]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	24.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	7.3	4.7	8.5	7.8
Freq. (MHz)	4.6	195.5	473.0	485.0
Limit (dB)	63.1	37.1	27.4	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.5	6.0	7.8	8.5
Freq. (MHz)	4.6	57.0	472.0	463.0
Limit (dB)	60.8	43.3	24.6	24.9

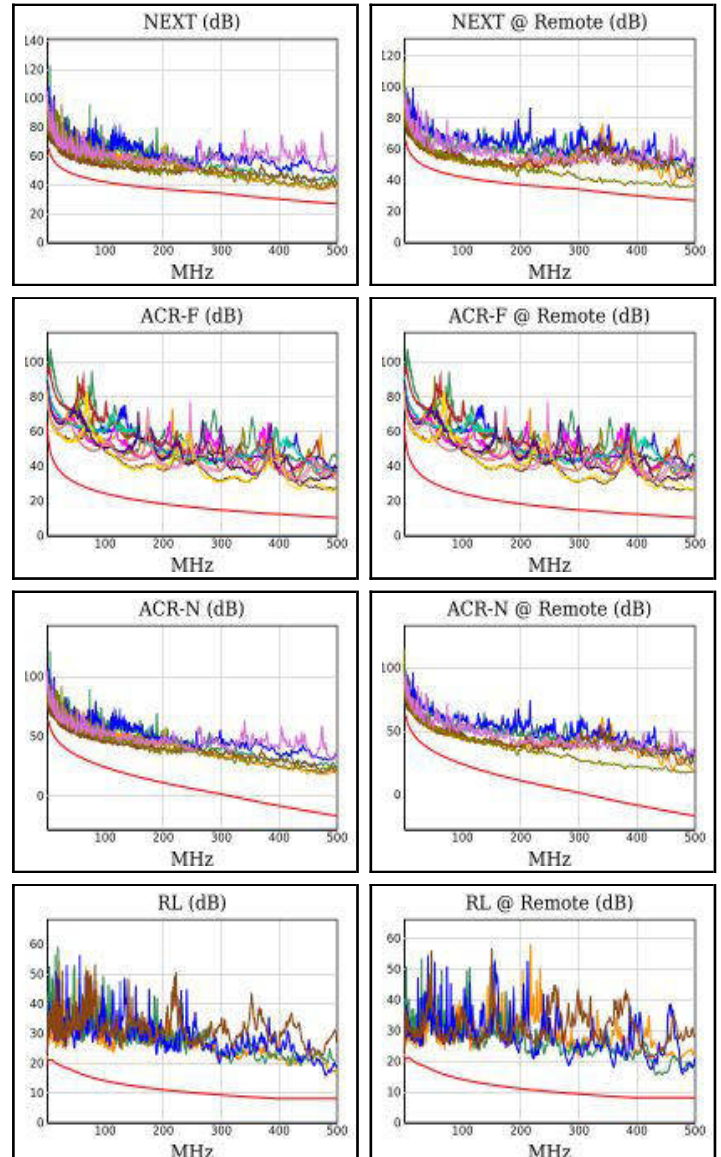
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	15.0	15.2	15.1	15.4
Freq. (MHz)	492.0	474.0	493.0	492.0
Limit (dB)	10.4	10.7	10.3	10.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.6	17.1	17.3	17.1
Freq. (MHz)	433.0	474.0	493.0	474.0
Limit (dB)	8.5	7.7	7.3	7.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.5	8.9	33.0	32.4
Freq. (MHz)	4.6	4.8	480.0	485.0
Limit (dB)	59.3	59.1	-15.5	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.6	8.7	31.8	34.0
Freq. (MHz)	4.6	4.8	472.0	494.0
Limit (dB)	57.0	56.8	-17.7	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	3,6
RL (dB)	5.0	4.8	7.6	7.3
Freq. (MHz)	15.8	20.8	481.0	434.0
Limit (dB)	20.0	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





Cable ID: P2-R1-PP2-61

Date / Time: 04/14/2025 11:39:36 AM Operator: Capital Networks
 Headroom: 5.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	42.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	226
Delay Skew (ns), Limit 44	[Pair 1,2]	18
Resistance (ohms)	[Pair 1,2]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	24.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	1,2-3,6
NEXT (dB)	6.4	5.8	10.1	5.8
Freq. (MHz)	4.8	467.0	471.0	467.0
Limit (dB)	62.9	27.6	27.5	27.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	5.9	9.3	6.4
Freq. (MHz)	75.3	328.0	471.0	466.0
Limit (dB)	41.3	30.1	24.7	24.8

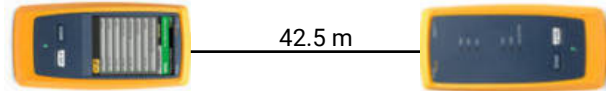
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.0	13.7	14.0	13.7
Freq. (MHz)	495.0	494.0	495.0	494.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.6	15.8	16.6	15.8
Freq. (MHz)	495.0	494.0	495.0	494.0
Limit (dB)	7.3	7.3	7.3	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	8.6	8.7	33.8	29.4
Freq. (MHz)	4.8	4.8	471.0	467.0
Limit (dB)	59.1	59.1	-14.7	-14.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.0	9.1	33.1	30.0
Freq. (MHz)	4.8	4.8	471.0	466.0
Limit (dB)	56.8	56.8	-17.6	-17.2

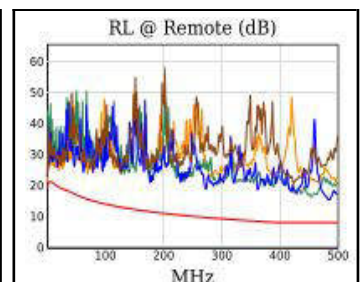
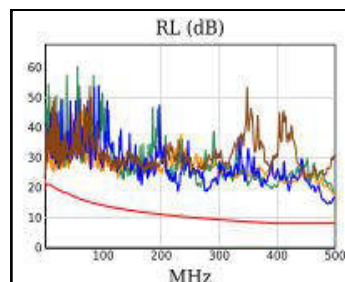
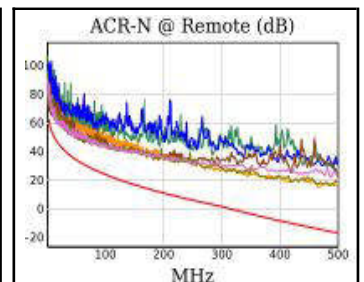
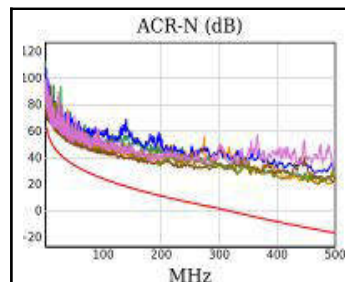
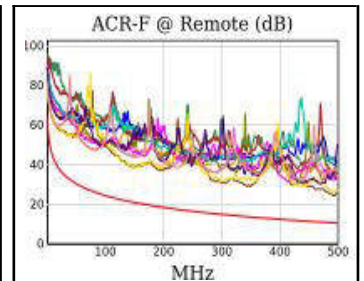
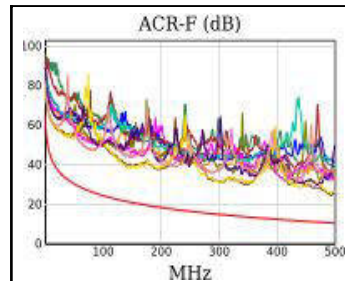
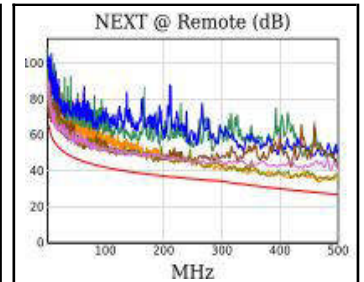
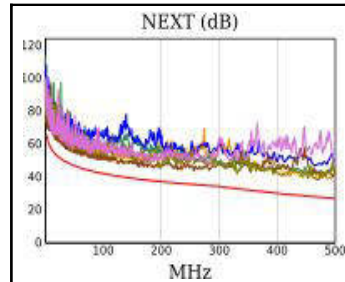
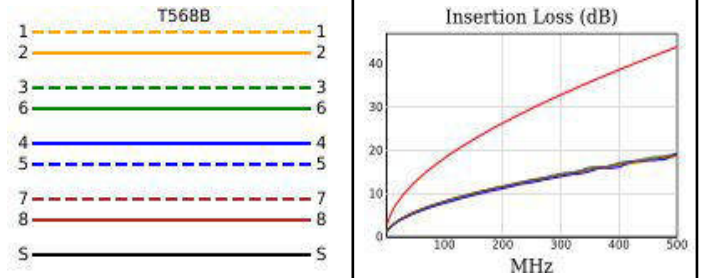
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	5.3	5.3	6.4	7.2
Freq. (MHz)	15.8	20.5	487.0	485.0
Limit (dB)	20.0	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS





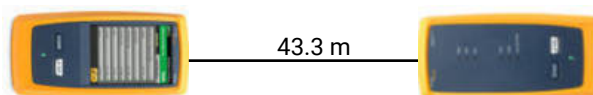
Cable ID: P2-R1-PP2-62

Test Summary: PASS

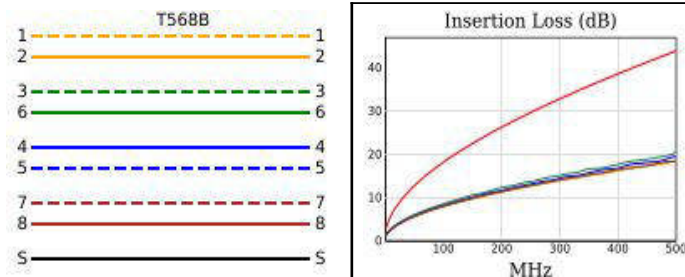
Date / Time: 04/14/2025 11:40:17 AM Operator: Capital Networks
 Headroom: 3.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	229
Delay Skew (ns), Limit 44	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	23.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.2	3.4	9.5	7.5
Freq. (MHz)	88.5	4.4	490.0	477.0
Limit (dB)	42.7	63.5	26.9	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.0	3.8	10.4	9.0
Freq. (MHz)	4.5	4.5	490.0	477.0
Limit (dB)	61.0	61.0	24.1	24.5

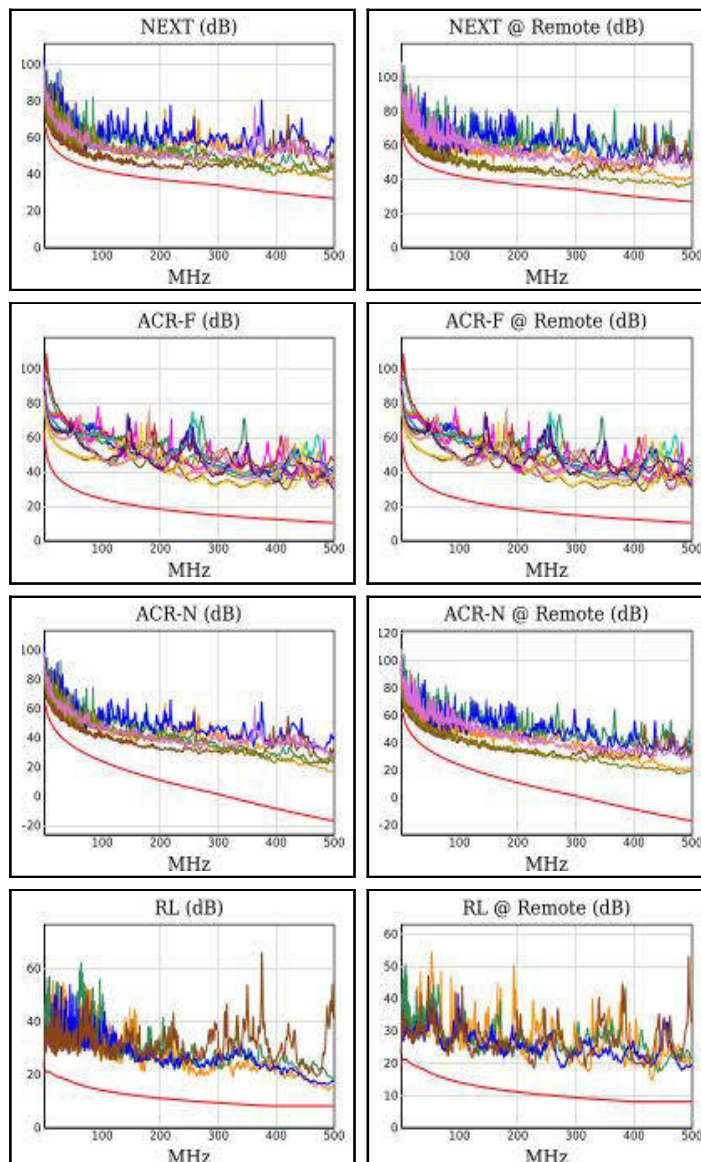
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.3	16.6	17.6	16.9
Freq. (MHz)	289.0	338.0	418.0	418.0
Limit (dB)	15.0	13.6	11.8	11.8
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	18.3	18.1	20.3	18.1
Freq. (MHz)	298.0	416.0	467.0	416.0
Limit (dB)	11.7	8.8	7.8	8.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.5	5.5	33.5	32.0
Freq. (MHz)	4.4	4.4	498.0	477.0
Limit (dB)	59.8	59.8	-16.9	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.0	5.9	34.0	32.2
Freq. (MHz)	4.4	4.6	490.0	477.0
Limit (dB)	57.5	57.0	-19.2	-18.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	5.8	6.4	5.8	6.5
Freq. (MHz)	492.0	21.4	492.0	432.0
Limit (dB)	8.0	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





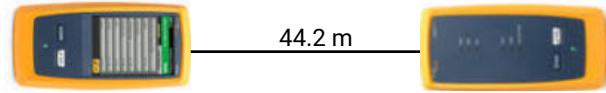
Cable ID: P2-R1-PP2-63

Test Summary: PASS

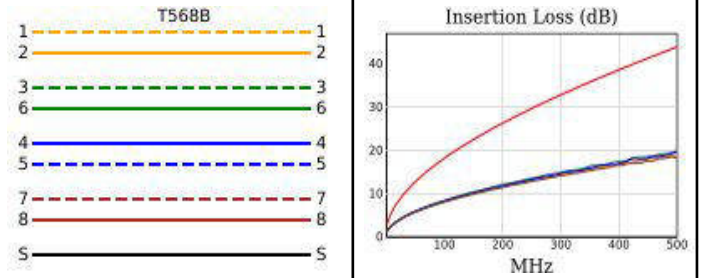
Date / Time: 04/14/2025 11:40:51 AM Operator: Capital Networks
 Headroom: 2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	44.2
Prop. Delay (ns), Limit 498	[Pair 3,6]	230
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	24.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	2.0	3.4	10.5	6.5
Freq. (MHz)	59.8	60.0	492.0	471.0
Limit (dB)	45.5	45.4	26.9	27.5
Worst Pair	7,8	3,6	3,6	3,6
PS NEXT (dB)	3.9	4.3	10.4	8.9
Freq. (MHz)	60.0	4.5	477.0	471.0
Limit (dB)	42.9	61.0	24.5	24.7

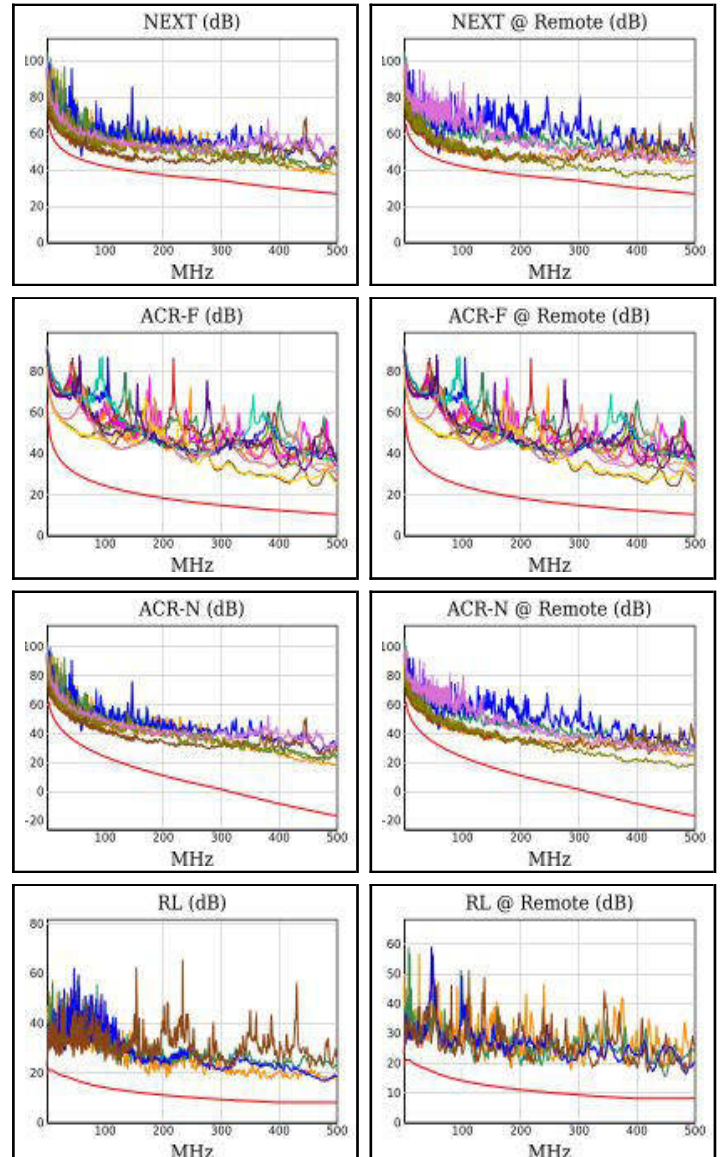
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.4	13.2	13.5	13.4
Freq. (MHz)	458.0	458.0	464.0	468.0
Limit (dB)	11.0	11.0	10.9	10.8
Worst Pair	4,5	3,6	4,5	4,5
PS ACR-F (dB)	15.8	15.6	15.9	16.5
Freq. (MHz)	458.0	417.0	461.0	500.0
Limit (dB)	8.0	8.8	7.9	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	5.9	6.5	34.7	30.7
Freq. (MHz)	4.4	4.4	496.0	471.0
Limit (dB)	59.8	59.8	-16.8	-14.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	6.8	6.4	33.9	32.2
Freq. (MHz)	4.5	4.5	477.0	471.0
Limit (dB)	57.2	57.2	-18.1	-17.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	4,5	3,6
RL (dB)	7.0	6.1	8.4	7.5
Freq. (MHz)	207.0	24.0	480.0	450.0
Limit (dB)	10.8	19.1	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





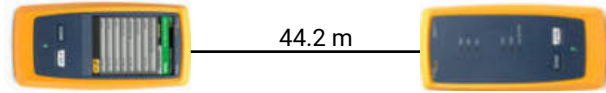
Cable ID: P2-R1-PP2-64

Test Summary: PASS

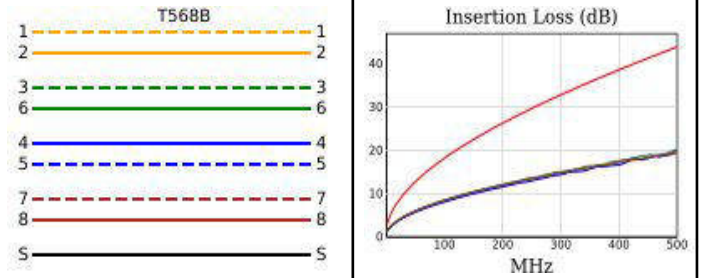
Date / Time: 04/14/2025 11:41:18 AM Operator: Capital Networks
 Headroom: 5.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	44.2
Prop. Delay (ns), Limit 498	[Pair 1,2]	234
Delay Skew (ns), Limit 44	[Pair 1,2]	18
Resistance (ohms)	[Pair 1,2]	7.7
Insertion Loss Margin (dB)	[Pair 3,6]	23.7
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	43.7

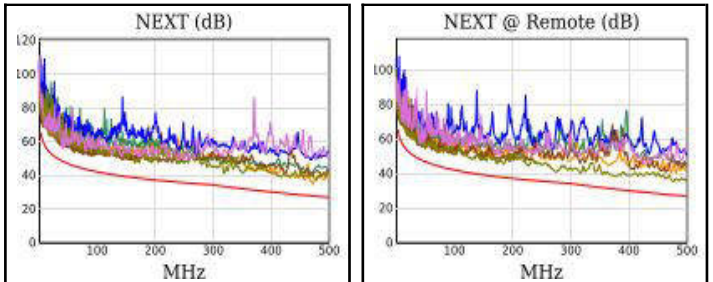


PASS

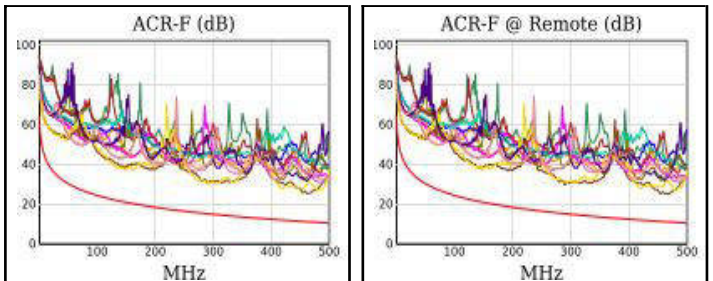


Worst Case Margin Worst Case Value

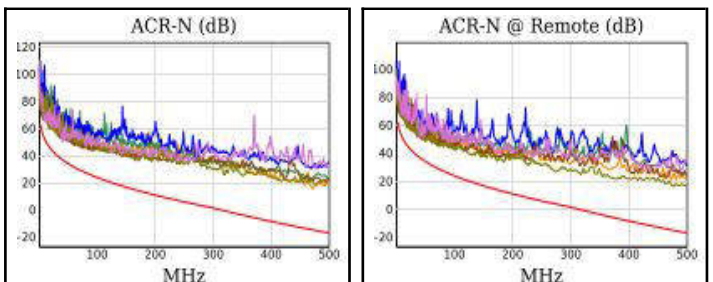
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	7.0	5.8	7.0	7.7
Freq. (MHz)	473.0	275.0	473.0	477.0
Limit (dB)	27.4	34.7	27.4	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.7	6.9	7.7	9.7
Freq. (MHz)	473.0	50.0	473.0	477.0
Limit (dB)	24.6	44.2	24.6	24.5



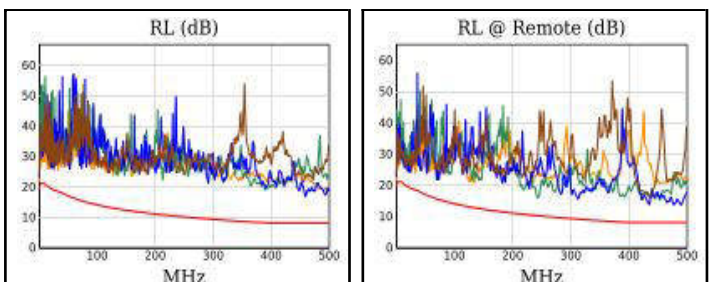
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.2	13.9	14.2	14.0
Freq. (MHz)	463.0	463.0	463.0	469.0
Limit (dB)	10.9	10.9	10.9	10.8
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.7	15.8	16.7	15.9
Freq. (MHz)	463.0	455.0	463.0	462.0
Limit (dB)	7.9	8.0	7.9	7.9



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.4	10.0	30.2	31.4
Freq. (MHz)	4.4	4.6	473.0	477.0
Limit (dB)	59.8	59.3	-14.9	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.7	9.5	31.0	34.1
Freq. (MHz)	4.4	4.5	473.0	498.0
Limit (dB)	57.5	57.2	-17.8	-19.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	4,5	4,5
RL (dB)	5.7	4.9	8.3	5.5
Freq. (MHz)	15.1	23.6	459.0	490.0
Limit (dB)	20.1	19.1	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



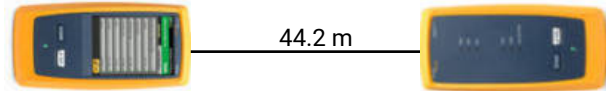
Cable ID: P2-R1-PP2-65

Test Summary: PASS

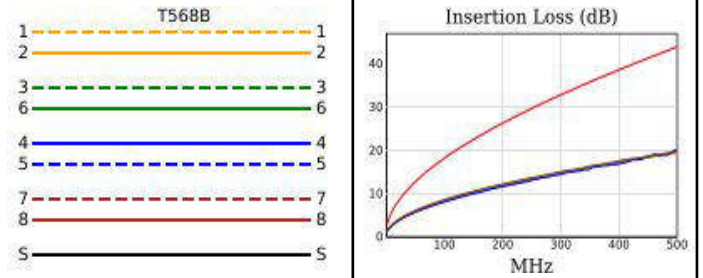
Date / Time: 04/14/2025 11:43:28 AM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	44.2
Prop. Delay (ns), Limit 498	[Pair 1,2]	236
Delay Skew (ns), Limit 44	[Pair 1,2]	20
Resistance (ohms)	[Pair 1,2]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	23.6
Frequency (MHz)	[Pair 3,6]	497.0
Limit (dB)	[Pair 3,6]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-7,8
NEXT (dB)	5.4	5.1	10.1	7.1
Freq. (MHz)	161.0	4.8	496.0	481.0
Limit (dB)	38.5	62.9	26.8	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.3	5.9	10.0	8.5
Freq. (MHz)	4.5	4.8	496.0	472.0
Limit (dB)	61.0	60.6	23.9	24.6

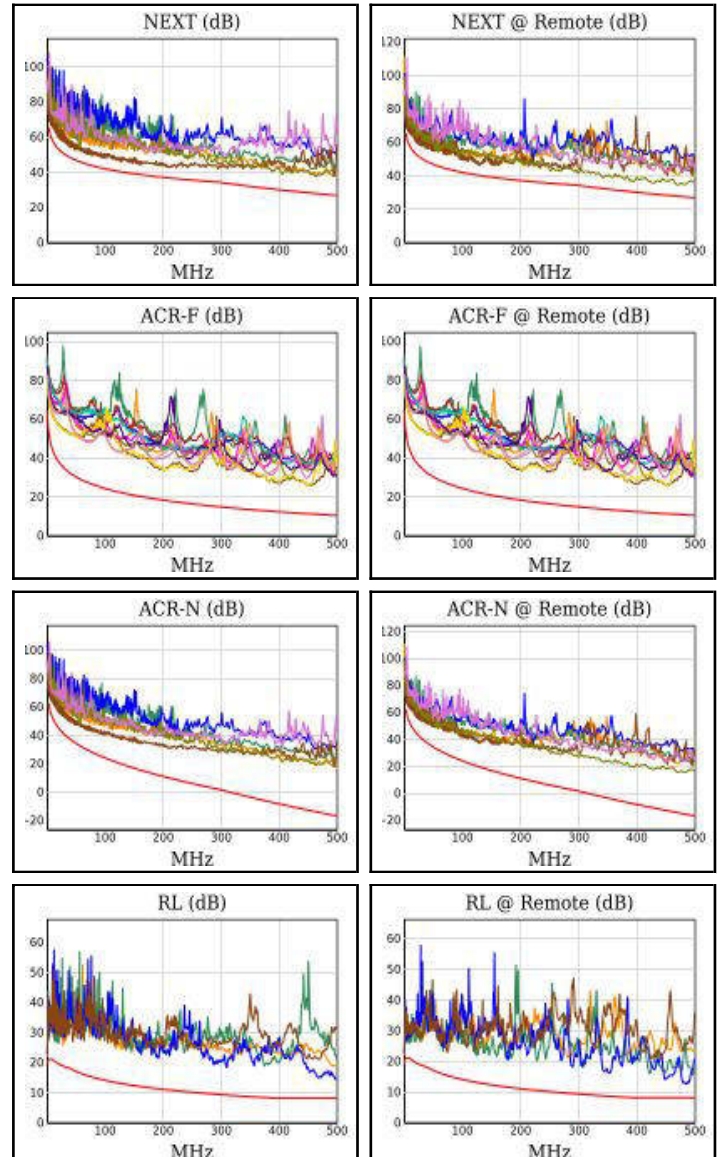
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	14.2	14.2	14.2	14.2
Freq. (MHz)	452.0	398.0	452.0	452.0
Limit (dB)	11.1	12.2	11.1	11.1
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.4	15.9	16.4	15.9
Freq. (MHz)	452.0	452.0	452.0	452.0
Limit (dB)	8.1	8.1	8.1	8.1

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-7,8
ACR-N (dB)	7.6	7.2	34.0	30.7
Freq. (MHz)	4.5	4.8	496.0	481.0
Limit (dB)	59.5	59.1	-16.8	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.4	8.0	33.7	33.9
Freq. (MHz)	4.5	4.8	496.0	496.0
Limit (dB)	57.2	56.8	-19.7	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.1	4.3	6.1	4.3
Freq. (MHz)	498.0	485.0	498.0	485.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





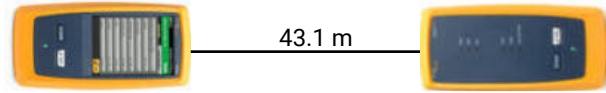
Cable ID: P2-R1-PP2-66

Test Summary: PASS

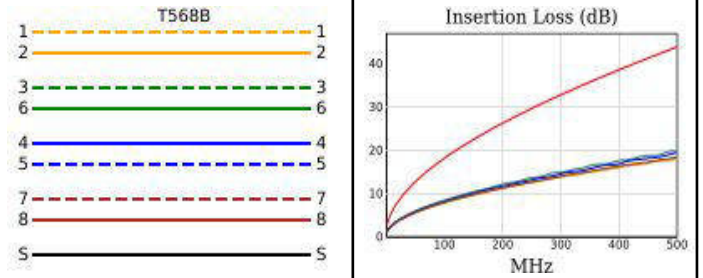
Date / Time: 04/14/2025 11:44:08 AM Operator: Capital Networks
 Headroom: 3.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	43.7

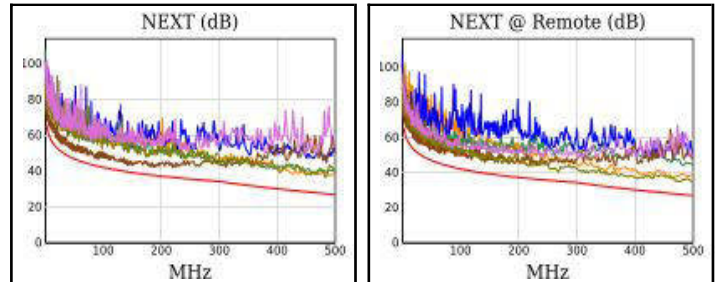


PASS

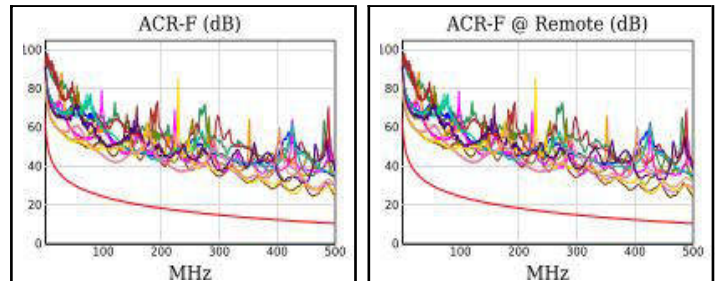


Worst Case Margin Worst Case Value

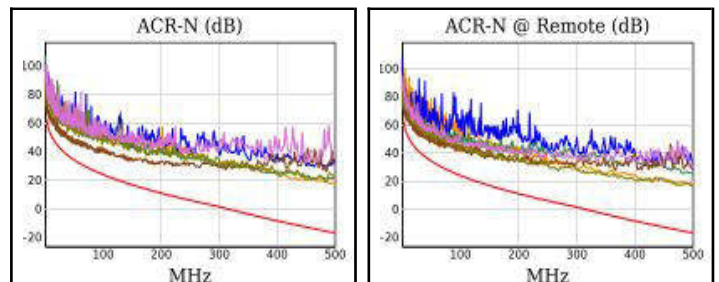
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.5	4.8	8.9	7.1
Freq. (MHz)	142.5	4.5	484.0	476.0
Limit (dB)	39.3	63.3	27.1	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.1	5.5	9.6	8.3
Freq. (MHz)	142.5	4.5	484.0	476.0
Limit (dB)	36.8	61.0	24.2	24.5



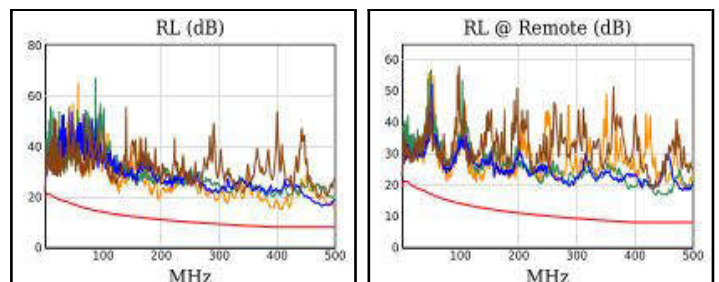
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.3	12.8	13.3	12.8
Freq. (MHz)	462.0	463.0	462.0	463.0
Limit (dB)	10.9	10.9	10.9	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	14.7	15.4	14.7	15.4
Freq. (MHz)	462.0	463.0	462.0	463.0
Limit (dB)	7.9	7.9	7.9	7.9



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.5	6.9	33.7	33.5
Freq. (MHz)	4.4	4.5	492.0	497.0
Limit (dB)	59.8	59.5	-16.5	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.6	7.6	33.0	33.2
Freq. (MHz)	4.4	4.5	484.0	499.0
Limit (dB)	57.5	57.2	-18.7	-19.9



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	6.6	5.8	6.6	8.6
Freq. (MHz)	500.0	77.5	500.0	448.0
Limit (dB)	8.0	15.1	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

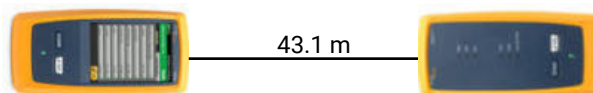


Cable ID: P2-R1-PP2-67

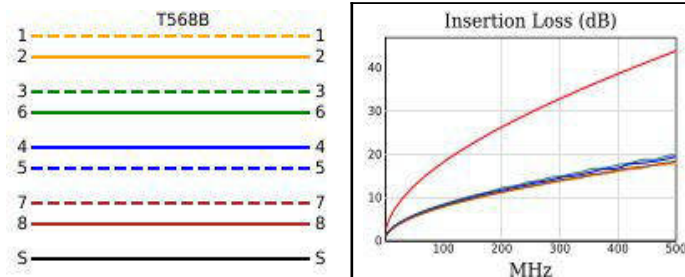
Date / Time: 04/14/2025 11:44:28 AM Operator: Capital Networks
 Headroom: 5.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	43.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	24.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.0	5.7	9.1	7.5
Freq. (MHz)	104.0	177.5	471.0	497.0
Limit (dB)	41.6	37.8	27.5	26.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.4	6.6	10.5	8.0
Freq. (MHz)	157.5	123.0	500.0	475.0
Limit (dB)	36.0	37.8	23.8	24.5

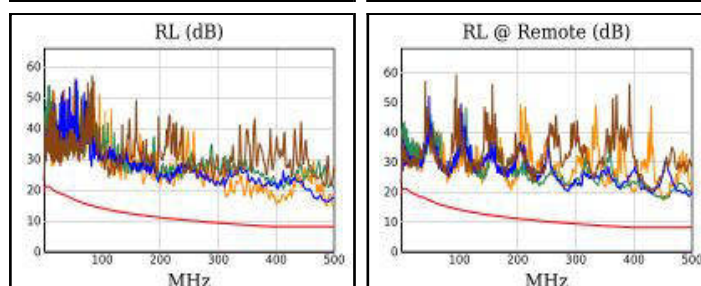
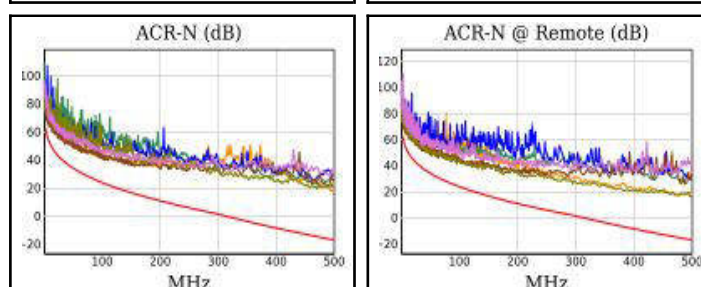
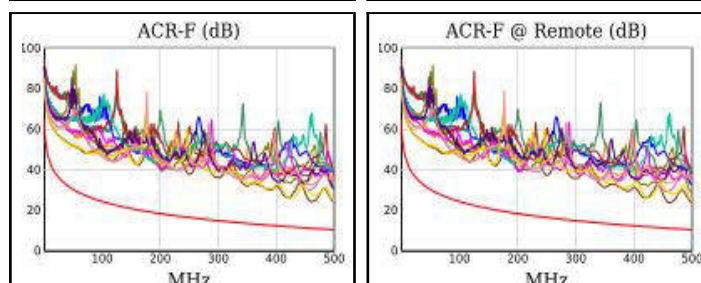
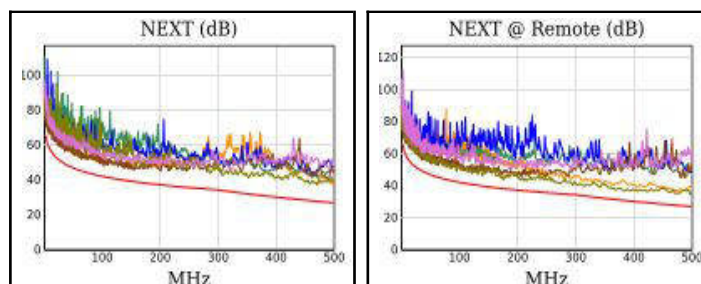
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.1	12.6	13.1	12.6
Freq. (MHz)	463.0	463.0	463.0	463.0
Limit (dB)	10.9	10.9	10.9	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	15.3	15.3	15.3	15.3
Freq. (MHz)	461.0	500.0	461.0	500.0
Limit (dB)	7.9	7.2	7.9	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.6	8.3	34.5	32.9
Freq. (MHz)	4.5	4.5	497.0	497.0
Limit (dB)	59.5	59.5	-16.9	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	8.7	34.6	32.7
Freq. (MHz)	4.4	4.5	500.0	497.0
Limit (dB)	57.5	57.2	-20.0	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	6.5	8.1	6.5	9.2
Freq. (MHz)	500.0	80.3	500.0	455.0
Limit (dB)	8.0	15.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





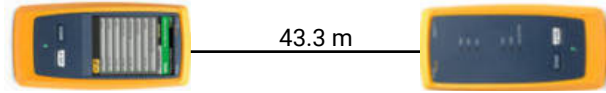
Cable ID: P2-R1-PP2-68

Test Summary: PASS

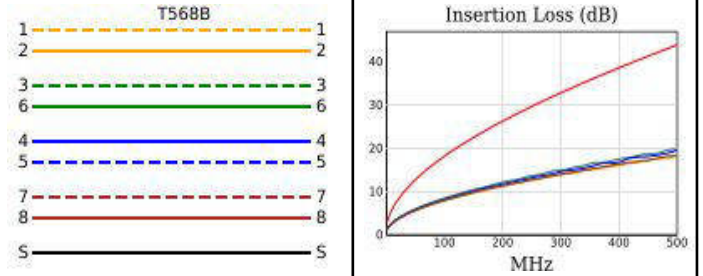
Date / Time: 04/14/2025 11:44:53 AM Operator: Capital Networks
 Headroom: 3.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	227
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	24.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

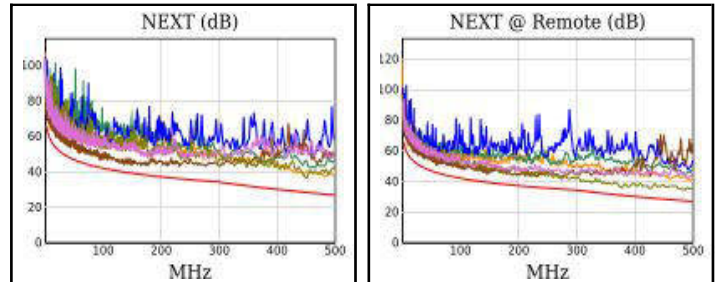


PASS

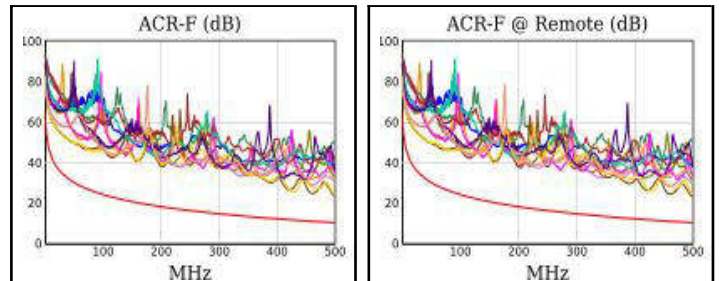


Worst Case Margin Worst Case Value

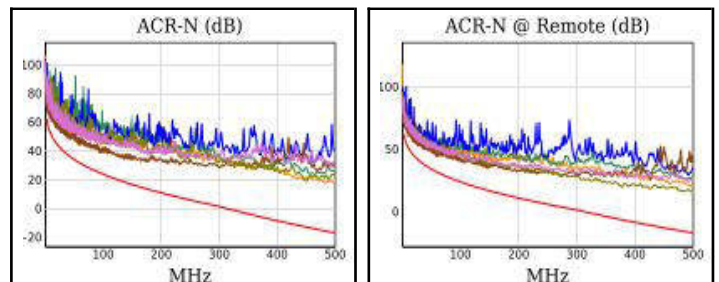
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.9	4.8	8.0	7.1
Freq. (MHz)	137.5	60.3	451.0	483.0
Limit (dB)	39.6	45.4	28.1	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	5.7	9.3	9.7
Freq. (MHz)	140.0	150.0	451.0	496.0
Limit (dB)	36.9	36.4	25.3	23.9



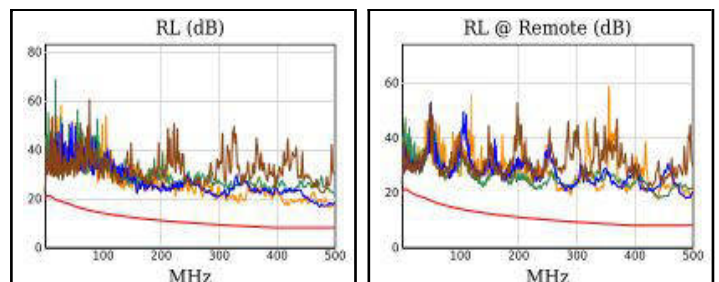
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.2	12.9	13.2	12.9
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	15.7	14.9	15.9	14.9
Freq. (MHz)	462.0	500.0	500.0	500.0
Limit (dB)	7.9	7.2	7.2	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.4	8.0	33.3	32.2
Freq. (MHz)	4.4	4.5	483.0	486.0
Limit (dB)	59.8	59.5	-15.7	-16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.5	8.8	34.4	33.6
Freq. (MHz)	4.4	4.5	488.0	496.0
Limit (dB)	57.5	57.2	-19.0	-19.7



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	8.1	7.4	8.1	9.5
Freq. (MHz)	492.0	16.9	492.0	439.0
Limit (dB)	8.0	19.9	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



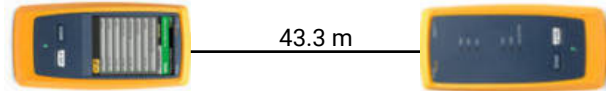
Cable ID: P2-R1-PP2-69

Test Summary: PASS

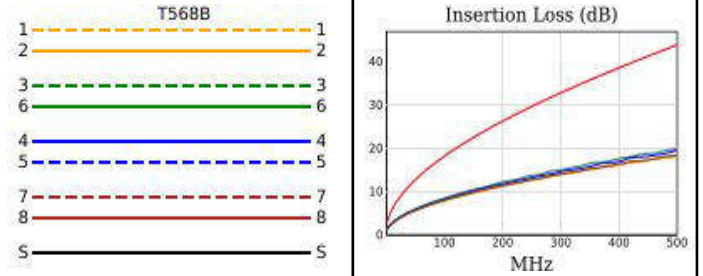
Date / Time: 04/14/2025 11:45:17 AM Operator: Capital Networks
 Headroom: 2.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	228
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 3,6]	7.4
Insertion Loss Margin (dB)	[Pair 3,6]	24.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	2.6	4.8	9.2	6.3
Freq. (MHz)	142.0	4.5	472.0	481.0
Limit (dB)	39.4	63.3	27.5	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.3	5.1	10.0	8.5
Freq. (MHz)	134.5	4.5	472.0	482.0
Limit (dB)	37.2	61.0	24.6	24.3

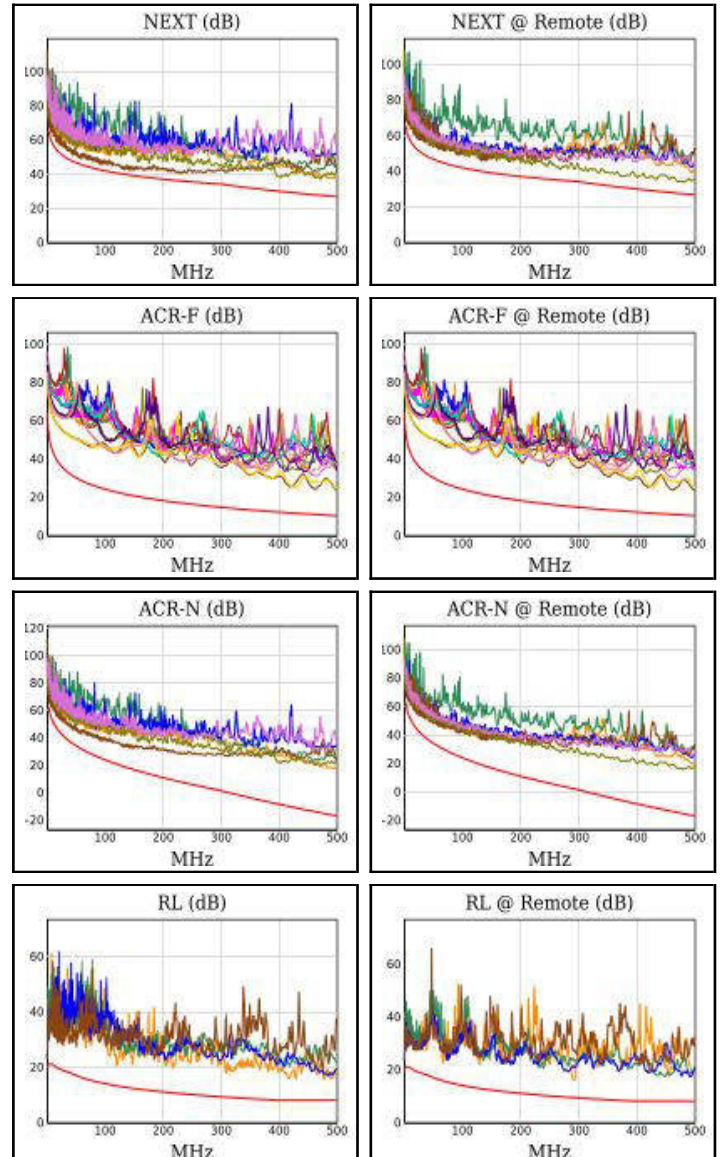
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.2	12.7	13.5	13.2
Freq. (MHz)	462.0	462.0	500.0	500.0
Limit (dB)	10.9	10.9	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	15.6	15.5	16.1	15.5
Freq. (MHz)	462.0	500.0	500.0	500.0
Limit (dB)	7.9	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	5.7	6.9	34.4	31.1
Freq. (MHz)	4.4	4.5	499.0	481.0
Limit (dB)	59.8	59.5	-17.0	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	6.6	7.2	34.8	32.7
Freq. (MHz)	4.4	4.6	498.0	494.0
Limit (dB)	57.5	57.0	-19.8	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.4	6.7	7.5	6.7
Freq. (MHz)	121.5	293.0	477.0	293.0
Limit (dB)	13.2	9.3	8.0	9.3

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





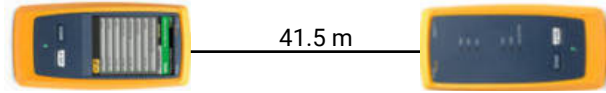
Cable ID: P2-R1-PP2-70

Test Summary: PASS

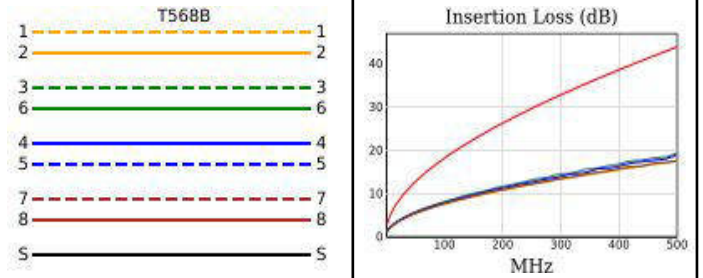
Date / Time: 04/14/2025 11:45:44 AM Operator: Capital Networks
 Headroom: 4.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	218
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 3,6]	7.1
Insertion Loss Margin (dB)	[Pair 3,6]	24.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	4.2	4.8	10.2	7.4
Freq. (MHz)	95.8	81.0	500.0	487.0
Limit (dB)	42.1	43.3	26.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.4	4.7	10.8	9.1
Freq. (MHz)	95.8	62.8	497.0	487.0
Limit (dB)	39.6	42.6	23.8	24.2

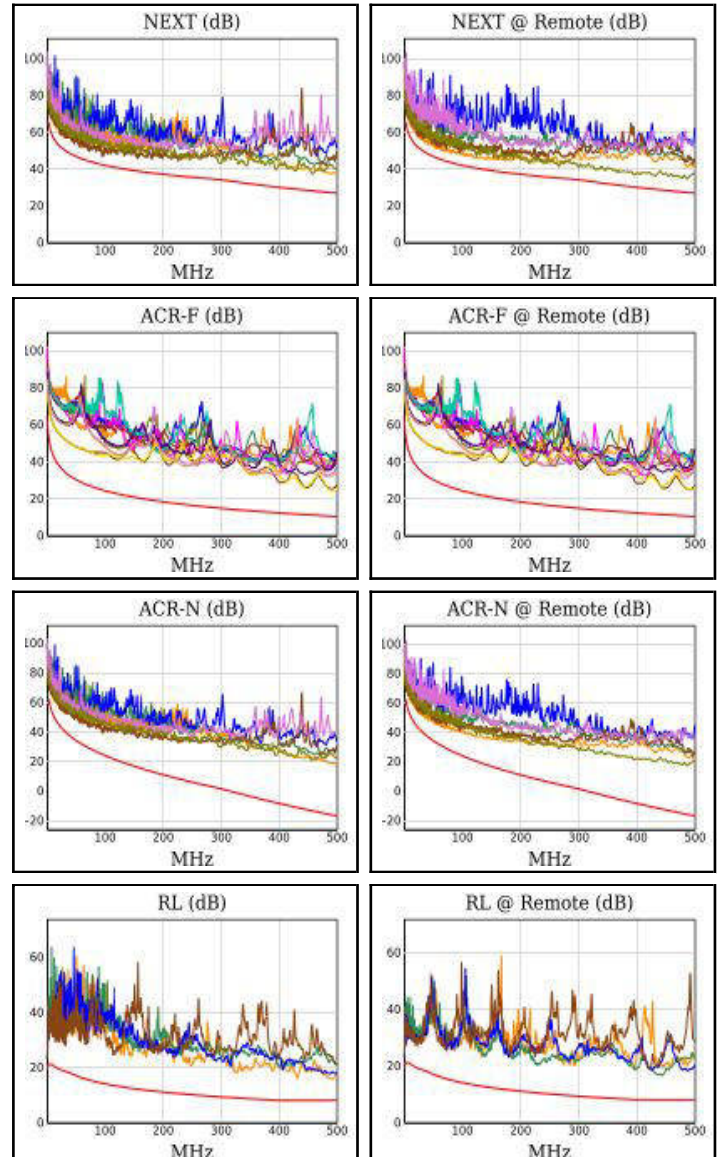
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.6	14.0	13.6	14.0
Freq. (MHz)	491.0	491.0	491.0	491.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.3	16.0	16.3	16.0
Freq. (MHz)	491.0	491.0	491.0	491.0
Limit (dB)	7.4	7.4	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.3	8.0	34.8	33.3
Freq. (MHz)	4.6	4.8	500.0	487.0
Limit (dB)	59.3	59.1	-17.1	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.2	7.3	35.2	33.6
Freq. (MHz)	4.9	4.8	497.0	487.0
Limit (dB)	56.6	56.8	-19.7	-18.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	7.7	7.8	7.7	8.5
Freq. (MHz)	493.0	23.8	493.0	445.0
Limit (dB)	8.0	19.1	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





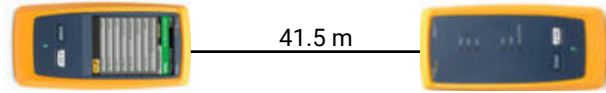
Cable ID: P2-R1-PP2-71

Test Summary: PASS

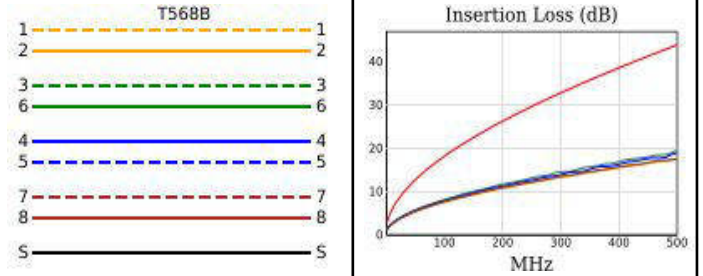
Date / Time: 04/14/2025 11:46:20 AM Operator: Capital Networks
 Headroom: 4.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	218
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 3,6]	7.1
Insertion Loss Margin (dB)	[Pair 3,6]	24.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	3,6-7,8	3,6-7,8
NEXT (dB)	4.2	4.6	8.3	6.6
Freq. (MHz)	95.8	70.5	462.0	482.0
Limit (dB)	42.1	44.3	27.8	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.6	4.6	9.6	9.0
Freq. (MHz)	57.5	70.5	478.0	482.0
Limit (dB)	43.2	41.8	24.4	24.3

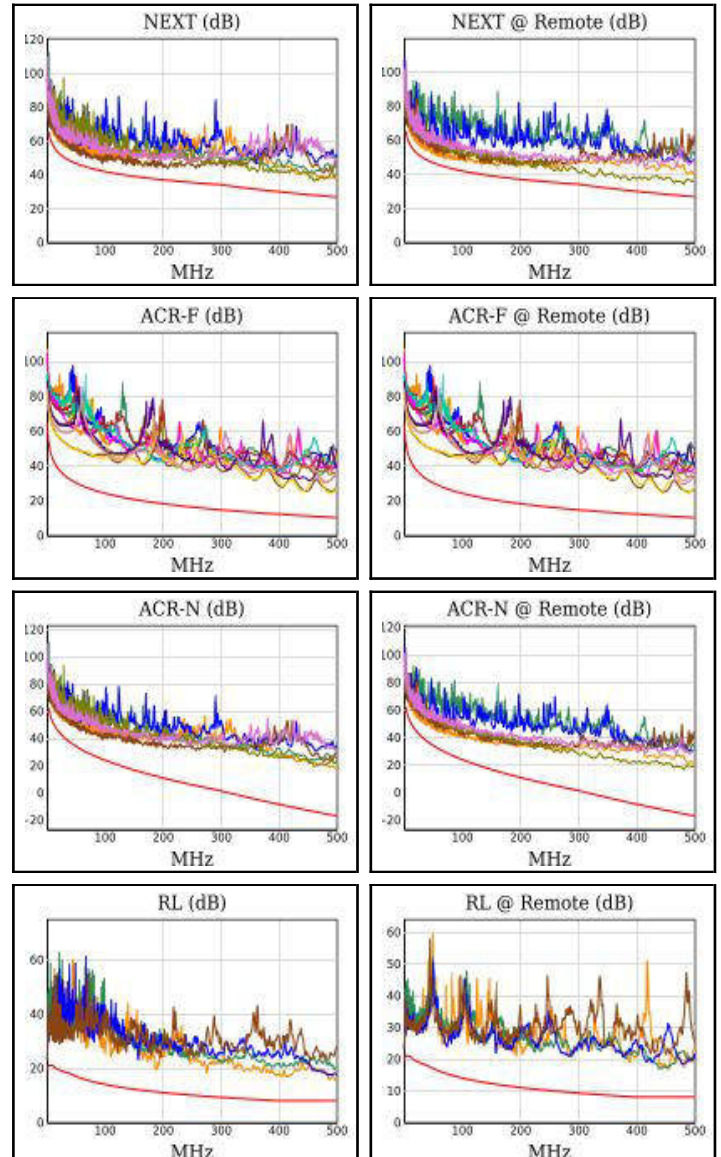
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	13.5	13.6	13.5	14.0
Freq. (MHz)	489.0	446.0	489.0	489.0
Limit (dB)	10.4	11.2	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.3	15.9	16.3	16.0
Freq. (MHz)	489.0	486.0	489.0	490.0
Limit (dB)	7.4	7.5	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.6	8.4	34.8	32.2
Freq. (MHz)	4.6	4.6	500.0	482.0
Limit (dB)	59.3	59.3	-17.1	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.1	7.6	34.8	33.3
Freq. (MHz)	4.8	4.8	495.0	482.0
Limit (dB)	56.8	56.8	-19.6	-18.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.6	8.5	7.6	8.5
Freq. (MHz)	497.0	454.0	497.0	454.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





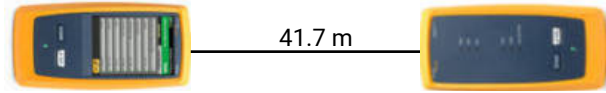
Cable ID: P2-R1-PP2-72

Test Summary: PASS

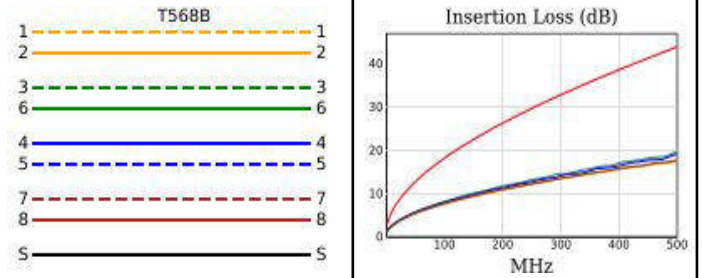
Date / Time: 04/14/2025 11:46:51 AM Operator: Capital Networks
 Headroom: 5.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.7
Prop. Delay (ns), Limit 498	[Pair 3,6]	219
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	24.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

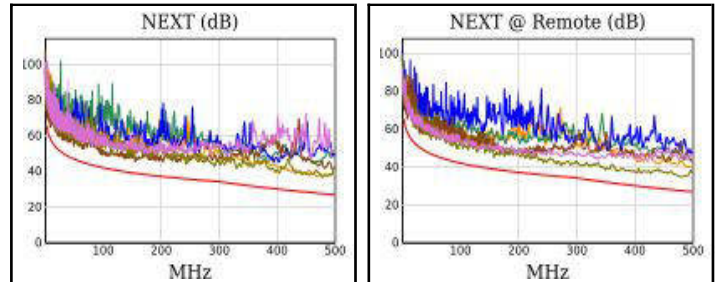


PASS

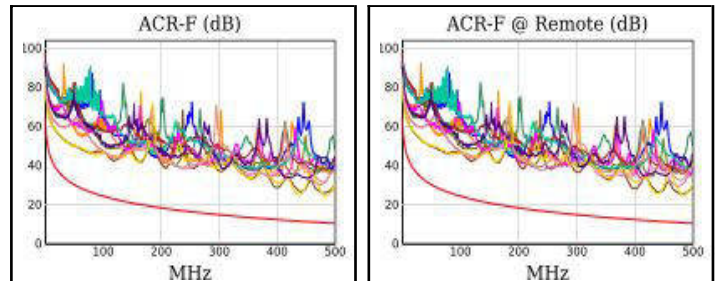


Worst Case Margin Worst Case Value

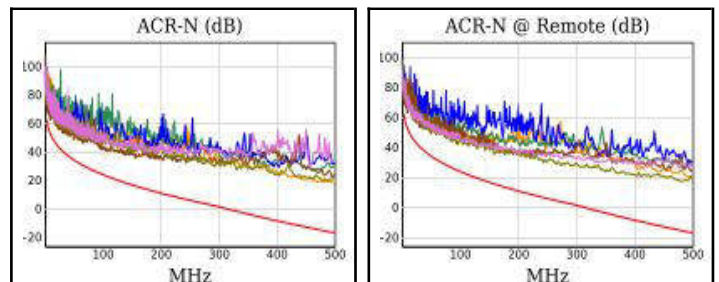
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.1	5.3	8.9	7.0
Freq. (MHz)	4.6	274.0	479.0	479.0
Limit (dB)	63.1	34.7	27.3	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	6.7	9.1	9.1
Freq. (MHz)	4.6	4.6	480.0	487.0
Limit (dB)	60.8	60.8	24.4	24.2



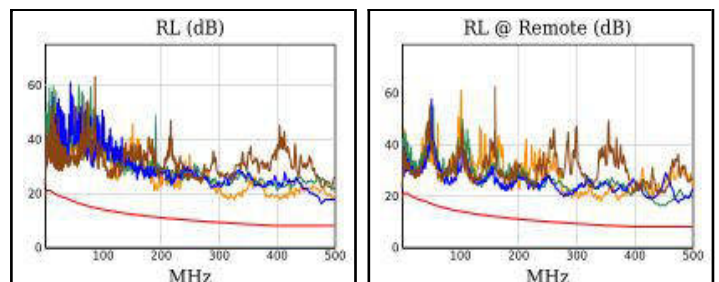
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.5	13.9	13.6	14.0
Freq. (MHz)	438.0	438.0	483.0	483.0
Limit (dB)	11.4	11.4	10.5	10.5
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.0	15.8	16.3	15.8
Freq. (MHz)	441.0	483.0	483.0	483.0
Limit (dB)	8.3	7.5	7.5	7.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.3	8.9	34.3	32.6
Freq. (MHz)	4.6	4.6	500.0	479.0
Limit (dB)	59.3	59.3	-17.1	-15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	8.8	34.2	33.7
Freq. (MHz)	4.6	4.6	495.0	492.0
Limit (dB)	57.0	57.0	-19.6	-19.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	3,6
RL (dB)	8.1	7.5	8.1	8.0
Freq. (MHz)	477.0	22.4	477.0	445.0
Limit (dB)	8.0	19.3	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

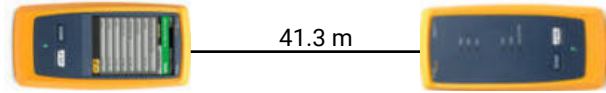


Cable ID: P2-R1-PP2-73

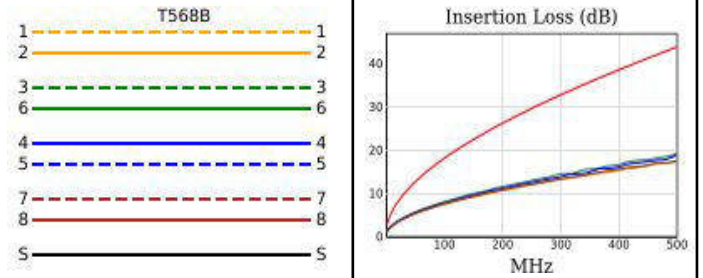
Date / Time: 04/14/2025 11:47:49 AM Operator: Capital Networks
 Headroom: 3.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	41.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	217
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.1
Insertion Loss Margin (dB)	[Pair 3,6]	24.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	4.1	3.6	9.4	9.4
Freq. (MHz)	147.5	57.8	500.0	490.0
Limit (dB)	39.1	45.7	26.7	26.9
Worst Pair	3,6	3,6	1,2	3,6
PS NEXT (dB)	4.3	3.0	10.2	10.2
Freq. (MHz)	147.5	147.5	500.0	490.0
Limit (dB)	36.5	36.5	23.8	24.1

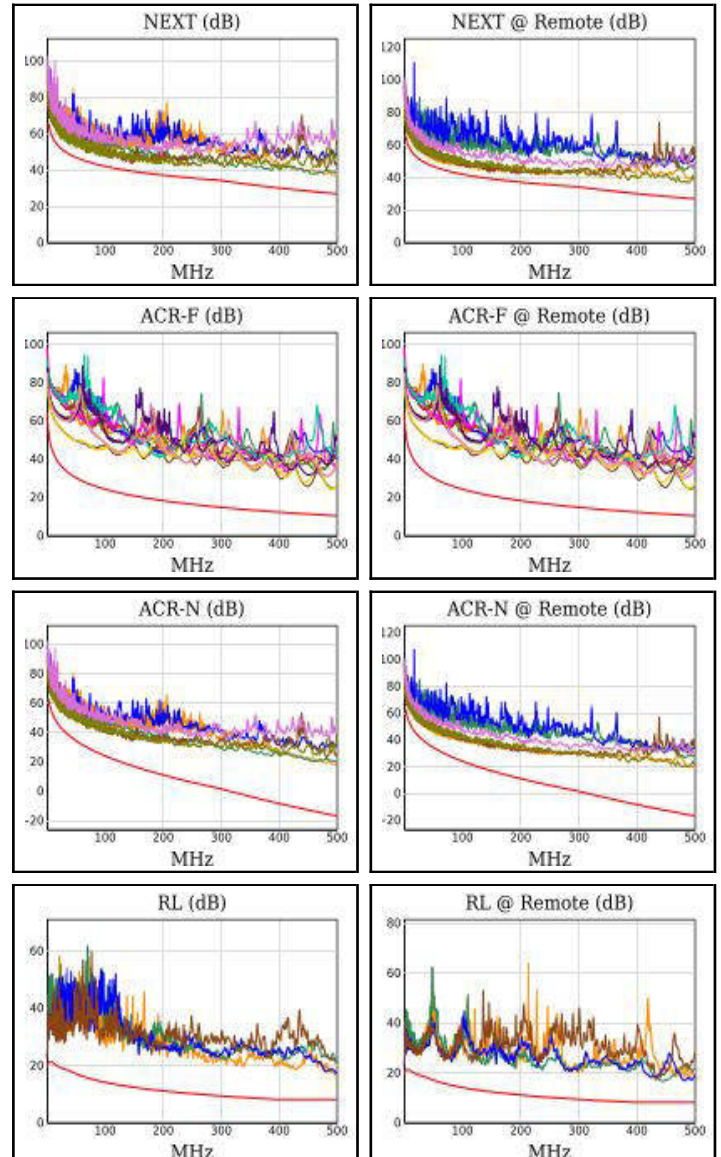
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.7	13.9	13.7	14.0
Freq. (MHz)	491.0	492.0	491.0	496.0
Limit (dB)	10.4	10.4	10.4	10.3
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.4	16.0	16.4	16.0
Freq. (MHz)	491.0	489.0	491.0	489.0
Limit (dB)	7.4	7.4	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.5	6.3	34.1	35.4
Freq. (MHz)	4.8	4.8	500.0	490.0
Limit (dB)	59.1	59.1	-17.1	-16.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	6.4	5.2	36.4	34.8
Freq. (MHz)	4.9	4.8	500.0	490.0
Limit (dB)	56.6	56.8	-20.0	-19.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	3,6
RL (dB)	7.9	7.7	8.4	8.3
Freq. (MHz)	17.5	22.6	498.0	445.0
Limit (dB)	19.8	19.2	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





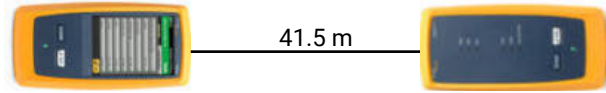
Cable ID: P2-R1-PP2-74

Test Summary: PASS

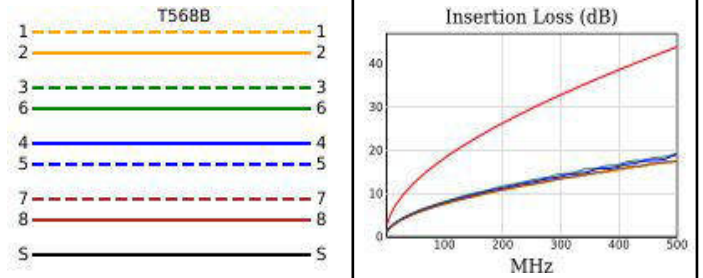
Date / Time: 04/14/2025 11:48:12 AM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	218
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 3,6]	7.1
Insertion Loss Margin (dB)	[Pair 3,6]	24.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

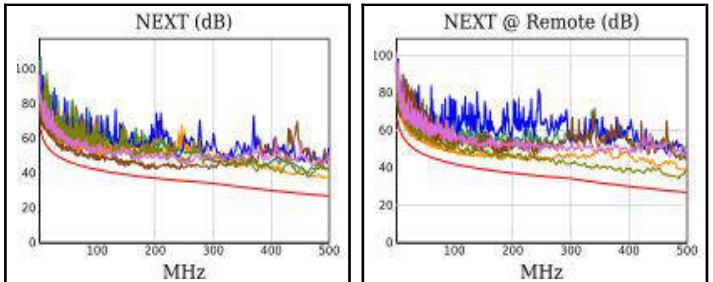


PASS

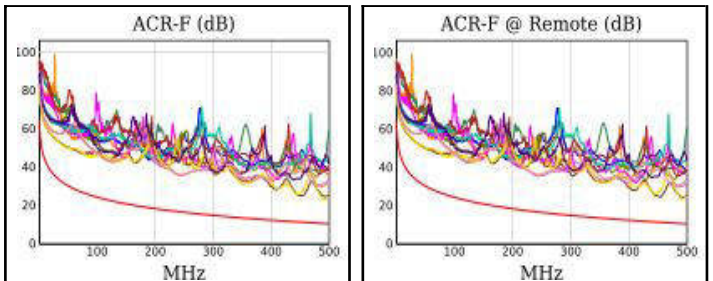


Worst Case Margin Worst Case Value

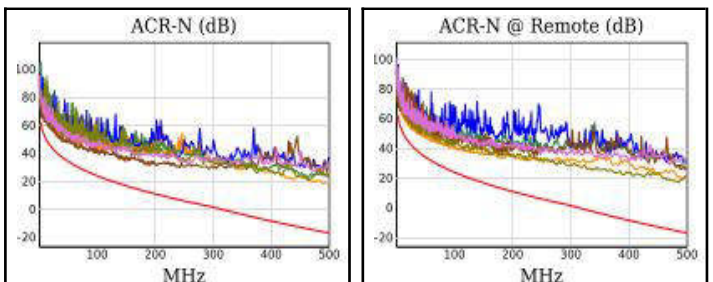
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	4.0	5.1	10.0	6.8
Freq. (MHz)	4.6	107.0	490.0	487.0
Limit (dB)	63.1	41.4	26.9	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.9	5.1	10.0	8.3
Freq. (MHz)	4.8	128.5	469.0	487.0
Limit (dB)	60.6	37.5	24.7	24.2



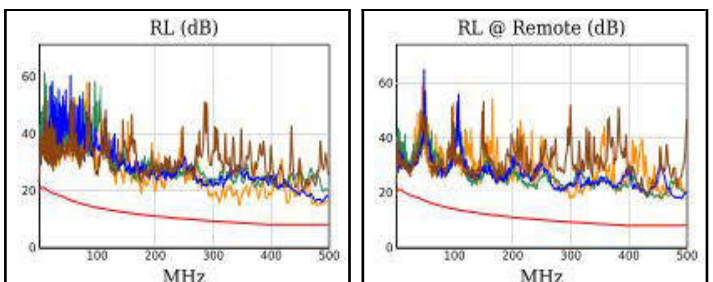
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	12.6	12.9	12.7	13.0
Freq. (MHz)	491.0	492.0	494.0	494.0
Limit (dB)	10.4	10.4	10.3	10.3
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.4	14.8	15.5	14.8
Freq. (MHz)	491.0	492.0	494.0	492.0
Limit (dB)	7.4	7.4	7.3	7.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.2	8.0	35.0	32.7
Freq. (MHz)	4.6	4.8	500.0	487.0
Limit (dB)	59.3	59.1	-17.1	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.0	7.4	36.4	32.8
Freq. (MHz)	4.8	4.8	500.0	487.0
Limit (dB)	56.8	56.8	-20.0	-18.9



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	6.1	6.8	6.5	9.2
Freq. (MHz)	346.0	25.1	481.0	454.0
Limit (dB)	8.6	19.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



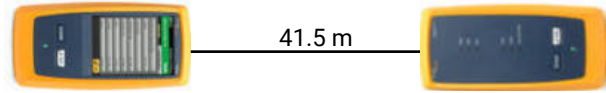
Cable ID: P2-R1-PP2-75

Test Summary: PASS

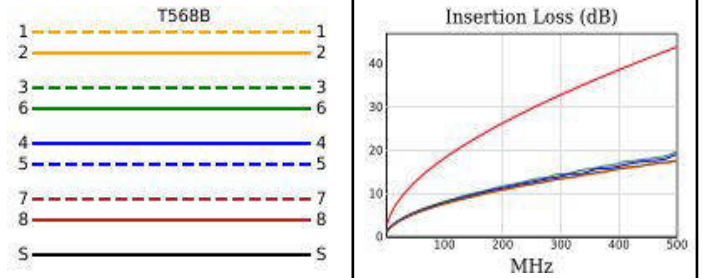
Date / Time: 04/14/2025 11:49:37 AM Operator: Capital Networks
 Headroom: 4.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.5
Prop. Delay (ns), Limit 498	[Pair 3,6]	218
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 3,6]	7.1
Insertion Loss Margin (dB)	[Pair 3,6]	24.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

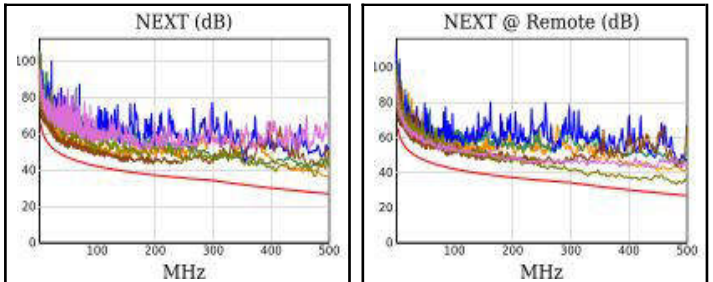


PASS

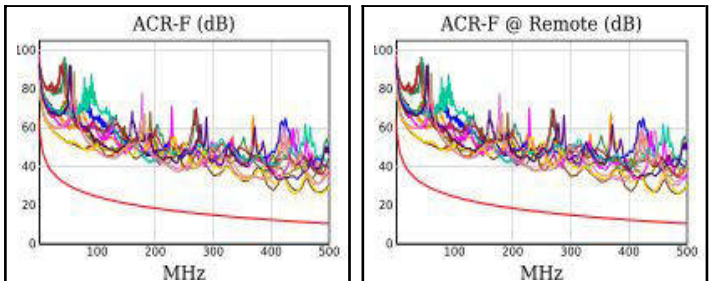


Worst Case Margin Worst Case Value

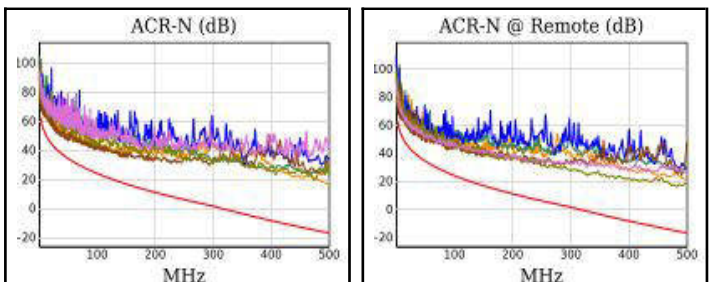
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.9	5.1	9.2	5.9
Freq. (MHz)	143.5	330.0	499.0	482.0
Limit (dB)	39.3	32.6	26.7	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.1	5.8	9.4	8.3
Freq. (MHz)	141.0	4.8	476.0	484.0
Limit (dB)	36.8	60.6	24.5	24.2



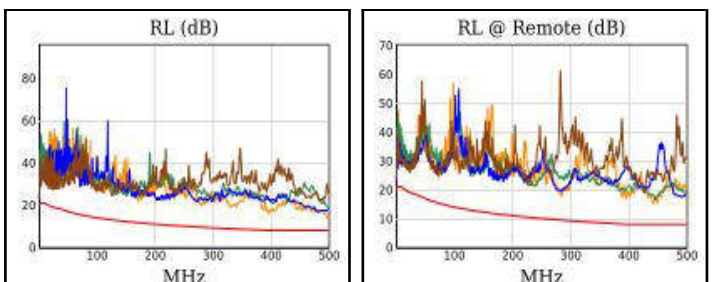
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.3	14.7	14.9	15.3
Freq. (MHz)	443.0	405.0	488.0	488.0
Limit (dB)	11.3	12.0	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.5	16.6	17.4	16.6
Freq. (MHz)	443.0	486.0	488.0	486.0
Limit (dB)	8.3	7.5	7.4	7.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.3	7.6	33.4	31.5
Freq. (MHz)	4.6	4.5	499.0	482.0
Limit (dB)	59.3	59.5	-17.0	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.7	7.9	34.9	32.9
Freq. (MHz)	4.8	4.8	494.0	491.0
Limit (dB)	56.8	56.8	-19.5	-19.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	5.6	7.0	5.6	7.0
Freq. (MHz)	500.0	443.0	500.0	443.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



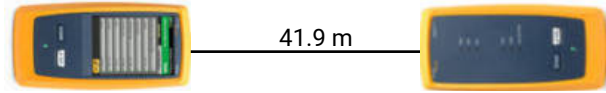
Cable ID: P2-R1-PP2-76

Test Summary: PASS

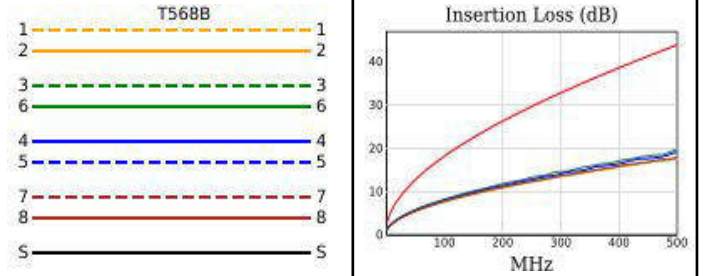
Date / Time: 04/14/2025 11:50:23 AM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.9
Prop. Delay (ns), Limit 498	[Pair 3,6]	220
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	24.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

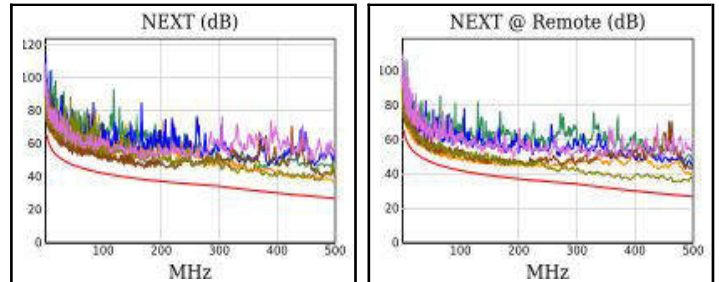


PASS

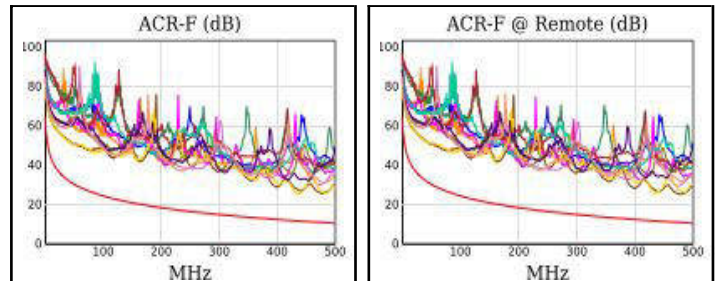


Worst Case Margin Worst Case Value

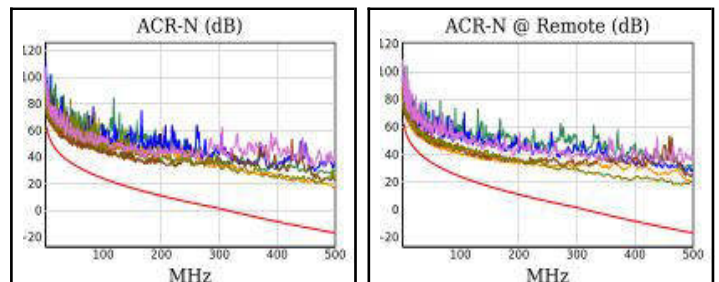
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	6.5	4.7	9.6	7.4
Freq. (MHz)	47.3	67.0	497.0	468.0
Limit (dB)	47.1	44.7	26.7	27.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	4.5	9.7	9.8
Freq. (MHz)	4.8	137.0	478.0	494.0
Limit (dB)	60.6	37.0	24.4	23.9



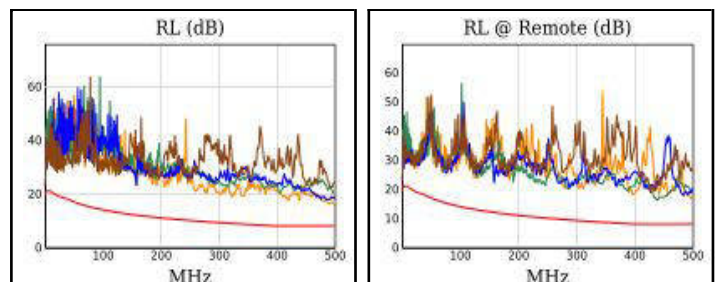
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	13.6	14.1	13.6	14.3
Freq. (MHz)	438.0	438.0	438.0	480.0
Limit (dB)	11.4	11.4	11.4	10.6
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	15.9	16.7	16.5	16.7
Freq. (MHz)	438.0	480.0	478.0	480.0
Limit (dB)	8.4	7.6	7.6	7.6



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.2	8.8	33.7	33.2
Freq. (MHz)	4.6	4.6	497.0	480.0
Limit (dB)	59.3	59.3	-16.9	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	7.5	34.6	33.9
Freq. (MHz)	4.8	4.6	500.0	494.0
Limit (dB)	56.8	57.0	-20.0	-19.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	8.1	7.5	8.1	8.1
Freq. (MHz)	497.0	21.0	497.0	440.0
Limit (dB)	8.0	19.4	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

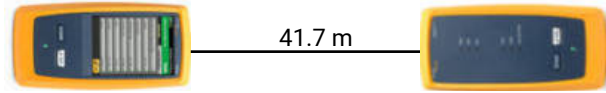


Cable ID: P2-R1-PP2-77

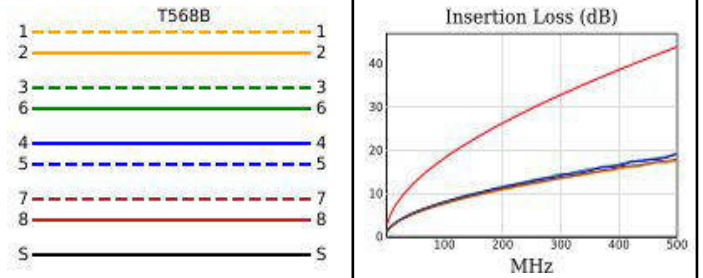
Date / Time: 04/14/2025 11:50:50 AM Operator: Capital Networks
 Headroom: 3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	41.7
Prop. Delay (ns), Limit 498	[Pair 3,6]	219
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	24.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	3.0	9.0	6.1
Freq. (MHz)	40.0	373.0	486.0	491.0
Limit (dB)	48.3	30.9	27.1	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.2	3.9	9.6	7.4
Freq. (MHz)	4.8	137.5	494.0	491.0
Limit (dB)	60.6	37.0	23.9	24.0

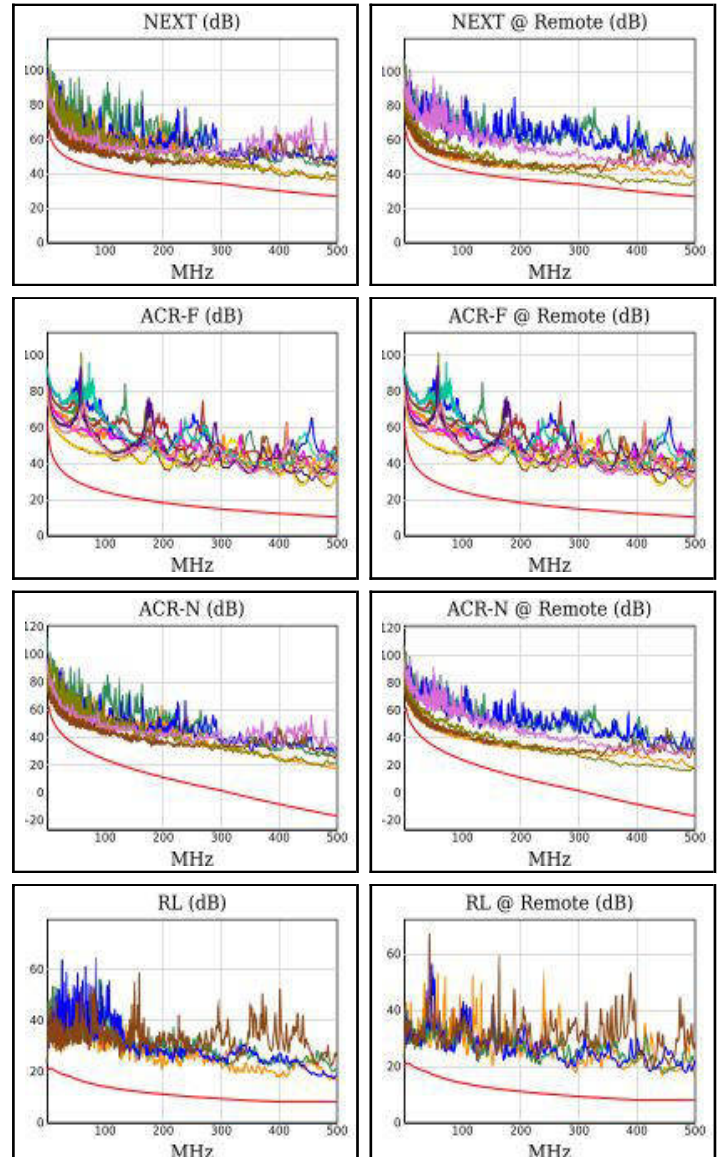
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	15.6	15.7	15.6	15.7
Freq. (MHz)	487.0	487.0	487.0	487.0
Limit (dB)	10.4	10.4	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	17.8	17.5	17.8	17.5
Freq. (MHz)	487.0	487.0	487.0	487.0
Limit (dB)	7.4	7.4	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.9	7.3	34.2	31.8
Freq. (MHz)	4.6	4.8	499.0	491.0
Limit (dB)	59.3	59.1	-17.0	-16.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	7.1	34.3	31.9
Freq. (MHz)	4.8	4.6	496.0	491.0
Limit (dB)	56.8	57.0	-19.7	-19.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	3,6	1,2	1,2
RL (dB)	8.0	6.6	8.6	8.4
Freq. (MHz)	17.1	19.8	498.0	445.0
Limit (dB)	19.8	19.5	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





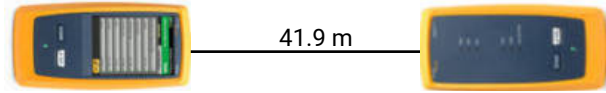
Cable ID: P2-R1-PP2-78

Test Summary: PASS

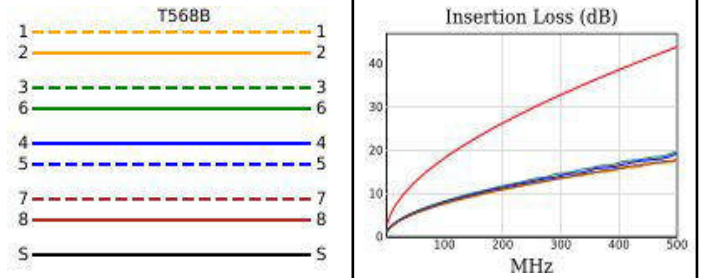
Date / Time: 04/14/2025 11:51:26 AM Operator: Capital Networks
 Headroom: 6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.9
Prop. Delay (ns), Limit 498	[Pair 3,6]	220
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	24.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

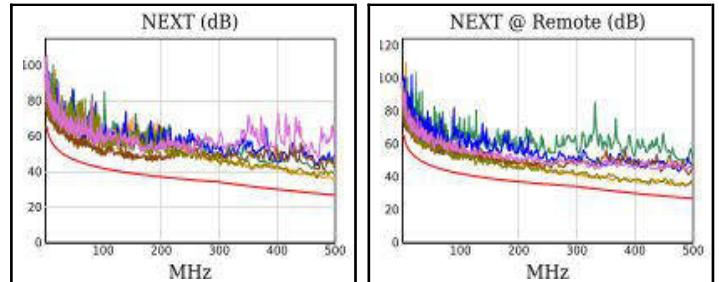


PASS

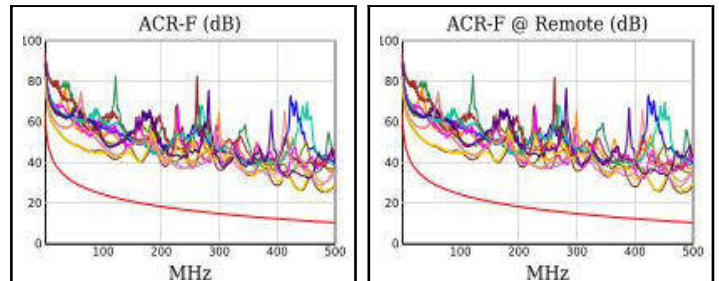


Worst Case Margin Worst Case Value

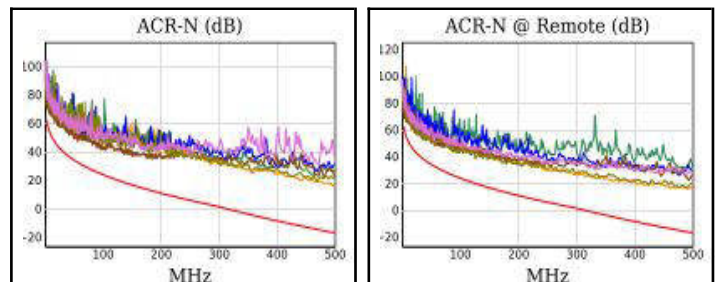
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	6.9	6.0	8.3	7.2
Freq. (MHz)	97.0	425.0	500.0	488.0
Limit (dB)	42.1	29.0	26.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.1	6.0	9.2	7.2
Freq. (MHz)	102.0	270.0	500.0	488.0
Limit (dB)	39.2	32.1	23.8	24.1



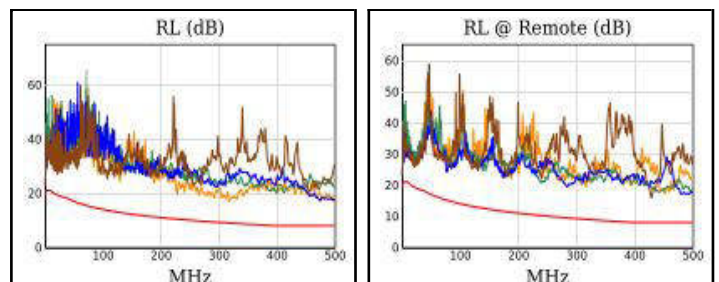
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.5	14.1	14.5	14.1
Freq. (MHz)	478.0	478.0	478.0	478.0
Limit (dB)	10.6	10.6	10.6	10.6
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	16.1	16.5	16.1	16.5
Freq. (MHz)	478.0	482.0	478.0	482.0
Limit (dB)	7.6	7.5	7.6	7.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	10.3	9.2	32.6	32.2
Freq. (MHz)	4.5	4.6	500.0	492.0
Limit (dB)	59.5	59.3	-17.1	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	11.3	10.4	33.5	31.3
Freq. (MHz)	7.0	4.6	500.0	488.0
Limit (dB)	53.3	57.0	-20.0	-19.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	7.7	6.4	8.4	7.7
Freq. (MHz)	317.0	22.3	500.0	429.0
Limit (dB)	9.0	19.3	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



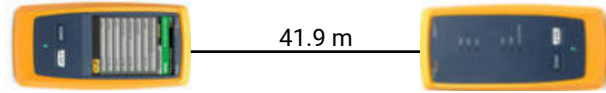
Cable ID: P2-R1-PP2-79

Test Summary: PASS

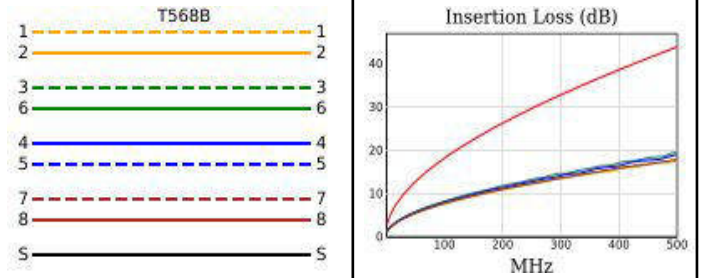
Date / Time: 04/14/2025 11:52:07 AM Operator: Capital Networks
 Headroom: 4.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.9
Prop. Delay (ns), Limit 498	[Pair 3,6]	220
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	24.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	5.7	4.5	9.1	6.9
Freq. (MHz)	4.6	47.3	494.0	483.0
Limit (dB)	63.1	47.1	26.8	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.9	4.3	9.1	9.2
Freq. (MHz)	4.8	72.5	494.0	483.0
Limit (dB)	60.6	41.6	23.9	24.3

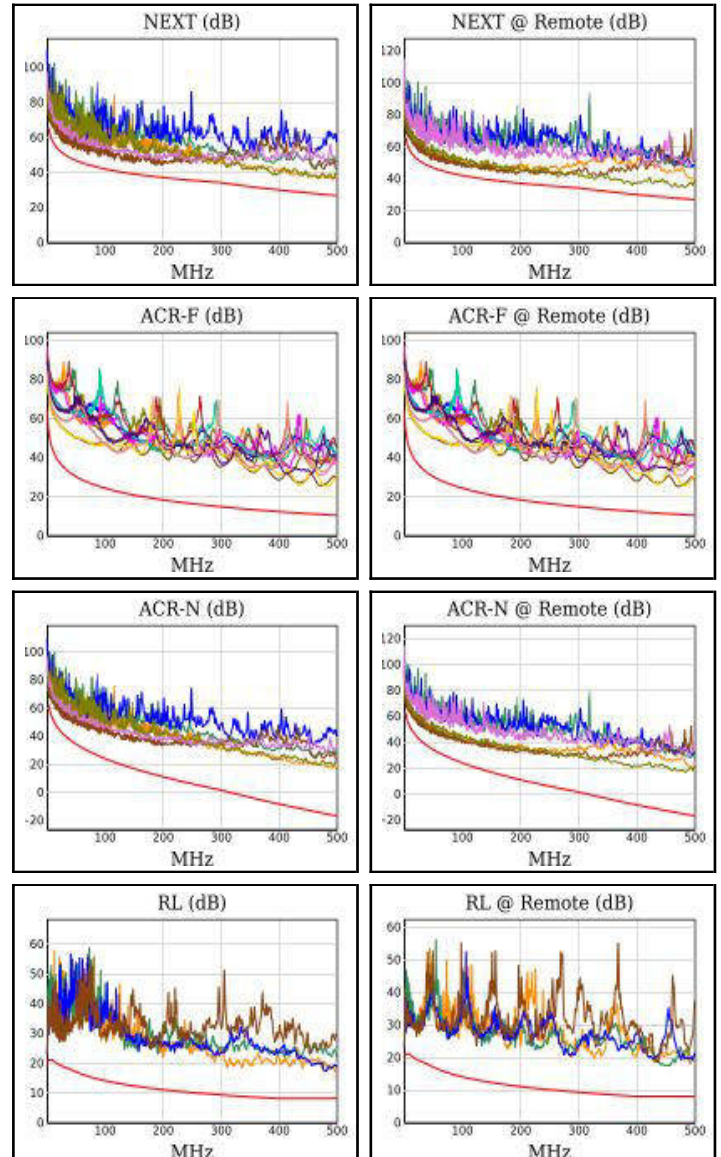
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.0	14.2	14.3	14.2
Freq. (MHz)	437.0	472.0	479.0	472.0
Limit (dB)	11.4	10.7	10.6	10.7
Worst Pair	3,6	4,5	4,5	4,5
PS ACR-F (dB)	16.4	16.5	16.6	16.5
Freq. (MHz)	437.0	479.0	472.0	479.0
Limit (dB)	8.4	7.6	7.7	7.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.9	6.9	34.0	32.3
Freq. (MHz)	4.8	4.6	499.0	483.0
Limit (dB)	59.1	59.3	-17.0	-15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.0	7.5	33.2	34.4
Freq. (MHz)	4.8	4.6	494.0	497.0
Limit (dB)	56.8	57.0	-19.5	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	3,6
RL (dB)	7.6	7.0	8.7	9.2
Freq. (MHz)	22.1	22.1	500.0	457.0
Limit (dB)	19.3	19.3	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





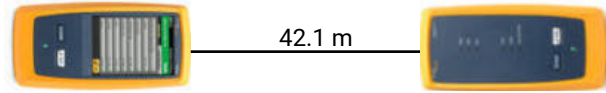
Cable ID: P2-R1-PP2-80

Test Summary: PASS

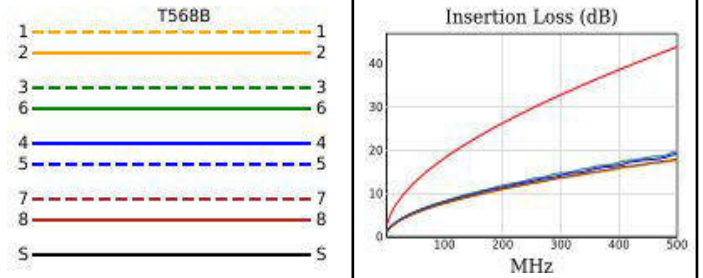
Date / Time: 04/14/2025 11:53:24 AM Operator: Capital Networks
 Headroom: 5.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	221
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

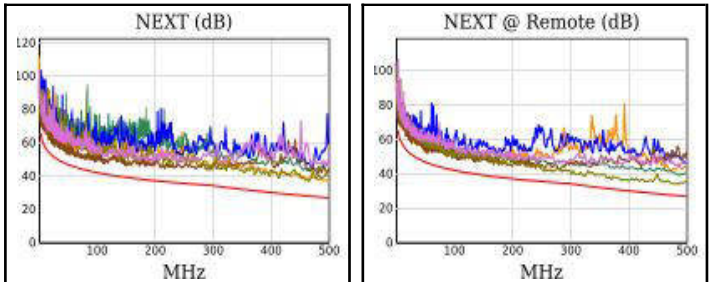


PASS

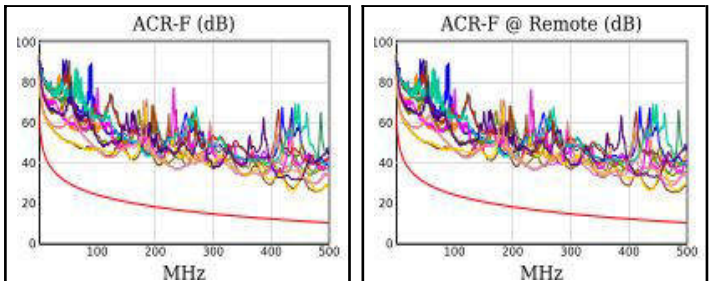


Worst Case Margin Worst Case Value

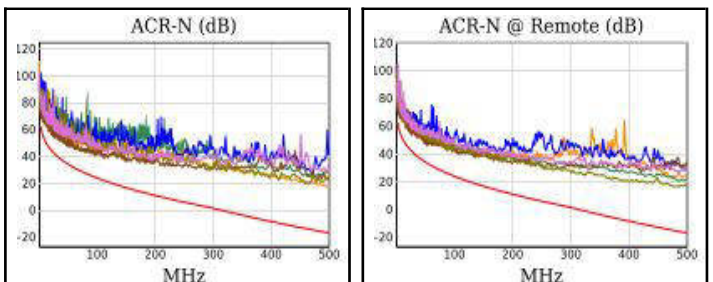
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.5	5.2	8.6	6.3
Freq. (MHz)	49.3	324.0	466.0	486.0
Limit (dB)	46.8	32.9	27.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	6.0	8.9	8.6
Freq. (MHz)	64.3	255.0	466.0	481.0
Limit (dB)	42.5	32.6	24.8	24.3



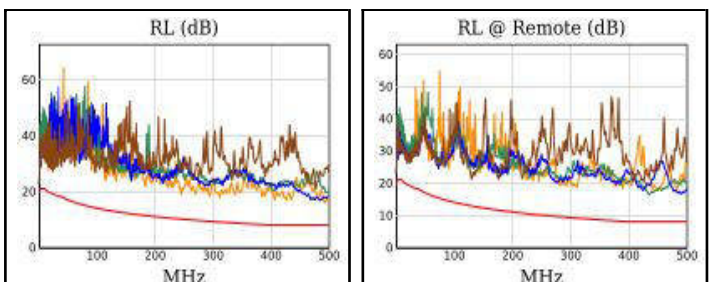
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.5	14.7	15.2	14.7
Freq. (MHz)	435.0	476.0	478.0	476.0
Limit (dB)	11.4	10.6	10.6	10.6
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.4	16.9	16.4	16.9
Freq. (MHz)	476.0	476.0	476.0	476.0
Limit (dB)	7.6	7.6	7.6	7.6



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.4	8.4	34.1	31.9
Freq. (MHz)	4.5	4.8	497.0	486.0
Limit (dB)	59.5	59.1	-16.9	-16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.1	8.4	34.7	33.3
Freq. (MHz)	4.6	4.8	499.0	494.0
Limit (dB)	57.0	56.8	-19.9	-19.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	3,6
RL (dB)	7.6	6.5	7.8	8.3
Freq. (MHz)	17.1	19.9	493.0	435.0
Limit (dB)	19.8	19.5	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



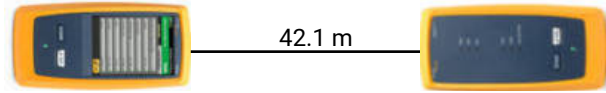
Cable ID: P2-R1-PP2-81

Test Summary: PASS

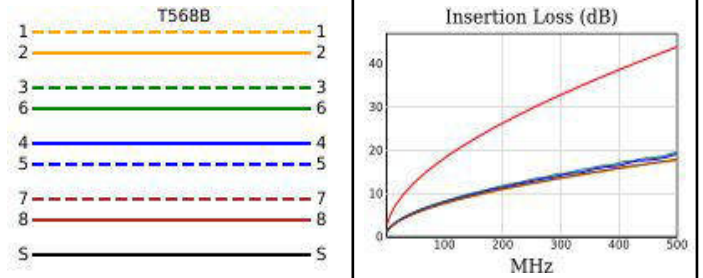
Date / Time: 04/14/2025 11:58:03 AM Operator: Capital Networks
 Headroom: 2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.1
Prop. Delay (ns), Limit 498	[Pair 3,6]	221
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

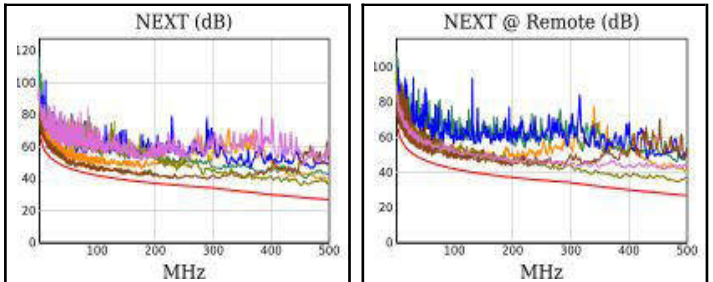


PASS

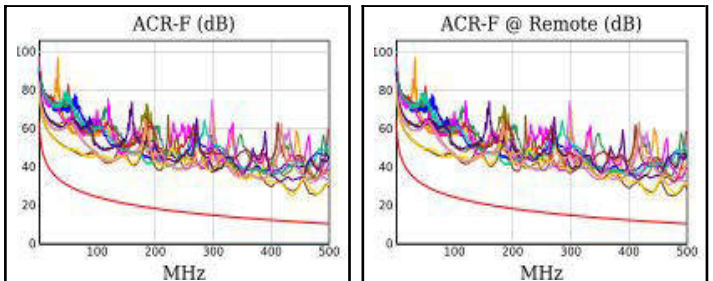


Worst Case Margin Worst Case Value

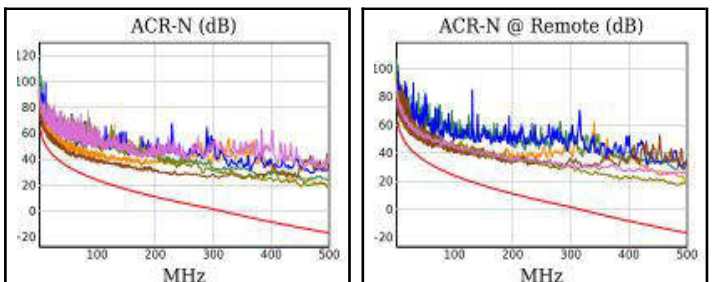
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	2.0	4.3	7.2	7.0
Freq. (MHz)	54.5	62.0	453.0	484.0
Limit (dB)	46.1	45.2	28.1	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	3.5	4.3	10.2	9.2
Freq. (MHz)	51.8	61.8	497.0	484.0
Limit (dB)	44.0	42.7	23.8	24.2



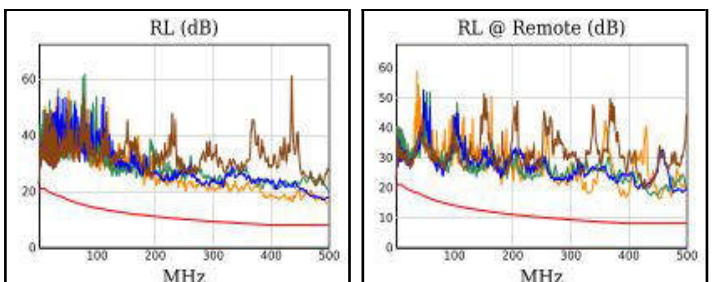
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.8	14.0	14.4	14.0
Freq. (MHz)	438.0	476.0	476.0	476.0
Limit (dB)	11.4	10.6	10.6	10.6
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.1	16.3	16.4	16.3
Freq. (MHz)	438.0	476.0	476.0	476.0
Limit (dB)	8.4	7.6	7.6	7.6



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.0	6.7	35.2	32.4
Freq. (MHz)	4.6	4.8	497.0	484.0
Limit (dB)	59.3	59.1	-16.9	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	6.6	6.8	34.6	33.7
Freq. (MHz)	4.8	4.8	500.0	489.0
Limit (dB)	56.8	56.8	-20.0	-19.1



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	7.5	7.2	7.5	7.9
Freq. (MHz)	497.0	24.5	497.0	451.0
Limit (dB)	8.0	19.1	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



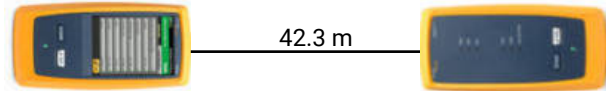
Cable ID: P2-R1-PP2-82

Test Summary: PASS

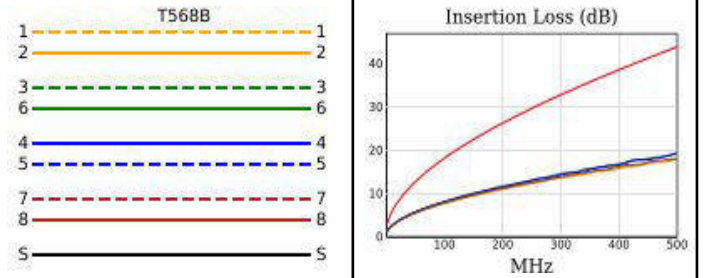
Date / Time: 04/14/2025 12:03:07 PM Operator: Capital Networks
 Headroom: 4.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	221
Delay Skew (ns), Limit 44	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.8	4.9	9.0	6.6
Freq. (MHz)	130.5	328.0	497.0	488.0
Limit (dB)	40.0	32.7	26.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.9	5.5	9.2	8.5
Freq. (MHz)	4.5	4.6	492.0	488.0
Limit (dB)	61.0	60.8	24.0	24.1

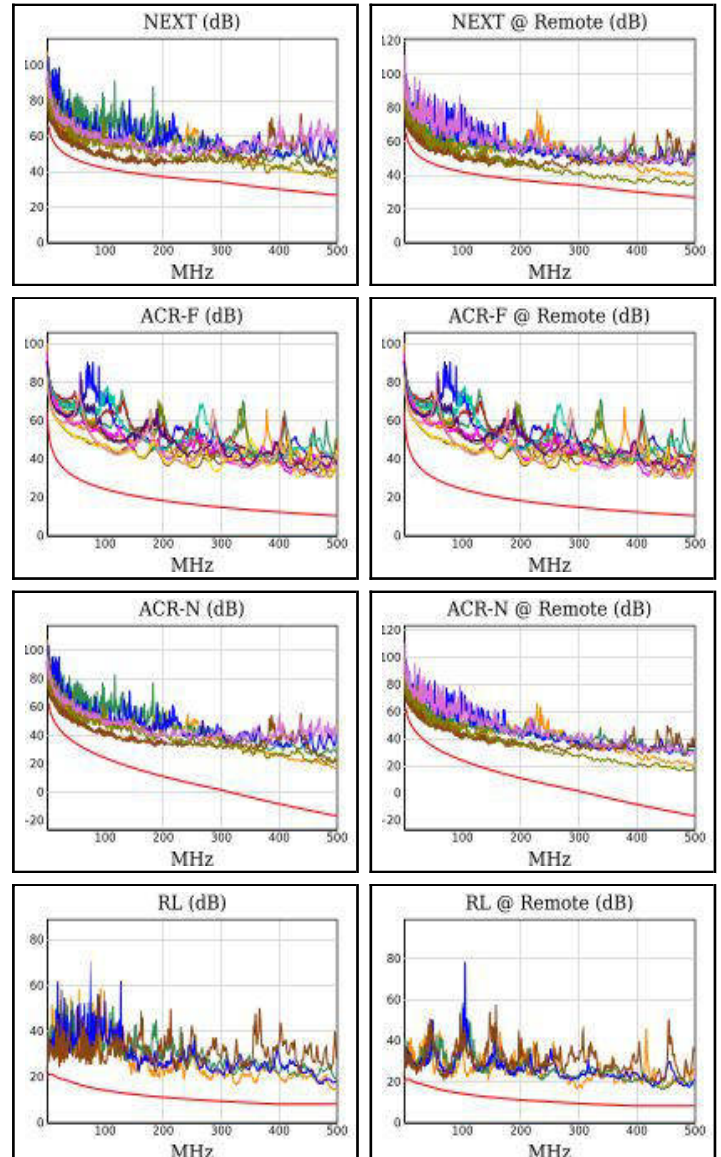
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	7,8-4,5
ACR-F (dB)	18.4	18.3	18.7	18.9
Freq. (MHz)	293.0	207.5	434.0	474.0
Limit (dB)	14.9	17.8	11.4	10.7
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	19.0	19.3	20.2	19.3
Freq. (MHz)	1.1	434.0	469.0	434.0
Limit (dB)	60.2	8.4	7.8	8.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.3	7.2	33.4	32.0
Freq. (MHz)	4.5	4.6	497.0	488.0
Limit (dB)	59.5	59.3	-16.9	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.0	7.6	34.1	32.8
Freq. (MHz)	4.5	4.6	500.0	488.0
Limit (dB)	57.2	57.0	-20.0	-19.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	3,6
RL (dB)	5.1	4.3	6.1	8.1
Freq. (MHz)	21.9	21.9	494.0	443.0
Limit (dB)	19.3	19.3	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





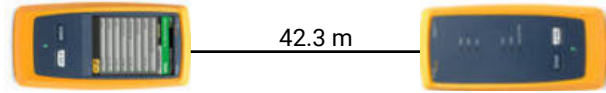
Cable ID: P2-R1-PP2-83

Test Summary: PASS

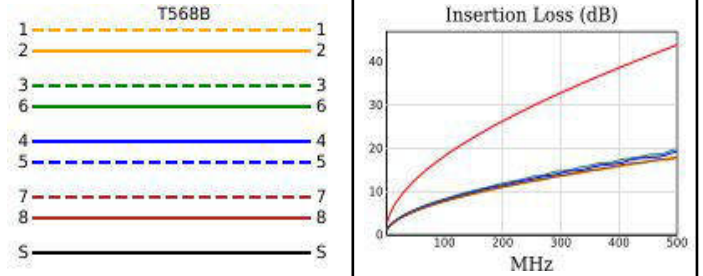
Date / Time: 04/14/2025 12:03:57 PM Operator: Capital Networks
 Headroom: 4.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	42.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	222
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.3
Insertion Loss Margin (dB)	[Pair 3,6]	24.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.8	5.1	9.1	8.1
Freq. (MHz)	51.8	51.8	492.0	484.0
Limit (dB)	46.5	46.5	26.9	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.9	6.9	9.5	8.9
Freq. (MHz)	133.0	51.8	492.0	482.0
Limit (dB)	37.3	44.0	24.0	24.3

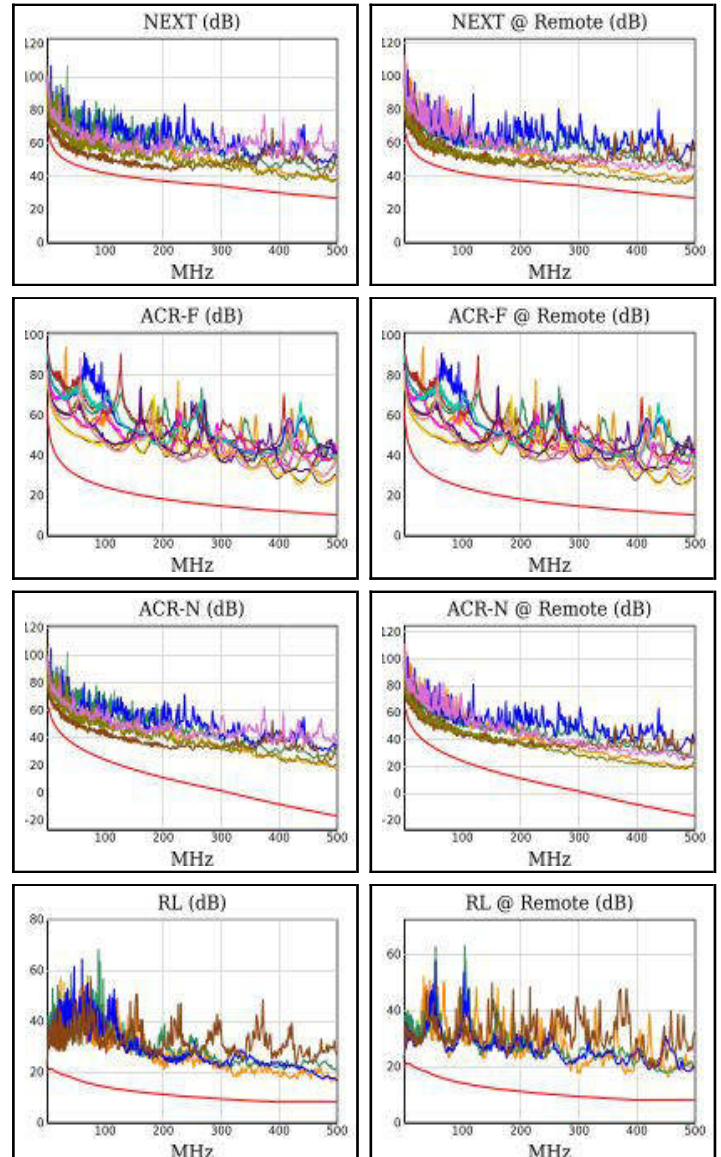
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.7	14.0	14.3	14.7
Freq. (MHz)	436.0	436.0	488.0	486.0
Limit (dB)	11.4	11.4	10.4	10.5
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.9	16.4	16.8	16.5
Freq. (MHz)	436.0	479.0	486.0	486.0
Limit (dB)	8.4	7.6	7.5	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.1	8.3	34.5	33.5
Freq. (MHz)	4.5	4.6	500.0	484.0
Limit (dB)	59.5	59.3	-17.1	-15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.0	9.0	33.3	32.8
Freq. (MHz)	4.5	4.6	492.0	482.0
Limit (dB)	57.2	57.0	-19.3	-18.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	1,2
RL (dB)	7.4	7.1	7.4	8.0
Freq. (MHz)	500.0	17.5	500.0	455.0
Limit (dB)	8.0	19.8	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



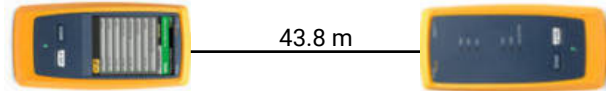


Cable ID: P2-R1-PP2-84

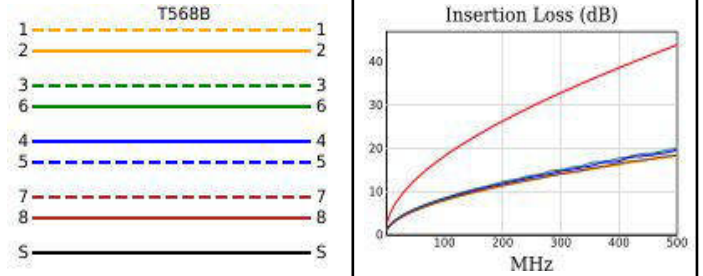
Date / Time: 04/14/2025 12:10:40 PM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	43.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	229
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	24.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	5.7	10.0	7.1
Freq. (MHz)	54.8	121.5	498.0	485.0
Limit (dB)	46.1	40.5	26.7	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.7	6.6	10.0	8.4
Freq. (MHz)	54.8	124.0	493.0	485.0
Limit (dB)	43.6	37.8	24.0	24.2

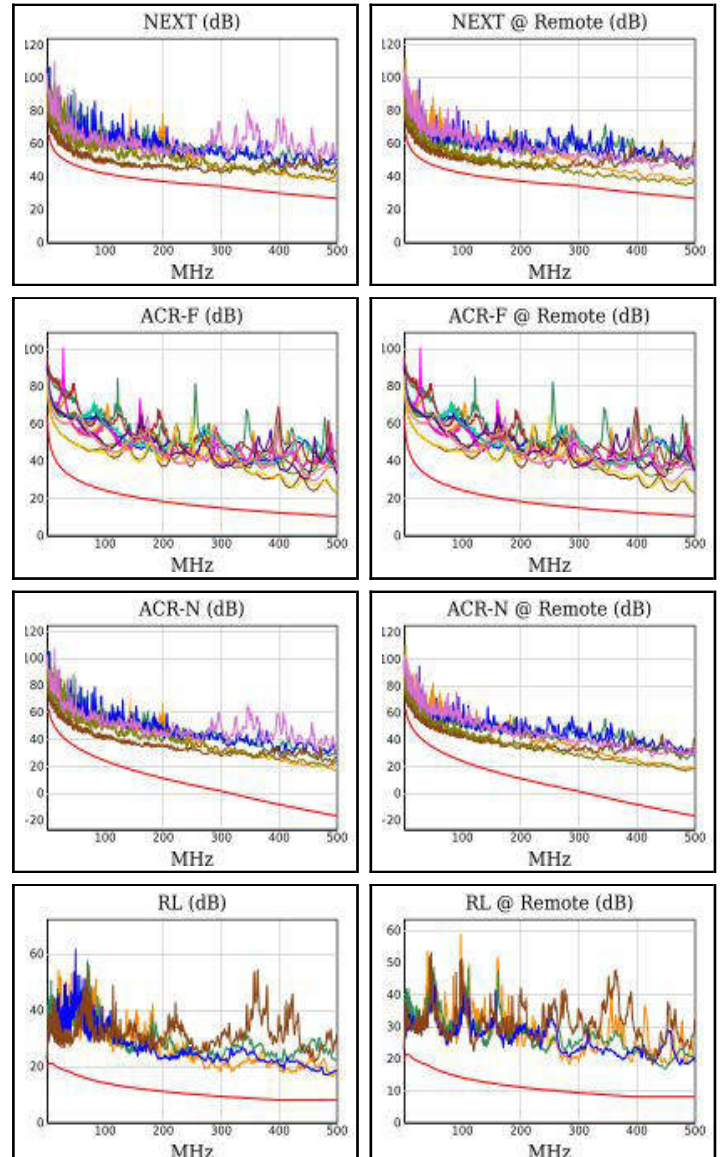
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	12.9	12.6	12.9	12.7
Freq. (MHz)	500.0	459.0	500.0	500.0
Limit (dB)	10.2	11.0	10.2	10.2
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	15.1	15.2	15.7	15.2
Freq. (MHz)	459.0	500.0	500.0	500.0
Limit (dB)	8.0	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.1	7.7	33.8	32.0
Freq. (MHz)	4.4	4.4	498.0	485.0
Limit (dB)	59.8	59.8	-16.9	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	8.8	33.7	31.8
Freq. (MHz)	4.4	4.4	493.0	485.0
Limit (dB)	57.5	57.5	-19.4	-18.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	1,2	3,6
RL (dB)	7.5	8.2	8.3	8.7
Freq. (MHz)	26.0	285.0	494.0	449.0
Limit (dB)	18.9	9.5	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





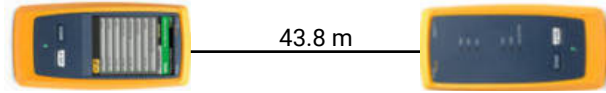
Cable ID: P2-R1-PP2-85

Test Summary: PASS

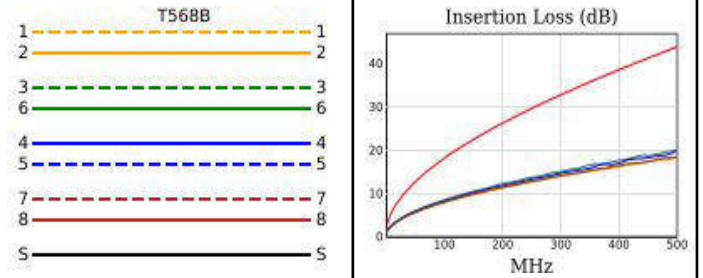
Date / Time: 04/14/2025 12:07:13 PM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	229
Delay Skew (ns), Limit 44	[Pair 3,6]	15
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

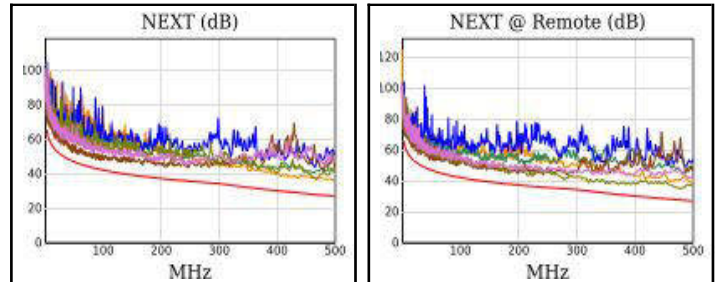


PASS

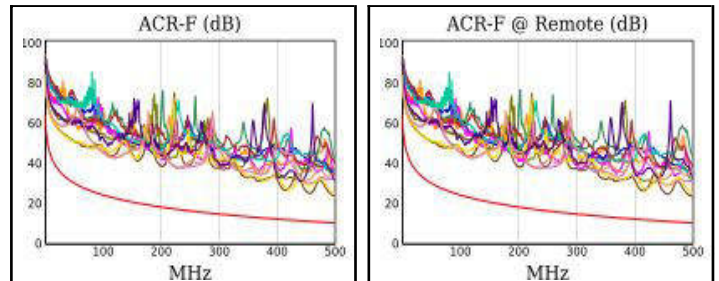


Worst Case Margin Worst Case Value

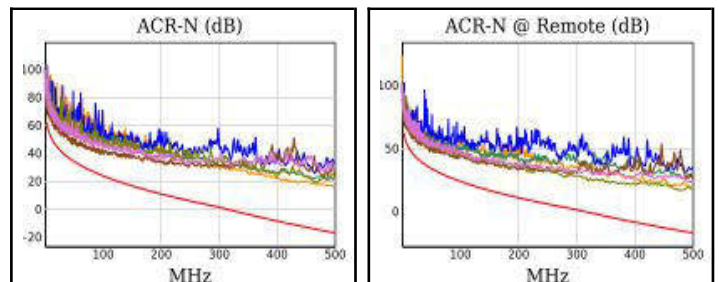
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.6	5.6	8.8	7.2
Freq. (MHz)	47.5	321.0	500.0	478.0
Limit (dB)	47.1	33.0	26.7	27.3
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	6.2	6.1	8.7	9.1
Freq. (MHz)	81.0	4.4	470.0	478.0
Limit (dB)	40.8	61.2	24.7	24.4



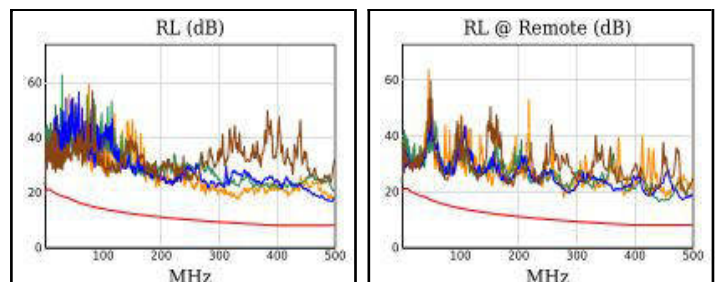
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.6	13.3	13.6	13.4
Freq. (MHz)	498.0	497.0	498.0	498.0
Limit (dB)	10.2	10.3	10.2	10.2
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	15.9	15.5	16.0	15.6
Freq. (MHz)	458.0	497.0	500.0	499.0
Limit (dB)	8.0	7.3	7.2	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.9	7.7	32.7	31.7
Freq. (MHz)	4.4	4.4	500.0	478.0
Limit (dB)	59.8	59.8	-17.1	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.8	8.1	34.1	32.3
Freq. (MHz)	4.5	4.4	500.0	478.0
Limit (dB)	57.2	57.5	-20.0	-18.2



PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	4,5	3,6
RL (dB)	7.7	7.5	8.7	8.3
Freq. (MHz)	18.8	18.9	495.0	442.0
Limit (dB)	19.6	19.6	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



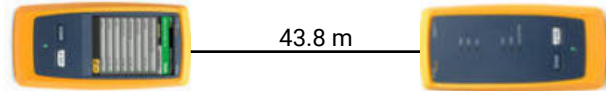
Cable ID: P2-R1-PP2-86

Test Summary: PASS

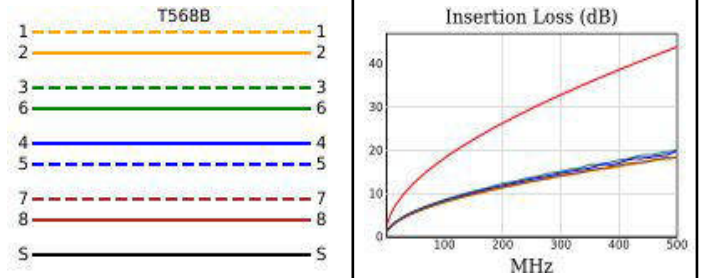
Date / Time: 04/14/2025 12:07:59 PM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	230
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

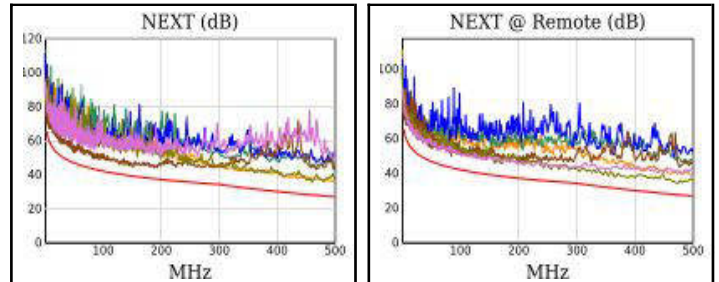


PASS

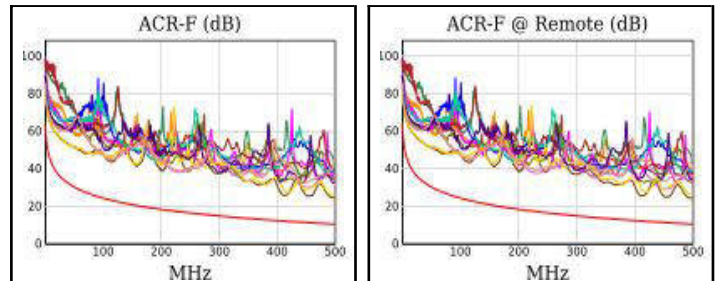


Worst Case Margin Worst Case Value

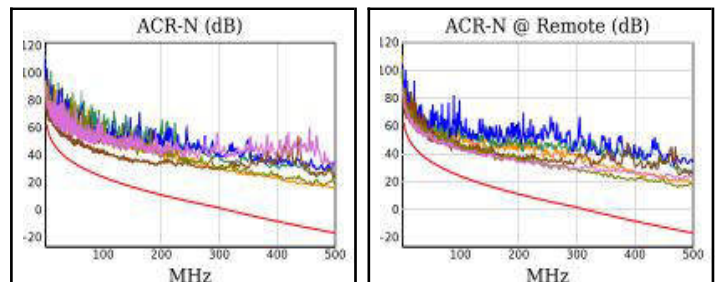
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.1	6.4	8.3	6.5
Freq. (MHz)	145.5	367.0	499.0	474.0
Limit (dB)	39.2	31.1	26.7	27.4
Worst Pair	3,6	4,5	3,6	3,6
PS NEXT (dB)	7.2	7.1	8.9	8.2
Freq. (MHz)	145.5	85.5	500.0	475.0
Limit (dB)	36.6	40.4	23.8	24.5



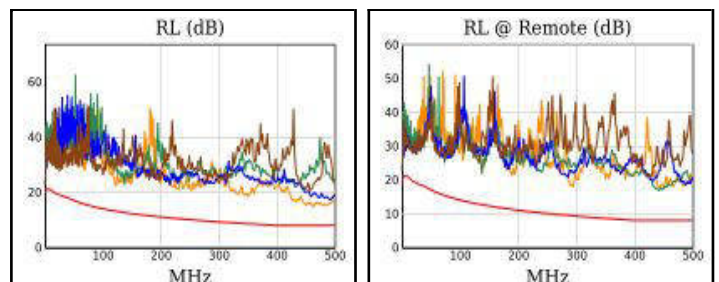
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.6	13.2	14.1	13.8
Freq. (MHz)	413.0	412.0	498.0	498.0
Limit (dB)	11.9	11.9	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.1	15.4	16.1	15.8
Freq. (MHz)	455.0	413.0	455.0	498.0
Limit (dB)	8.0	8.9	8.0	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.2	9.1	32.1	30.9
Freq. (MHz)	4.1	4.4	499.0	474.0
Limit (dB)	60.3	59.8	-17.0	-15.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.5	9.3	32.7	31.2
Freq. (MHz)	4.3	4.4	500.0	475.0
Limit (dB)	57.7	57.5	-20.0	-17.9



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	6.7	8.1	6.7	8.7
Freq. (MHz)	463.0	17.8	463.0	443.0
Limit (dB)	8.0	19.8	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

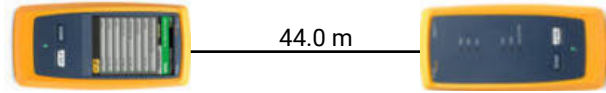


Cable ID: P2-R1-PP2-87

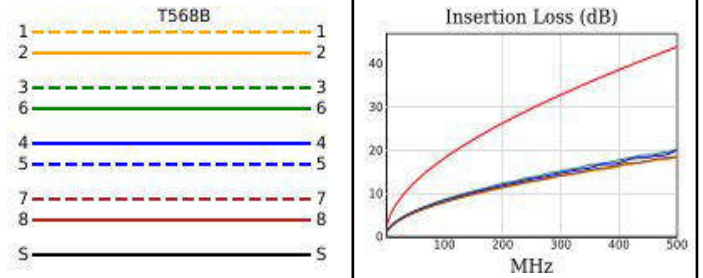
Date / Time: 04/14/2025 12:08:18 PM Operator: Capital Networks
 Headroom: 5.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	44.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	231
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

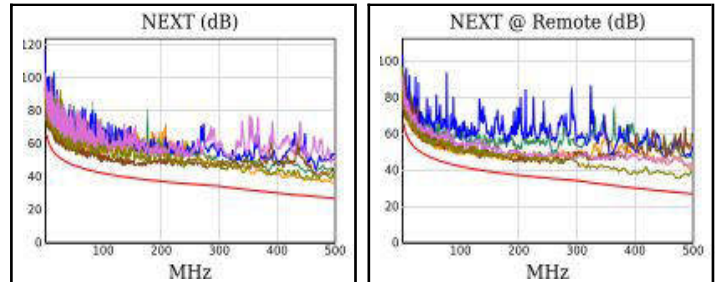


PASS

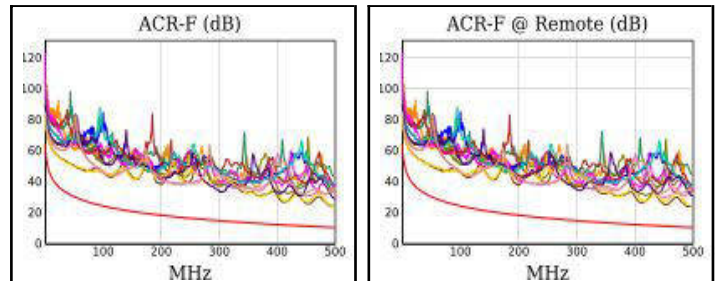


Worst Case Margin Worst Case Value

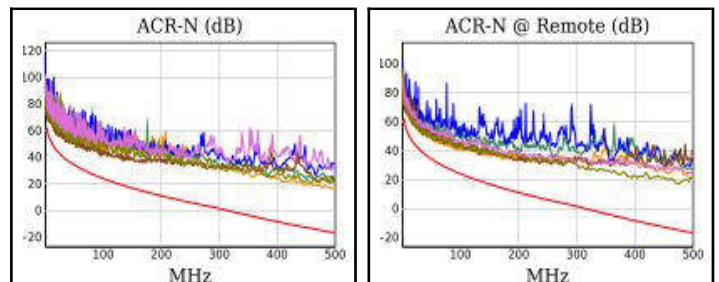
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-3,6	3,6-7,8
NEXT (dB)	6.5	5.8	9.1	7.8
Freq. (MHz)	4.4	58.8	500.0	478.0
Limit (dB)	63.5	45.6	26.7	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.4	4.9	9.6	10.1
Freq. (MHz)	4.5	92.3	500.0	475.0
Limit (dB)	61.0	39.9	23.8	24.5



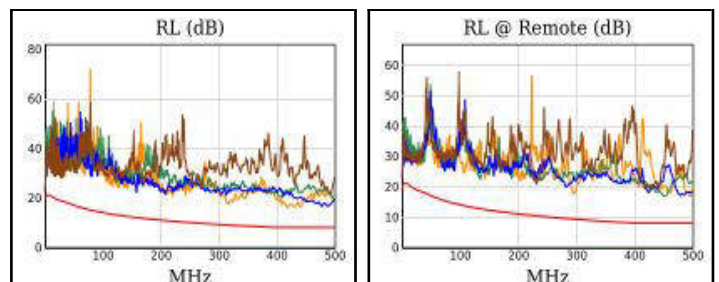
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.5	13.5	13.5	13.5
Freq. (MHz)	499.0	497.0	499.0	497.0
Limit (dB)	10.2	10.3	10.2	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.0	15.7	15.0	15.7
Freq. (MHz)	499.0	497.0	499.0	497.0
Limit (dB)	7.2	7.3	7.2	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.5	7.8	32.8	32.3
Freq. (MHz)	4.4	4.4	500.0	478.0
Limit (dB)	59.8	59.8	-17.1	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.5	7.2	33.3	34.7
Freq. (MHz)	4.5	4.4	500.0	494.0
Limit (dB)	57.2	57.5	-20.0	-19.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	1,2
RL (dB)	8.1	7.3	8.1	8.6
Freq. (MHz)	429.0	16.9	429.0	496.0
Limit (dB)	8.0	19.9	8.0	8.0



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

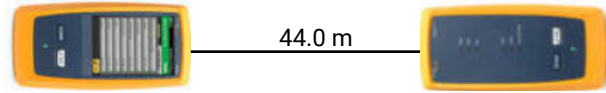


Cable ID: P2-R1-PP2-88

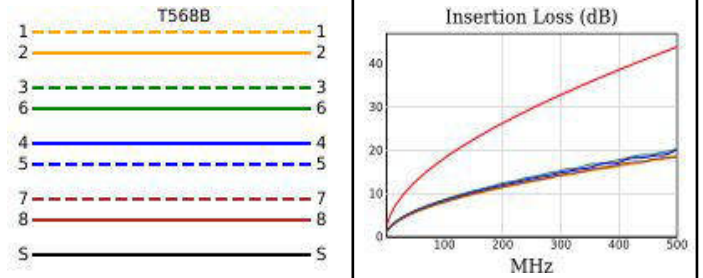
Date / Time: 04/14/2025 12:08:45 PM Operator: Capital Networks
 Headroom: 5.5 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	44.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	231
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.6
Insertion Loss Margin (dB)	[Pair 3,6]	23.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

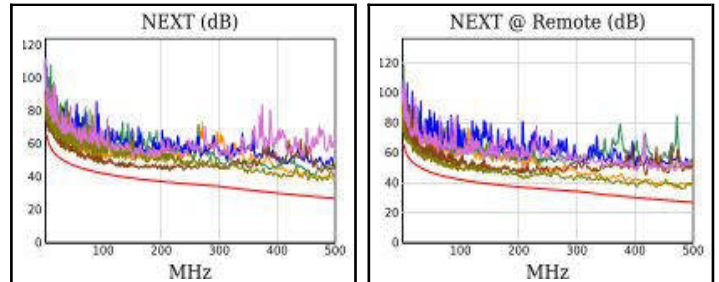


PASS

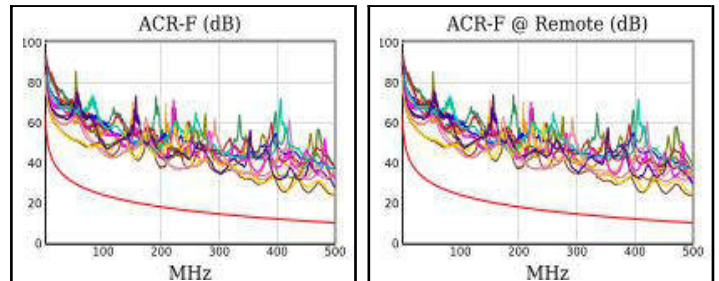


Worst Case Margin Worst Case Value

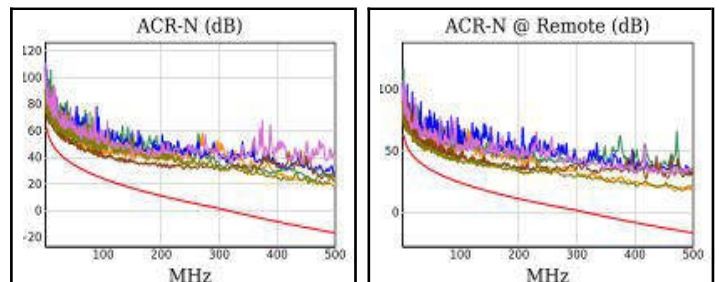
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.6	5.5	9.7	8.4
Freq. (MHz)	101.5	96.5	470.0	480.0
Limit (dB)	41.7	42.1	27.5	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.4	6.2	10.2	9.1
Freq. (MHz)	84.5	210.0	479.0	470.0
Limit (dB)	40.5	34.0	24.4	24.7



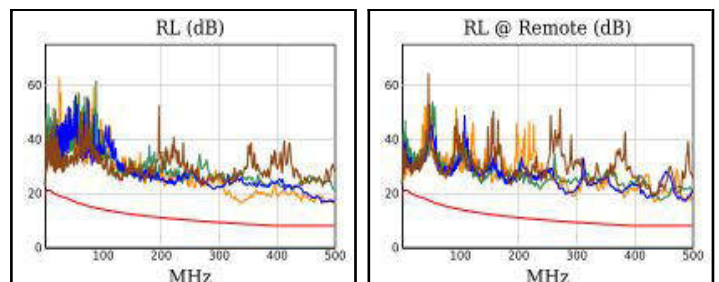
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.8	13.5	13.9	13.6
Freq. (MHz)	415.0	415.0	495.0	495.0
Limit (dB)	11.8	11.8	10.3	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.8	15.5	15.8	15.5
Freq. (MHz)	500.0	495.0	500.0	495.0
Limit (dB)	7.2	7.3	7.2	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	1,2-3,6
ACR-N (dB)	8.4	8.5	34.4	31.5
Freq. (MHz)	4.3	4.4	498.0	470.0
Limit (dB)	60.0	59.8	-16.9	-14.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.1	8.8	35.0	33.1
Freq. (MHz)	4.3	4.4	500.0	484.0
Limit (dB)	57.7	57.5	-20.0	-18.7



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.6	6.1	7.9	8.5
Freq. (MHz)	339.0	15.3	500.0	434.0
Limit (dB)	8.7	20.1	8.0	8.0



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

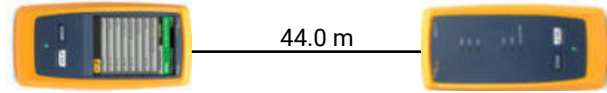


Cable ID: P2-R1-PP2-89

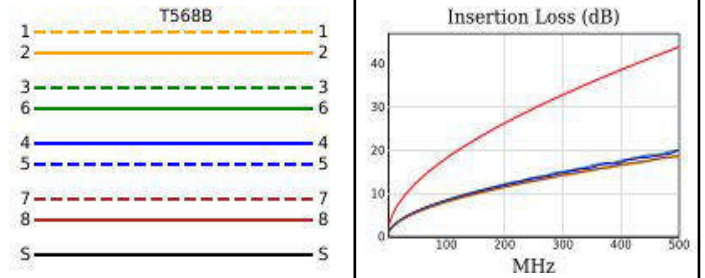
Date / Time: 04/14/2025 12:09:30 PM Operator: Capital Networks
 Headroom: 4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	44.0
Prop. Delay (ns), Limit 498	[Pair 3,6]	231
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.6
Insertion Loss Margin (dB)	[Pair 4,5]	23.9
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.0	5.7	9.1	8.1
Freq. (MHz)	99.5	4.4	499.0	481.0
Limit (dB)	41.9	63.5	26.7	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.6	6.4	10.6	8.8
Freq. (MHz)	94.5	4.4	499.0	479.0
Limit (dB)	39.7	61.2	23.8	24.4

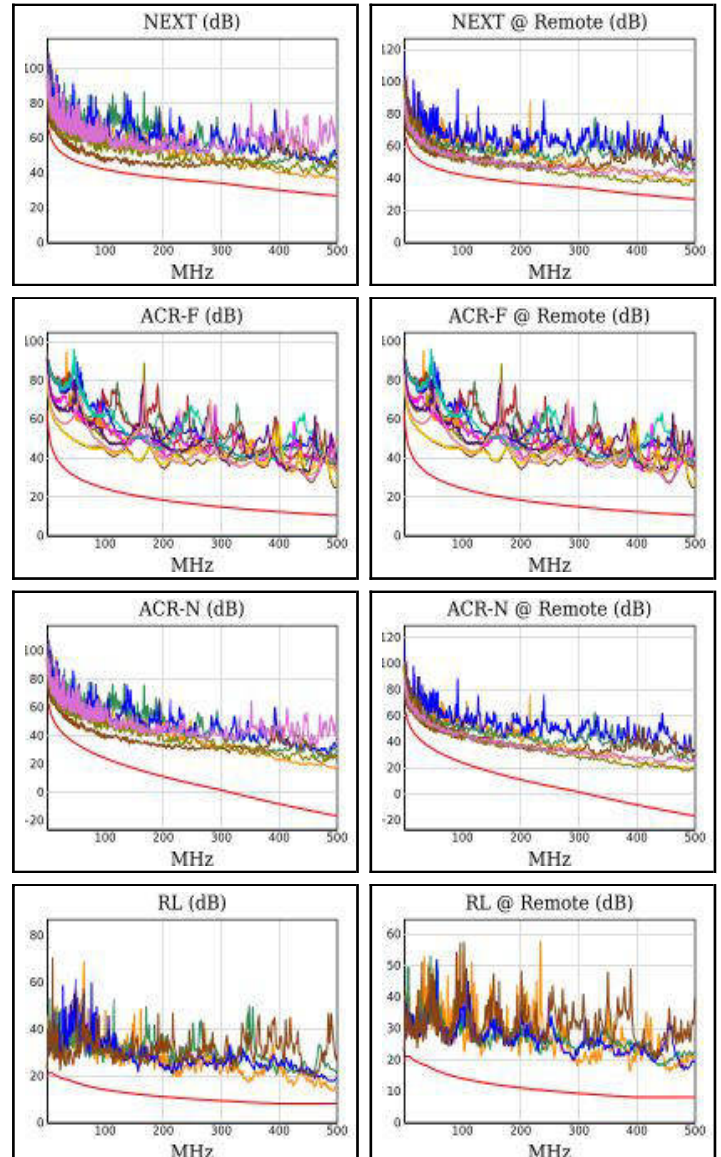
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.2	14.2	14.2	14.3
Freq. (MHz)	500.0	496.0	500.0	500.0
Limit (dB)	10.2	10.3	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.0	16.4	17.1	16.4
Freq. (MHz)	496.0	500.0	500.0	500.0
Limit (dB)	7.3	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.2	7.7	33.0	33.2
Freq. (MHz)	4.3	4.4	499.0	489.0
Limit (dB)	60.0	59.8	-17.0	-16.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.5	8.4	34.5	33.0
Freq. (MHz)	4.4	4.4	499.0	490.0
Limit (dB)	57.5	57.5	-19.9	-19.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	1,2
RL (dB)	3.1	4.3	5.4	7.9
Freq. (MHz)	23.4	23.3	494.0	389.0
Limit (dB)	19.2	19.2	8.0	8.1

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





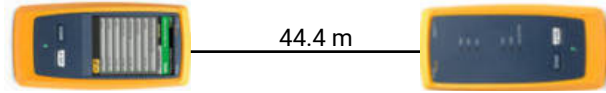
Cable ID: P2-R1-PP2-90

Test Summary: PASS

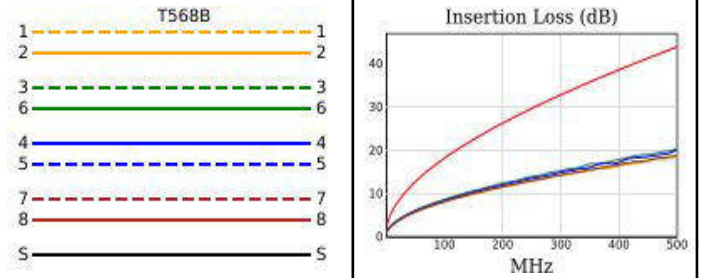
Date / Time: 04/14/2025 12:10:07 PM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	44.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	233
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.6
Insertion Loss Margin (dB)	[Pair 3,6]	23.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.1	4.6	9.8	5.9
Freq. (MHz)	141.0	395.0	496.0	485.0
Limit (dB)	39.4	30.0	26.8	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.2	6.2	10.0	8.1
Freq. (MHz)	4.5	4.4	500.0	485.0
Limit (dB)	61.0	61.2	23.8	24.2

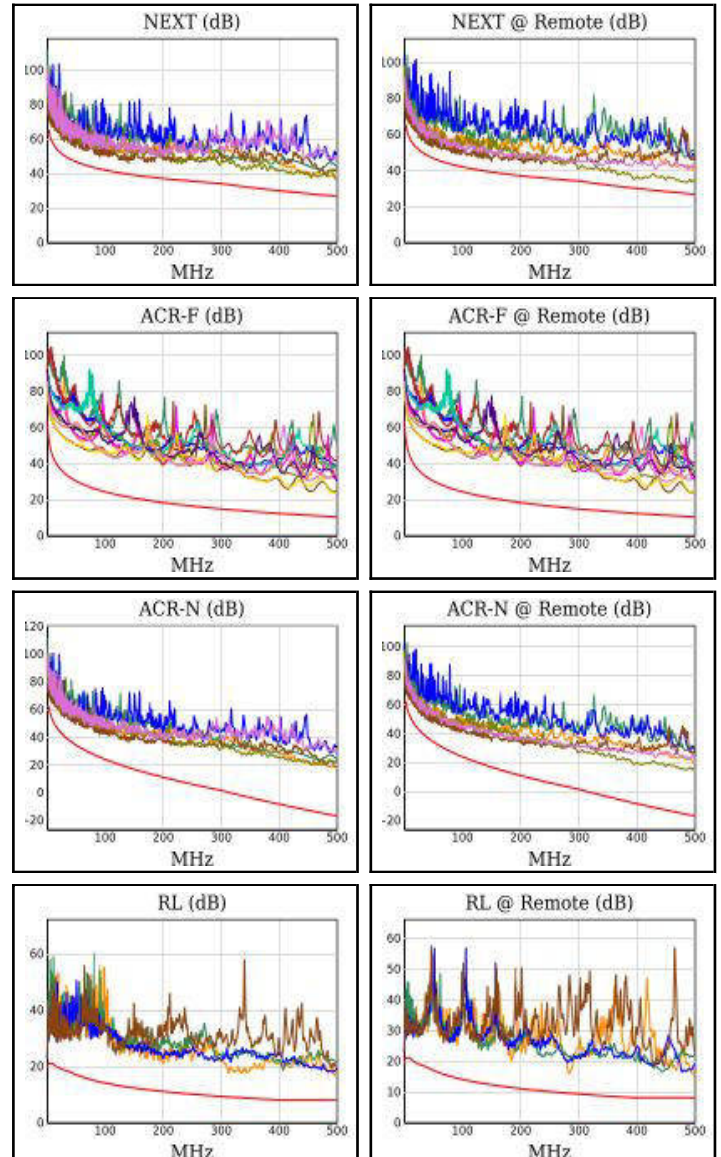
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.1	12.8	13.1	13.3
Freq. (MHz)	496.0	456.0	496.0	494.0
Limit (dB)	10.3	11.0	10.3	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.1	15.6	15.1	15.6
Freq. (MHz)	497.0	494.0	497.0	494.0
Limit (dB)	7.3	7.3	7.3	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.6	7.3	34.8	30.5
Freq. (MHz)	4.3	4.4	500.0	485.0
Limit (dB)	60.0	59.8	-17.1	-15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.2	8.2	33.5	32.0
Freq. (MHz)	4.5	4.4	500.0	496.0
Limit (dB)	57.2	57.5	-20.0	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	8.3	6.3	8.4	7.5
Freq. (MHz)	313.0	284.0	498.0	498.0
Limit (dB)	9.0	9.5	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





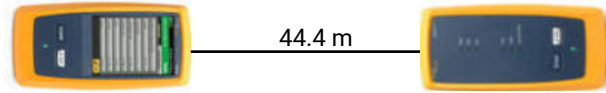
Cable ID: P2-R1-PP2-91

Test Summary: PASS

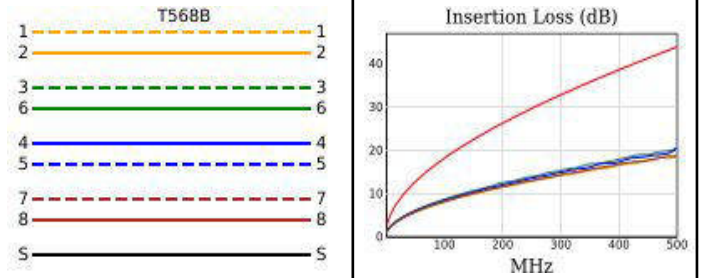
Date / Time: 04/14/2025 12:23:32 PM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	44.4
Prop. Delay (ns), Limit 498	[Pair 3,6]	233
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.6
Insertion Loss Margin (dB)	[Pair 3,6]	23.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

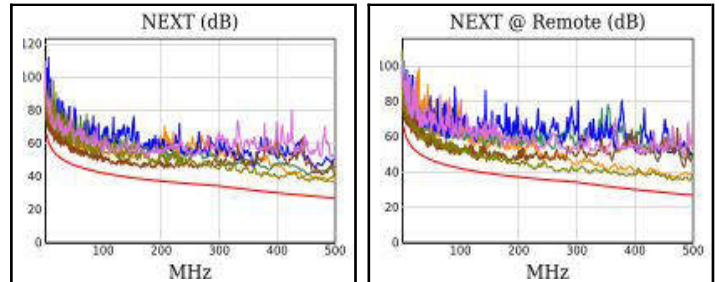


PASS

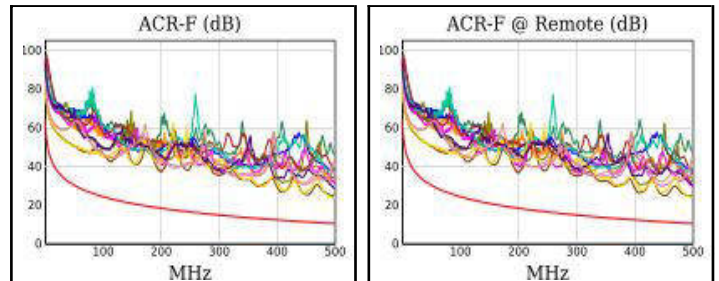


Worst Case Margin Worst Case Value

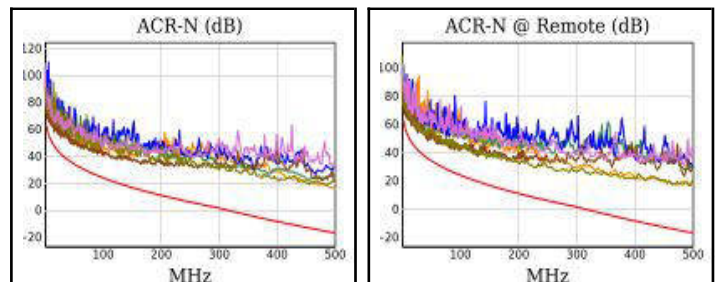
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.8	5.1	9.9	8.0
Freq. (MHz)	4.3	267.0	494.0	494.0
Limit (dB)	63.7	34.9	26.8	26.8
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	6.4	9.4	9.1
Freq. (MHz)	4.4	4.4	487.0	494.0
Limit (dB)	61.2	61.2	24.2	23.9



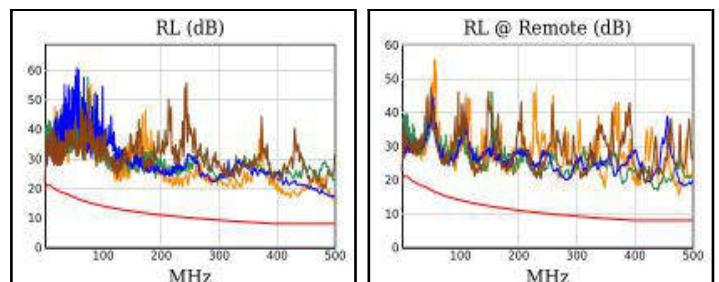
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.2	13.5	13.2	13.5
Freq. (MHz)	497.0	497.0	497.0	497.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.7	15.4	14.7	15.6
Freq. (MHz)	497.0	409.0	497.0	497.0
Limit (dB)	7.3	9.0	7.3	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	7.5	33.5	32.9
Freq. (MHz)	4.3	4.4	499.0	494.0
Limit (dB)	60.0	59.8	-17.0	-16.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.8	8.4	33.7	32.4
Freq. (MHz)	4.4	4.4	500.0	494.0
Limit (dB)	57.5	57.5	-20.0	-19.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.1	7.3	7.1	7.3
Freq. (MHz)	500.0	476.0	500.0	476.0
Limit (dB)	8.0	8.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

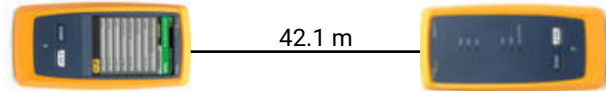


Cable ID: P2-R1-PP2-92

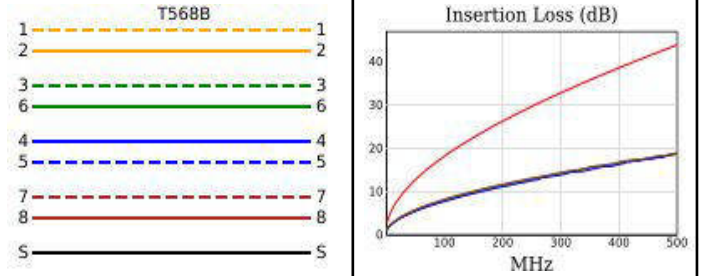
Date / Time: 04/14/2025 12:18:43 PM Operator: Capital Networks
 Headroom: 4.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	42.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	226
Delay Skew (ns), Limit 44	[Pair 1,2]	20
Resistance (ohms)	[Pair 1,2]	7.4
Insertion Loss Margin (dB)	[Pair 4,5]	25.1
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.6	4.9	7.7	6.5
Freq. (MHz)	79.0	373.0	500.0	488.0
Limit (dB)	43.5	30.9	26.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.1	6.2	8.8	7.7
Freq. (MHz)	4.8	4.8	490.0	480.0
Limit (dB)	60.6	60.6	24.1	24.4

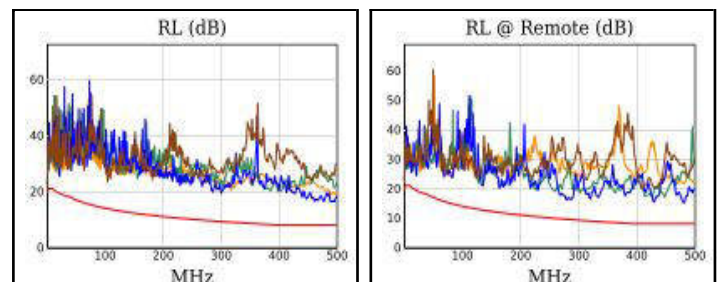
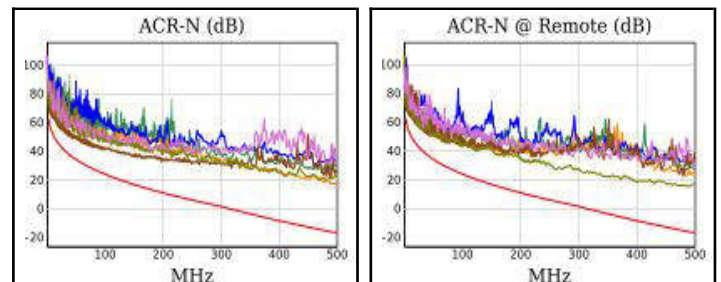
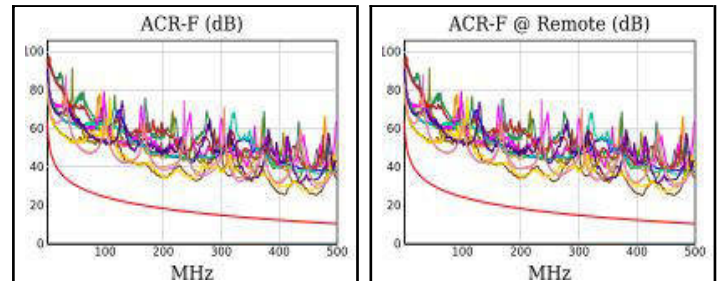
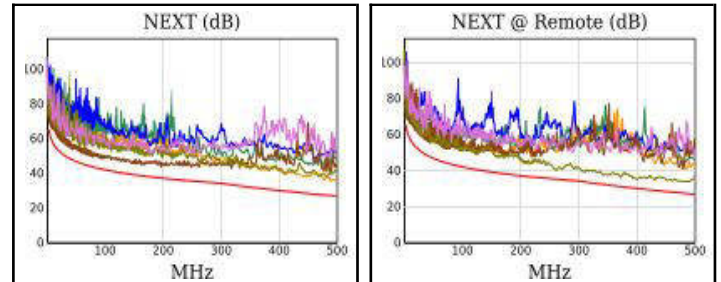
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.2	12.8	14.2	12.8
Freq. (MHz)	409.0	409.0	466.0	409.0
Limit (dB)	12.0	12.0	10.8	12.0
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	15.5	15.8	16.3	16.9
Freq. (MHz)	409.0	409.0	466.0	466.0
Limit (dB)	9.0	9.0	7.8	7.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.8	8.4	32.9	31.2
Freq. (MHz)	4.8	4.9	500.0	488.0
Limit (dB)	59.1	58.8	-17.1	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.4	34.4	32.4
Freq. (MHz)	4.8	4.8	500.0	480.0
Limit (dB)	56.8	56.8	-20.0	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.0	5.0	8.1	7.0
Freq. (MHz)	22.0	21.5	496.0	481.0
Limit (dB)	19.3	19.3	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





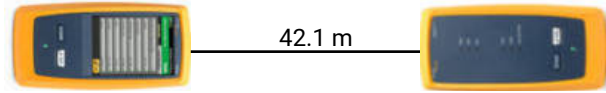
Cable ID: P2-R1-PP2-93

Test Summary: PASS

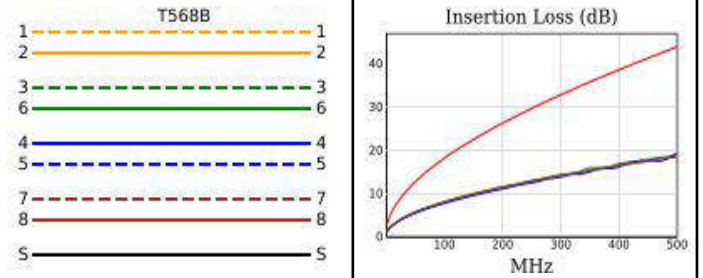
Date / Time: 04/14/2025 12:19:32 PM Operator: Capital Networks
 Headroom: 4.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	42.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	224
Delay Skew (ns), Limit 44	[Pair 1,2]	18
Resistance (ohms)	[Pair 1,2]	7.4
Insertion Loss Margin (dB)	[Pair 4,5]	24.7
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	6.6	4.6	9.1	5.6
Freq. (MHz)	4.8	353.0	487.0	478.0
Limit (dB)	62.9	31.7	27.0	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.0	6.8	9.5	8.1
Freq. (MHz)	4.8	73.3	488.0	488.0
Limit (dB)	60.6	41.5	24.1	24.1

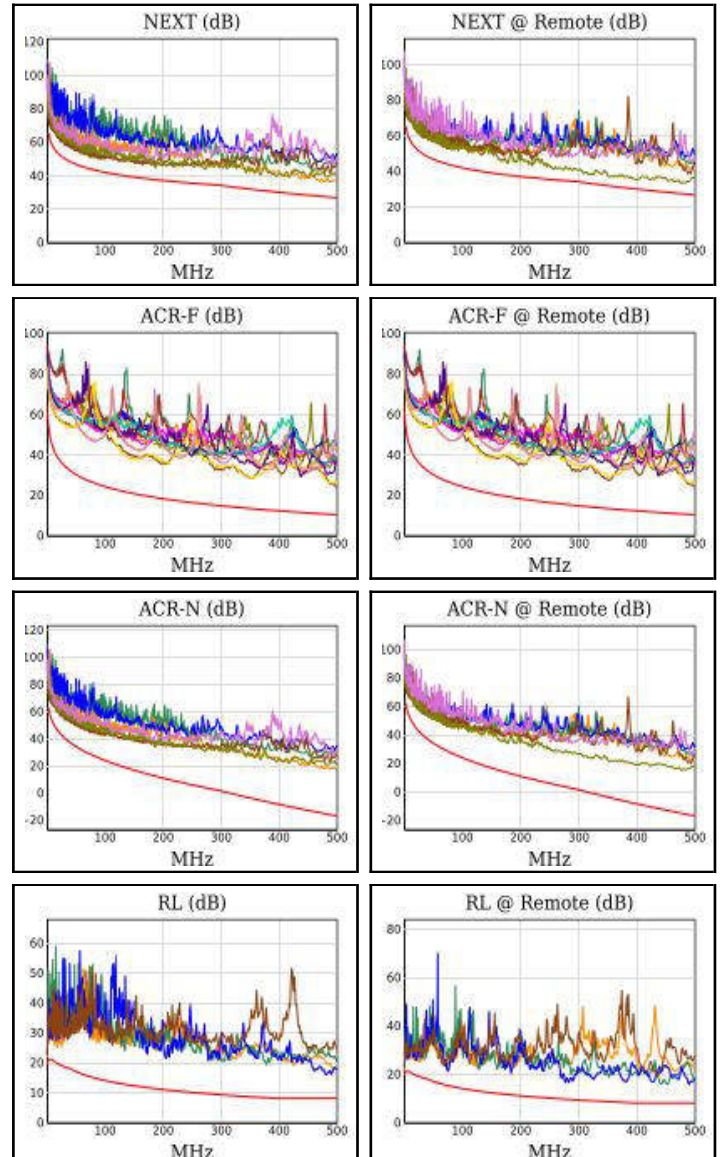
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.6	13.8	13.6	13.8
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.6	16.3	16.6	16.3
Freq. (MHz)	353.0	500.0	500.0	500.0
Limit (dB)	10.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.8	9.8	33.7	30.1
Freq. (MHz)	4.8	4.8	487.0	478.0
Limit (dB)	59.1	59.1	-16.1	-15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.1	9.4	34.1	32.7
Freq. (MHz)	4.8	4.8	488.0	488.0
Limit (dB)	56.8	56.8	-19.0	-19.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	5.4	5.9	7.9	7.6
Freq. (MHz)	18.3	18.1	481.0	490.0
Limit (dB)	19.7	19.7	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





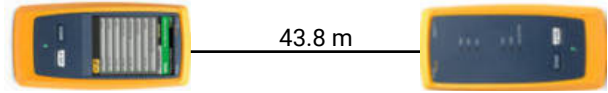
Cable ID: P2-R1-PP2-94

Test Summary: PASS

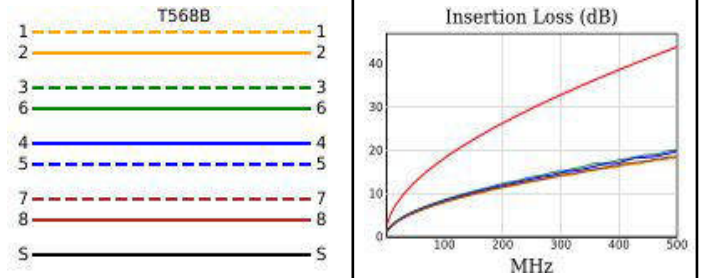
Date / Time: 04/14/2025 12:31:45 PM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	43.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	230
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

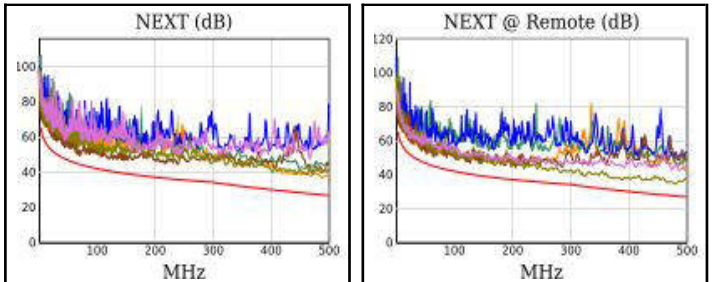


PASS

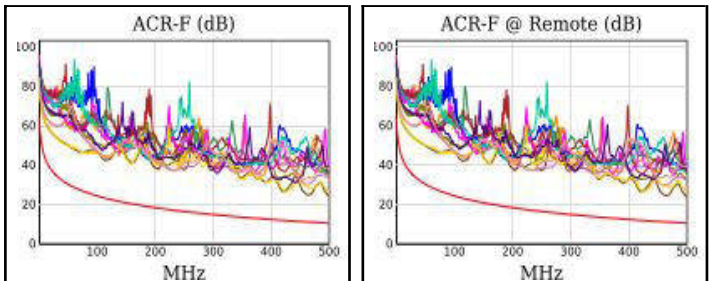


Worst Case Margin Worst Case Value

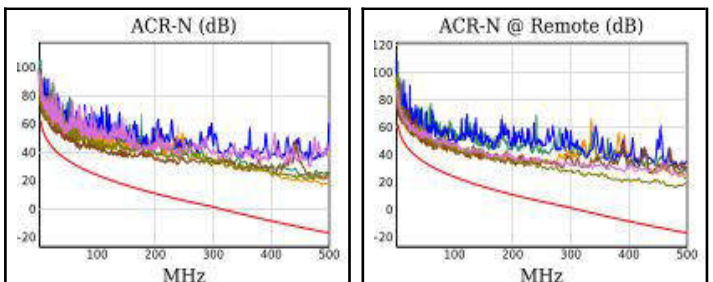
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.7	5.2	9.4	6.9
Freq. (MHz)	71.5	64.0	488.0	481.0
Limit (dB)	44.2	45.0	27.0	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	5.0	9.6	9.4
Freq. (MHz)	71.3	64.0	488.0	481.0
Limit (dB)	41.7	42.5	24.1	24.3



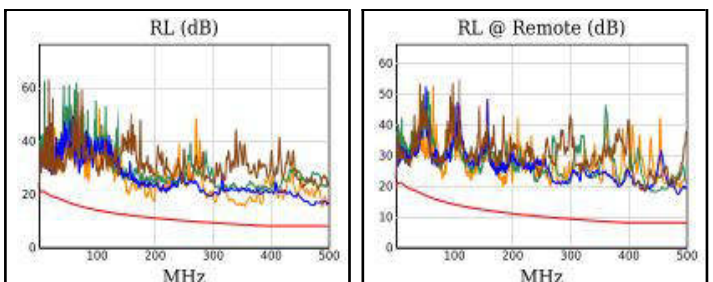
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.8	13.4	13.9	13.7
Freq. (MHz)	465.0	465.0	500.0	500.0
Limit (dB)	10.8	10.8	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.1	15.9	16.6	15.9
Freq. (MHz)	464.0	500.0	500.0	500.0
Limit (dB)	7.9	7.2	7.2	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.0	8.3	32.7	31.5
Freq. (MHz)	4.4	4.4	488.0	481.0
Limit (dB)	59.8	59.8	-16.1	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	7.9	32.9	32.5
Freq. (MHz)	4.4	4.4	488.0	481.0
Limit (dB)	57.5	57.5	-19.0	-18.4



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	4,5
RL (dB)	6.0	7.0	7.0	9.0
Freq. (MHz)	199.5	25.0	489.0	486.0
Limit (dB)	11.0	19.0	8.0	8.0



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

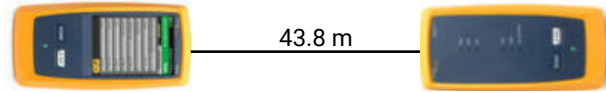


Cable ID: P2-R1-PP2-95

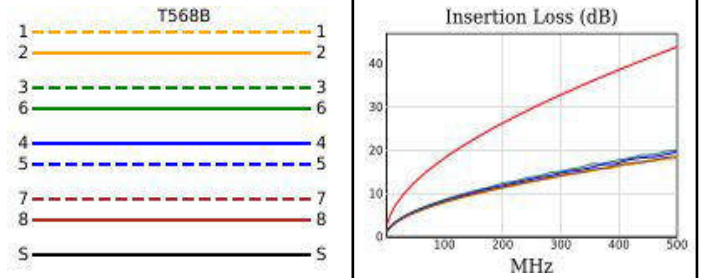
Date / Time: 04/14/2025 12:33:15 PM Operator: Capital Networks
 Headroom: 4.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	43.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	230
Delay Skew (ns), Limit 44	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.1	4.8	10.0	5.6
Freq. (MHz)	61.8	315.0	496.0	476.0
Limit (dB)	45.2	33.3	26.8	27.4
Worst Pair	3,6	3,6	3,6	7,8
PS NEXT (dB)	5.4	5.4	9.3	8.2
Freq. (MHz)	61.5	56.8	491.0	476.0
Limit (dB)	42.8	43.3	24.0	24.5

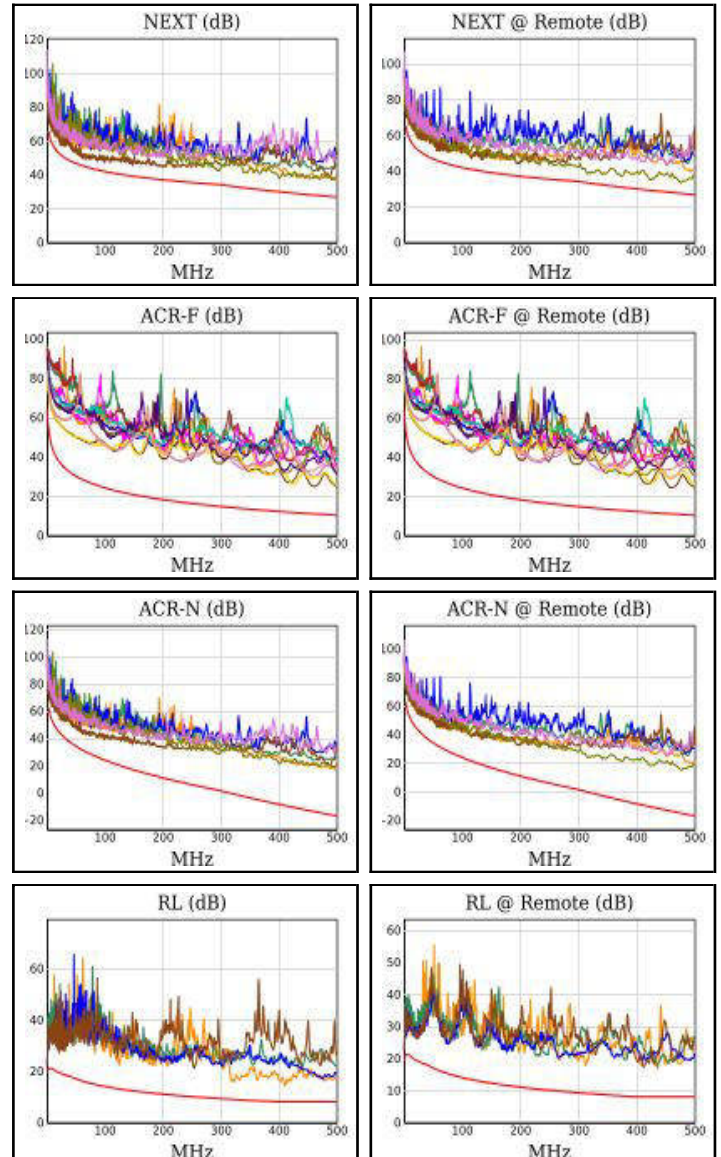
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.8	13.3	14.5	13.4
Freq. (MHz)	459.0	459.0	500.0	461.0
Limit (dB)	11.0	11.0	10.2	10.9
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	16.1	15.9	16.6	15.9
Freq. (MHz)	459.0	500.0	500.0	500.0
Limit (dB)	8.0	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.3	8.3	33.8	30.1
Freq. (MHz)	4.4	4.4	496.0	476.0
Limit (dB)	59.8	59.8	-16.8	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.3	8.5	32.8	31.3
Freq. (MHz)	4.4	4.4	491.0	476.0
Limit (dB)	57.5	57.5	-19.3	-18.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	6.1	6.7	6.1	8.7
Freq. (MHz)	411.0	21.1	411.0	437.0
Limit (dB)	8.0	19.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





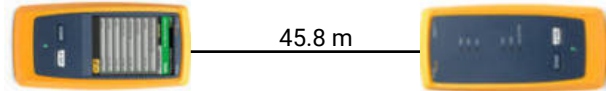
Cable ID: P2-R1-PP2-96

Date / Time: 04/14/2025 12:30:03 PM Operator: Capital Networks
 Headroom: 5.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

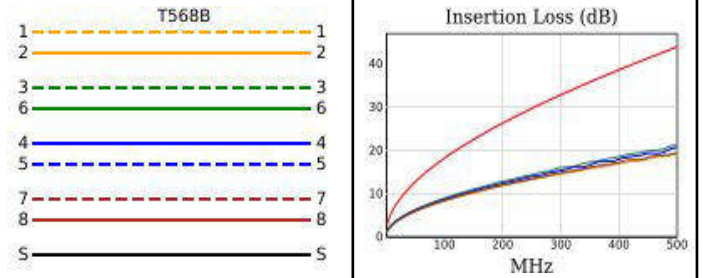
Test Summary: PASS

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	45.8
Prop. Delay (ns), Limit 498	[Pair 3,6]	241
Delay Skew (ns), Limit 44	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	22.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.7	5.2	8.9	7.3
Freq. (MHz)	95.0	386.0	492.0	472.0
Limit (dB)	42.2	30.4	26.9	27.5
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	5.2	9.2	9.1
Freq. (MHz)	4.3	117.5	495.0	472.0
Limit (dB)	61.4	38.1	23.9	24.6

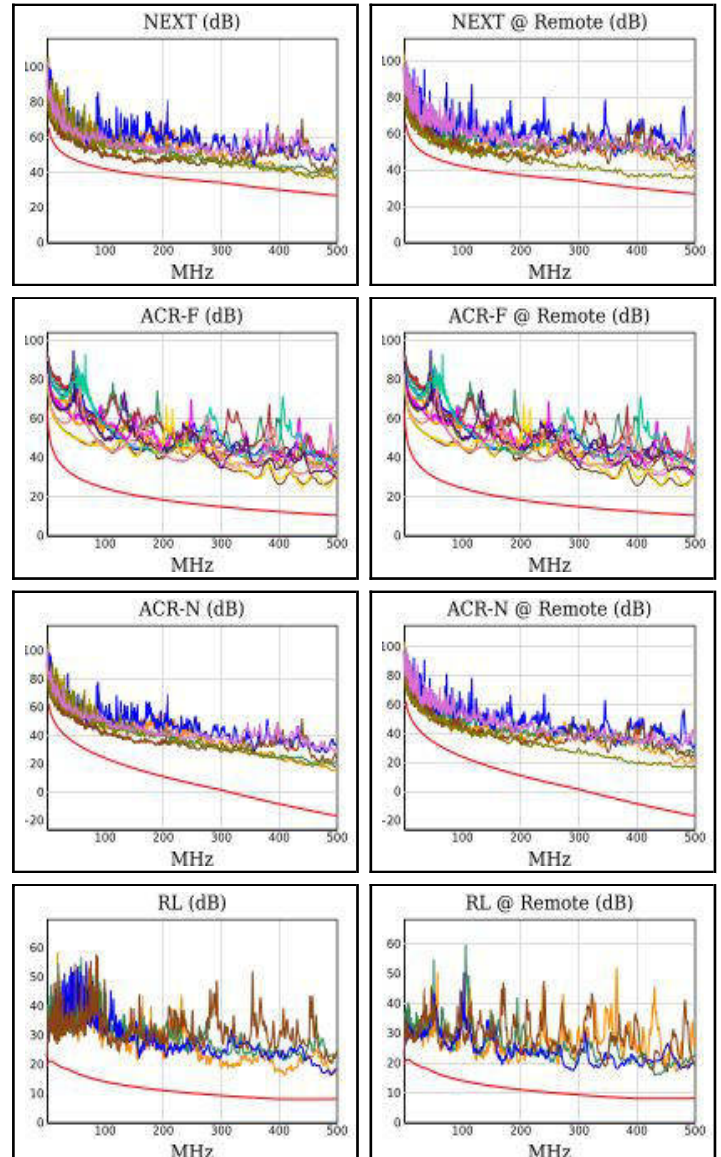
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.5	13.3	14.1	13.9
Freq. (MHz)	442.0	402.0	486.0	443.0
Limit (dB)	11.3	12.1	10.5	11.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.1	15.6	16.2	15.9
Freq. (MHz)	486.0	402.0	487.0	442.0
Limit (dB)	7.5	9.1	7.4	8.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.0	9.2	31.4	32.5
Freq. (MHz)	4.0	4.1	492.0	495.0
Limit (dB)	60.5	60.3	-16.5	-16.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.7	8.0	31.7	32.3
Freq. (MHz)	4.3	4.3	495.0	494.0
Limit (dB)	57.7	57.7	-19.6	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	1,2	3,6
RL (dB)	7.2	6.8	7.8	7.7
Freq. (MHz)	17.9	33.0	489.0	433.0
Limit (dB)	19.7	18.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





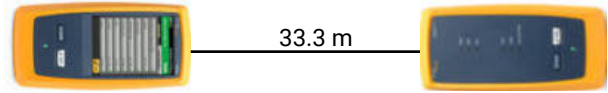
Cable ID: P2-R1-PP3-100

Test Summary: PASS

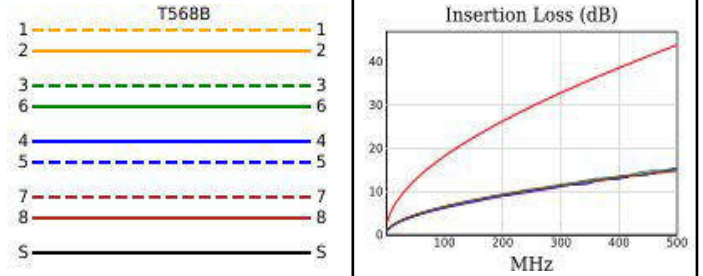
Date / Time: 04/14/2025 12:34:15 PM Operator: Capital Networks
 Headroom: 3.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	176
Delay Skew (ns), Limit 44	[Pair 1,2]	13
Resistance (ohms)	[Pair 1,2]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.9	5.0	8.5	9.1
Freq. (MHz)	51.3	51.3	496.0	491.0
Limit (dB)	46.5	46.5	26.8	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.2	5.2	9.8	10.6
Freq. (MHz)	78.5	6.4	499.0	482.0
Limit (dB)	41.0	58.6	23.8	24.3

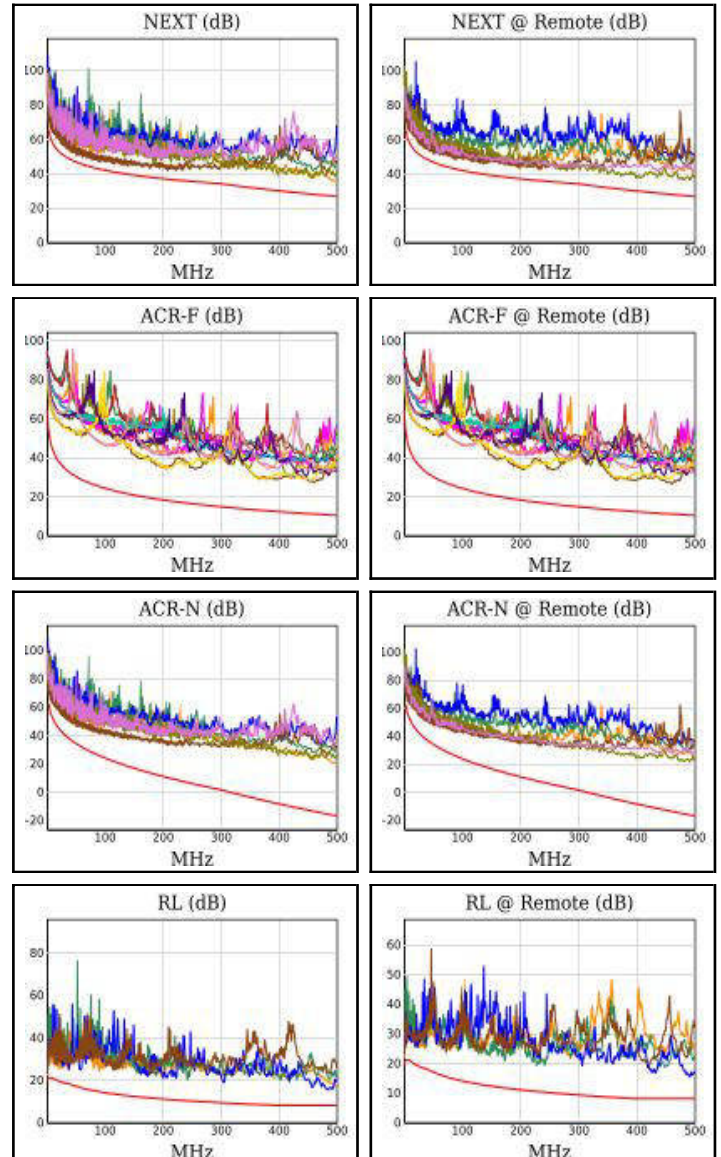
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.8	15.4	16.1	15.4
Freq. (MHz)	367.0	461.0	461.0	461.0
Limit (dB)	12.9	10.9	10.9	10.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.7	17.7	17.7	18.1
Freq. (MHz)	447.0	412.0	447.0	461.0
Limit (dB)	8.2	8.9	8.2	7.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.2	7.4	36.9	37.7
Freq. (MHz)	3.3	3.3	496.0	491.0
Limit (dB)	61.8	61.8	-16.8	-16.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.1	38.3	39.4
Freq. (MHz)	6.3	6.4	499.0	492.0
Limit (dB)	54.3	54.2	-19.9	-19.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	6.4	6.4	7.3	6.9
Freq. (MHz)	23.4	26.9	484.0	492.0
Limit (dB)	19.2	18.9	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



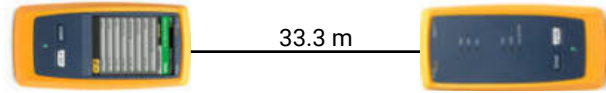


Cable ID: P2-R1-PP3-101

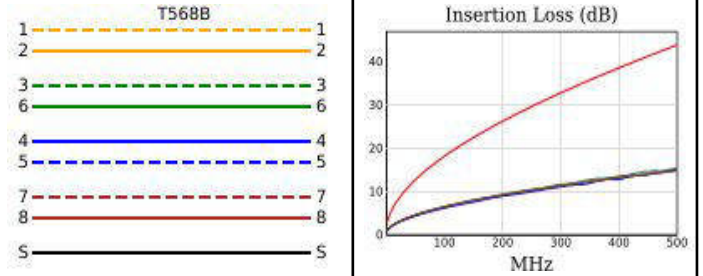
Date / Time: 04/14/2025 12:34:55 PM Operator: Capital Networks
 Headroom: 2.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	177
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	28.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	2.7	2.8	8.0	7.8
Freq. (MHz)	119.5	119.5	492.0	487.0
Limit (dB)	40.6	40.6	26.9	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.4	4.5	9.5	9.7
Freq. (MHz)	78.5	133.5	494.0	487.0
Limit (dB)	41.0	37.2	23.9	24.2

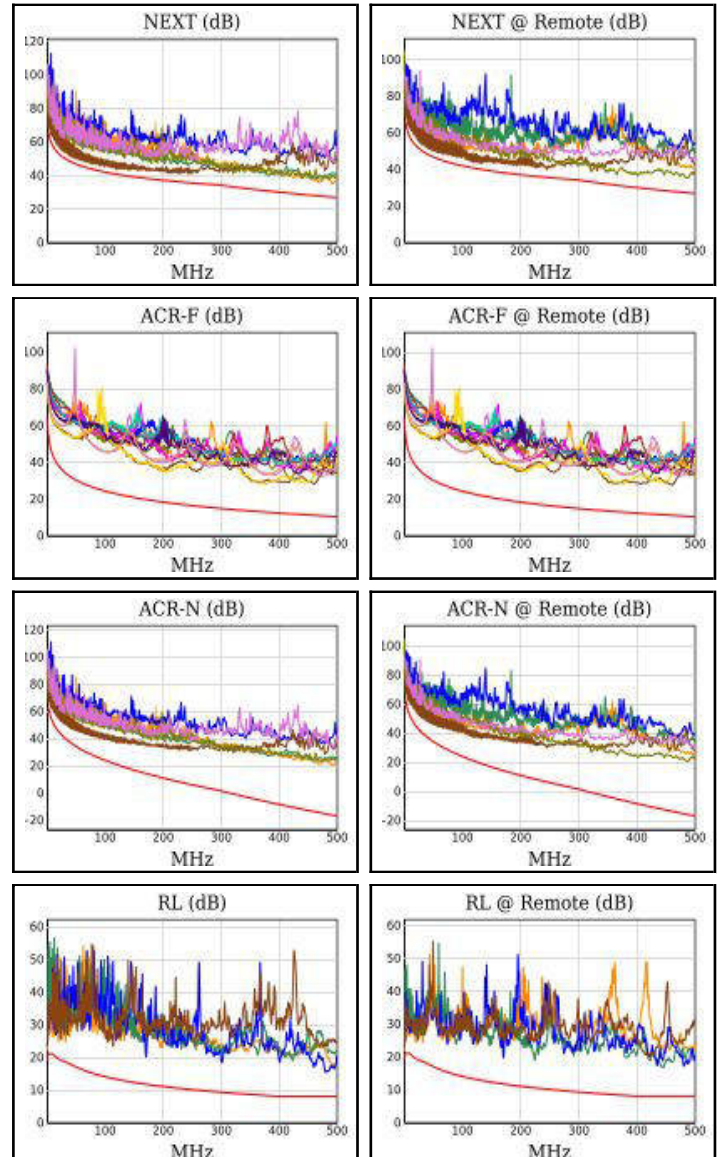
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.1	15.0	15.1	16.4
Freq. (MHz)	378.0	363.0	378.0	461.0
Limit (dB)	12.6	13.0	12.6	10.9
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	17.6	17.3	18.5	17.4
Freq. (MHz)	362.0	378.0	444.0	419.0
Limit (dB)	10.0	9.6	8.2	8.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	5.5	5.5	36.3	36.3
Freq. (MHz)	3.3	3.5	492.0	487.0
Limit (dB)	61.8	61.7	-16.5	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.4	7.4	38.2	38.1
Freq. (MHz)	3.3	3.5	500.0	490.0
Limit (dB)	58.8	58.7	-20.0	-19.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	3,6
RL (dB)	6.1	5.9	7.2	8.6
Freq. (MHz)	32.8	33.0	481.0	447.0
Limit (dB)	18.4	18.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





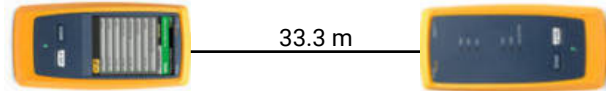
Cable ID: P2-R1-PP3-102

Test Summary: PASS

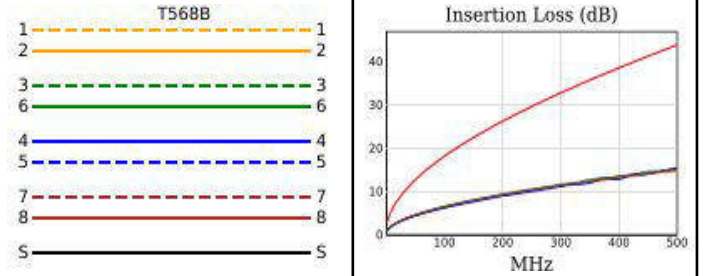
Date / Time: 04/14/2025 12:35:39 PM Operator: Capital Networks
 Headroom: 5.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	177
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.4
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	43.7



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.1	5.7	8.8	7.4
Freq. (MHz)	44.3	276.0	471.0	483.0
Limit (dB)	47.6	34.6	27.5	27.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.6	6.1	8.1	9.6
Freq. (MHz)	75.0	74.8	471.0	483.0
Limit (dB)	41.4	41.4	24.7	24.3

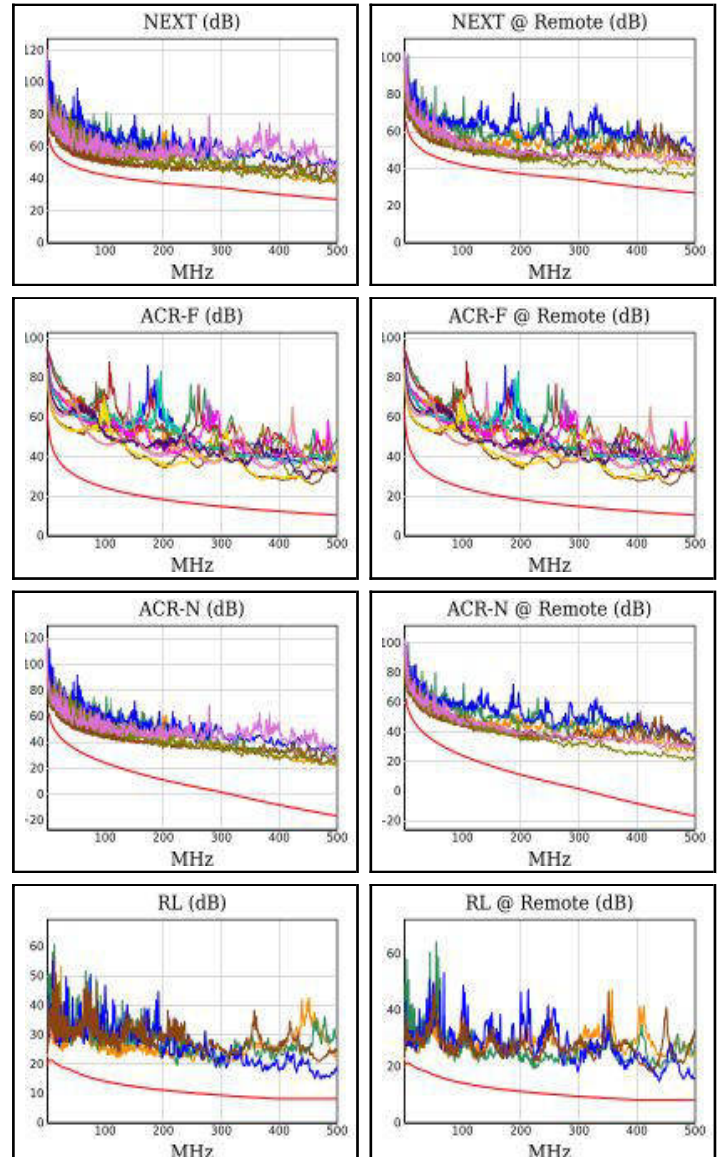
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.7	14.2	14.7	14.2
Freq. (MHz)	458.0	458.0	458.0	458.0
Limit (dB)	11.0	11.0	11.0	11.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.4	16.9	16.4	16.9
Freq. (MHz)	446.0	458.0	446.0	458.0
Limit (dB)	8.2	8.0	8.2	8.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.3	8.2	38.3	35.5
Freq. (MHz)	3.3	3.4	498.0	483.0
Limit (dB)	61.8	61.7	-16.9	-15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	9.2	37.6	37.6
Freq. (MHz)	3.1	6.4	497.0	483.0
Limit (dB)	58.8	54.2	-19.7	-18.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	5.2	5.4	6.4	6.5
Freq. (MHz)	26.5	23.9	473.0	439.0
Limit (dB)	18.9	19.1	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





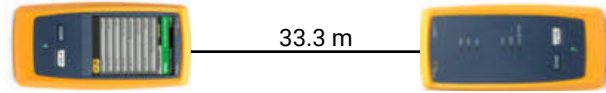
Cable ID: P2-R1-PP3-103

Test Summary: PASS

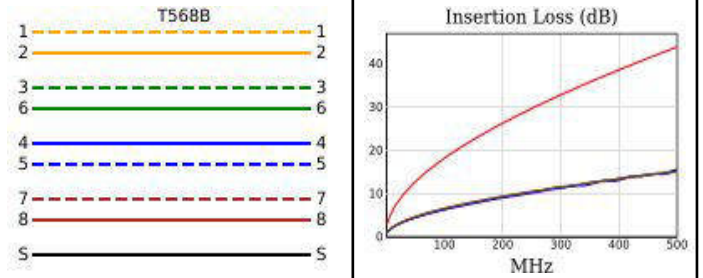
Date / Time: 04/14/2025 12:36:02 PM Operator: Capital Networks
 Headroom: 3.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	178
Delay Skew (ns), Limit 44	[Pair 1,2]	15
Resistance (ohms)	[Pair 1,2]	6.1
Insertion Loss Margin (dB)	[Pair 4,5]	28.3
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.9	5.5	8.5	7.7
Freq. (MHz)	78.5	54.8	484.0	475.0
Limit (dB)	43.5	46.1	27.1	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.8	5.9	9.6	8.6
Freq. (MHz)	51.8	51.8	495.0	475.0
Limit (dB)	44.0	44.0	23.9	24.5

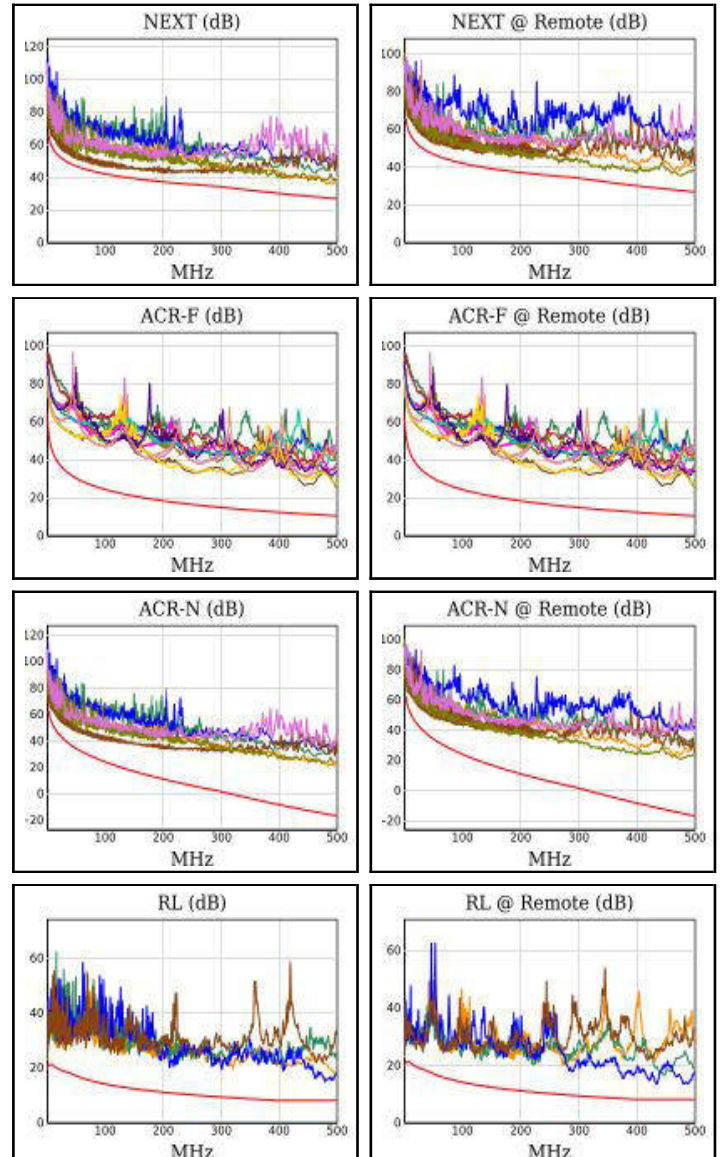
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.0	14.8	15.4	15.5
Freq. (MHz)	444.0	444.0	499.0	499.0
Limit (dB)	11.2	11.2	10.2	10.2
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.8	17.2	16.8	17.7
Freq. (MHz)	444.0	444.0	444.0	499.0
Limit (dB)	8.2	8.2	8.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.4	7.7	37.6	35.5
Freq. (MHz)	3.3	3.3	500.0	475.0
Limit (dB)	61.8	61.8	-17.1	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.6	9.0	37.8	36.3
Freq. (MHz)	6.0	6.4	495.0	475.0
Limit (dB)	54.7	54.2	-19.6	-17.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.6	5.0	6.6	5.0
Freq. (MHz)	480.0	435.0	480.0	435.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





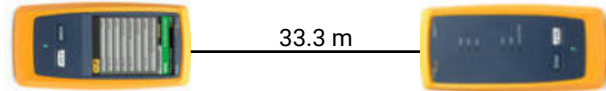
Cable ID: P2-R1-PP3-104

Test Summary: PASS

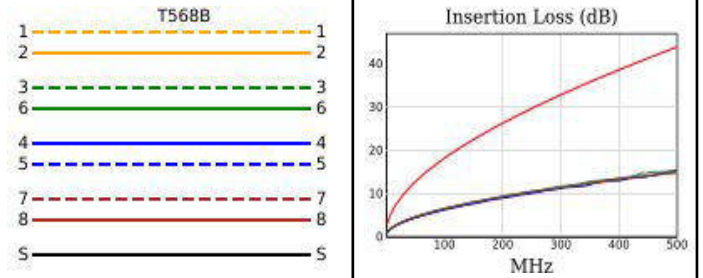
Date / Time: 04/14/2025 12:36:26 PM Operator: Capital Networks
 Headroom: 3.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	176
Delay Skew (ns), Limit 44	[Pair 1,2]	13
Resistance (ohms)	[Pair 1,2]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.3	3.7	5.9	6.3
Freq. (MHz)	54.5	51.0	464.0	473.0
Limit (dB)	46.1	46.6	27.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.4	5.0	6.5	7.8
Freq. (MHz)	6.4	286.0	465.0	473.0
Limit (dB)	58.6	31.7	24.8	24.6

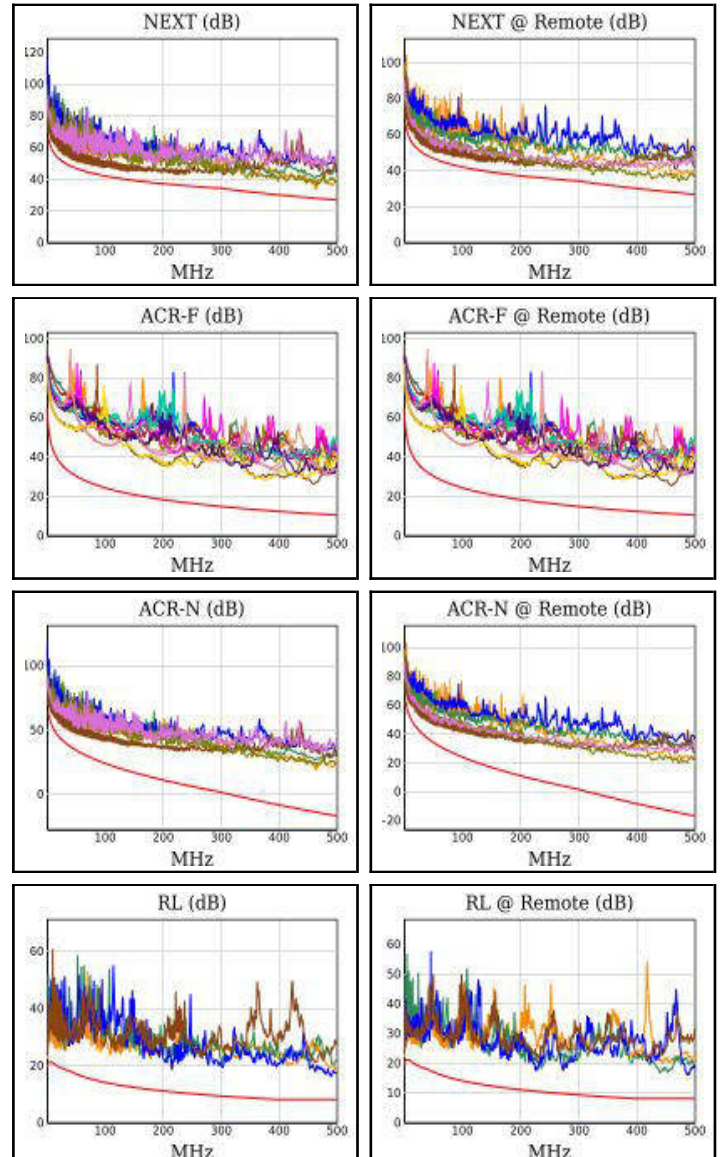
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.1	14.2	15.1	14.2
Freq. (MHz)	460.0	460.0	460.0	460.0
Limit (dB)	10.9	10.9	10.9	10.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.7	16.8	17.7	16.8
Freq. (MHz)	460.0	460.0	460.0	460.0
Limit (dB)	7.9	7.9	7.9	7.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	6.4	6.3	32.9	34.1
Freq. (MHz)	3.3	3.4	464.0	473.0
Limit (dB)	61.8	61.7	-14.2	-14.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.0	33.5	35.3
Freq. (MHz)	6.4	6.3	465.0	473.0
Limit (dB)	54.2	54.3	-17.1	-17.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	4,5	4,5
RL (dB)	6.3	6.3	8.1	7.9
Freq. (MHz)	23.5	29.5	491.0	491.0
Limit (dB)	19.1	18.7	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



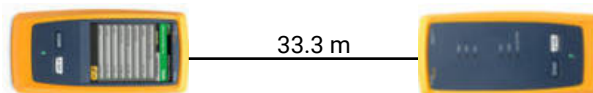


Cable ID: P2-R1-PP3-105

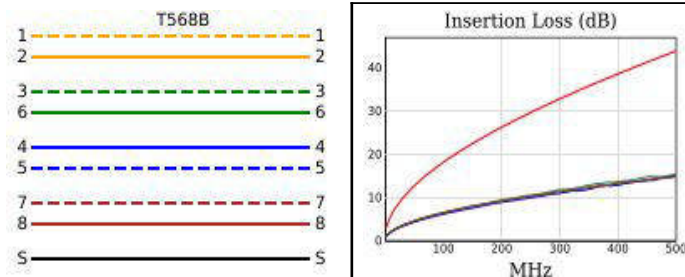
Date / Time: 04/14/2025 12:36:58 PM Operator: Capital Networks
 Headroom: 4.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	33.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	177
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	7.4	4.8	8.9	6.5
Freq. (MHz)	3.3	323.0	488.0	477.0
Limit (dB)	65.0	32.9	27.0	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.5	6.8	8.8	8.3
Freq. (MHz)	6.1	323.0	490.0	477.0
Limit (dB)	58.9	30.3	24.1	24.5

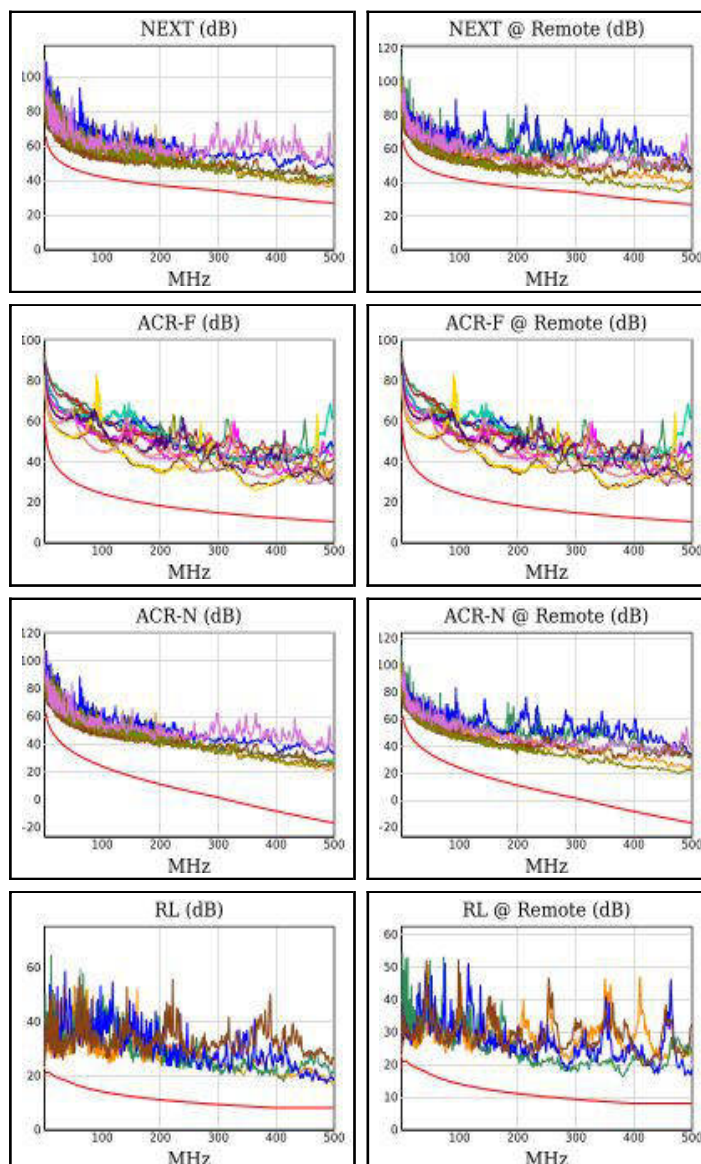
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	12.4	13.1	12.4	13.2
Freq. (MHz)	366.0	356.0	366.0	369.0
Limit (dB)	12.9	13.2	12.9	12.8
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.1	15.2	15.1	15.2
Freq. (MHz)	366.0	366.0	366.0	366.0
Limit (dB)	9.9	9.9	9.9	9.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.5	9.3	37.0	34.5
Freq. (MHz)	3.3	3.3	488.0	477.0
Limit (dB)	61.8	61.8	-16.1	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	11.1	10.8	37.1	36.2
Freq. (MHz)	3.3	3.3	490.0	477.0
Limit (dB)	58.8	58.8	-19.2	-18.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	7.0	5.9	8.5	8.1
Freq. (MHz)	23.6	27.1	500.0	383.0
Limit (dB)	19.1	18.8	8.0	8.2

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





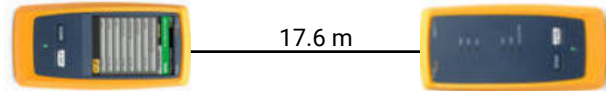
Cable ID: P2-R1-PP3-106

Test Summary: PASS

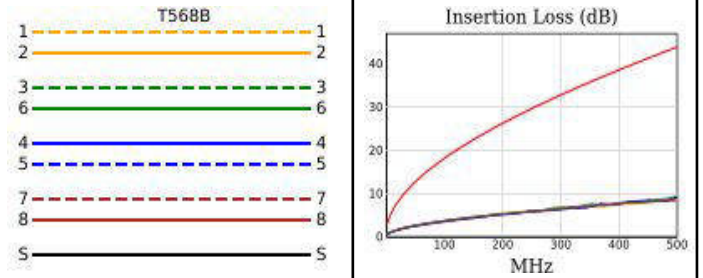
Date / Time: 04/14/2025 09:26:24 AM Operator: Capital Networks
 Headroom: 2.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	17.6
Prop. Delay (ns), Limit 498	[Pair 1,2]	93
Delay Skew (ns), Limit 44	[Pair 1,2]	7
Resistance (ohms)	[Pair 1,2]	3.6
Insertion Loss Margin (dB)	[Pair 3,6]	34.4
Frequency (MHz)	[Pair 3,6]	497.0
Limit (dB)	[Pair 3,6]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	2.7	3.7	8.2	7.2
Freq. (MHz)	195.5	36.5	466.0	487.0
Limit (dB)	37.1	48.9	27.7	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.7	5.2	9.1	7.7
Freq. (MHz)	188.0	35.8	488.0	487.0
Limit (dB)	34.8	46.6	24.1	24.2

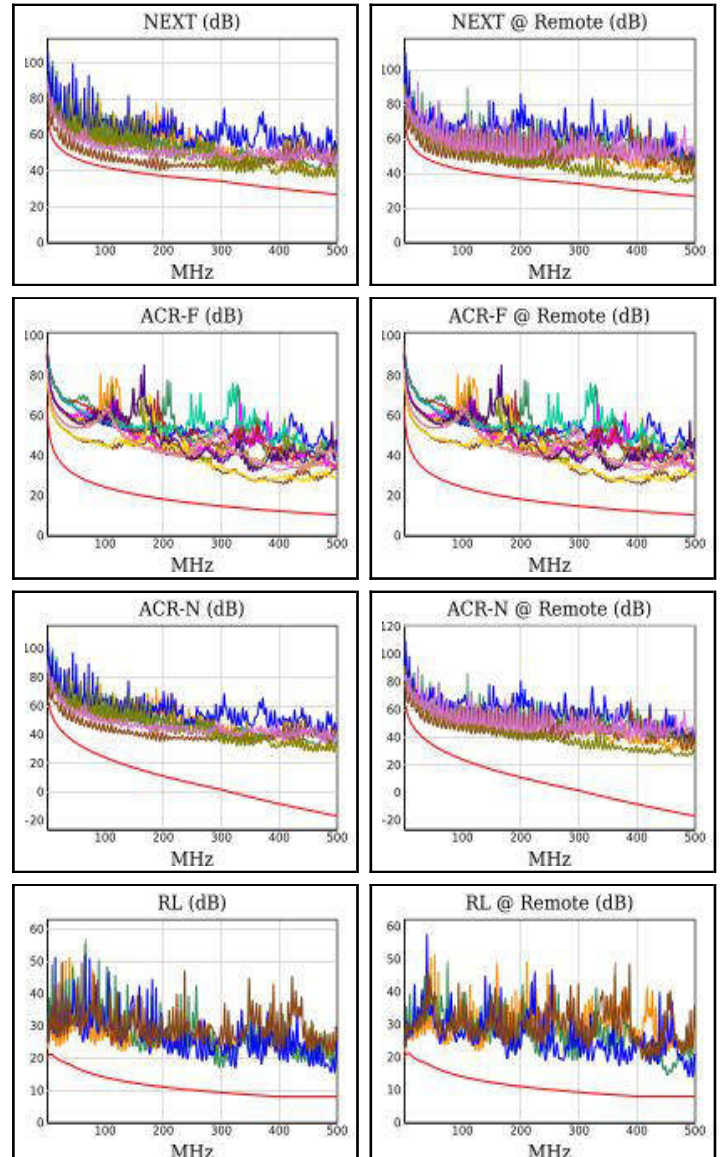
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.5	13.4	13.5	13.4
Freq. (MHz)	408.0	408.0	408.0	408.0
Limit (dB)	12.0	12.0	12.0	12.0
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	15.8	15.5	16.2	15.9
Freq. (MHz)	362.0	356.0	408.0	408.0
Limit (dB)	10.0	10.2	9.0	9.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.9	8.2	44.1	41.9
Freq. (MHz)	6.3	6.3	500.0	487.0
Limit (dB)	56.7	56.7	-17.1	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.9	9.3	43.7	41.9
Freq. (MHz)	6.1	6.4	495.0	487.0
Limit (dB)	54.5	54.2	-19.6	-18.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	7.3	5.8	7.3	5.8
Freq. (MHz)	497.0	497.0	497.0	497.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



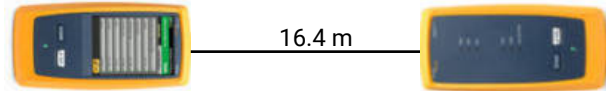


Cable ID: P2-R1-PP3-107

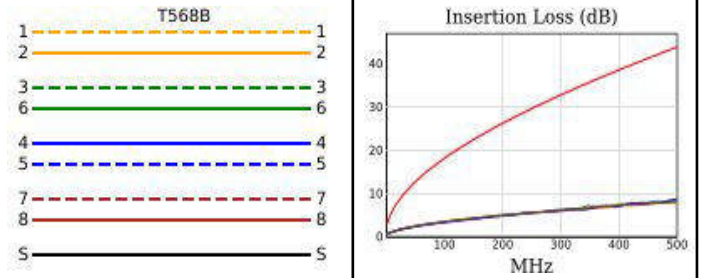
Date / Time: 04/14/2025 12:38:39 PM Operator: Capital Networks
 Headroom: 3.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	16.4
Prop. Delay (ns), Limit 498	[Pair 1,2]	86
Delay Skew (ns), Limit 44	[Pair 1,2]	6
Resistance (ohms)	[Pair 1,2]	3.4
Insertion Loss Margin (dB)	[Pair 3,6]	35.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	3.1	3.3	8.1	7.2
Freq. (MHz)	111.0	63.3	495.0	480.0
Limit (dB)	41.1	45.1	26.8	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.2	4.7	8.3	7.8
Freq. (MHz)	181.5	39.0	495.0	480.0
Limit (dB)	35.0	46.0	23.9	24.4

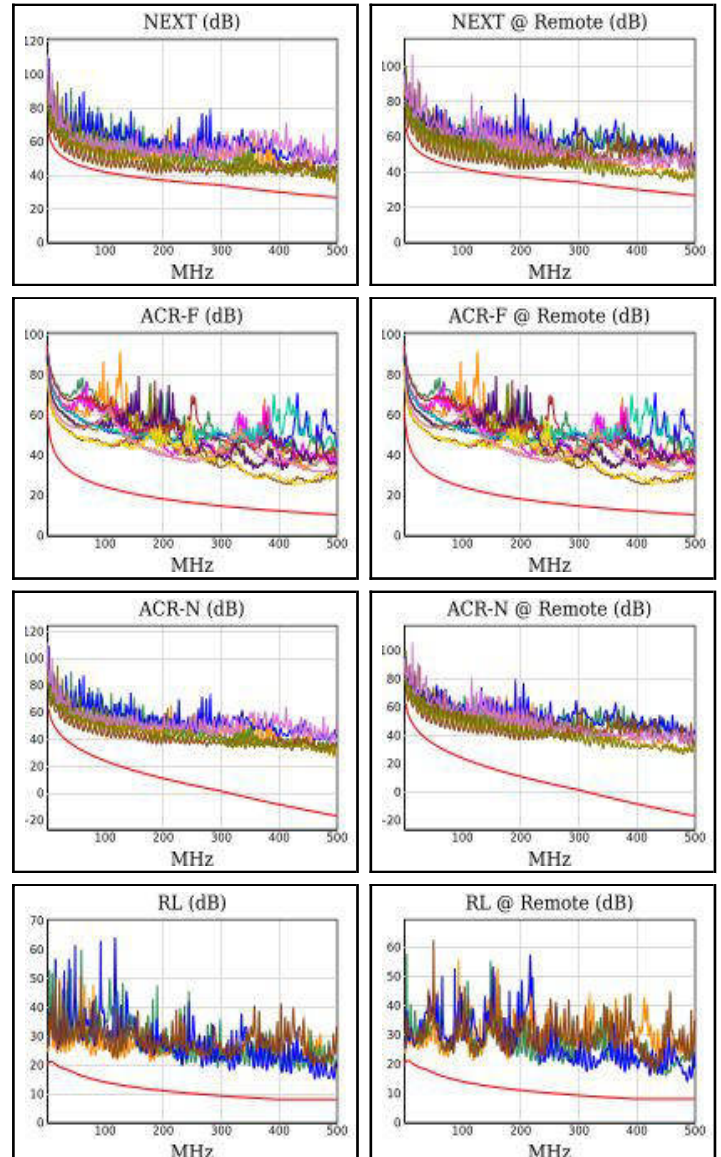
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	3,6-4,5
ACR-F (dB)	13.5	13.3	13.5	13.5
Freq. (MHz)	414.0	413.0	428.0	428.0
Limit (dB)	11.8	11.9	11.6	11.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.2	15.5	16.2	15.5
Freq. (MHz)	428.0	414.0	428.0	414.0
Limit (dB)	8.6	8.8	8.6	8.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.7	8.7	43.0	42.0
Freq. (MHz)	6.6	6.8	495.0	480.0
Limit (dB)	56.1	56.0	-16.7	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.2	9.4	43.2	42.5
Freq. (MHz)	6.9	7.1	495.0	480.0
Limit (dB)	53.5	53.2	-19.6	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.9	5.9	6.9	5.9
Freq. (MHz)	495.0	487.0	495.0	487.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





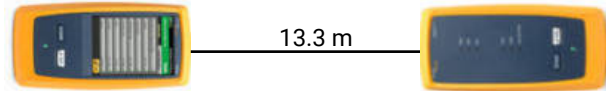
Cable ID: P2-R1-PP3-108

Test Summary: PASS

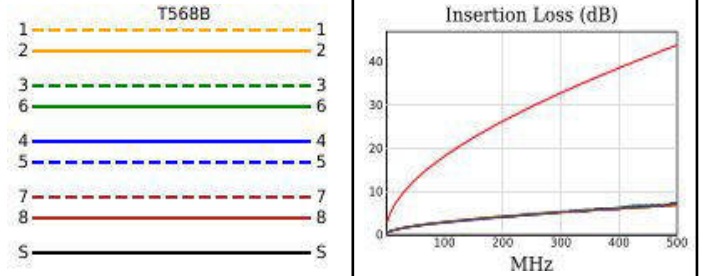
Date / Time: 04/14/2025 12:40:36 PM Operator: Capital Networks
 Headroom: 3.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	13.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	70
Delay Skew (ns), Limit 44	[Pair 1,2]	5
Resistance (ohms)	[Pair 1,2]	2.9
Insertion Loss Margin (dB)	[Pair 3,6]	36.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	3.6	3.7	4.5	5.4
Freq. (MHz)	93.3	41.8	469.0	480.0
Limit (dB)	42.3	48.0	27.6	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.7	4.4	5.7	7.1
Freq. (MHz)	30.3	40.8	470.0	469.0
Limit (dB)	47.8	45.7	24.7	24.7

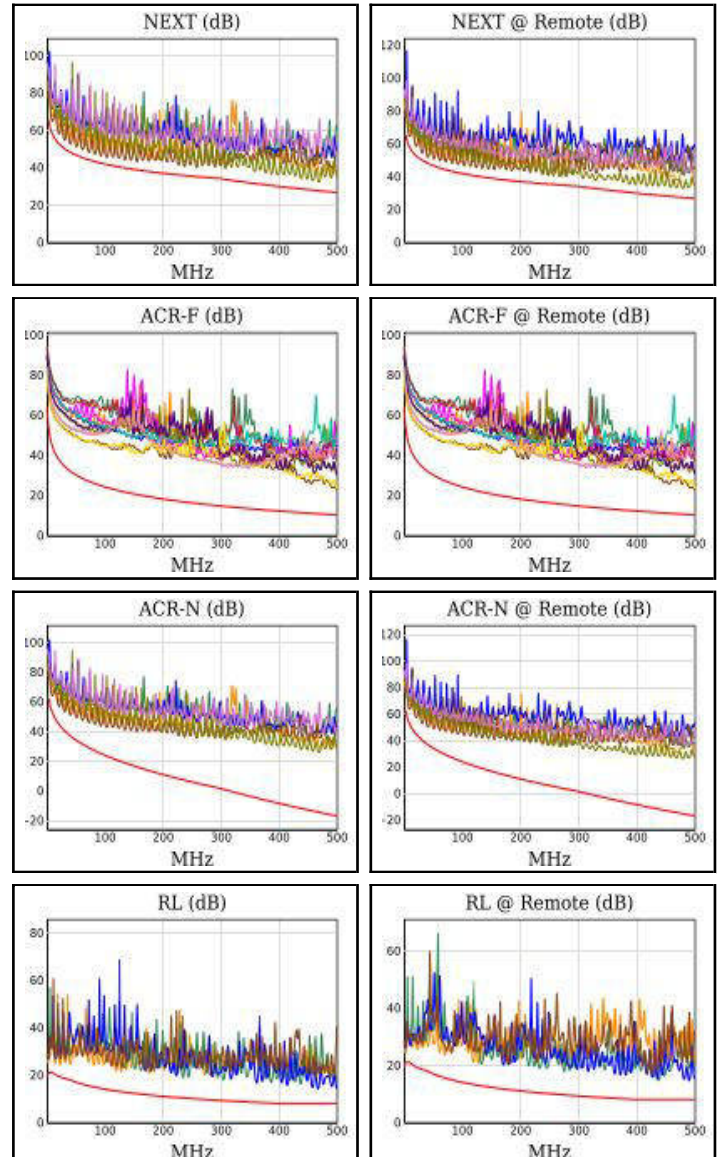
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	12.7	12.7	12.7	12.7
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.5	15.0	15.5	15.0
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	7.2	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	10.9	11.0	40.2	41.4
Freq. (MHz)	8.4	9.5	469.0	480.0
Limit (dB)	54.0	52.8	-14.6	-15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.8	10.5	41.0	42.3
Freq. (MHz)	8.4	8.6	470.0	469.0
Limit (dB)	51.7	51.4	-17.5	-17.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	3,6	4,5	3,6
RL (dB)	5.9	6.5	5.9	6.5
Freq. (MHz)	468.0	438.0	468.0	438.0
Limit (dB)	8.0	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





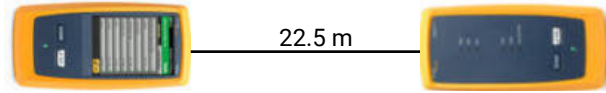
Cable ID: P2-R1-PP3-109

Test Summary: PASS

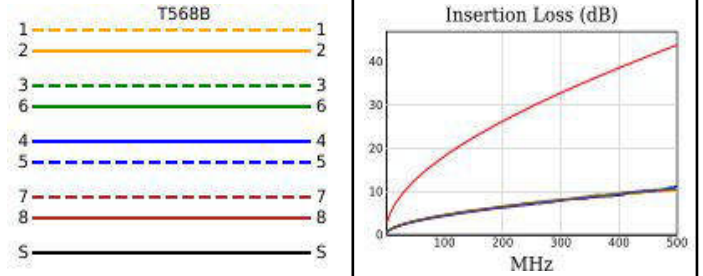
Date / Time: 04/14/2025 09:07:43 AM Operator: Capital Networks
 Headroom: 3.3 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	22.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	119
Delay Skew (ns), Limit 44	[Pair 1,2]	9
Resistance (ohms)	[Pair 1,2]	4.3
Insertion Loss Margin (dB)	[Pair 3,6]	32.4
Frequency (MHz)	[Pair 3,6]	498.0
Limit (dB)	[Pair 3,6]	43.6



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.2	3.3	9.1	8.1
Freq. (MHz)	48.0	48.3	488.0	475.0
Limit (dB)	47.0	47.0	27.0	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.6	4.6	8.2	9.5
Freq. (MHz)	4.8	134.0	489.0	473.0
Limit (dB)	60.6	37.2	24.1	24.6

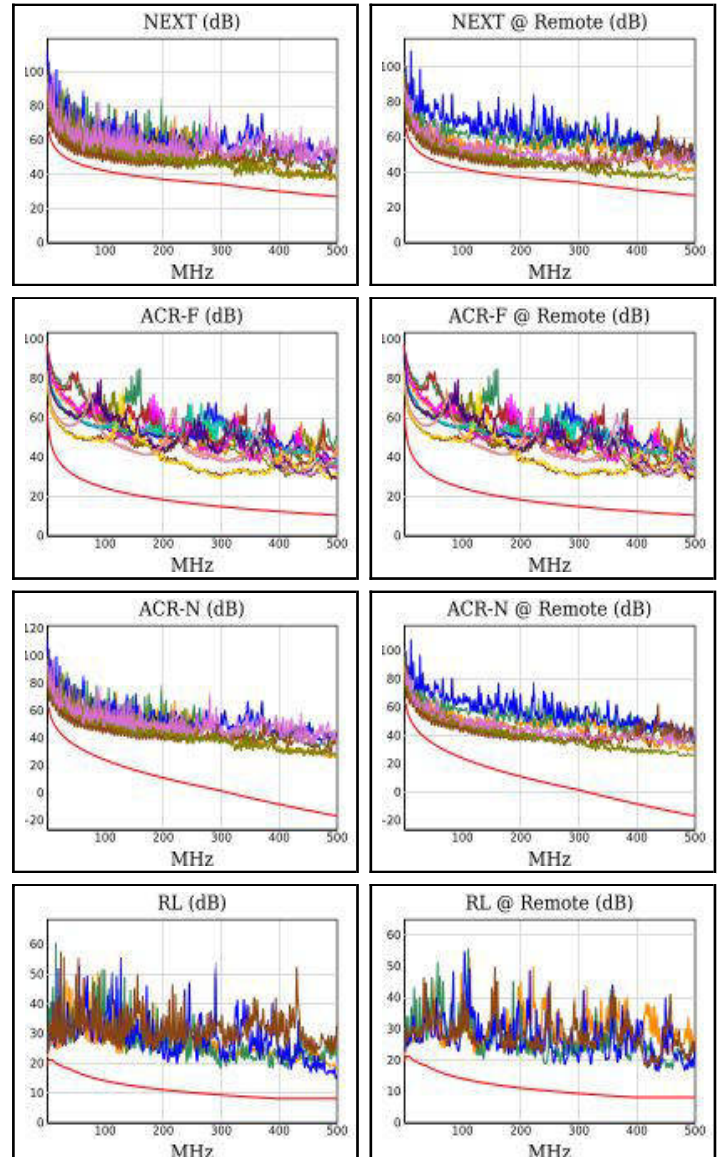
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	3,6-4,5	4,5-3,6
ACR-F (dB)	13.9	14.2	17.9	17.5
Freq. (MHz)	299.0	299.0	491.0	491.0
Limit (dB)	14.7	14.7	10.4	10.4
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	16.5	16.6	18.8	18.9
Freq. (MHz)	299.0	299.0	490.0	490.0
Limit (dB)	11.7	11.7	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.0	7.5	41.2	40.4
Freq. (MHz)	4.8	4.9	488.0	475.0
Limit (dB)	59.1	58.8	-16.1	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.5	7.9	40.5	43.3
Freq. (MHz)	4.8	4.9	489.0	498.0
Limit (dB)	56.8	56.6	-19.1	-19.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	3,6	4,5	4,5
RL (dB)	6.6	7.6	6.6	8.2
Freq. (MHz)	499.0	137.0	499.0	438.0
Limit (dB)	8.0	12.6	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





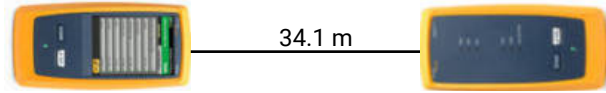
Cable ID: P2-R1-PP3-110

Test Summary: PASS

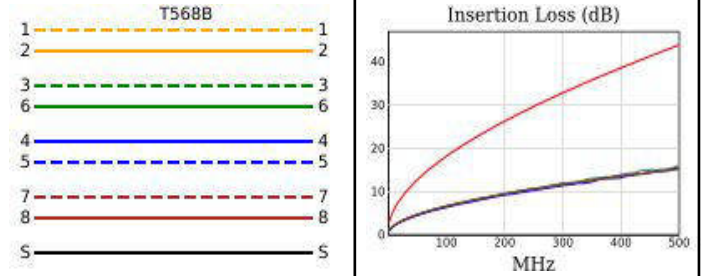
Date / Time: 04/14/2025 12:44:45 PM Operator: Capital Networks
 Headroom: 5.1 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	34.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	181
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.1
Insertion Loss Margin (dB)	[Pair 3,6]	28.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	7.0	5.1	8.5	6.1
Freq. (MHz)	195.5	195.5	492.0	475.0
Limit (dB)	37.1	37.1	26.9	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.2	6.2	7.9	7.5
Freq. (MHz)	195.5	195.5	488.0	472.0
Limit (dB)	34.5	34.5	24.1	24.6

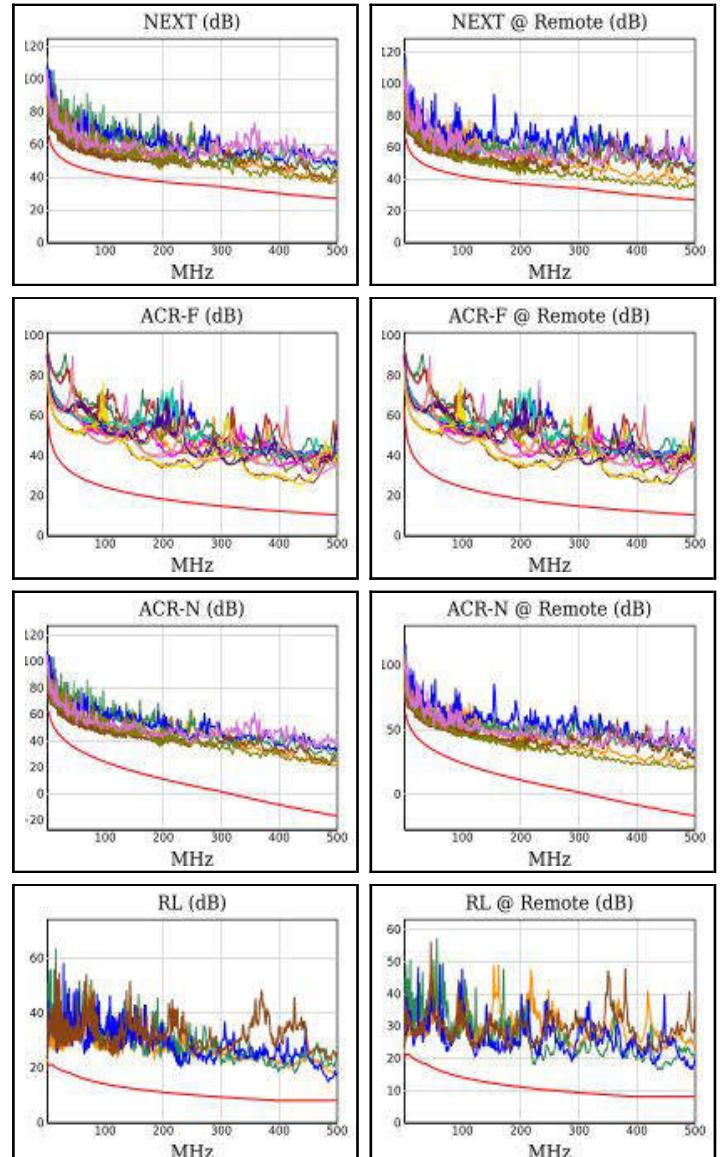
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.0	14.5	14.0	14.5
Freq. (MHz)	436.0	458.0	436.0	458.0
Limit (dB)	11.4	11.0	11.4	11.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.4	16.1	16.5	16.9
Freq. (MHz)	433.0	412.0	436.0	459.0
Limit (dB)	8.5	8.9	8.4	8.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.8	9.5	36.5	33.8
Freq. (MHz)	3.1	3.1	492.0	475.0
Limit (dB)	61.8	61.8	-16.5	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.9	10.7	35.6	36.3
Freq. (MHz)	5.8	6.0	488.0	494.0
Limit (dB)	55.1	54.7	-19.0	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.8	6.4	6.8	8.2
Freq. (MHz)	485.0	33.0	485.0	495.0
Limit (dB)	8.0	18.4	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





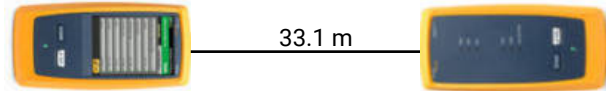
Cable ID: P2-R1-PP3-112

Test Summary: PASS

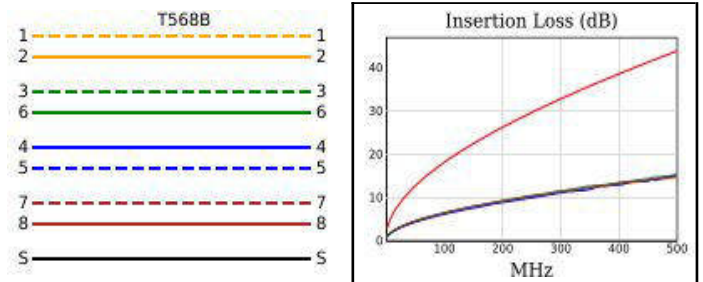
Date / Time: 04/14/2025 10:50:22 AM Operator: Capital Networks
 Headroom: 5.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.1
Prop. Delay (ns), Limit 498	[Pair 1,2]	176
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	6.9	5.4	9.4	6.6
Freq. (MHz)	3.1	344.0	471.0	475.0
Limit (dB)	65.0	32.0	27.5	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.8	7.0	8.9	7.6
Freq. (MHz)	92.5	390.0	471.0	479.0
Limit (dB)	39.9	27.5	24.7	24.4

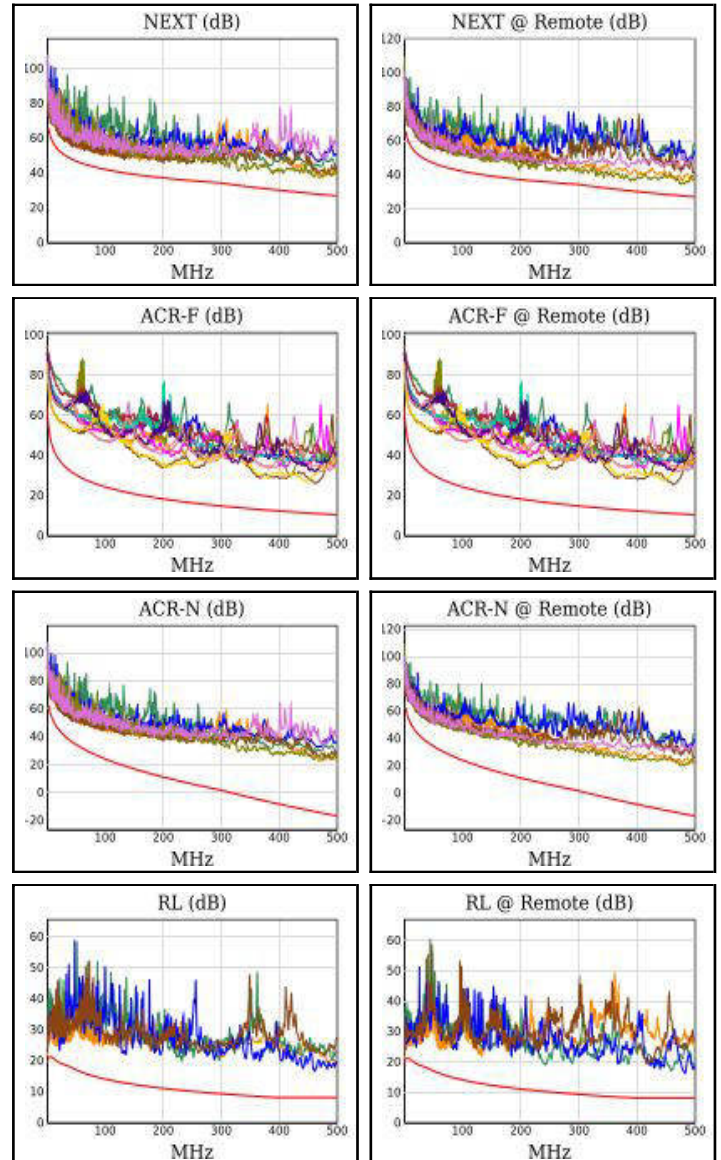
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.9	14.2	14.9	14.2
Freq. (MHz)	463.0	463.0	463.0	463.0
Limit (dB)	10.9	10.9	10.9	10.9
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	17.4	16.9	17.4	16.9
Freq. (MHz)	448.0	463.0	463.0	463.0
Limit (dB)	8.2	7.9	7.9	7.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.1	9.0	36.9	34.6
Freq. (MHz)	3.1	3.3	471.0	475.0
Limit (dB)	61.8	61.8	-14.7	-15.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.9	9.8	36.5	35.5
Freq. (MHz)	6.1	3.3	471.0	479.0
Limit (dB)	54.5	58.8	-17.6	-18.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	6.4	6.9	8.4	7.8
Freq. (MHz)	26.6	26.9	463.0	484.0
Limit (dB)	18.9	18.9	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



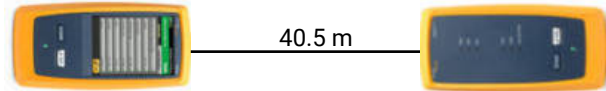


Cable ID: P2-R1-PP3-113

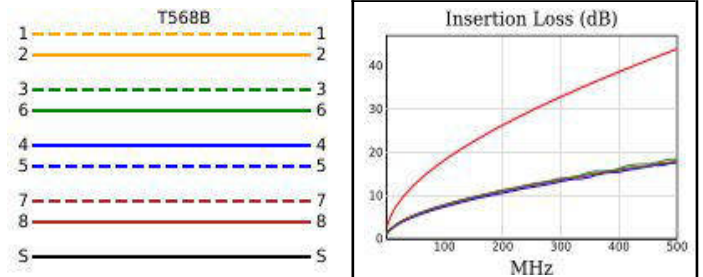
Date / Time: 04/14/2025 12:47:00 PM Operator: Capital Networks
 Headroom: 4.4 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 4,5]	40.5
Prop. Delay (ns), Limit 498	[Pair 1,2]	216
Delay Skew (ns), Limit 44	[Pair 1,2]	18
Resistance (ohms)	[Pair 1,2]	7.2
Insertion Loss Margin (dB)	[Pair 3,6]	25.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.2	4.4	8.9	6.5
Freq. (MHz)	67.8	325.0	470.0	477.0
Limit (dB)	44.6	32.8	27.5	27.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	4.5	5.2	9.1	9.0
Freq. (MHz)	68.0	5.1	470.0	477.0
Limit (dB)	42.1	60.1	24.7	24.5

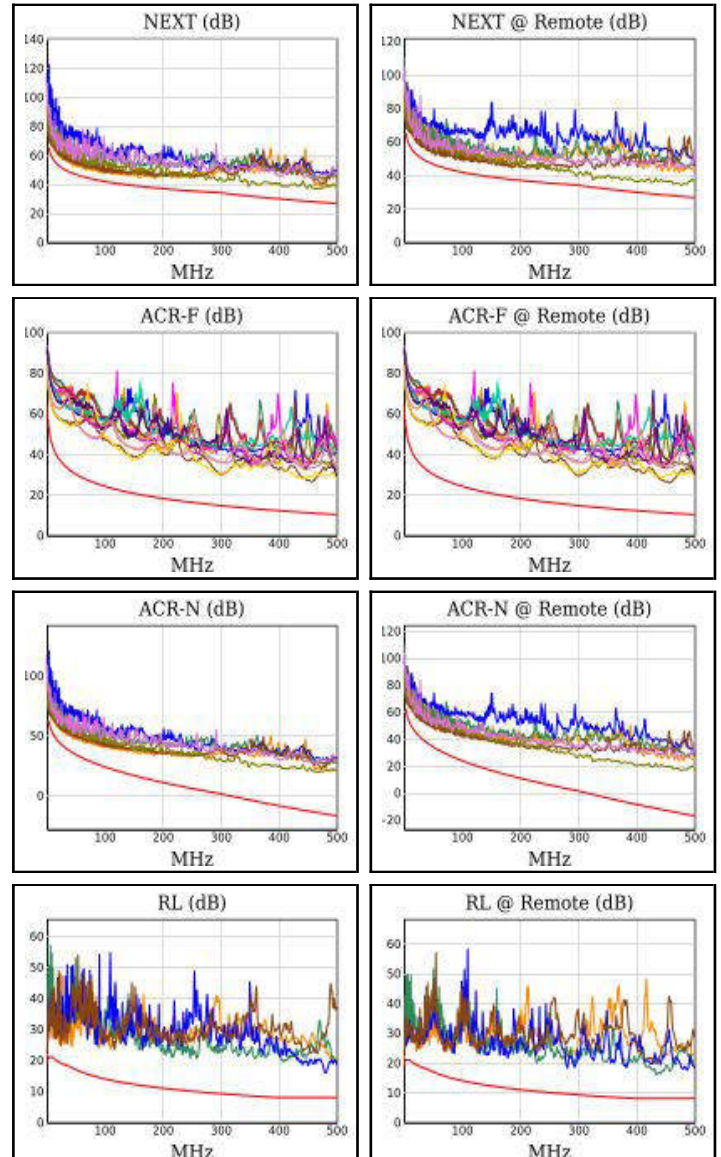
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.1	14.5	15.3	14.7
Freq. (MHz)	296.0	299.0	457.0	457.0
Limit (dB)	14.8	14.7	11.0	11.0
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	17.1	17.1	18.2	17.1
Freq. (MHz)	299.0	457.0	500.0	457.0
Limit (dB)	11.7	8.0	7.2	8.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	8.3	7.9	33.8	31.6
Freq. (MHz)	5.0	5.1	470.0	477.0
Limit (dB)	58.6	58.4	-14.7	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	7.5	7.5	33.6	33.7
Freq. (MHz)	5.0	5.1	470.0	477.0
Limit (dB)	56.3	56.1	-17.5	-18.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	4,5	3,6
RL (dB)	5.5	4.7	7.9	7.9
Freq. (MHz)	24.4	21.6	481.0	434.0
Limit (dB)	19.1	19.3	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





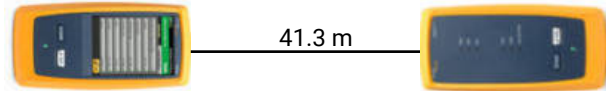
Cable ID: P2-R1-PP3-114

Test Summary: PASS

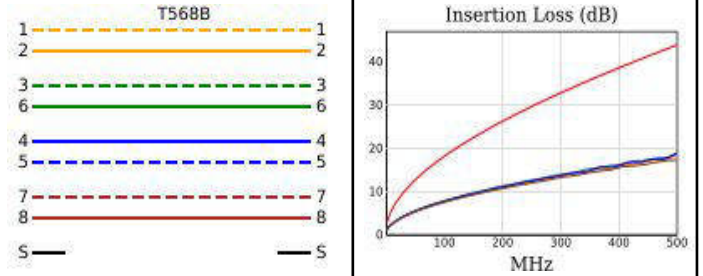
Date / Time: 04/14/2025 11:21:14 AM Operator: Capital Networks
 Headroom: 3.6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 1,2]	41.3
Prop. Delay (ns), Limit 498	[Pair 3,6]	215
Delay Skew (ns), Limit 44	[Pair 3,6]	13
Resistance (ohms)	[Pair 3,6]	7.0
Insertion Loss Margin (dB)	[Pair 4,5]	25.1
Frequency (MHz)	[Pair 4,5]	500.0
Limit (dB)	[Pair 4,5]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	4.9	3.6	9.2	5.6
Freq. (MHz)	62.8	62.5	496.0	479.0
Limit (dB)	45.1	45.1	26.8	27.3
Worst Pair	7,8	1,2	3,6	3,6
PS NEXT (dB)	5.8	4.2	8.7	7.8
Freq. (MHz)	62.5	62.8	473.0	479.0
Limit (dB)	42.7	42.6	24.6	24.4

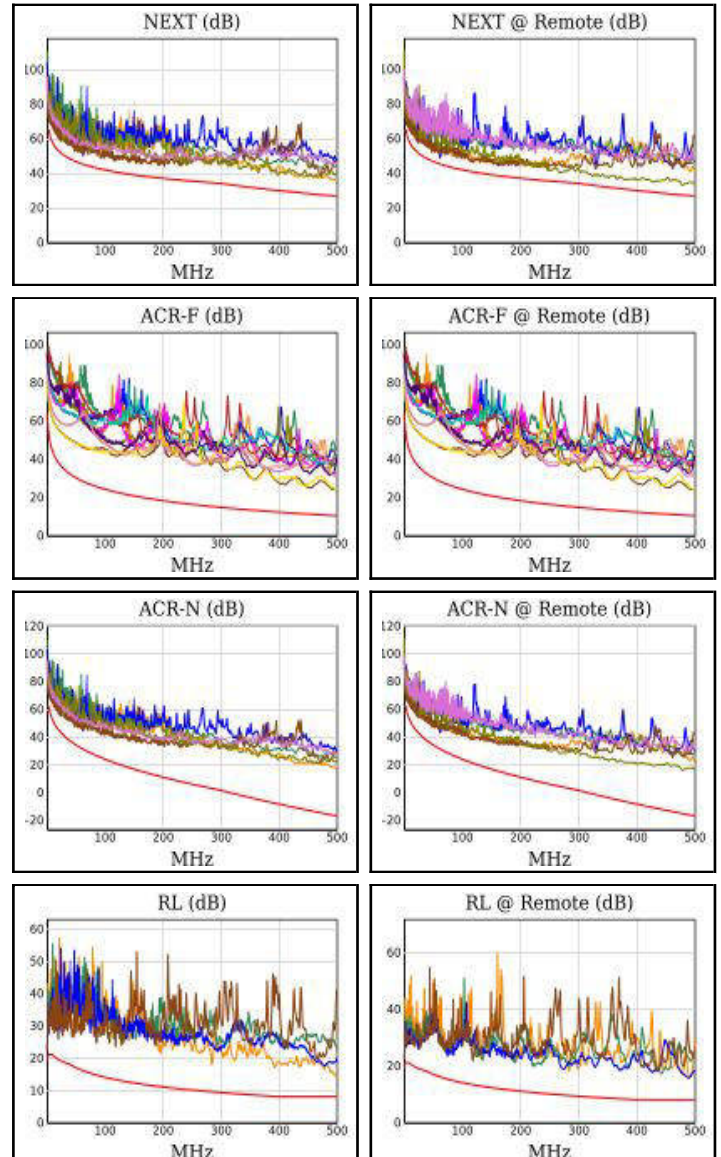
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	3,6-4,5
ACR-F (dB)	13.4	13.6	13.4	13.6
Freq. (MHz)	496.0	496.0	496.0	498.0
Limit (dB)	10.3	10.3	10.3	10.2
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	15.7	15.7	15.8	15.7
Freq. (MHz)	496.0	498.0	498.0	498.0
Limit (dB)	7.3	7.2	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	8.5	7.2	34.6	31.3
Freq. (MHz)	4.8	4.9	497.0	479.0
Limit (dB)	59.1	58.8	-16.9	-15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.2	7.4	35.2	32.8
Freq. (MHz)	5.0	4.9	496.0	479.0
Limit (dB)	56.3	56.6	-19.7	-18.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	1,2	4,5
RL (dB)	6.3	6.7	6.3	7.5
Freq. (MHz)	496.0	25.5	496.0	489.0
Limit (dB)	8.0	19.0	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive





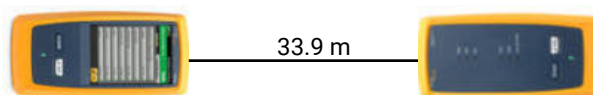
Cable ID: P2-R1-PP3-115

Test Summary: PASS

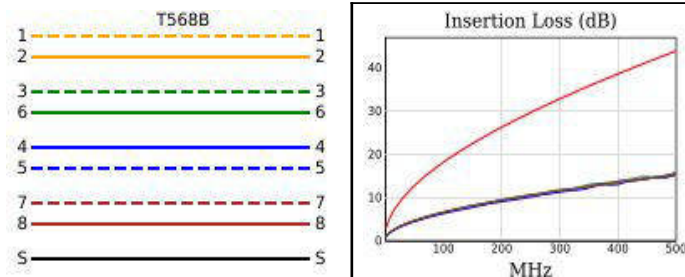
Date / Time: 04/14/2025 11:13:02 AM Operator: Capital Networks
 Headroom: 3.9 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	33.9
Prop. Delay (ns), Limit 498	[Pair 1,2]	180
Delay Skew (ns), Limit 44	[Pair 1,2]	14
Resistance (ohms)	[Pair 1,2]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	28.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	5.6	3.9	7.1	5.8
Freq. (MHz)	193.0	322.0	463.0	476.0
Limit (dB)	37.2	33.0	27.8	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.6	6.4	7.7	7.6
Freq. (MHz)	5.9	322.0	463.0	476.0
Limit (dB)	59.2	30.3	24.9	24.5

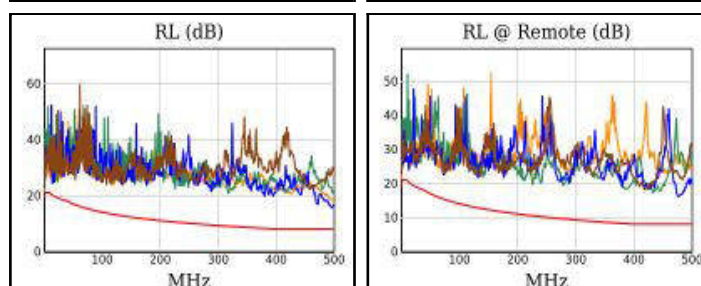
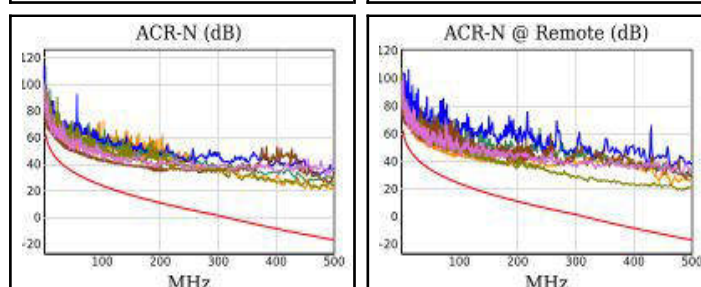
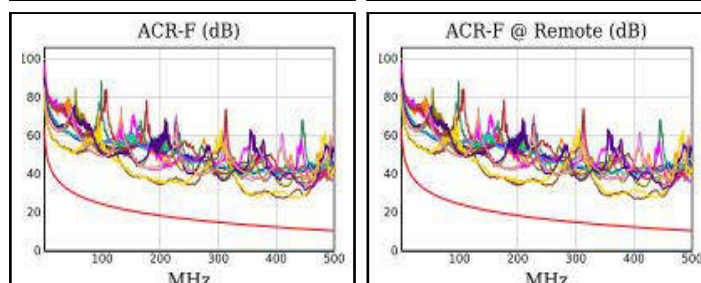
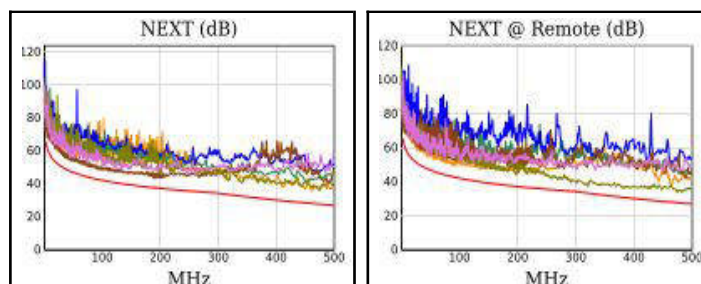
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.0	14.6	15.1	14.8
Freq. (MHz)	365.0	403.0	413.0	413.0
Limit (dB)	12.9	12.1	11.9	11.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.9	16.8	18.1	16.9
Freq. (MHz)	365.0	413.0	450.0	414.0
Limit (dB)	9.9	8.9	8.1	8.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	9.1	9.2	34.4	33.7
Freq. (MHz)	3.3	3.4	463.0	476.0
Limit (dB)	61.8	61.7	-14.1	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.4	9.8	35.9	35.3
Freq. (MHz)	5.9	6.1	476.0	476.0
Limit (dB)	54.9	54.5	-18.0	-18.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	4,5	4,5
RL (dB)	5.8	5.7	7.4	8.0
Freq. (MHz)	24.0	26.4	497.0	478.0
Limit (dB)	19.1	18.9	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





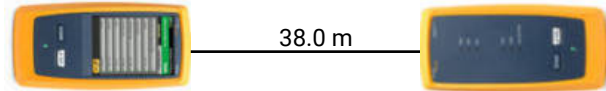
Cable ID: P2-R1-PP3-116

Test Summary: PASS

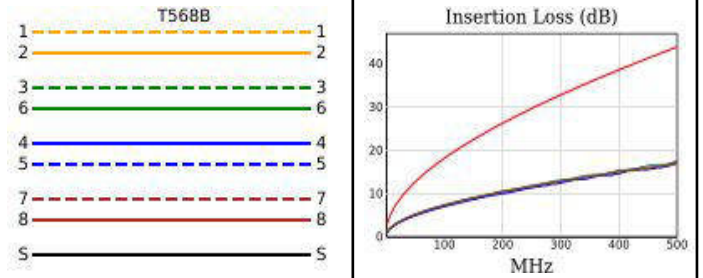
Date / Time: 04/14/2025 10:23:08 AM Operator: Capital Networks
 Headroom: 5.2 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	38.0
Prop. Delay (ns), Limit 498	[Pair 1,2]	202
Delay Skew (ns), Limit 44	[Pair 1,2]	16
Resistance (ohms)	[Pair 1,2]	6.8
Insertion Loss Margin (dB)	[Pair 3,6]	26.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	1,2-3,6	3,6-7,8
NEXT (dB)	7.8	5.2	9.0	6.4
Freq. (MHz)	5.4	328.0	499.0	476.0
Limit (dB)	62.1	32.7	26.7	27.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.4	6.6	8.8	8.4
Freq. (MHz)	5.4	61.5	476.0	476.0
Limit (dB)	59.8	42.8	24.5	24.5

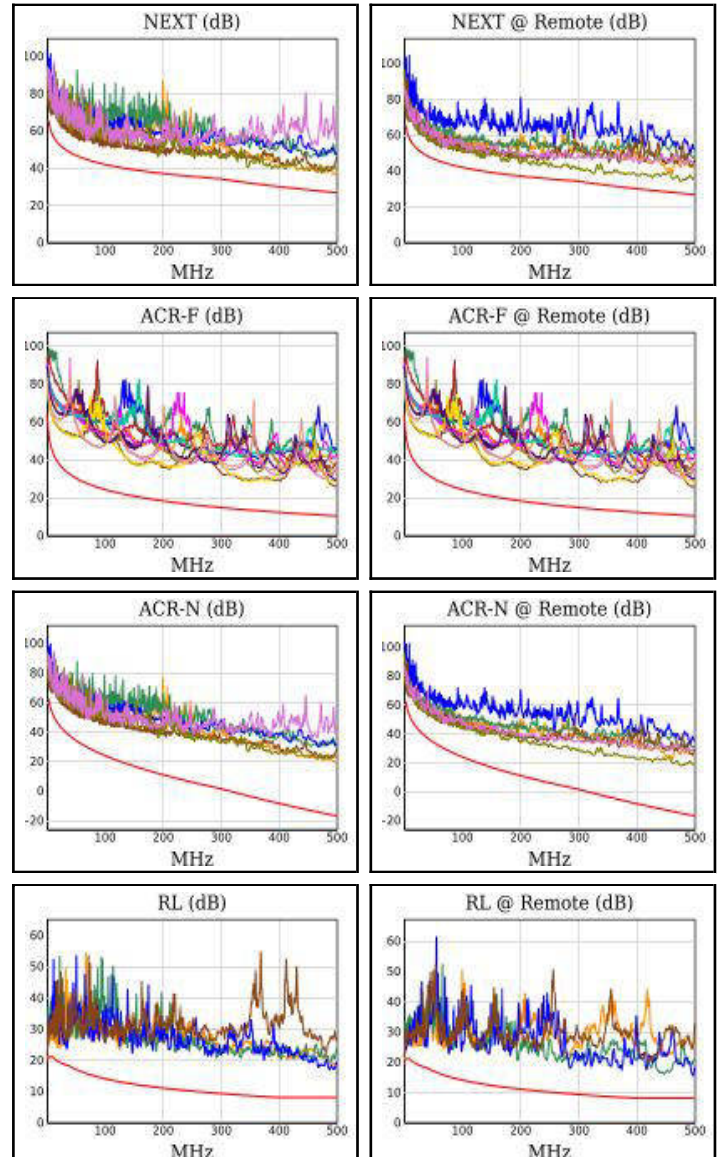
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.8	14.5	15.3	15.1
Freq. (MHz)	348.0	339.0	498.0	495.0
Limit (dB)	13.4	13.6	10.2	10.3
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	17.3	16.9	17.8	17.3
Freq. (MHz)	355.0	348.0	498.0	495.0
Limit (dB)	10.2	10.4	7.2	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	10.4	9.6	35.5	32.7
Freq. (MHz)	5.4	5.4	499.0	476.0
Limit (dB)	58.0	58.0	-17.0	-15.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.9	9.8	36.4	34.3
Freq. (MHz)	5.4	5.4	499.0	476.0
Limit (dB)	55.7	55.7	-19.9	-18.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	4,5	4,5
RL (dB)	4.5	6.0	8.7	7.3
Freq. (MHz)	22.9	22.6	487.0	498.0
Limit (dB)	19.2	19.2	8.0	8.0

Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



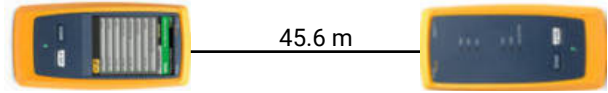


Cable ID: P2-R1-PP3-97

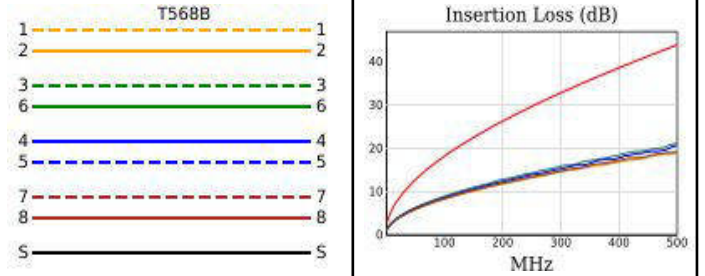
Date / Time: 04/14/2025 12:28:41 PM Operator: Capital Networks
 Headroom: 4.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Test Summary: PASS

Length (m), Limit 90	[Pair 1,2]	45.6
Prop. Delay (ns), Limit 498	[Pair 3,6]	240
Delay Skew (ns), Limit 44	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	22.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	4.7	5.6	8.8	8.1
Freq. (MHz)	97.8	59.0	479.0	492.0
Limit (dB)	42.0	45.5	27.3	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.9	6.4	9.3	8.9
Freq. (MHz)	93.0	171.0	480.0	493.0
Limit (dB)	39.8	35.5	24.4	24.0

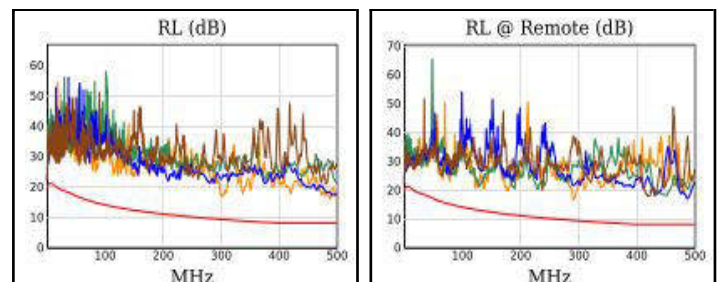
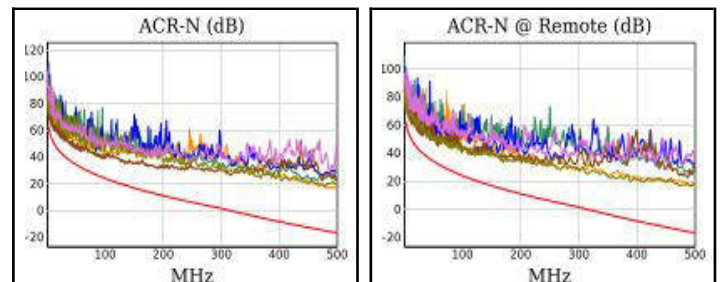
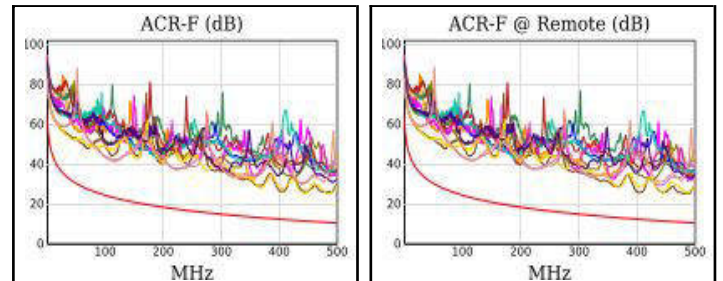
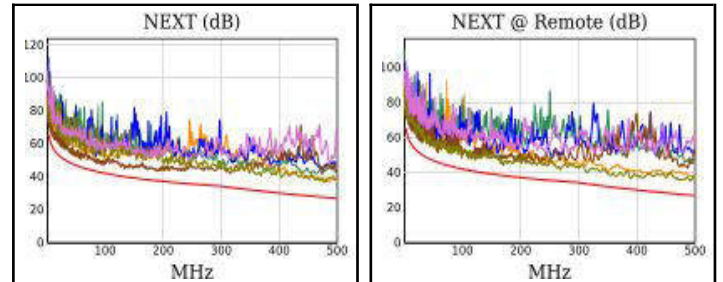
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.7	13.2	14.2	14.4
Freq. (MHz)	445.0	404.0	488.0	482.0
Limit (dB)	11.2	12.1	10.4	10.5
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	16.1	15.5	16.1	16.4
Freq. (MHz)	488.0	443.0	488.0	490.0
Limit (dB)	7.4	8.3	7.4	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	7.5	9.4	33.2	32.6
Freq. (MHz)	4.1	4.3	496.0	492.0
Limit (dB)	60.3	60.0	-16.8	-16.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.1	8.6	33.2	31.6
Freq. (MHz)	4.3	4.4	498.0	494.0
Limit (dB)	57.7	57.5	-19.8	-19.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	7.5	6.8	7.7	6.8
Freq. (MHz)	305.0	292.0	489.0	292.0
Limit (dB)	9.2	9.3	8.0	9.3

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





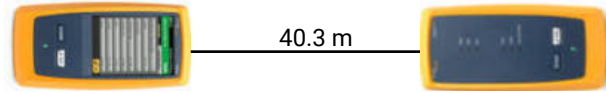
Cable ID: P2-R1-PP3-98

Test Summary: PASS

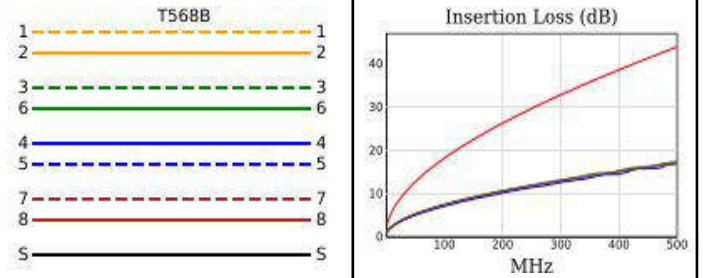
Date / Time: 04/14/2025 02:49:23 PM Operator: Capital Networks
 Headroom: 6 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	40.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	214
Delay Skew (ns), Limit 44	[Pair 1,2]	17
Resistance (ohms)	[Pair 1,2]	6.7
Insertion Loss Margin (dB)	[Pair 3,6]	26.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-4,5	3,6-7,8	1,2-3,6
NEXT (dB)	6.0	9.9	7.5	12.4
Freq. (MHz)	351.0	4.8	474.0	482.0
Limit (dB)	31.7	62.9	27.4	27.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.5	10.0	8.5	13.5
Freq. (MHz)	111.0	4.6	468.0	481.0
Limit (dB)	38.6	60.8	24.7	24.3

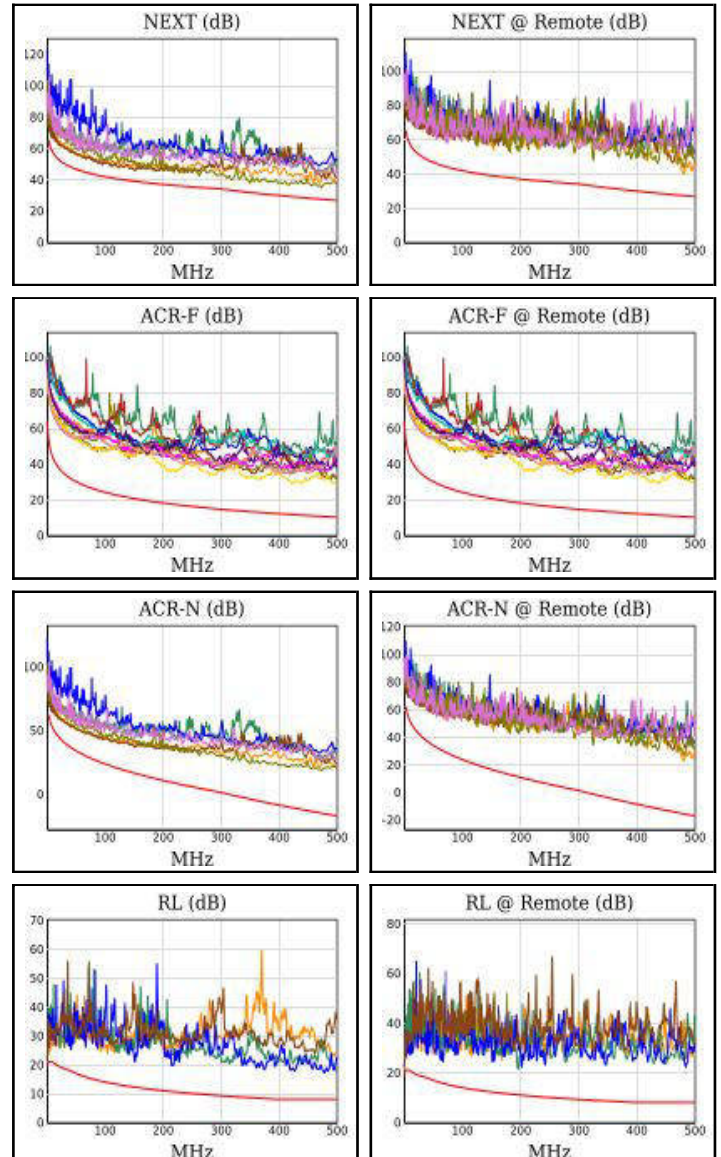
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	17.3	17.8	17.4	17.8
Freq. (MHz)	423.0	439.0	439.0	439.0
Limit (dB)	11.7	11.3	11.3	11.3
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	19.6	19.9	19.6	20.0
Freq. (MHz)	439.0	439.0	439.0	489.0
Limit (dB)	8.3	8.3	8.3	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	9.9	12.3	33.3	38.2
Freq. (MHz)	4.9	4.8	474.0	482.0
Limit (dB)	58.8	59.1	-15.0	-15.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.8	12.3	34.4	39.3
Freq. (MHz)	4.8	4.6	473.0	481.0
Limit (dB)	56.8	57.0	-17.8	-18.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	4,5	3,6
RL (dB)	6.5	8.6	9.0	10.1
Freq. (MHz)	23.3	67.3	478.0	196.5
Limit (dB)	19.2	15.7	8.0	11.1

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	





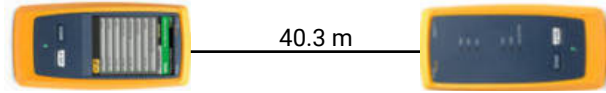
Cable ID: P2-R1-PP3-99

Test Summary: PASS

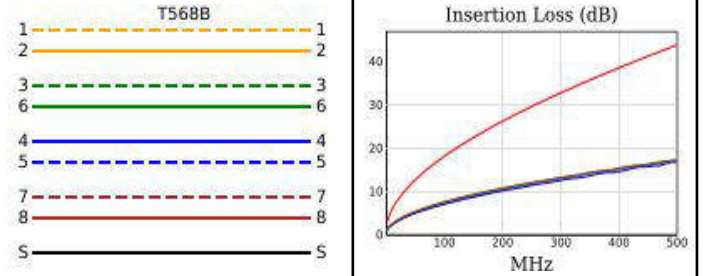
Date / Time: 04/14/2025 03:07:57 PM Operator: Capital Networks
 Headroom: 6.7 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	40.3
Prop. Delay (ns), Limit 498	[Pair 1,2]	217
Delay Skew (ns), Limit 44	[Pair 1,2]	20
Resistance (ohms)	[Pair 1,2]	6.7
Insertion Loss Margin (dB)	[Pair 3,6]	26.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

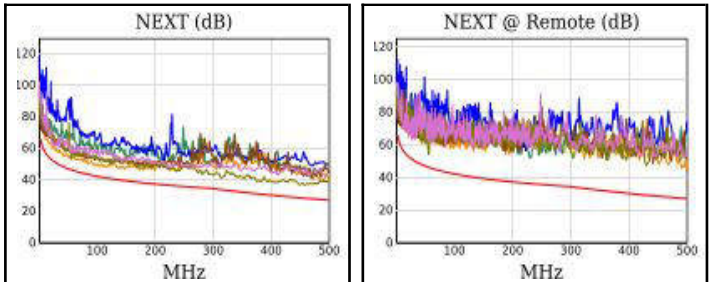


PASS

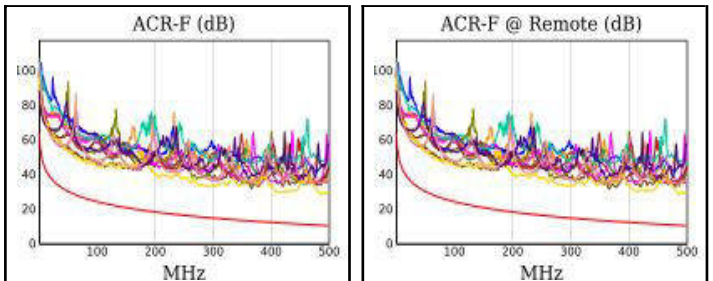


Worst Case Margin Worst Case Value

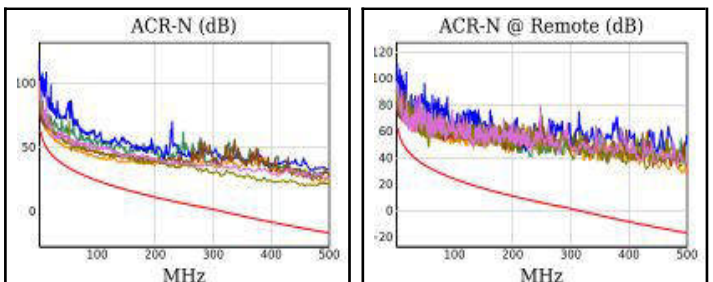
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	3,6-7,8	1,2-3,6
NEXT (dB)	6.7	7.9	8.5	17.2
Freq. (MHz)	110.0	56.5	460.0	500.0
Limit (dB)	41.2	45.8	27.8	26.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	9.4	9.5	18.7
Freq. (MHz)	56.5	56.5	472.0	500.0
Limit (dB)	43.4	43.4	24.6	23.8



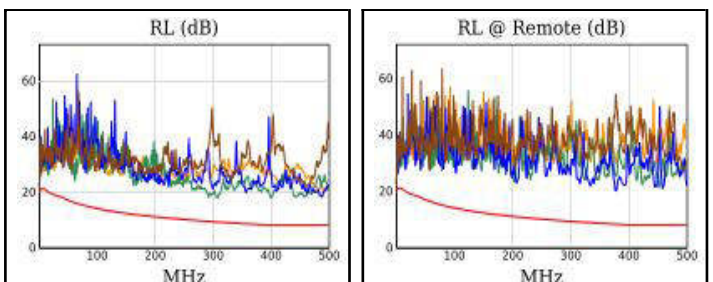
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	17.3	17.7	17.5	17.9
Freq. (MHz)	415.0	415.0	488.0	488.0
Limit (dB)	11.8	11.8	10.4	10.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	19.8	19.4	20.3	19.4
Freq. (MHz)	293.0	486.0	488.0	486.0
Limit (dB)	11.9	7.5	7.4	7.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	10.4	11.7	33.6	43.8
Freq. (MHz)	4.8	4.6	460.0	500.0
Limit (dB)	59.1	59.3	-13.8	-17.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.7	12.4	37.4	45.3
Freq. (MHz)	4.8	4.9	500.0	500.0
Limit (dB)	56.8	56.6	-20.0	-20.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	3,6	4,5
RL (dB)	7.8	9.7	8.2	11.6
Freq. (MHz)	62.8	43.0	293.0	378.0
Limit (dB)	16.0	17.7	9.3	8.2



Compliant Network Standards:

10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



Cable ID: P2-R1-PP3-P111

Test Summary: PASS

Date / Time: 04/15/2025 10:57:16 AM Operator: Capital Networks
 Headroom: 4.8 dB (NEXT) Software Version: V6.12 Build 2
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 02/03/2025
 NVP: 68.2% Remote (Module): 02/03/2025
 Project: CATAM FAC PISO 2

Model: DSX-8000
 Main S/N: 2330153
 Remote S/N: 2330145
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (m), Limit 90	[Pair 4,5]	29.0
Prop. Delay (ns), Limit 498	[Pair 1,2]	155
Delay Skew (ns), Limit 44	[Pair 1,2]	13
Resistance (ohms)	[Pair 1,2]	5.4
Insertion Loss Margin (dB)	[Pair 3,6]	30.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	5.2	4.8	7.5	7.3
Freq. (MHz)	3.5	99.0	475.0	448.0
Limit (dB)	65.0	41.9	27.4	28.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	5.3	9.3	7.5
Freq. (MHz)	3.9	99.0	480.0	464.0
Limit (dB)	62.0	39.4	24.4	24.9

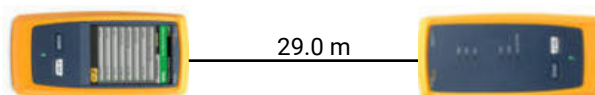
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.7	14.4	14.7	14.4
Freq. (MHz)	435.0	435.0	435.0	435.0
Limit (dB)	11.4	11.4	11.4	11.4
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	17.0	17.3	17.0	17.5
Freq. (MHz)	435.0	435.0	435.0	493.0
Limit (dB)	8.4	8.4	8.4	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	7.6	7.6	37.2	37.0
Freq. (MHz)	3.5	3.6	475.0	465.0
Limit (dB)	61.7	61.4	-15.1	-14.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	8.3	8.2	39.9	36.6
Freq. (MHz)	3.9	3.8	491.0	464.0
Limit (dB)	58.5	58.6	-19.3	-17.0

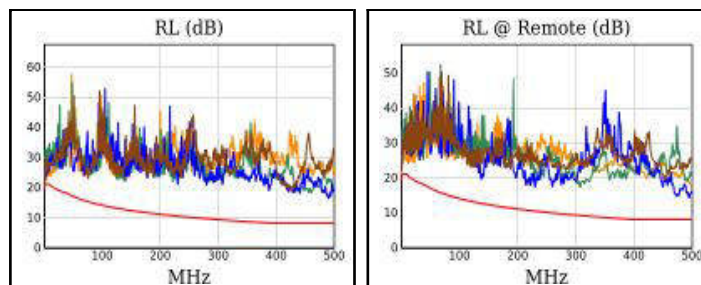
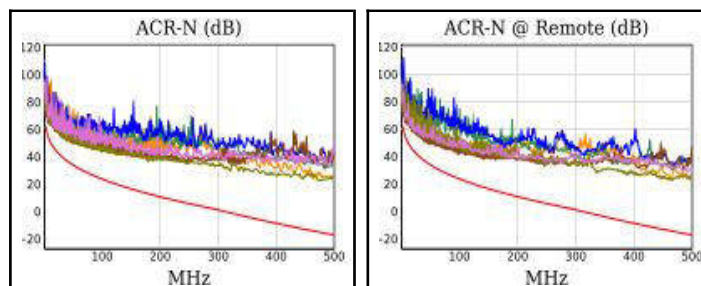
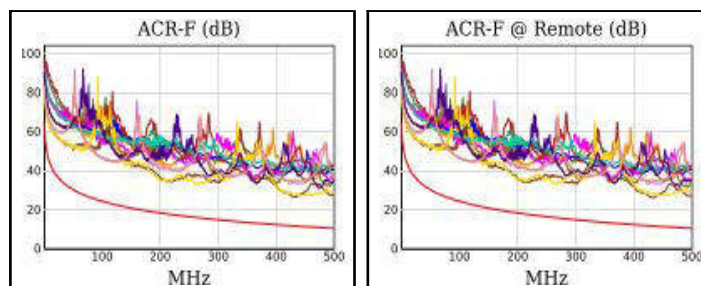
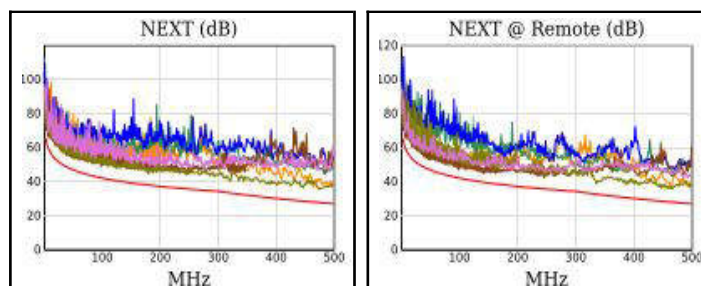
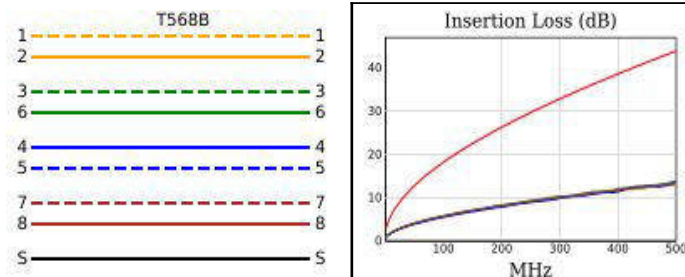
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	4,5	4,5	4,5
RL (dB)	7.7	6.1	7.9	6.1
Freq. (MHz)	76.5	496.0	491.0	496.0
Limit (dB)	15.2	8.0	8.0	8.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



PASS



LinkWare Live

Official Summary

Certification Report



Exclusively For: Prepared By:
EPC ORGANIZATION
LEONARDO JIMÉNEZ
proyectofac.epc@gmail.com

Projects
ENLACE FIBRAÓPTICA LABORATORIO SISTEMAS ELECTRONICOSA SEGURIDAD GRUSE 85 PISO
AEROPUERTO MILITAR CATAM

Product Name	Serial Number	Firmware Version	Calibration Date
CFP-QUAD	24060268	V6.13 Build 2	07/24/2024
CFP-QUAD	24060250	V6.13 Build 2	07/24/2024

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
001	PASS	TIA-568.3-E Multimode (STD)	40.7 m	1.25 dB (Loss Margin)	05/07/2025 12:28:04 PM
002	PASS	TIA-568.3-E Multimode (STD)	40.7 m	1.32 dB (Loss Margin)	05/07/2025 12:28:04 PM
003	PASS	TIA-568.3-E Multimode (STD)	40.6 m	0.91 dB (Loss Margin)	05/07/2025 02:16:16 PM
004	PASS	TIA-568.3-E Multimode (STD)	40.6 m	1.37 dB (Loss Margin)	05/07/2025 02:16:16 PM
005	PASS	TIA-568.3-E Multimode (STD)	40.7 m	0.70 dB (Loss Margin)	05/07/2025 02:17:25 PM
006	PASS	TIA-568.3-E Multimode (STD)	40.7 m	0.76 dB (Loss Margin)	05/07/2025 02:17:25 PM
007	PASS	TIA-568.3-E Multimode (STD)	40.6 m	0.85 dB (Loss Margin)	05/07/2025 02:47:10 PM
008	PASS	TIA-568.3-E Multimode (STD)	40.6 m	1.17 dB (Loss Margin)	05/07/2025 02:47:11 PM
009	PASS	TIA-568.3-E Multimode (STD)	40.6 m	1.34 dB (Loss Margin)	05/07/2025 02:19:04 PM
010	PASS	TIA-568.3-E Multimode (STD)	40.6 m	1.31 dB (Loss Margin)	05/07/2025 02:19:05 PM
011	PASS	TIA-568.3-E Multimode (STD)	40.8 m	1.02 dB (Loss Margin)	05/07/2025 12:53:02 PM
012	PASS	TIA-568.3-E Multimode (STD)	40.8 m	1.27 dB (Loss Margin)	05/07/2025 12:53:02 PM

Total Length:	488.1 m
No of Reports:	12
No of Passing Reports:	12
No of Failing Reports:	0
No of Warning Reports:	0
Documentation only:	0



Cable ID: 001

Test Summary: PASS

Date / Time: 05/07/2025 12:28:04 PM
Cable Type : OM3 Multimode 50

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

Loss (R->M)
PASS

Date / Time: 05/07/2025 12:28:04 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.7	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.21	0.16
Limit (dB)	1.47	1.41
Margin (dB)	1.26	1.25
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 002

Test Summary: PASS

Date / Time: 05/07/2025 12:28:04 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)
PASS

Date / Time: 05/07/2025 12:28:04 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.7	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.10	0.09
Limit (dB)	1.47	1.41
Margin (dB)	1.37	1.32
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 003

Test Summary: PASS

Date / Time: 05/07/2025 02:16:16 PM
Cable Type : OM3 Multimode 50

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

Loss (R->M)
PASS

Date / Time: 05/07/2025 02:16:16 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.51	0.50
Limit (dB)	1.47	1.41
Margin (dB)	0.96	0.91
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 004

Test Summary: PASS

Date / Time: 05/07/2025 02:16:16 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)
PASS

Date / Time: 05/07/2025 02:16:16 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.02	0.04
Limit (dB)	1.47	1.41
Margin (dB)	1.45	1.37
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 005

Test Summary: PASS

Date / Time: 05/07/2025 02:17:25 PM
Cable Type : OM3 Multimode 50

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

Loss (R->M)
PASS

Date / Time: 05/07/2025 02:17:25 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.7	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.77	0.57
Limit (dB)	1.47	1.41
Margin (dB)	0.70	0.84
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 006

Test Summary: PASS

Date / Time: 05/07/2025 02:17:25 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)

PASS
Date / Time: 05/07/2025 02:17:25 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.7	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.71	0.55
Limit (dB)	1.47	1.41
Margin (dB)	0.76	0.86
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 007

Test Summary: PASS

Date / Time: 05/07/2025 02:47:10 PM
Cable Type : OM3 Multimode 50

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

Loss (R->M)
PASS

Date / Time: 05/07/2025 02:47:10 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.62	0.55
Limit (dB)	1.47	1.41
Margin (dB)	0.85	0.86
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 008

Test Summary: PASS

Date / Time: 05/07/2025 02:47:11 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)
PASS

Date / Time: 05/07/2025 02:47:11 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.18	0.24
Limit (dB)	1.47	1.41
Margin (dB)	1.29	1.17
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 009

Test Summary: PASS

Date / Time: 05/07/2025 02:19:04 PM
Cable Type : OM3 Multimode 50

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

Loss (R->M)
PASS

Date / Time: 05/07/2025 02:19:04 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	-0.05	0.07
Limit (dB)	1.47	1.41
Margin (dB)	1.52	1.34
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 010

Test Summary: PASS

Date / Time: 05/07/2025 02:19:05 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)
PASS

Date / Time: 05/07/2025 02:19:05 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	200	
Length (m)	40.6	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.05	0.10
Limit (dB)	1.47	1.41
Margin (dB)	1.42	1.31
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 011

Test Summary: PASS

Date / Time: 05/07/2025 12:53:02 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (R->M)
PASS
Date / Time: 05/07/2025 12:53:02 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.8	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.40	0.39
Limit (dB)	1.47	1.41
Margin (dB)	1.07	1.02
Reference (dBm)	-24.53	-23.87

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:		
10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Cable ID: 012

Test Summary: PASS

Date / Time: 05/07/2025 12:53:02 PM
Cable Type : OM3 Multimode 50
Modal Bandwidth: 2000 MHz-km (850 nm)
Modal Bandwidth: 500 MHz-km (1300 nm)
Project: ENLACE DE FIBRA CATAM FAC

n = 1.482000 (850 nm)
n = 1.477000 (1300 nm)

Backscatter Coefficient: -68.00 dB (850 nm)
Backscatter Coefficient: -75.80 dB (1300 nm)

Loss (M->R)
PASS

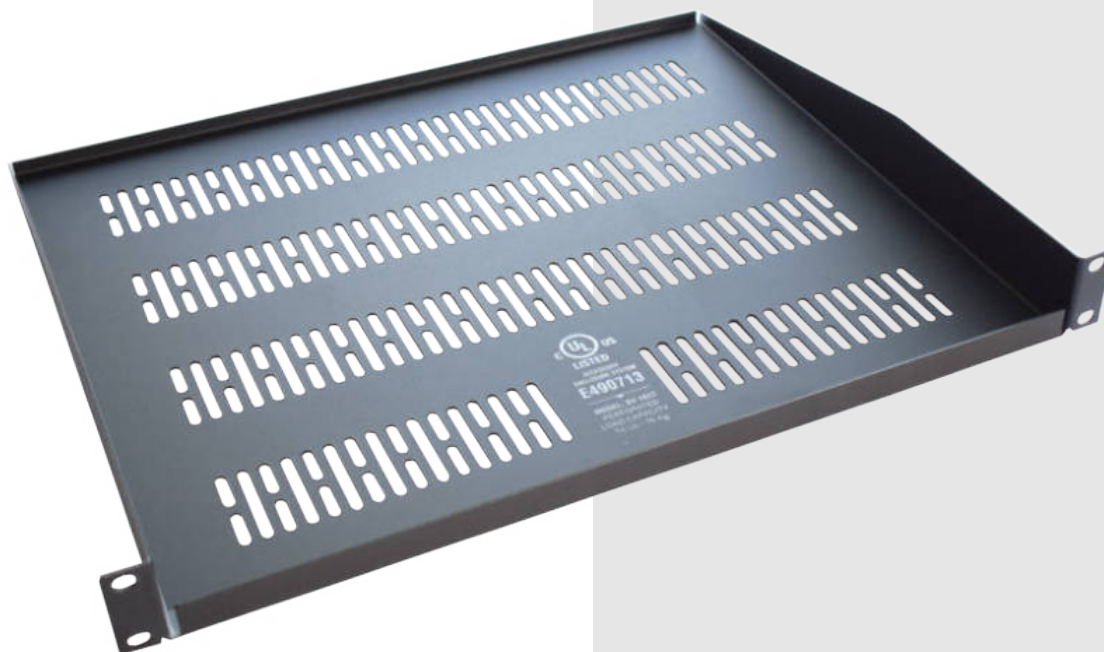
Date / Time: 05/07/2025 12:53:02 PM
Test Limit: TIA-568.3-E Multimode (STD)
Operator: CAPITAL NETWORKS
CertiFiber Pro (24023433 V6.13 Build 2)
Module: CFP-QUAD (24060268)
Calibration Start Date: 07/24/2024
CertiFiber Pro Remote (23490069 V6.13 Build 2)
Module: CFP-QUAD (24060250)
Calibration Start Date: 07/24/2024

Prop. Delay (ns)	201	
Length (m)	40.8	PASS
Limit 2000.0		
	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.06	0.14
Limit (dB)	1.47	1.41
Margin (dB)	1.41	1.27
Reference (dBm)	-23.88	-23.50

Number of Adapters: 2
Number of Splices: 2
Connector Type: LC
Patch Length1 (m): 2.0
Patch Length2 (m): 2.0
Reference Date: 05/07/2025 12:18:00 PM
2 Jumper

Compliant Network Standards:

10BASE-FL	10/100BASE-SX	100BASE-FX
1000BASE-LX	1000BASE-SX	10GBASE-LRM
10GBASE-LX4	10GBASE-SR	40GBASE-SR4
100GBASE-SR4	100GBASE-SR10	ATM52
ATM155	ATM155SWL	ATM622 Fiber Optic
ATM622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M5-SN-I	Fibre Channel 100-M5E-SN-I
Fibre Channel 200-M5-SN-I	Fibre Channel 200-M5E-SN-I	Fibre Channel 400-M5-SN-I
Fibre Channel 400-M5E-SN-I	Fibre Channel 800-M5-SN-S	Fibre Channel 800-M5E-SN-I
Fibre Channel 1200-M5-SN-I	Fibre Channel 1200-M5E-SN-I	Fibre Channel 1600-M5E-SN-I
FDDI Fiber Optic		



Bandeja fija Ventilada de 1U **Formato de montaje 19" - Profundidad: 381 mm**

Ideal para alojar equipos electrónicos y de comunicaciones que no sean de montaje en rack.

Esquema de ventilación garantiza una óptima disipación del calor, manteniendo sus equipos funcionando a la temperatura ideal, incluso en condiciones de alta carga.

Compatible con el estándar EIA/ECA-310-E de montaje de 19", esta bandeja se integra fácilmente a su rack o gabinete existente, optimizando el espacio disponible

BENEFICIOS

- Compatible con Gabinetes y Racks abiertos de 2 o 4 postes EIA de 19"
- Profundidad de 381 mm
- Soporta hasta 18 kg (36 Lbs)
- Solución versátil que permite montar equipo de prueba, equipos informáticos y pequeños dispositivos de red.
- Bandeja fija voladiza ventilada de 1U, que se monta en el frente
- Instalación en 1U de espacio en rack
- Se incluyen los accesorios de montaje necesarios



Referencia: BV-1017

ESPECIFICACIONES DEL PRODUCTO

Referencia	BV-1017
Formato	19" según EIA - 310 / ECA - E
Certificación	UL-2416 para capacidad de carga de 9 kg (20 Lbs).
Altura útil (espacio en rack)	1U
Máxima profundidad para equipos	381 mm
Capacidad de carga estática	18 Kg (39 Lbs)
Dimensiones (Al x An x Pr)	44 x 483 x 381
Material	Acero laminado en frío Calibre 16
Tratamiento	Desengrasante y fosfatizante
Acabado	Pintura electrostática horneada y fijada por infrarrojos.
Garantía	5 años
Accesorios	4 Tornillos 12-24 + 4 Tuercas Enjauladas



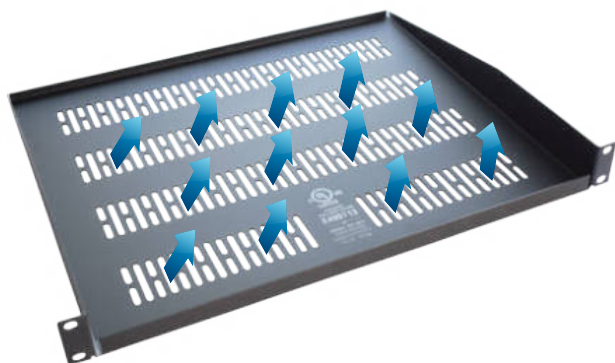
USO DEL PRODUCTO

La Bandeja fija ventilada admite equipos pequeños y livianos con una capacidad de 18 kg (39 lb). Es compatible con gabinetes y racks abiertos de 2 o 4 postes.



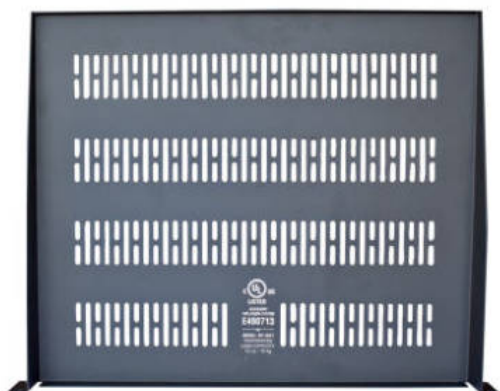
Referencia: BV-1017

BENEFICIOS



Ventilación optimizada para un funcionamiento fresco y eficiente

Diseño ventilado que garantiza una disipación de calor superior, manteniendo la temperatura operativa ideal para sus equipos, incluso en entornos de alta densidad.



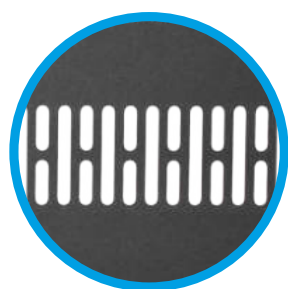
Robustez y confiabilidad para entornos exigentes

Fabricada con acero laminado en frío calibre 16, ofreciendo una resistencia excepcional contra impactos y deformaciones. Tratamiento de desengrasado y fosfatizado, seguido de un acabado en pintura electrostática horneada y fijada por infrarrojos, que garantiza una protección duradera contra la corrosión y otros agentes agresivos.

Calidad y Durabilidad

Certificada UL-2416, lo que garantiza su cumplimiento con los más altos estándares de calidad y seguridad.

Ofrece una vida útil extendida, minimizando los costos de reemplazo y mantenimiento.



Optimización del espacio en racks y gabinetes

Su altura útil de 1U permite aprovechar al máximo el espacio disponible en su rack o gabinete, maximizando la eficiencia de su infraestructura IT

Referencia: BV-1017

Referencia:

GF-2888

Formato de Montaje: 19"

Altura útil: **42U**

Altura Externa: 2,000 mm (78,74")

Ancho: 600 mm (23,6")

Profundidad: 1,200 mm (47")

ESPECIFICACIONES

DIMENSIONES

Altura útil	42U
Ancho	600 mm (23,6")
Profundidad	1,200 mm (47")
Parales demarcados	Si, bajo estandar EIA-310D
Fondo útil Máximo (Paral a Paral)	1.100 mm (43")

VENTILACIÓN

Ventilación Posterior:	Puerta posterior doble hoja con micro perforaciones Hexagonales al 80% cada una.
Puerta Frontal:	Curva con Marco metálico con microperforaciones Hexágones al 80%
Paneles laterales	Doble panel desmontable provisto de cerradura de seguridad.

CAPACIDAD DE CARGA

Estática:	997 kg (2,200 lb)
Dinámica	175 kg (386 lb)

ESTANDARES

Cumplimiento de Estándares	UL-2416 EIA-310D IEC 297-2 PCI DSS
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Excelente diseño para la optimización de refrigeración pasiva.

MODELO DYNAMIC

Formato: 19"

Ancho: 600 mm (23,6")

Fondo: 1,200mm (47")

Extracción Rápida del calor

Con el objetivo de agilizar la circulación del aire y brindar condiciones de funcionamiento óptimas sin que la densidad de carga térmica afecte los equipos el exceso de calor debe ser **evacuado del gabinete rápidamente.**

El modelo GF-2888 esta provisto de una puerta frontal micro perforada así como ranuras superiores para la instalación de ventiladores en el techo del gabinete (Opcional), que permiten la circulación masiva de aire.

La puerta posterior doble cuenta con micro-perforaciones al 80% en cada una de ellas, permitiendo un intercambio rápido del aire caliente generado por los equipos.

REFERENCIA: GF-2888



ESPECIFICACIONES

GENERALES

El gabinete de Piso para Servidores y Data Centers, brinda una extracción rápida del calor generado por los equipos, aprovechando el intercambio de aire frío que ingresa desde la puerta frontal del gabinete.

Ideal para equipos con profundidades hasta de 1,100 mm (43 in). como Servidores y UPS Rackeables que por la alta densidad instalada de estos equipos se requiere expulsar el calor generado por los mismos.

La puerta posterior es doble lo que facilita el montaje y revisiones en espacios reducidos. Cuenta con micro perforaciones al 80% en cada una de ellas para facilitar la salida de aire desde la parte posterior de la unidad. Cerradura de seguridad que restringe el acceso de personal no autorizado a la unidad.

La puerta frontal es curva y esta construida en un marco metálico con micoperforaciones hexagonales al 80% que permiten el ingreso de grandes volúmenes de aire frío, cuenta con cerradura de seguridad que restringe el acceso de personal no autorizado.

Las tapas laterales son desmontables por medio de cerradura para facilitar la instalación de equipos de manera práctica y segura.

El techo cuenta con ranuras que permiten la instalación de 6 unidades de ventilación adicionales y agujeros para permitir el ingreso de cables, la base es amplia y abierta para permitir el acceso de cables en el caso de que el ingreso de los mismos se realice por medio de piso falso.

4 Parales de montaje dispuestos sobre un sistema 3 de rieles a cada uno de su lados los cuales permiten un ajuste preciso de los equipos hasta una profundidad máxima de 1.100 m (43 in). Marcado bajo el estandar EIA-310D y con perforaciones cuadradas para uso con tuerca tipo Push. El sistema de rieles está soldado a la unidad lo que brinda excelente resistencia y estabilidad al gabinete. La capacidad de carga estática es de 997 kg (2,200 lbs).

Ruedas instaladas que permiten soportar el propio peso del gabinete (175 kg - 386 lb) hasta el sitio que será instalado, Cuenta con 4 Niveladores que permiten compensar las variaciones en altura del piso y garantizar que todo el gabinete se encuentre estable.

Cuenta con Cable equipotencial de Conexión eléctrica en todas las superficies metálicas expuestas que transportan corriente, como Protección contra descargas eléctricas accidentales, además de barraje a tierra en barra de cobre de 1/8" x 1/2" para 6 conexiones con capacidad nominal de 85 amperios.

Construido en acero laminado en frío de diversos calibres y esquinas hexagonales de aluminio inyectado que brindan, gran apariencia además de evitar deformaciones en las esquinas por golpes accidentales en su montaje. Todo el conjunto es tratado en tanques especiales con procesos desengrasantes y fosfatizantes que garantizan su resistencia a la oxidación. Los acabados son en pintura de polvo electrostática horneada y fijada por paneles infrarrojos.

Gabinete completamente armado para facilitar su instalación y transporte.

Garantía de 5 años.

ESPECIFICACIONES TÉCNICAS

Modelo:	GF-2888
Altura útil Rieles de Montaje	42U, marcados bajo el estándar EIA-19", Racks de Telecomunicaciones o equipamiento para telecomunicaciones con perforaciones así (5/8", 5/8" y 1/2") para tuerca tipo Push.
Características Físicas	Dimensiones Externas Alto (H): 2,000 mm. Ancho (W): 600 mm Fondo (D): 1,200 mm
Capacidad de Carga	Estática: 997 kg (2,200 lb). Dinámica: 175 Kg (386 lb).
Características Eléctricas	Cable equipotencial : Cable equipotencial de Conexión eléctrica en todas las superficies metálicas expuestas que transportan corriente, como protección contra descargas eléctricas residuales Barraje a tierra : Barraje a Tierra en barra de cobre de 1/8" x 1/2" para 6 conexiones con capacidad nominal de 85 amperios.
Sistema de Ventilación	• Puerta frontal con microperforaciones Hexagonales al 80% y puerta Posterior Doble con micro perforaciones hexagonales al 80%. • Techo provisto de 6 ranuras habilitables para la instalación de ventiladores.
Estructura	• Construcción en acero laminado en frío de diversos calibres y esquinas hexagonales de aluminio inyectado para evitar deformaciones en las esquinas por golpes accidentales en su montaje. Conjunto tratado en tanques especiales con procesos desengrasantes y fosfatizantes que garantizan resistencia a la oxidación. • Acabados en pintura de polvo electrostática horneada y fijada por paneles infrarrojos. Cumple con los estándares: UL-2416 y PCI DSS.
Paneles laterales	4 Paneles laterales desmontables con cerradura para facilitar la instalación y mantenimiento de equipos.
Panel Superior (Techo)	6 Ranuras superiores para instalación de ventiladores adicionales (Opcional) 4 ranuras para ingreso de cables dispuestas sobre los laterales del Techo.
Puerta Frontal	Puerta Metálica curva con marco metálico y microperforaciones hexagonales al 80% para ingreso de altos volúmenes de aire, con cierre de seguridad tipo maneta con grado de protección IP-65.
Rieles de Montaje	Elaborados en acero galvanizado de 2,5 mm y acabados en pintura electrostática marcados bajo el estándar EIA-310D.

ESPECIFICACIONES TÉCNICAS

Estandares

EIA / ECA-310-E
IEC 297-2
UL- 2416
PCI DSS

Accesorios Incluidos

4 Ruedas con capacidad de carga dinámica de 175 Kg (386 lb).
4 Niveladores
40 Tuercas Tipo Push
40 Tornillos 12-24
80 Arandelas
2 Llaves para puerta frontal
4 Llaves para paneles laterales.
Instrucciones de montaje: UL- 2416

Grado de Protección NEMA

IP-20

Garantía

5 años por defectos de fábrica

REFERENCIA: **MV-4837**
16 SALIDAS ELÉCTRICAS

FORMATO DE MONTAJE	:	VERTICAL
TOMA CORRIENTE	:	NEMA 5-15R
VOLTAJE DE SALIDA	:	120V AC.
FRECUENCIA	:	50/60 Hz
EXTENSIÓN ELÉCTRICA	:	1,5 METROS
CLAVIJA INYECTADA	:	15A-125V
PROTECTORES DE SOBRE CARGA DE CORRIENTE	:	2 X 16 AMP



CERTIFICACIONES

- RETIE CERTIFICADO N° 1252
EMITIDO POR CERTÉCNICA

TOMACORRIENTES

Tipo NEMA 5-15R, certificadas bajo la norma UL,
que garantizan su funcionalidad y seguridad

ESTRUCTURA EN DISPOSICIÓN VERTICAL

Multitoma vertical para instalación en gabinetes
o Racks de 28U a 45U

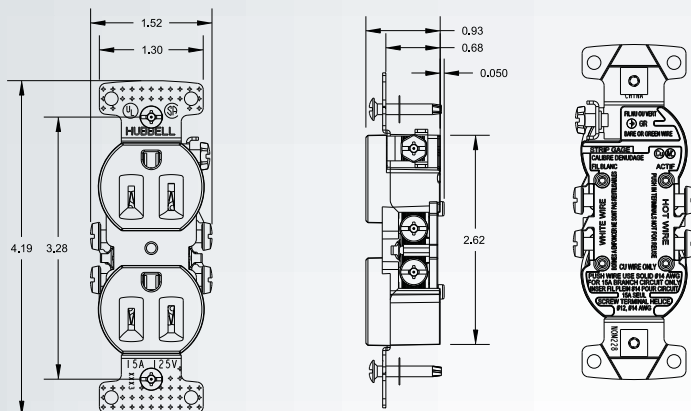
PROTECCIÓN

Breakers de 16 amperios, en 2 circuitos
independientes que protegen los equipos
de sobrecargas y cortos circuitos .



Extensión eléctrica en
cable encauchado
de 1,5 metros de largo
con clavija inyectada
15A-125 • Certificada UL

LISTADO DE MATERIALES TOMACORRIENTE GRADO INDUSTRIAL



DESCRIPCIÓN	MATERIAL	ACABADO
CUBIERTA	PVC	
BASE	PVC	
LINEA TERMINAL	COBRE	
TORNILLO DE SUJECION	ACERO	ELECTRO ZINCADO
TORNILLO DE SUJECION	ACERO	PLACA DE BRONCE
TIRA	ACERO	
CONTACTO A TIERRA	ACERO	
RESORTE A TIERRA	ACERO INOX	
TORNILLO DE MONTAJE	ACERO	
ARANDELAS	PVC	

ESPECIFICACIONES TÉCNICAS

TENSIÓN DE ENTRADA	120 V de CA	VOLTAJE NOMINAL DE SALIDA	100; 120; 127
CORRIENTE DE ENTRADA MÁXIMA (FASE)	15 A	CONEXIONES DE SALIDA	(10 Duplex) NEMA 5-15R
FRECUENCIA DE ENTRADA	50 / 60 Hz	BREAKERS	2 de 16 AMP en circuitos independientes para 10 Puntos cada uno.
FASE DE ENTRADA	Monofásico	CONEXIÓN DE ENTRADA	15A-125 de 1,5 metros
EXTENSIÓN ELÉCTRICA	Cable encauchetado 3 x 14 AWG, de 1,5 metros de largo con clavija inyectada de 15A -125 V. Certificada UL.	MATERIAL ESTRUCTURA	Acero laminado en frío, tratada con procesos desengrasantes y fosfatizantes con acabados en pintura electrostática.
TOMA CORRIENTES	16 salidas eléctricas, tipo NEMA 5-15R, grado industrial, Certificada UL. Color: Café	DIMENSIONES	Alto: 1,400 mm Ancho: 54 mm Profundo: 54 mm



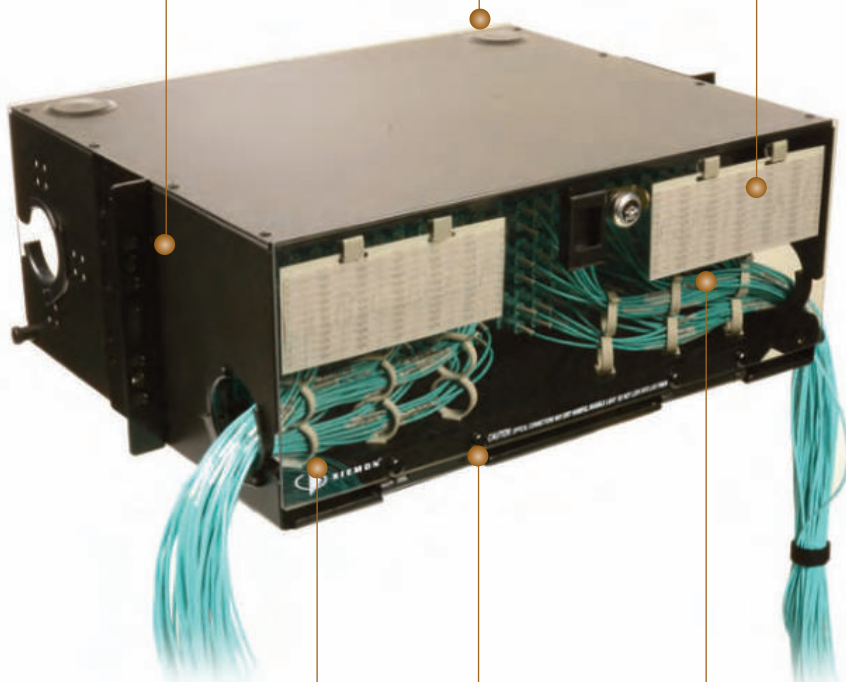
Rack Mount Interconnect Center (RIC3)

The RIC3 provides the best overall value for exceptional fiber management. The RIC3 enclosure offers superior fiber density without sacrificing fiber protection and accessibility. Features include a fully removable tray, improved labeling, standard front and rear door locks, and single-finger door latches. With superior cable management, port identification, fiber accessibility and security, the RIC3 is the best way to protect mission critical fiber connections.

Superior Design — Top and bottom access holes located at the rear of the enclosure allow fibers to be routed between tandem enclosures without having to run fibers outside of the enclosure

Complete Access — Management tray has a positive stop in both front and rear working positions providing complete access for moving, adding, changing, or cleaning of fiber connections

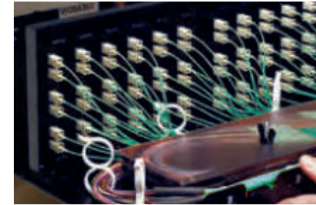
Enhanced Labeling — Label virtually any port configuration with our hinged labels. The labels hang on the front door for improved visibility. When the door is opened, labels flip down allowing ready viewing of the label and corresponding ports



Rotating Grommets — Patented rotating grommets facilitate loading and retention of jumpers and fiber while minimising microbending stress when using the sliding tray

Quick-Release Hinges — Spring loaded quick-release hinges enable easy opening and removal of front and rear doors for complete access to fiber connections

Maximum Capacity — The RIC3 enables a maximum amount of fibers to be patched or patched and spliced in a 2, 3, and 4U enclosure without compromising accessibility. This allows more efficient utilisation of rack space



Removable Tray

The RIC3 cable management tray is fixed in place, but can be removed from the front or rear of the enclosure and moved to a work table for greater convenience.



Latching and Locking

The RIC3 features a single-finger latch on both front and rear doors. Front and rear doors include a lock for added security.



Quick-Pack® Adapter Plates

Siemon Quick-Pack adapter plates can be inserted or removed with a single-finger latch for quick and easy access to fiber connections.





Rack Mount Interconnect Center (RIC3)

Siemon RIC3 enclosures are designed for enhanced fiber management and ease of use. They are compatible with an array of Siemon fiber Quick-Pack® and MTP adapter plates for your choice of fiber adapters and port density.



Part # **Description**
RIC3-24-01 24- to 96-fiber (384 fibers with MTP adapter plates)
Rack Mount Interconnect Center, accepts (4)
Quick-Pack adapter plates, 2U, black
height: 86.6mm (3.4 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)



Part # **Description**
RIC3-36-01 36- to 144-fiber (up to 576 fibers with MTP adapter plates)
Rack Mount Interconnect Center, accepts (6)
Quick-Pack adapter plates, 2U, black
height: 86.6mm (3.4 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)



RIC3-48-01 48- to 192-fiber (up to 768 fibers with MTP adapter plates)
Rack Mount Interconnect Center, accepts (8)
Quick-Pack adapter plates, 3U, black
height: 133mm (5.2 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)



RIC3-72-01 72- to 288-fiber (up to 1152 fibers with MTP adapter plates)
Rack Mount Interconnect Center, accepts (2)
Quick-Pack adapter plates, 4U, black
height: 178mm (7.0 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)

Note: 1U = 44.5mm (1.75 in.)
Note: All RIC products include laser-printable labels, cable ties, rack-mounting hardware, and pre-installed fiber management clips.*
**Visit www.siemon.com for labelling software.*

MAXIMUM RIC3 FIBER CAPACITY

# Fibers per Quick-Pack	Adapter Options	RIC24	RIC36	RIC48	RIC72
6	ST, SC	24	36	48	72
8	ST, SC	32	48	64	96
12	ST, SC, LC	48	72	96	144
16	LC	64	96	128	192
24	LC	96	144	192	288
96	MTP	384	567	768	1152

MAXIMUM SPLICING CAPACITY

Splice Type	RIC24	RIC36	RIC48	RIC72
Fusion	96	96	96	144





Quick-Pack® Adapter Plates

Siemon's patented Quick-Pack adapter plates feature an integrated latch, which provides single-finger access to fiber even in fully populated enclosures.

XGLO® & LightSystem®

RIC-F-SC6-01.
3 duplex SC adapters
(6 fibers)



RIC-F-SC8-01.
4 duplex SC adapters
(8 fibers)



RIC-F-SC12-01.
6 duplex SC adapters
(12 fibers)



RIC-F-SCQ6-01.
3 duplex SC adapters
(6 fibers), aqua adapters
(not shown)

RIC-F-SCQ8-01.
4 duplex SC adapters
(8 fibers), aqua adapters
(not shown)

RIC-F-SCQ12-01.
6 duplex SC adapters
(12 fibers), aqua adapters
(not shown)

RIC-F-SCE6-01.
3 duplex SC adapters
(6 fibers), erika violet adapters
(not shown)

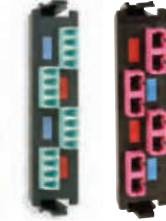
RIC-F-SCE8-01.
4 duplex SC adapters
(8 fibers), erika violet adapters
(not shown)

RIC-F-SCE12-01.
6 duplex SC adapters
(12 fibers), erika violet adapters
(not shown)

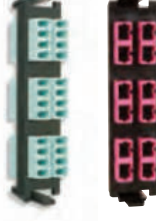
RIC-F-LC12-01C.
3 quad LC adapters
(12 fibers), beige adapters
(not shown)



RIC-F-LC16-01C.
4 quad LC adapters
(16 fibers), beige adapters
(not shown)



RIC-F-LC24-01C.
6 quad LC adapters
(24 fibers), beige adapters
(not shown)



RIC-F-LCU12-01C.
3 quad LC adapters
(12 fibers), blue adapters
(not shown)

RIC-F-LCU16-01C.
4 quad LC adapters
(16 fibers), blue adapters
(not shown)

RIC-F-LCU24-01C.
6 quad LC adapters
(24 fibers), blue adapters
(not shown)

RIC-F-LCQ12-01C.
3 quad LC adapters
(12 fibers), aqua adapters

RIC-F-LCQ16-01C.
4 quad LC adapters
(16 fibers), aqua adapters

RIC-F-LCQ24-01C.
6 quad LC adapters
(24 fibers), aqua adapters

RIC-F-LCE12-01C.
3 quad LC adapters
(12 fibers), erika violet adapters

RIC-F-LCE16-01C.
4 quad LC adapters
(16 fibers), erika violet adapters

RIC-F-LCE24-01C.
6 quad LC adapters
(24 fibers), erika violet adapters

LightSystem®

RIC-F-SA6-01.
3 duplex ST adapters
(6 fibers)



RIC-F-SA8-01.
4 duplex ST adapters
(8 fibers)



RIC-F-SA12-01.
6 duplex ST adapters
(12 fibers)
*Only recommended for
push-pull ST connectors
due to limited access*



RIC-F-BLNK-01.
Blank adapter plate



Each adapter plate with icon pockets includes red, blue, black, and clear icons with paper labels. All SC and ST adapters are "universal" to support Multimode and Singlemode.

Fiber Management Tray (FMT)

The Siemon Fiber Management Tray (FMT) is an economical solution for managing fiber cable slack and splice trays. The management tray has been designed to easily retrofit any standard 1 RMS CT® or MAX® Series Patch Panel and can organise up to 32 fibers. The tray is only 254mm deep, allowing it to readily fit into cabinet enclosures. Each enclosure can accept up to two fiber splice trays.

Part #	Description	RMS
CT-FMT-16.	Fiber tray for 1U CT or MAX Panel.	1

Note: 1U = 44.5mm





Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

**Worldwide Headquarters
North America**
Watertown, CT USA
Phone (1) 860 945 4200

**Regional Headquarters
Europe Russia Africa**
Chertsy, Surrey, England
Phone (44) 0 1932 571771

**Regional Headquarters
China**
Shanghai, P.R. China
Phone (86) 215385 0303

**Regional Headquarters
Latin America**
Bogota, Colombia
Phone (571) 657 1950/51/52

**Regional Headquarters
India Middle East**
Dubai, United Arab Emirates
Phone (971) 4 3689743

**Regional Headquarters
Asia Pacific**
Sydney, Australia
Phone (61) 2 8977 7500

**Siemon Interconnect Solutions
Watertown, CT USA**
Phone (1) 860 945 4213 US
www.siemon.com/SIS

W W W . S I E M O N . C O M





Siemon Barra de cobre de puesta a tierra para Gabinetes y Rack's de Telecomunicaciones, de 19in

Siemon VP-GRD, Oro, Verde, 1 pieza(s)

SKU: VP-GRD

Información Técnica

Marca: **Siemon**

Color del producto: **Oro, Verde**

Aspectos destacados

Siemon VP-GRD. Color del producto: Oro, Verde. Cantidad por paquete: 1 pieza(s)

Especificaciones

Características
Color del producto: Oro, Verde
Empaquetado de datos
Cantidad por paquete: 1 pieza(s)

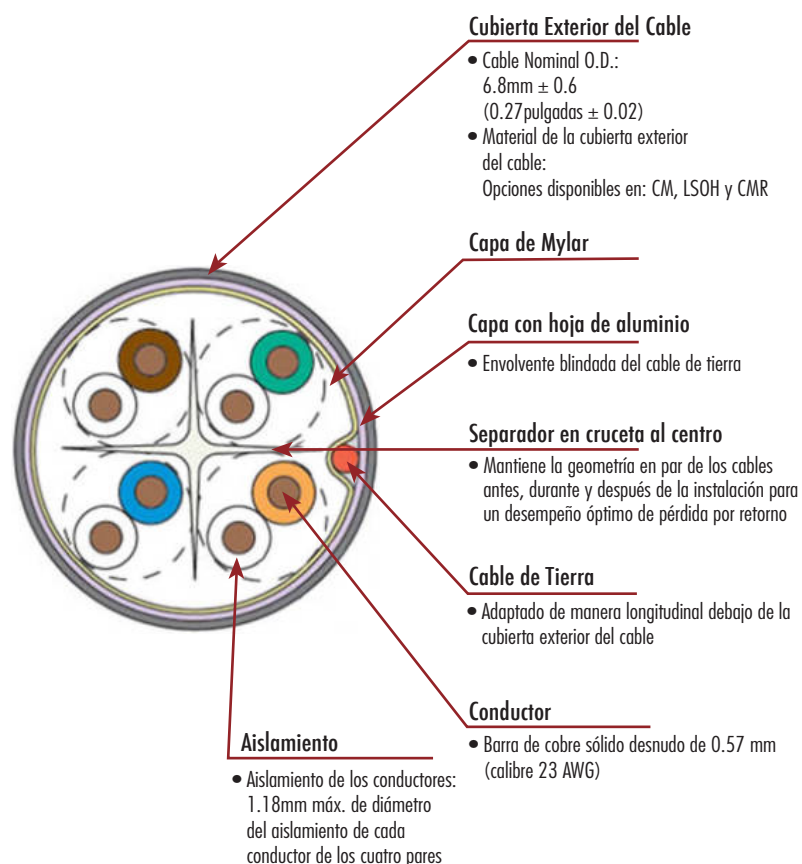
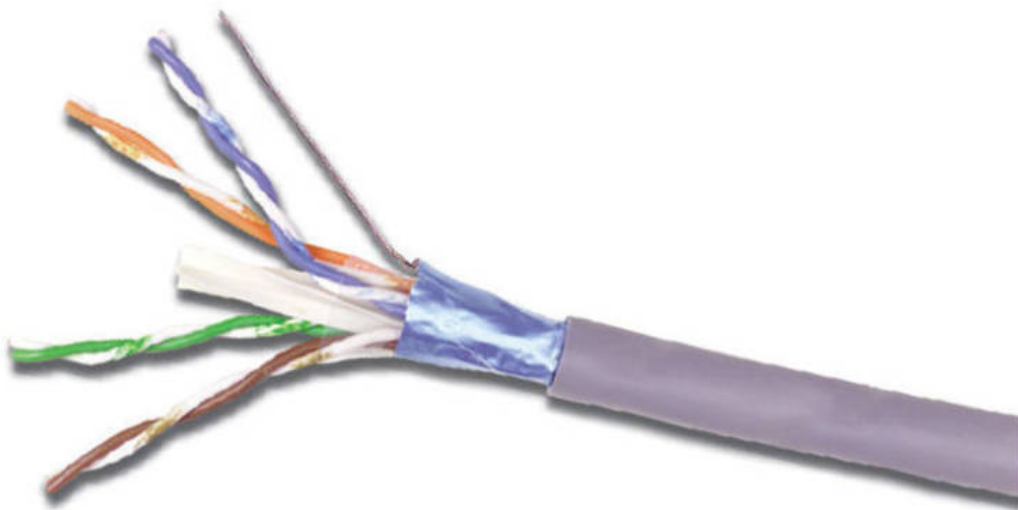
Link: <https://mcashop.mx/producto/167024/siemon-barra-de-cobre-de-puesta-a-tierra-para-gabinetes-y-racks-de-telecomunicaciones-de-19in>

CABLE F/UTP CATEGORÍA 6A

El cable F/UTP Categoría 6A de Siemon posee un rendimiento del canal superior a los requerimientos mínimos de los estándares ANSI/TIA-568-C2 e ISO/IEC 11801 Clase EA. Cuando se combina con nuestra serie de conectividad para categoría 6A blindada, el resultado es un canal con la capacidad de transferir 10GBASE-T hasta 100 metros, con topología de cuatro conectores. Además, la construcción del blindaje asegura que la diafonía externa sea virtualmente de cero. El sistema de cableado F/UTP Categoría 6A soporta aplicaciones emergentes y convergentes como voz sobre IP (VoIP), video por IP, y futuras aplicaciones de 10 gigabit.

6A

CABLE – INTERNACIONAL



CONSTRUCCIÓN

- Numeración secuencial inversa
- Cubierta redonda
- Separador de aislamiento en cruzeta al centro

EMPAQUES

- Opciones disponibles: carretes de 305, 500 o 1000 metros
- Peso: 18 kg. (40 lbs) por cada 305 metros de cable

CUMPLIMIENTO DE ESTÁNDARES

- ANSI/TIA-568-C.2
- IEC 61156-5 Ed 2.0
- ISO/IEC 11801 Ed 2.2
- UL CMR y CSA FT4
- UL CM, IEC 60332-1
- LSOH: IEC 60332-1, IEC 60754, y IEC 61034

APLICACIONES ETHERNET QUE SOPORTA

- 10GBASE-T
- 100BASE-T
- 1000BASE-T
- 10BASE-T

Soporta todas las aplicaciones diseñadas para Categoría 6 aumentada o cableado de categoría menor

WWW.SIEMON.COM



INFORMACIÓN DE PRODUCTO

ESPECIFICACIONES ELÉCTRICAS

Resistencia DC	<8.5 Ω/100m
Resistencia de desbalanceo DC	5%
Capacitancia Mutua	5.6 nF/100m
Capacitancia de desbalanceo	<330 pF/100m
Características de Impedancia (ohms)	1-100 MHz: 100 ± 15% 100-750 MHz: 100 ± 22%
NVP	67%
TCL	30-10 log(f/100) dB
Retardo de inclinación	≤45ns
PoE	Suitable for PoE & PoE +

PROPIEDADES FÍSICAS

	CM/CMR/LSOH
Tensión de tracción (máx.)	110N
Radio de Curvatura (mín.)	6 x O.D 42mm.
Temperatura de Instalación	0 to 60°C
Temperatura de Almacenaje	-20 to 75°C
Temperatura de Operación	-20 to 75°C

DESEMPEÑO DE TRANSMISIÓN

☐ GARANTIZADO EN EL PEOR CASO ☐ TÍPICO DE SIEMON

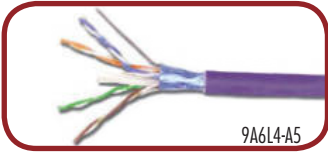
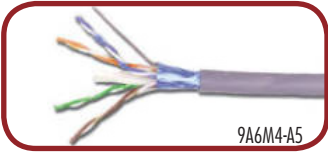
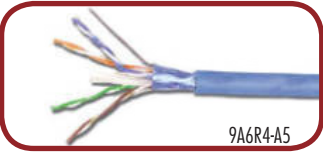
Frecuencia (MHz)	Pérdida de inserción (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Pérdida de retorno (dB)		Retraso de propagación (ns)	
1.0	2.1	1.8	75.3	86.0	73.3	82.3	73.2	84.2	71.2	80.5	73.3	91.0	71.3	85.0	20.0	33.0	570	570
4.0	3.8	3.4	66.3	77.0	64.3	73.3	62.5	73.6	60.5	69.9	61.3	79.0	59.3	73.0	23.0	35.5	552	552
10.0	5.9	5.4	60.3	71.0	58.3	67.3	54.4	65.6	52.4	61.9	53.3	71.0	51.3	65.0	25.0	38.0	545	545
16.0	7.5	6.9	57.2	68.0	55.2	64.2	49.8	61.1	47.8	57.3	49.2	67.0	47.2	61.0	25.0	35.2	543	543
20.0	8.4	7.7	55.8	67.0	53.8	62.8	47.4	59.3	45.4	55.1	47.3	65.0	45.3	59.0	25.0	35.0	542	542
31.25	10.5	9.9	52.9	64.0	50.9	59.9	42.4	54.1	40.4	50.0	43.4	61.0	41.4	55.0	23.6	33.1	540	540.4
62.5	15.0	14.3	48.4	59.0	46.4	55.4	33.4	44.7	31.4	41.1	37.4	55.0	35.4	49.0	21.5	32.2	539	538.6
100.0	19.1	18.1	45.3	56.0	43.3	52.0	26.2	37.9	24.2	33.9	33.3	51.0	31.3	45.0	20.1	31.6	538	537.6
200.0	27.6	27.3	40.8	52.0	38.8	47.8	13.2	24.7	11.2	20.5	27.3	45.0	25.3	39.0	18.0	29.8	537	536.5
250.0	31.1	31.1	39.3	50.0	37.3	46.0	8.3	18.9	6.3	14.9	25.3	43.0	23.3	37.0	17.3	29.7	536	536.3
300.0	34.3	35.0	38.1	49.0	36.1	45.0	3.9	14.0	-1.9	10.0	23.8	38.0	21.8	35.0	17.3	28.0	536	536.1
400.0	40.1	40.0	36.3	47.0	34.3	43.0	-3.8	7.0	-5.8	3.0	21.3	36.0	19.3	33.0	17.3	27.1	536	535.8
500.0	45.3	42.0	34.8	47.0	32.8	42.0	-10.4	5.0	-12.4	0.0	19.3	34.0	17.3	32.0	17.3	26.0	536	535.6
550.0*	—	43.0	—	46.0	—	42.0	—	3.0	—	-1.0	—	33.0	—	31.0	—	26.0	536	—
625.0*	—	44.9	—	46.0	—	41.0	—	1.1	—	-3.9	—	33.0	—	29.0	—	25.0	535	—
750.0*	—	49.0	—	45.0	—	41.0	—	-4.0	—	-8.0	—	32.0	—	27.0	—	25.0	535	—

* Valores por encima de 500 MHz son solo informativos

Cable F/UTP Categoría 6A de 4 pares:

- 9A6M4-A5.....PVC (CM, IEC 60332-1), Cubierta gris, Carrete en caja de 305 metros
9A6R4-A5.....PVC (CMR, CSA FT4, Riser), Cubierta Azul, Carrete en caja de 305 metros
9A6L4-A5.....LSOH (IEC 60332-1), Cubierta Violeta, Carrete en caja de 305 metros

Otras longitudes de cable disponibles: Añadir “-5CR” para Carrete de 500 metros, “-1KR” para Carrete de 1000 metros



Estamos constantemente mejorando nuestros productos, por lo que SIEMON se reserva los derechos de cambiar las especificaciones y disponibilidad sin previo aviso.

Para obtener información adicional:

Visite nuestro sitio web en www.siemon.com

América del Norte
Watertown, CT USA
Phone (1) 860 945 4200 US
Phone (1) 888 425 6165 Canada

Europa/Medio Oriente/África
Surrey, England
Phone (44) 0 1932 571771

Asia/Pacífico
Shanghai, P.R. China
Phone (86) 21 5385 0303

América Latina
Bogota, Colombia
Phone (571) 657 1950

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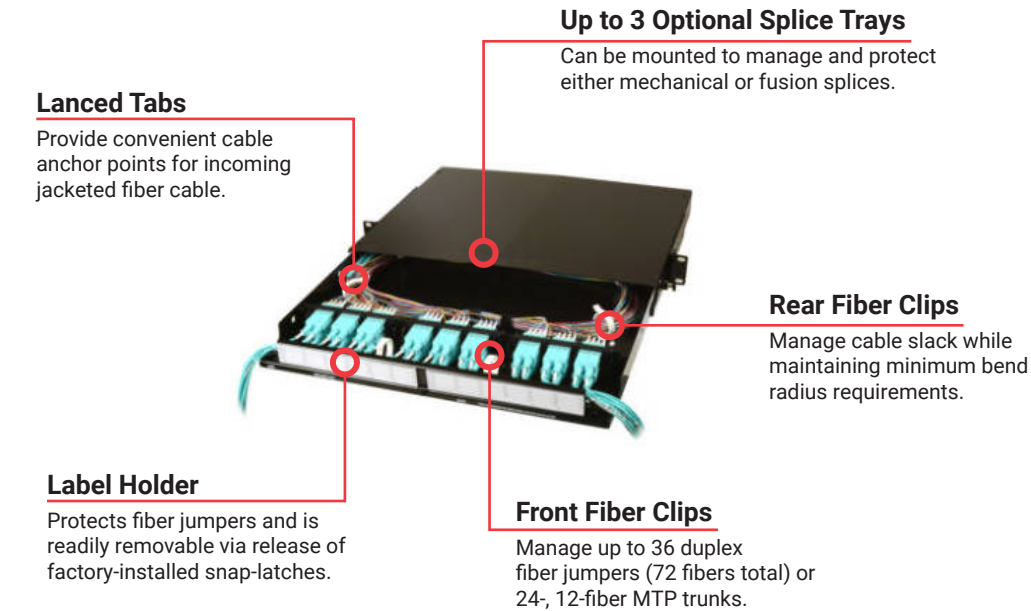
S-CAT6_FUTP_CBLE Rev. Q 4/13 (UK)

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Fiber Connect Panel (FCP3)

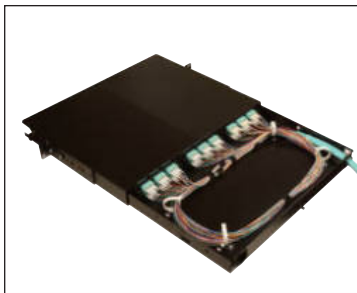
Regional Availability - International

Siemon's popular Fiber Connect Panels (FCP3-DWR and FCP3-RACK) economically connect, protect, and manage up to 72 fibers in 1U (up to 288 fibers with MTP to MTP adapters). It accepts Siemon's Quick-Pack® adapter plates with patented single-finger access. The FCP3-DWR makes access to the connections easy via a fixed tray that can be released and slid out of the front or rear of the enclosure.



High Density

FCP3 enclosures accommodate up to 72 fibers (288 with MTP adapter plates) in only 1U.



Sliding Tray

The FCP3-DWR (drawer version) features a tray that slides out from the front or rear, providing easy access to fiber connections. The entire tray can be removed and placed on a work table for more convenience.

Product Information

Maximum FCP3 Fiber Capacity

# Fibers per Quick-Pack	Adapter Options	FCP3
6	ST, SC	18
8	ST, SC	24
12	ST, SC, LC	36
16	LC	48
24	LC	72
96	MTP	288

Maximum Splicing Capacity

Splice Type	FCP3
Fusion	72

Ordering Information

Fiber Connect Panel (FCP3)

Part #	Description
FCP3-DWR	6- to 72-fiber (up to 288 fibers with MTP adapter plates) Fiber Connect Panel with sliding tray, accepts (3) Quick-Pack® adapter plates, 1U, black. Includes mounting brackets, housing/tray, fiber managers, grommets, label holders, and labels Height: 43.2mm (1.7 in.) Width: 482.6mm (19.0 in.) Depth: 355.6mm (14.0 in.)
FCP3-RACK	6- to 72-fiber (up to 288 fibers with MTP adapter plates) Fiber Connect Panel with fixed tray, accepts (3) Quick-Pack adapter plates, 1U, black. Includes mounting brackets, housing/cover, fiber managers and grommet Height: 43.2mm (1.7 in.) Width: 482.6mm (19.0 in.) Depth: 241.3mm (9.5 in.) Note: 1U = 44.5 mm (1.75 in.)

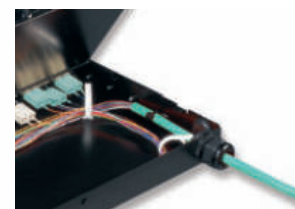


Compression Fittings

Compression fittings are utilized as an enhanced method for securing cables to FCP3 fiber enclosures. Acme threads on the body prevent skipping, allowing for faster installations of lock-nuts.

Part #	Description
CF-(XX)	Compression fitting

Use (XX) to specify fiber diameter:
40 = 5.8 - 13.9mm (0.22 in. - 0.5 in.)
51 = 11.4 - 18.0mm (0.44 - 0.7 in.)
60 = 15.0 - 25.4mm (0.59 - 1.0 in.)



Ordering Information

Splice Trays (XGLO® and LightSystem®)

These aluminum trays come with a clear, snap-on polycarbonate cover and can be stacked for highdensity applications. The standard tray holds up to 24 splices. The mini-tray for use with the SWIC3, accommodates up to 12 splices.

Part #	Description
TRAY-3	Standard splice tray for up to 24 fusion splices with sleeve protection. For use with RIC3 and FCP3 fiber enclosures
TRAY-M-3	Mini splice tray for up to 12 fusion splices with sleeve protection



TRAY-3

Standard Tray Dimensions
Height: 103mm (4.0 in.)
Width: 298mm (11.7 in.)
Depth: 8.13mm (0.32 in.)



TRAY-M-3

Mini Tray Dimensions
Height: 103mm (4.0 in.)
Width: 179mm (7.04 in.)
Depth: 8.13mm (0.32 in.)

Heat Shrink Sleeves

Heat shrink sleeves provide a safe and efficient method for protecting fusion splices on either 250 or 900 micron coated fibers. Heat shrink sleeves are threaded on to fibers prior to fusion splicing and then positioned directly over splice and heated via an oven or heat gun.*

Part #	Description
HT-40	40mm (1.57 in.) Heat shrink sleeve
HT-60	60mm (2.36 in.) Heat shrink sleeve



*Heating times may vary depending on heat source.

Ordering Information

Quick-Pack® Adapter Plates

Siemon's patented Quick-Pack adapter plates feature an integrated latch, which provides single-finger access to fiber even in fully populated enclosures.

XGLO® & LightSystem®

Part Number	Description
RIC-F-SC6-01	3 duplex SC adapters (6 fibers)
RIC-F-SCQ6-01	3 duplex SC adapters (6 fibers), aqua adapters (not shown)
RIC-F-SCE6-01	3 duplex SC adapters (6 fibers), erika violet adapters (not shown)



Part Number	Description
RIC-F-SC8-01	4 duplex SC adapters (8 fibers)
RIC-F-SCQ8-01	4 duplex SC adapters (8 fibers), aqua adapters (not shown)
RIC-F-SCE8-01	4 duplex SC adapters (8 fibers), erika violet adapters (not shown)



Part Number	Description
RIC-F-SC12-01	6 duplex SC adapters (12 fibers)
RIC-F-SCQ12-01	6 duplex SC adapters (12 fibers), aqua adapters (not shown)
RIC-F-SCE12-01	6 duplex SC adapters (12 fibers), erika violet adapters (not shown)



Part Number	Description
RIC-F-L(X)12-01C	3 quad LC adapters (12 fibers), beige adapters (not shown)
RIC-F-L(X)U12-01C	3 quad LC adapters (12 fibers), blue adapters (not shown)
RIC-F-L(X)Q12-01C	3 quad LC adapters (12 fibers), aqua adapters
RIC-F-L(X)E12-01C	3 quad LC adapters (12 fibers), erika violet adapters



Part Number	Description
RIC-F-L(X)16-01C	4 quad LC adapters (16 fibers), beige adapters (not shown)
RIC-F-L(X)U16-01C	4 quad LC adapters (16 fibers), blue adapters (not shown)
RIC-F-L(X)Q16-01C	4 quad LC adapters (16 fibers), aqua adapters
RIC-F-L(X)E16-01C	4 quad LC adapters (16 fibers), erika violet adapters



Ordering Information

Part Number	Description
RIC-F-L(X)24-01C	6 quad LC adapters (24 fibers), beige adapters (not shown)
RIC-F-L(X)U24-01C	6 quad LC adapters (24 fibers), blue adapters (not shown)
RIC-F-L(X)Q24-01C	6 quad LC adapters (24 fibers), aqua adapters
RIC-F-L(X)E24-01C	6 quad LC adapters (24 fibers), erika violet adapters



(X) = C:Standard LC Adapter S:Shuttered LC Adapter

Optional Shuttered LC adapters feature a small plastic shutter door that opens upon insertion without touching the connector endface and springs back into the closed position upon removal to ensure protection of empty ports.



LightSystem®

Part Number	Description
RIC-F-SA6-01	3 duplex ST adapters (6 fibers)



Part Number	Description
RIC-F-SA8-01	4 duplex ST adapters (8 fibers)



Part Number	Description
RIC-F-SA12-01	6 duplex ST adapters (12 fibers)



Part Number	Description
RIC-F-BLNK-01	Blank adapter plate



Only recommended for push-pull ST connectors due to limited access

Each adapter plate with icon pockets includes red, blue, black, and clear icons with paper labels. All SC and ST adapters are "universal" to support Multimode and Singlemode.

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

North America P: (1) 860 945 4200	Asia Pacific P: (61) 2 8977 7500	Latin America P: (571) 657 1950/51/52	Europe P: (44) 0 1932 571771	China P: (86) 215385 0303	India, Middle East & Africa P: (971) 4 3689743
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Siemon Interconnect Solutions
P: (1) 860 945 4213
www.siemon.com/SIS

TERA®-MAX® Patch Panels

TERA-MAX 19 inch patch panels provide outstanding performance and reliability in a shielded, high-density modular solution. As outlets are snapped into place, resilient ground tabs assure that each outlet is properly grounded. No secondary outlet grounding operations are required, reducing overall installation time.

Angled TERA-MAX

Allows direct routing of cables to vertical managers, eliminating the need for horizontal cable managers



Standard Fit

Panels can be mounted directly on standard 19 inch relay rack or cabinet

Port Identification

Bold port numbering enables quick identification of outlets

Durable

High strength steel with black or metallic finish

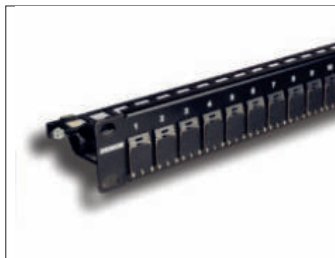


Installation Friendly

Individual modules snap into place, providing integrated grounding without additional steps



Integral rear cable manager facilitates the orderly routing of horizontal cables as well as maintaining proper bend radius for optimum performance.



Use TERA outlets in TERA-MAX patch panel for telecommunications room applications.



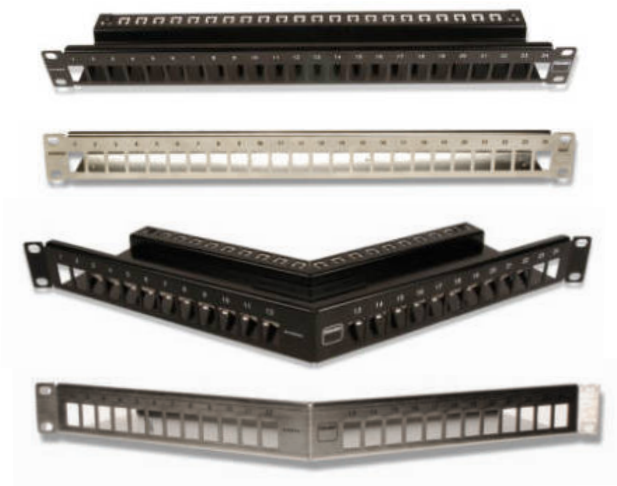
Panels feature integrated grounding via resilient ground tabs engaged during module insertion.

Product Information

TERA®-MAX® Patch Panels

Part Number	Description
TM-PNLZ-24-01	24-Port flat TERA-MAX panel, 1U, black
TM-PNLZ-24	24-Port flat TERA-MAX panel, 1U, metallic
TM-PNLZA-24-01	24-Port angled TERA-MAX panel, 1U, black
TM-PNLZA-24	24-Port angled TERA-MAX panel, 1U, metallic
PNLA-CVR-01	Angled panel cover, black

Panels include designation labels, cable ties and mounting hardware.
Note: 1U = 44.5mm (1.75 in.)



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North America P: (1) 860 945 4200	Asia Pacific P: (61) 2 8977 7500	Latin America P: (571) 657 1950/51/52	Europe P: (44) 0 1932 571771	China P: (86) 215385 0303	India Middle East P: (971) 4 3689743
Siemon Interconnect Solutions P: (1) 860 945 4213 www.siemon.com/SIS					

XGLO® Jumper & Pigtails

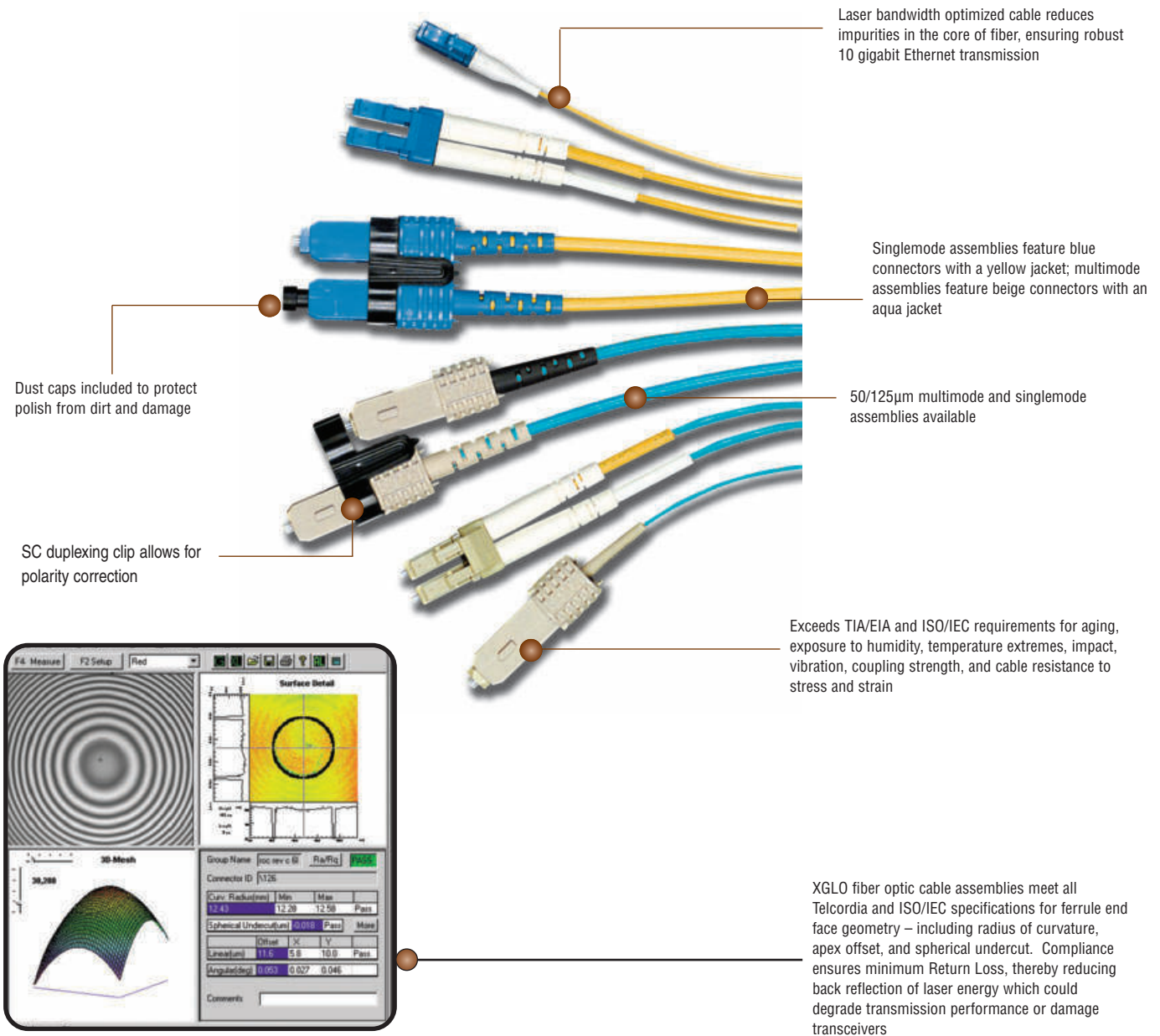
XGLO fiber optic cable assemblies are ideal for supporting 10 Gigabit fiber applications over extended distances and next-generation backbones. XGLO cable assemblies feature premium fiber that meets IEEE 802.3 10 Gigabit Ethernet Standard as well as IEC-60793-2-10 and TIA-492AAAC (OM3), TIA-492AAAD (OM4) specifications for laser bandwidth Differential Mode Delay (DMD) specifications. In addition, these assemblies offer a superior connector polish that meets stringent Telcordia and ISO/IEC specifications for end-face geometry and exceeds all ANSI/TIA and ISO/IEC insertion loss and return loss requirements.

These precision cable assemblies are warranted for 20 years and ensure optimum applications support for 10 Gigabit Ethernet serial transmission when installed in a qualified XGLO system. 100% inspection ensures superior performance and quality.

**Supports
10 Gigabit
Ethernet**



RoHS Compliant



Product Information

PERFORMANCE SPECIFICATIONS

	50/125µm Multimode (OM3)			50/125µm Multimode (OM4)			Singlemode (OS2)
Wavelength (nm)	850	1300	850*	850	1300	850*	1310/1550nm
Min. Cable Bandwidth (MHz.km)	1500 (OFL)	500 (OFL)	2000 (EMB)	3500 (OFL)	500 (OFL)	4700 (EMB)	N/A
Max. Insertion Loss (dB)	0.25 (0.10 Typical)			0.25 (0.10 Typical)			0.40 (0.10 Typical)
Min. Return Loss (dB)	30 (35 Typical)			30 (35 Typical)			55 (60 Typical)

*Laser Bandwidth

Ordering Information

OFNR

XGLO 300 50/125µm Multimode OM3 Duplex Jumpers:

FJ2-SCSC5L-(XX)AQSC to SC aqua duplex jumper
 FJ2-LCLC5L-(XX)AQLC to LC aqua duplex jumper
 FJ2-LCSC5L-(XX)AQLC to SC aqua duplex jumper
 FJ2-SASA5L-(XX)AQST to ST aqua duplex jumper
 FJ2-SASC5L-(XX)AQST to SC aqua duplex jumper
 FJ2-LCSA5L-(XX)AQLC to ST aqua duplex jumper

Simplex Pigtails - 900 micron buffered

FP1B-SC5L-(XX)AQSC simplex pigtail, aqua
 FP1B-LC5L-(XX)AQLC simplex pigtail, aqua
 FP1B-SA5L-(XX)AQST simplex pigtail, aqua

XGLO 550 50/125µm Multimode, OM4 Duplex Jumpers:

FJ2-SCSC5V-(XX)AQSC to SC aqua duplex jumper
 FJ2-LCLC5V-(XX)AQLC to LC aqua duplex jumper
 FJ2-LCSC5V-(XX)AQLC-SC aqua duplex jumper

Simplex Pigtails - 900 micron buffered

FP1B-SC5V-(XX)AQSC simplex pigtail, aqua
 FP1B-LC5V-(XX)AQLC simplex pigtail, aqua

XGLO Singlemode OS2 (UPC) Duplex Jumpers:

FJ2-SCUSCUL-(XX)SC to SC yellow duplex jumper
 FJ2-LCULCUL-(XX)LC to LC yellow duplex jumper
 FJ2-LCUSCUL-(XX)LC to SC yellow duplex jumper
 FJ2-SAUSAUL-(XX)ST to ST yellow duplex jumper
 FJ2-LCUSAUL-(XX)LC to ST yellow duplex jumper
 FJ2-SAUSCUL-(XX)ST to SC yellow duplex jumper

Simplex Pigtails - 900 micron buffered

FP1B-SCUL-(XX)SC simplex pigtail, yellow
 FP1B-LCUL-(XX)LC simplex pigtail, yellow
 FP1B-SAUL-(XX)ST simplex pigtail, yellow

Use (XX) to specify length:

O1=1m (3.3 ft.), O2 = 2m, O3 = 3m (9.8 ft.)

O5 = 5m (16.4 ft.)

Bulk Pack Option:

SC and LC interface only.

Available in lengths 5 meters or less.

Multimode OM3, OM4 and Singlemode OS2 only.

Remove dashes "-" and add "B" to the end of the part number for bulk pack of 100 jumpers (10 per bag)

LSOH (IEC 60332-3C)

XGLO 300 50/125µm Multimode OM3 Duplex Jumpers:

FJ2-SCSC5L-(XX)AHSC to SC aqua duplex jumper
 FJ2-LCLC5L-(XX)AHLC to LC aqua duplex jumper
 FJ2-LCSC5L-(XX)AHLC to SC aqua duplex jumper
 FJ2-SASA5L-(XX)AHST to ST aqua duplex jumper
 FJ2-SASC5L-(XX)AHST to SC aqua duplex jumper
 FJ2-LCSA5L-(XX)AHLC to ST aqua duplex jumper

Simplex Pigtails - 900 micron buffered

FP1B-SC5L-(XX)AHSC simplex pigtail, aqua
 FP1B-LC5L-(XX)AHLC simplex pigtail, aqua
 FP1B-SA5L-(XX)AHST simplex pigtail, aqua

XGLO 550 50/125µm Multimode, OM4 Duplex Jumpers:

FJ2-SCSC5V-(XX)AHSC to SC aqua duplex jumper
 FJ2-LCLC5V-(XX)AHLC to LC aqua duplex jumper
 FJ2-LCSC5V-(XX)AHLC-SC aqua duplex jumper

Simplex Pigtails: 900 micron buffered

FP1B-SC5V-(XX)AHSC simplex pigtail, aqua
 FP1B-LC5V-(XX)AHLC simplex pigtail, aqua

XGLO Singlemode OS2 (UPC) Duplex Jumpers:

FJ2-SCUSCUL-(XX)HSC to SC yellow duplex jumper
 FJ2-LCULCUL-(XX)HLC to LC yellow duplex jumper
 FJ2-LCUSCUL-(XX)HLC to SC yellow duplex jumper
 FJ2-SAUSAUL-(XX)HST to ST yellow duplex jumper
 FJ2-LCUSAUL-(XX)HLC to ST yellow duplex jumper
 FJ2-SAUSCUL-(XX)HST to SC yellow duplex jumper

Simplex Pigtails - 900 micron buffered

FP1B-SCUL-(XX)HSC simplex pigtail, yellow
 FP1B-LCUL-(XX)HLC simplex pigtail, yellow
 FP1B-SAUL-(XX)HST simplex pigtail, yellow

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

XGLO™ is a trademark of Siemon

The Americas

Watertown, CT USA

Phone (1) 860 945 4200 US

Phone (1) 888 425 6165 Canada

Europe/Middle East/Africa

Chertsey, England

Phone (44) 0 1932 571771

Asia/Pacific

Shanghai, P.R. China

Phone (86) 21 6390 6778

Central & South America

Bogota, Columbia

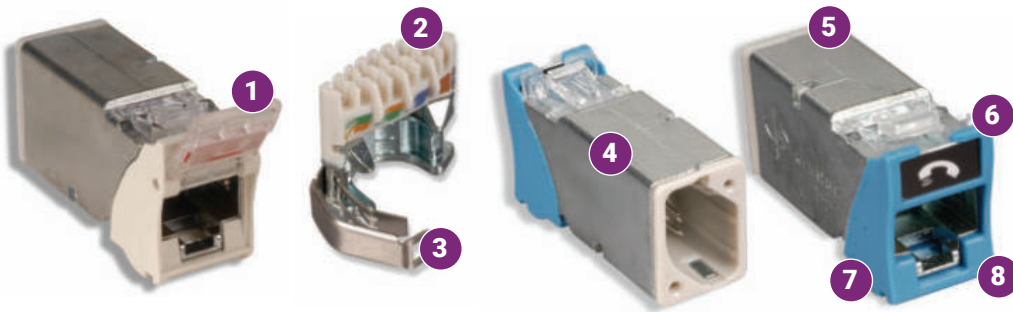
Phone (571) 317 2121

Z-MAX® Copper Connectivity System

6A Shielded Outlets | Regional Availability – Global



The shielded Z-MAX outlet offers best-in-class performance in every critical specification, exceeding all Category 6A performance requirements, including alien crosstalk. Its innovative features not only speed and simplify termination, but remove installation variability for consistently high and repeatable performance – every termination, every time!



1. Spring Door Option

Minimizes exposure to dust and other contaminants.

2. Guided Termination Features

Linear lacing channels guide correct conductor placement while 2-sided color-coding provides wiring verification before and after lacing.

3. Robust Hinged Cable Retention

Clip accommodates multiple cable diameters.

4. Fastest Termination Time

Zero-Cross™ termination module and Z-TOOL™ termination process combine for best-in-class termination time.

5. Compact

Slim and side-stackable for high-density applications. Supports “pass-thru” feature to mount from the front or rear of a faceplate.

6. High-Visibility Icon System

Printed icons allow designation for voice/data applications and also provide an additional color coding option.

7. Color Coding Capability

Bezel allows outlets to be color-coded for customer identification to match faceplates and other mounting accessories.

8. Compliant

Is compliant with UL2043 and is appropriate for use in air handling spaces.



Z-MAX Shielded
Hybrid – No Door Outlet



Z-MAX Shielded
Keystone Outlet

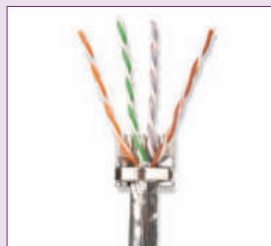


Z-MAX Shielded
Panel Outlet



Flexibility and Simplified Ordering

A single hybrid outlet supports both angled and flat mounting orientations.



Enhanced Shielding Effectiveness

High level of shielded effectiveness exceeds ISO 360 degree shielding requirements via die cast housing and hinged cable retention/grounding clip.



100% Jack-to-Jack Plastic Isolation

Plastic bezels prevent contact between metal housings when side stacking to ensure ground quality and ANEXT performance.



Quick-Ground™ Termination

Cable shield is automatically terminated to the outlet without additional steps.

ELECTRICAL SPECIFICATIONS

CONTACT RESISTANCE	20 mΩ
INPUT TO OUTPUT RESISTANCE	200 mΩ
MIN. DIELECTRIC WITHSTAND VOLTAGE (CONTACT TO CONTACT)	1000 V DC or AC peak
MIN. DIELECTRIC WITHSTAND VOLTAGE	1500 V DC or AC peak
INSULATION RESISTANCE	500 MΩ
COMPATIBILITY	Backwards to Cat. 5e and Cat. 6
CURRENT RATING	1.5 A
PoE	Suitable for PoE Type 1, 2, 3, 4 and PoH

MECHANICAL – GENERAL

OPERATING TEMPERATURE	-10 to 60 °C (14 to 140 °F)
FLAMMABILITY RATING	UL 94 V-0
ECO-FRIENDLY FEATURES	RoHS, Lead-free, Halogen-free, PVC-free, Eco-friendly packaging (bulk packaging only)
HOUSING MATERIAL	Zinc die-cast
CONTACT MATERIALS	Copper alloy, plated with 1.27 microns (50 micro inches) minimum thick gold or equivalent at contact interface
PLASTIC MATERIALS	Flame retardant thermoplastic
DIMENSIONS (L X W X H)	41.2 x 14.5 x 21.1mm (1.6 x .570 x .832 in.)
SHIELD	360° enclosure

MECHANICAL – TERMINATION

WIRE SIZE RANGE (NOMINAL)	22-26 AWG solid and stranded
WIRE INSULATION DIAMETER RANGE (MAX)	1.48mm (0.058 in.)
CONDUCTOR OD SIZE (MAX)	0.60mm (0.023 in.)
CABLE OD (MAX)	9mm (0.354 in.)
RE-TERMINATIONS	5
WIRING	T568A/B

MECHANICAL – JACK

NUMBER OF PLUG INSERTION CYCLES	2500
MINIMUM PLUG RETENTION FORCE	50N (11.24 lbf)
PLUG COMPATIBILITY	Compatible with RJ145 (8-position) or RJ11 (6-position) plugs

COMPLIANCE

ANSI/TIA-568.2-D
ISO/IEC 11801-1 Ed 1.0
ETL Tested
IEEE 802.3an
IEEE 802.3af (Type 1)
IEEE 802.3at (Type 2)
IEEE 802.3bt (Type 3 and Type 4)
Power over HDBaseT (PoH)
ANSI/TIA 1096-A
IEC 60603-7-51
IEC 60512-99-002 (3rd party verified)



SIEMON
SUSTAINABILITY
PLEDGE



Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (PoH).

Ordering Information

Z-MAX® 6A Shielded Outlet, T568A/B

Z6A - S (X) (XX) (X) (X)

MOUNTING STYLE	BEZEL COLOR	DOOR OPTION	PACKAGE TYPE
(Blank) = Hybrid Flat/Angled K = Keystone* P = Panel**	(Blank) = No Color (Panel Only) 01 = Black 02 = White 03 = Red 04 = Gray 05 = Yellow 06 = Blue 07 = Green 09 = Orange 20 = Ivory 80 = Light Ivory	(Blank) = No Door D = Door (Hybrid Only)	(Blank) = Single Standard Pack A = 24-Count Bulk Pack*** B = 100-Count Bulk Pack***

*Keystone version is designed for integration with various third-party mounting products and is not compatible with standard Siemon MAX mounting products.

Keystone versions are also not compatible with icons and do not have door options.

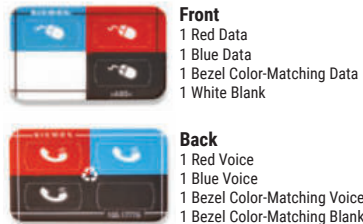
**Z-MAX 6A Shielded Panel Outlets are designed for use Z-MAX 6A Shielded panels only.

***Eco-friendly hybrid, keystone and panel outlet bulk packs sold with MoQ of 24 and 100 and order increment of 24 and 100 outlets.

Outlet terminates S/FTP, F/FTP, U/FTP and F/UTP cable constructions with 22 – 26 AWG (0.64 – 0.51mm) solid and 26 AWG (0.48mm) stranded conductors, with up to 0.60mm diameter conductors and up to 1.48mm diameter over insulation.

Z-MAX outlet termination tool Z-TOOL is included in each standard pack of 50 outlets and bulk pack of 24 and 100 outlets.

Each Z-MAX 6A hybrid outlet includes 1 printed icon set with the following color/print options.



24-Count Bulk Pack shown for reference.



For information on our eco-friendly packaging, see the QR Code on page 2.



SCAN TO DOWNLOAD
SPEC SHEET

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

North America
P: (1) 860 945 4200

Mexico
P: (521) 556 387 7708/09/10

Latin America
P: (571) 657 1950/51/52

Europe
P: (44) 0 1932 571771

Asia Pacific
P: (61) 2 8977 7500

Siemon OEM Technologies
P: (1) 860 945 4213
www.siemon.com/OEM

China
P: (86) 215385 0303

India, Middle East & Africa
P: (971) 4 3689743

Z-MAX® 6A UTP Modular Cords

- International

Combining the unparalleled performance of an exclusive PCB-based smart plug, alien crosstalk resistant construction and a host of innovative end-user features, Z-MAX 6A UTP modular cords set the bar for Category 6A UTP patching. Modular cords are often overlooked key components to ensure optimum channel performance. Siemon's Z-MAX category 6A UTP cords are 100% factory tested and feature a variety of product enhancements that contribute to the cord's superior electrical and mechanical performance. These cords guarantee reliable long-term category 6A application assurance throughout the life of the warranty. The cable used to manufacture these cords exceeds the specifications set forth by both ANSI/TIA-568.2-D and ISO/IEC 11801-1Ed 1.0.



Siemon's **PowerGUARD** technology with a 75°C operating temperature improves heat dissipation for reduced length derating and bundling requirements in remote powering applications, including PoE and power over HDBaseT (PoH).

High Performance Cable

Z-MAX 6A UTP cords feature a shield barrier construction for excellent alien crosstalk performance and heat dissipation

Jacket

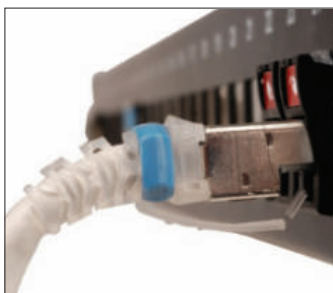
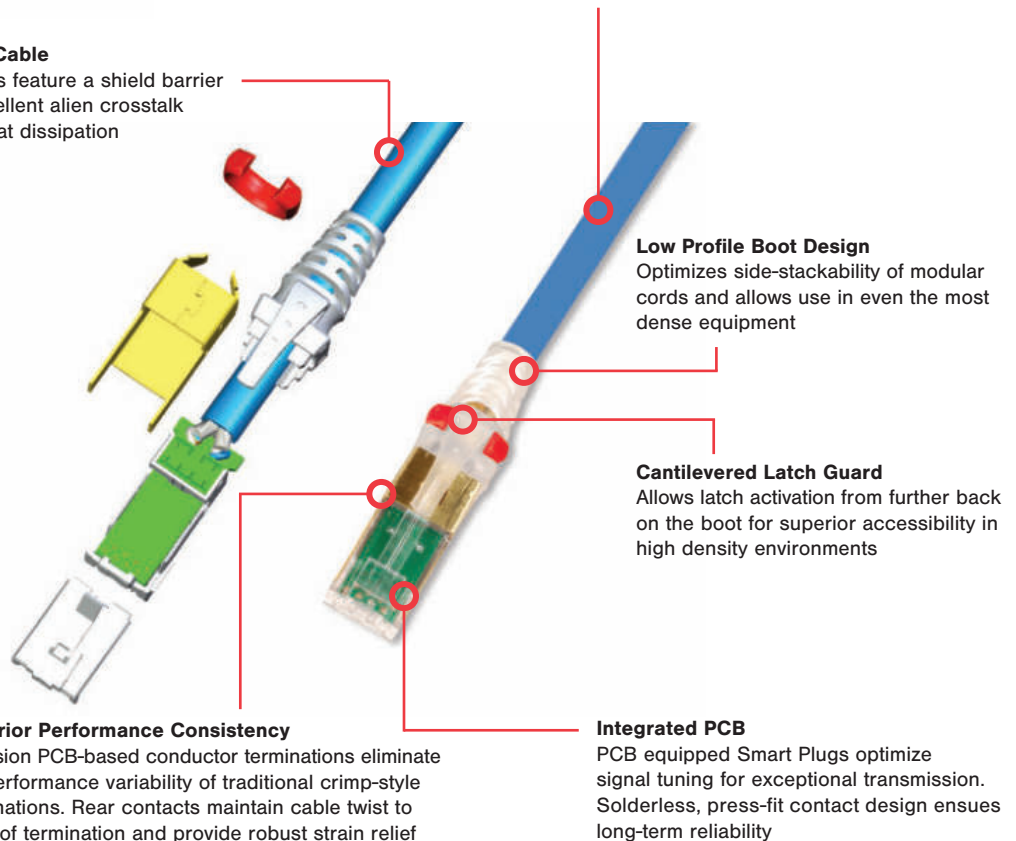
Stranded cords meet flame resistance requirements for both CM and LSOH. Solid cords meet LSOH as specified by part number.

STANDARDS COMPLIANCE

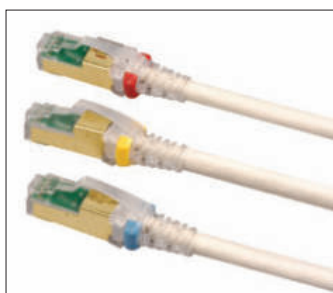
- TIA-568.2-D
- TIA-968-B
- TIA-1096-A
- ISO/IEC 11801-1
- IEC 60603-7
- CM: cUL US Listed
- LSOH: IEC 60332-3-22, IEC 60332-1, 60754, 61034

APPLICATIONS SUPPORT

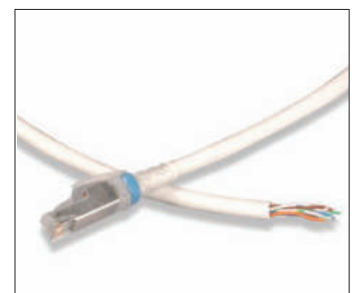
- 10GBASE-T
- 1000BASE-T
- 100BASE-T
- 10BASE-T
- HDBASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)
- Power Over HDBaseT (PoH)



Cords are 100% transmission tested to ensure compliance with applicable standards requirements.



Removable clips allow field color coding even when cords are connected.



Solid single and double ended assemblies are available for consolidation point and equipment cord applications.

Product Information

PERFORMANCE SPECIFICATIONS*

ELECTRICAL

Contact Resistance	10 mΩ
Input to Output Resistance	200 mΩ
Min. Dielectric Withstand Voltage (contact to contact)	1000 V DC or AC peak
Insulation Resistance	500 mΩ
Compatibility	Category 6A, 6 and 5e
Current Rating @ 25° C	1.5 A
Power over Ethernet	PoE (Type 1,2,3,4) PoH

MECHANICAL - GENERAL

Operating Temperature	-20 to 75° C, (-4 to 167° F)
Flammability Rating	UL 94 V-0
Green Features	RoHS, lead-free, halogen-free, PVC free
Plug Housing Materials	Polycarbonate
Contact Materials	50 microinches gold plating or equivalent
Plastic Materials	Flame retardant themoplastic
Marking	P/N, length, performance level

MECHANICAL - PLUG

Number of Plug Insertion Cycles	2500
Min. Plug Retention Force	50N (11.2 lbf)
Plug Compatibility	Compatible with RJ45 outlets
Cable to Plug Tensile Strength (min.)	20 lbs.

MECHANICAL - CABLE (STRANDED)

Wire Size Range (Nominal)	26 AWG 7x34 Stranded bare copper
Cable OD (Nominal)	6.3mm (0.25 in.)
Wiring	T568A/B
Jacket type	CM/LS0H
Bend Radius	25mm (1.0 in.)

MECHANICAL - CABLE (SOLID)

Wire Size Range (Nominal)	23 AWG Solid bare copper
Cable Construction	UTP
Cable OD (Nominal)	7.7mm (0.31 in.)
Wiring	T568A/B
Jacket type	LS0H
Bend Radius	30mm (1.18 in.)

Ordering Information

ZM6A-(XX)M-(XX) ----- Z-MAX 6A UTP, double-ended, stranded modular cord, clear boot, T568A/B, CM/LS0H

Length

01 = 1m (3.3 ft.)
1.5 = 1.5m (5 ft.)
02 = 2m (6.6 ft.)
03 = 3m (9.8 ft.)
04 = 4m (13.1 ft.)
05 = 5m (16.5 ft.)
7.5 = 7.5m (24.6 ft.)

Jacket Colour

01 = Black 05 = Yellow
02 = White 06 = Blue
03 = Red 07 = Green
04 = Grey 09 = Orange

Add "B" to end of part number for bulk project pack of 100 cords.

CLIP-(XX) ----- Colour coding clip, bag of 25

Clip Colour

01 = Black 04 = Grey 07 = Green
02 = White 05 = Yellow 08 = Violet
03 = Red 06 = Blue 09 = Orange



ZC6A-(XX)M(X)-L(X)----- Z-MAX 6A UTP, solid modular cord, violet jacket, clear boot, LS0H

Length

03 = 3m (10 ft.)
05 = 5m (16.4 ft.)
10 = 10m (33 ft.)
15 = 15m (49 ft.)
20 = 20m (65.6 ft.)

Plugs

(Blank) = Single-Ended
D = Double-ended (T568A/B)

Wiring

A = T568B
T = T568A

Cable assembly constructed with EU CPR rated cable - E_{ca}



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Latin America

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Europe

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China

P: (86) 215385 0303

India Middle East

P: (971) 4 3689743

Siemon Interconnect Solutions

P: (1) 860 945 4213
www.siemon.com/SIS

Z-PLUG™ Field-Terminated Plug

Siemon's patent-pending Z-PLUG offers quick, reliable high-performance plug terminations in the field for custom-length direct connections to wireless access points, security cameras, LED lights, distributed antenna systems (DAS), building automation devices and any other IP-based and PoE-enabled devices deployed in today's converged networks. The Z-PLUG exceeds all Category 6A performance requirements, and it can be terminated to shielded, unshielded, solid and stranded cables for maximum flexibility. The plug is compliant with UL 2043 for use in plenum air handling spaces, and can be terminated without the boot for connecting to devices with limited depth, such as cameras and access points.



Siemon's patented **PowerGUARD** technology prevents plug and jack contact erosion due to arcing at the mated location when the plug is unmated under PoE load conditions.

Enhanced Performance

Supports 10G system transmission performance for today's high-speed applications like IEEE 802.11ac Wi-Fi



Dual Purpose Latch Protector Clip

Protects latch during pulling and routing and available in nine different colors for easy color coding and identification of various applications and devices

COMPLIANCE

- ANSI/TIA-568.2-D
- ISO/IEC11801-1 Ed 1.0
- IEC-61156
- IEC 60603-7
- IEC 60512-99-002 (3rd party verified)
- UL 2043 & UL 1863

APPLICATIONS SUPPORT

- 10BASE-T to 10GBASE-T
- HDBASE-T
- IEEE 802.3af (Type 1 PoE)
- IEEE 802.3at (Type 2 PoE)
- IEEE 802.3bt (Type 3 PoE)
- IEEE 802.3bt (Type 4 PoE)

Robust Diecast Housing with Rounded Edges

Highly durable for reliability and enhanced support of high frequency data rates with rounded edges that optimize fit into congested mating areas

Guided Termination

Intuitive lacing module features color-coded guide for correct conductor placement

Hinged Cable Retention

Eliminates need to feed cable and conductors through opening and can be closed manually or with tool to accommodate multiple cable diameters (22-26 AWG). Also features dual grounding clips for shielded cables.



The Z-PLUG termination process with user-friendly tool offers best-in-class termination time and repeatable performance.



Can be terminated to shielded and unshielded stranded and solid cable types for superior flexibility.

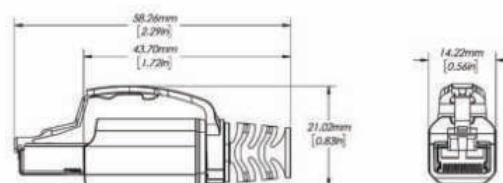


The rear boot and latch protector can be eliminated or shortened for plugs that need to connect to devices with limited space. If you need support making confined space connections, please contact Siemon Technical Service for assistance.

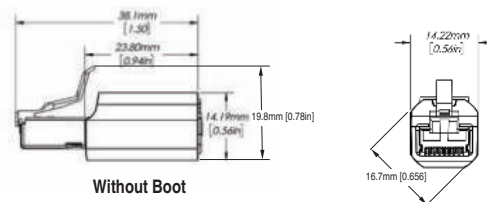
Product Information

ELECTRICAL SPECIFICATIONS

Number of Plug Insertion Cycles	2500
Number of Plug Reterminations	3
Wire Sizes Supported	22 to 26 AWG Solid and Stranded
Max. Cable OD	9.5mm (0.37 in.)
Min. Plug Retention Force	50N (11.24 lbf)
Min. Mating/Unmating Force	20N (4.5 lbf)
Min. Cable Retention Force	22/23 AWG 100N (22.48 lbf), 26AWG 50N (11.24 lbf)
Mated Contact Resistance	20mΩ
Input to Output DC Resistance	200mΩ (signal conductors), 100mΩ (shield)
Min. Dielectric Withstand Voltage	1000 VAC contact to contact, 1500 VDC contact to shield
Current Rating @25° C (77° F)	1.5 A
Flammability Rating	Plug body: UL94-V0, Plug boot: UL-HB
Contact Material	Copper alloy with contact plating of 50 microinches gold or equivalent
Housing Material	Zinc Diecast, Nickel Plating
Green Features	RoHS, lead free, halogen free, PVC free
Operating temperature	-40°C to 75°C (-40°F to 167°F)
Storage temperature	-40°C to 75°C (-40°F to 167°F)
Ingress Protection	IP20
Shielding	Fully Shielded, 360-degree enclosure
Dimensions (L x W x H)	With Boot: 58.2mm x 14.22mm x 21.02mm (2.3 in.x 0.5 in. x 0.83 in.) Without Boot: 38.10mm x 14.2mm x 19.8mm (1.5 in. x 0.56 in. x 0.78 in.)



With Boot



Without Boot



ZP-CAP

Z-TOOL-ZP



ZP-CLIP-XX



ZPG-ME00

The Z-PLUG Gland is intended for use with outdoor rated end devices. Contact Siemon for additional thread types.

Ordering Information

Part Number Description

ZP1-6AS-01(X) Z-PLUG Category 6A Field-Terminated Plug and Boot with Black Latch Protector Clip

ZP1-6AS-00(X) Z-PLUG Category 6A Field-Terminated Plug and Boot without Latch Protector Clip

Use (X) to specify clip Standard or Bulk Plugs: S=Standard, B=Bulk (100 plugs)

Z-PLUG Termination Tool is included with quantities of 50 or more Standard (S) plugs or with any order of Bulk (B)

Z-TOOL-ZP Z-PLUG Termination Tool

ZP-CLIP-XX) Z-PLUG Latch Protector Clip, Various Colors, Bag of 25

Use (XX) to specify clip color: 01=Black, 02=White, 03=Red, 04=Gray, 05=Yellow, 06=Blue, 07=Green, 08=Violet, 09=Orange

ZP-CAP Front Protective Cap for the Z-PLUG, Black, Bag of 25

ZPG-ME00 Z-PLUG Gland, Metal, M20X1.5

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Siemon OEM Technologies
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www.siemon.com/OEM

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INFORME TÉCNICO SISTEMA ELÉCTRICO

JUNIO DE 2025
BOGOTA D.C

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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2.	Características basicas de los componentes del sistema	 ¡Error! Marcador no definido.
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3.	Distribución y canalizaciones	 ¡Error! Marcador no definido.
4.	Terminaciones en áreas de trabajo	 ¡Error! Marcador no definido.
5.	Identificación	 ¡Error! Marcador no definido.
6.	Intervención tableros eléctricos	 ¡Error! Marcador no definido.
7.	Interruptor automático termomagnetico	 ¡Error! Marcador no definido.
8.	Pruebas y certificaciones	 ¡Error! Marcador no definido.
9.	Recomendaciones	 ¡Error! Marcador no definido.

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1. Descripción general:

Se realiza la instalación y adecuación del sistema eléctrico dentro del proyecto para la Adecuación y Remodelación para los Laboratorios Sistemas Electrónicos de Seguridad SES – SOC Multipropósito para Fuerza Aérea Colombiana en el GRUSE 85 Comando Aéreo de Transporte Militar CATAM, Bogotá DC. Incluyo la instalación de canalizaciones con bandejas porta cables tipo rejilla de 30 cm desde cuarto técnico por pasillo central , dispersión con tubería metálica EMT hacia canalizaciones perimetrales, oficinas, salas de juntas y áreas comunes en donde se tuvo en cuenta crecimiento a futuro de salidas eléctricas, instalación de sistema puesta a tierra por canalizaciones, adecuación de canalización para llegada a cuarto eléctrico en donde se tuvo en cuenta conectorización de circuitos tanto en tablero regulado como en tablero no regulado. Toda la intervención permite garantizar un correcto estado del sistema, minimizando incidencias y accidentes por indebida operación, esta intervención cumple con todas las normas y especificaciones técnicas correspondientes, para poder evitar posibles averías y deficiencias que puedan causar una interrupción en el servicio o dificulten la operatividad de los equipos incluidos o alguno dependiente de los mismos.

- Reglamento Técnico de Instalaciones Eléctricas (RETIE)
- Código Eléctrico Nacional (ICONTEC 2050)
- Instituto Colombiano de normas Técnicas (ICONTEC)
- Normas ENEL CODENSA

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2. Características Básicas de los Componentes del Sistema

2.1. Cableado eléctrico

El cableado de las acometidas fue suministrado e instalado de acuerdo al diseño original del proyecto, considerando mayor holgura en cuanto al calibre del mismo, en la siguiente tabla se detalla el tipo de cable utilizado para cada uno de los alimentadores principales.

- Cableado eléctrico trenzado triplex THHN 12 AWG (bajo humo, cero halógenos) fase azul para tomas no reguladas desde bandeja porta cables tipo rejilla en techo para oficinas, salas de juntas, estaciones de trabajo y otras áreas.
- Cableado eléctrico trenzado triplex THHN 12 AWG (bajo humo, cero halógenos) fase roja para tomas reguladas desde bandeja porta cables tipo rejilla en techo para oficinas, salas de juntas, estaciones de trabajo y otras áreas.

Descripción de Cable	Sistema
Cable THHN AWG 10/12 color azul (RED)	Alimentador salidas eléctricas normales FASE
Cable THHN AWG 10/12 color rojo (RED)	Alimentador salidas eléctricas normales FASE
Cable THHN AWG 10/12 color blanco (RED)	Alimentador salidas eléctricas normales NEUTRO
Cable THHN AWG 10/12 color verde (RED)	Alimentador salidas eléctricas normales SPT

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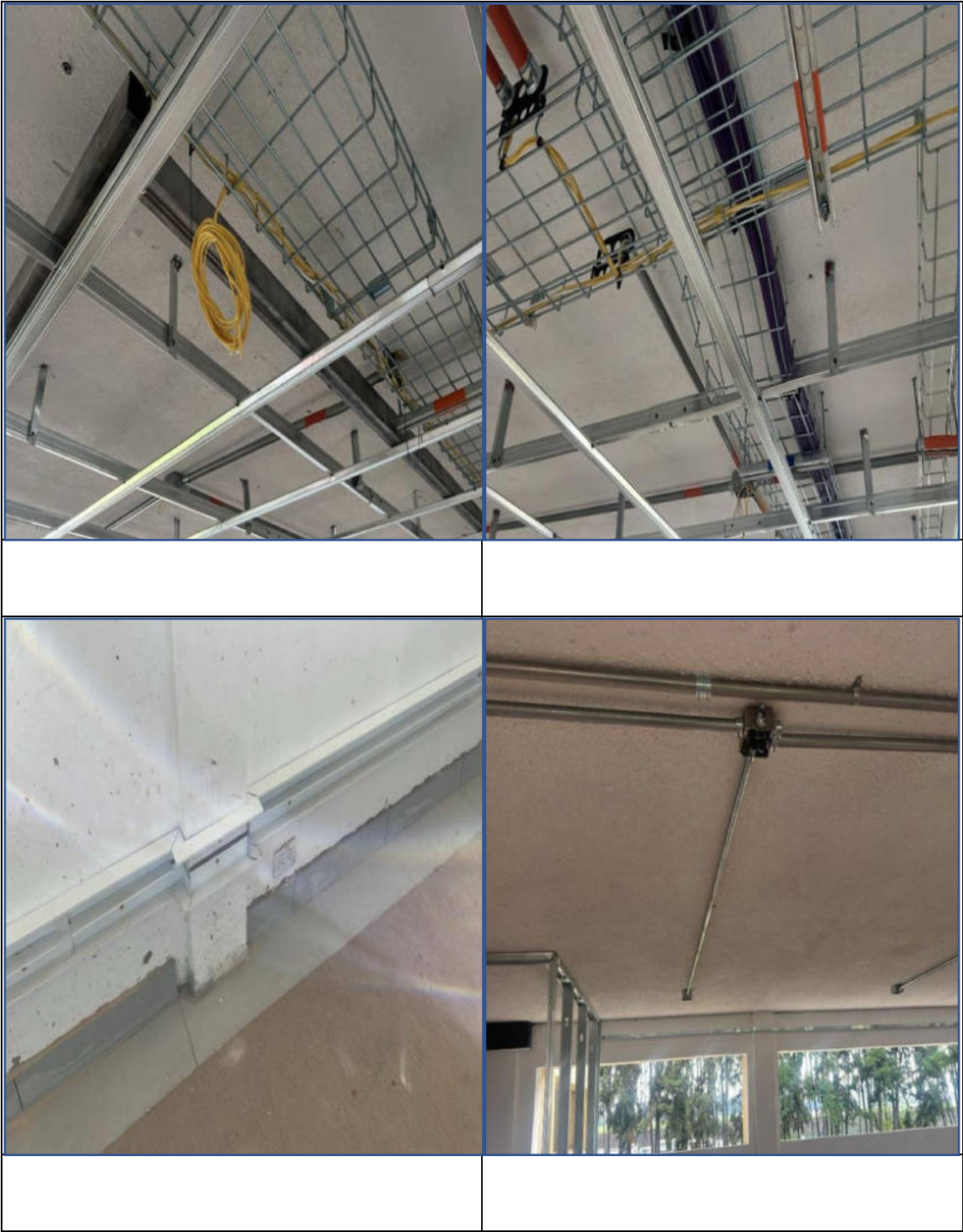


3. Distribución y Canalizaciones

- Canalización principal con bandeja porta cables ducto cerrado de 30 cm x 10 cm, esta canalización se instala nueva.
- Dispersión en otras áreas de mezanine en tubería metálica EMT hacia estaciones de trabajo y puntos designados en diseño original.
- Canalización perimetral con canaleta blanca 12x5 pintura electrostática en estaciones de trabajo, oficinas, salas de juntas.
- En todas las canalizaciones fue instalado SPT sistema puesta a tierra, bandejas portacables por techos con cable desnudo 6 AWG 100% cobre, canaletas metálicas por muros y estaciones de trabajo con alambre desnudo 12 AWG 100% cobre de acuerdo con normas vigentes.

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4. Terminaciones en Áreas de Trabajo

- Para el caso de los circuitos eléctricos normales las terminaciones se realizaron en tomas dobles tipo N5-15R de color blanco para circuitos NORMALES (no regulados).
- Para el caso de los circuitos eléctricos regulados las terminaciones se realizaron en tomas dobles tipo N5-15R de color naranja para circuitos REGULADOS.
- Para el caso de los circuitos eléctricos NORMALES (no regulados) en baños y zonas húmedas las terminaciones se realizaron en tomas dobles GFCI.
- Para el caso de talanqueras y unidades de aires acondicionados las terminaciones se realizan en salidas eléctricas bifásicas 220V

Todas las tomas fueron fijadas a los troqueles correspondientes en el área de trabajo, bien sea a caja 5800 o caja 2400 con suplemento, también utilizando cinta aislante 3M-SUPER 33 para mantener la protección adecuada.



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Salida zonas húmedas GFCI	Salida zonas húmedas GFCI

	
Salida bifásica 220V	Salida bifásica 220V

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5. Identificación

La identificación de la toma y conexiones se realizó de acuerdo al tipo de servicio, identificación de tablero y el número de circuito al cual está conectado dentro de los tableros detallando la siguiente nomenclatura,

G85-P2-TR-C2

En donde:

G85: identificación edificio

P2: identificación del piso donde se encuentra el tablero

TR: identificación de tablero regulado

CR: identificación del circuito

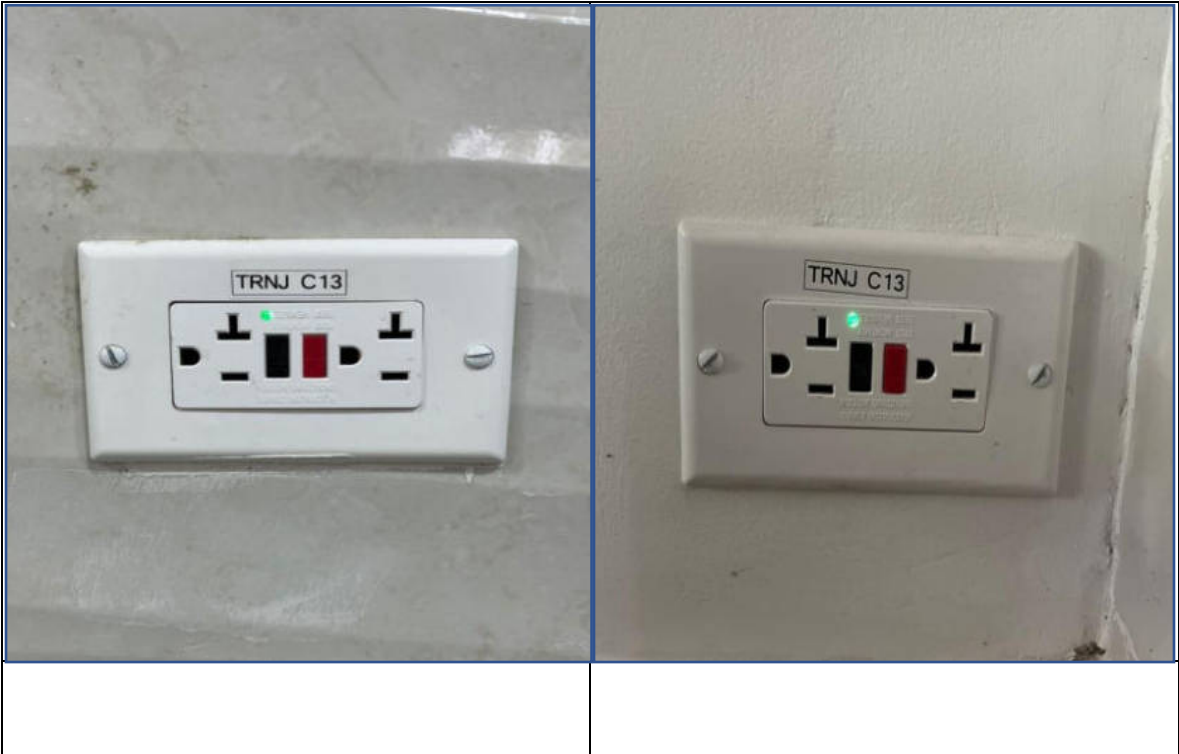
Gruse 85, piso 2, tablero regulado, circuito 2

Todas las salidas eléctricas (tomas) se identifican con marquilla auto laminada blanca letras negras de acuerdo a lo establecido en el RETIE.

La identificación de las salidas de telecomunicaciones se realizó siguiendo la codificación, numeración establecida y acordada por ambas partes, con una numeración ascendente de izquierda a derecha, denotando el número de rack, el Patch panel al cual pertenece y el número de puerto en dicho Patch panel.

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6. Intervención Tableros Eléctricos

Dentro del cuarto técnico en piso 2 Gruse 85 en tablero normal, tablero regulado y tablero de aires acondicionados

se realizan las conexiones de los circuitos correspondientes cumpliendo con todas las normas vigentes para este tipo de instalaciones, los circuitos quedan instalados bajo la siguiente nomenclatura,

TABLERO REGULADA TRRJ					
CTO	DESCRIPCION			CTO	DESCRIPCION
1	Libre	1X20A		2	SOC Puestos Oficina Director Dise
3	Libre	1X20A		4	Libre
5	SOC Puestos y canaleta	1X20A		6	SOC Puestos
7	Oficina Disie Puestos	1X20A		8	Laboratorio SES Puestos
9	Oficina Disie Puestos	1X20A		10	SOC TV en muro
11	Oficina Disie Puestos	1X20A		12	Datacenter
13	Libre	1X20A		14	Libre
15	Libre	1X20A		16	Libre
17	Libre	1X20A		18	Libre

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	OBRA PÚBLICA PARA EL MANTENIMIENTO, ADECUACIÓN Y REMODELACIÓN PARA LOS LABORATORIOS SISTEMAS ELECTRÓNICOS DE SEGURIDAD - SES Y SECURITY OPERATIONS CENTER - SOC MULTIPROPÓSITO PARA LA FUERZA AÉREA COLOMBIANA EN EL GRUSE 85 EN EL COMANDO AÉREO DE TRANSPORTE MILITAR CATAM, EN BOGOTÁ D.C., CONFORME ESPECIFICACIONES TÉCNICAS Y DOCUMENTOS QUE RIGEN EL PROCESO	

TABLERO NORMAL TRNJ					
CTO	DESCRIPCION			CTO	DESCRIPCION
1	Luminarias costado Norte y Baños	1X20A		2	Datacenter / Control Acceso
3	Luminarias Emergencia	1X20A		4	Micro Sala Star
5	Luminarias costado Sur	1X20A		6	Oficina Disie Puestos
7	En techo frente a Puertas	1X20A		8	Oficina Disie Puestos
9	Oficina Disie Puesto director y canaleta	1X20A		10	SOC Puestos
11	Oficina Disie Puestos	1X20A		12	Sala Star Canaleta y Muro
13	Baños mujeres Baños Homnres Cuarto Descanso	1X20A		14	Simulacion Control de Acceso
15	SOC Puestos y canaleta	1X20A		16	
17	Laboratorio SES Puestos	1X20A		18	Laboratorio SES Puestos

TABLERO NORMAL TRNE					
CTO	DESCRIPCION			CTO	DESCRIPCION
1	AIRE RACK	2X20A		7	AIRE LABORATORIO
2				8	
3	N/A	N/A		9	N/A
4	AIRE SOC	2X30A		10	Tomas techo Camaras
5				11	Libre
6	N/A	N/A		12	N/A

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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7. Interruptor Automático Termomagnético

Protegen las instalaciones contra sobrecargas y cortos circuitos por lo que garantizan la fiabilidad y seguridad de las maniobras, disponen de dos mecanismos de disparo diferentes, térmico para la protección de sobrecargas y disparo electromagnético para la protección contra cortos circuitos. Cumplen con las normas internacionales TEC/EN 608981, IEC/EN 60947-2, UL 1077, UL 489, CSA 22.2 No. 235, CSA 22.2 No 5.



Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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8. Pruebas y Certificaciones

Todos los circuitos fueron probados en continuidad y operatividad, adicionalmente la instalación se realizó con base a la normatividad vigente del RETIE (Reglamento Técnico de Instalaciones Eléctricas) y la NTC-2050 (Norma Técnica Colombiana).

9. Recomendaciones

Presentamos algunas recomendaciones para tener en cuenta, lo que nos puede ayudar a mantener el sistema operando correcta

- Mantener control estricto de quien manipula los equipos internos del sistema.
- En caso de tener que manipular infraestructura del sistema debe realizarse con mucho cuidado teniendo en cuenta directorios, diagramas unifilares, planos y rutas, para evitar dañar alguno de los elementos que conforman el sistema.
- Realizar un mantenimiento preventivo al menos dos veces por año asegurando limpieza, previniendo fallas y asegurando el correcto funcionamiento del sistema.
- Al realizar ampliación de la red tener en cuenta las cargas, cálculos y normas establecidas para este fin, así se evitara sobre cargas y malas practicas sobre el sistema.
- Mantener documentado todo cambio o novedad que se presente por deterioro de componentes del sistema o por mantenimientos realizados.

Esta intervención del cableado, componentes activos y pasivos del sistema eléctrico al igual que toda la documentación se realiza bajo la administración del RETIE (Reglamento técnico de instalaciones eléctricas) "Estándar administrativo para infraestructura de sistemas eléctricos Comercial", siguiendo las normas de seguridad SST de todo nuestro personal.

Elaboró JAZMIN GOMEZ CATALÁN DIRECTOR DE OBRA 	Revisó EDWIN PARADA CALVO REPRESENTANTE LEGAL 	Aprobó JONATHAN RODRIGUEZ SUPERVISOR
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TABLERO REGULADA TRRJ						
CTO	DESCRIPCION			CTO	DESCRIPCION	
1	Libre	1X20A		2	SOC Puestos Oficina Director Dise	1X20A
3	Libre	1X20A		4	Libre	1X20A
5	SOC Puestos y canaleta	1X20A		6	SOC Puestos	1X20A
7	Oficina Disie Puestos	1X20A		8	Laboratorio SES Puestos	1X20A
9	Oficina Disie Puestos	1X20A		10	SOC TV en muro	1X20A
11	Oficina Disie Puestos	1X20A		12	Datacenter	1X20A
13	Libre	1X20A		14	Libre	1X20A
15	Libre	1X20A		16	Libre	1X20A
17	Libre	1X20A		18	Libre	1X20A

TABLERO NORMAL TRNJ					
CTO	DESCRIPCION			CTO	DESCRIPCION
1	Luminarias costado Norte y Baños	1X20A		2	Datacenter / Control Acceso
3	Luminarias Emergencia	1X20A		4	Micro Sala Star
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TABLERO NORMAL TRNE						
CTO	DESCRIPCION			CTO	DESCRIPCION	
1	AIRE RACK	2X20A		7	AIRE LABORATORIO	2X30A
2				8		
3	N/A	N/A		9	N/A	N/A
4	AIRE SOC	2X30A		10	Tomas techo Camaras	1X20A
5				11	Libre	A
6	N/A	N/A		12	N/A	N/A

LED Panel

LED PANEL SQ 40W DL 100-277V

P27913



Luminaria tipo Panel LED con driver independiente. Montaje de incrustar en cielo raso. Proyección uniforme de la luz, reduce los costos de consumo de energía y de mantenimiento.

CARACTERÍSTICAS

- Diseño moderno con fuente de iluminación lateral basada en LED SMD y difusor opalizado
- Ultra delgado y liviano con disipador de calor integrado
- Opción de instalación colgante (guayas y accesorios no incluidos)

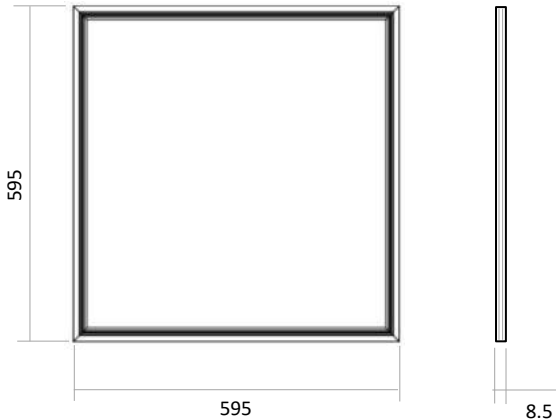
APLICACIONES

- Adecuado para aplicaciones de iluminación interior
- Iluminación general en oficinas e instalaciones educativas
- Iluminación general en comercio y consultorios

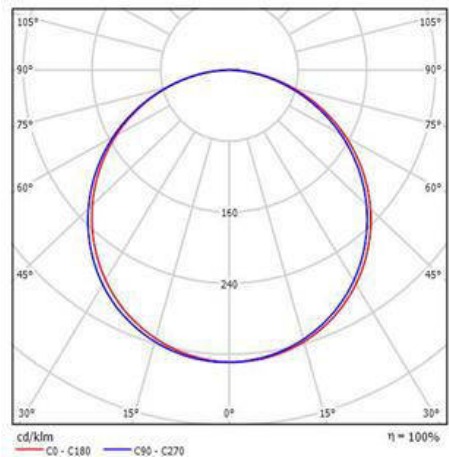


DATOS ÓPTICOS		DATOS FÍSICOS		DATOS ELÉCTRICOS	
Temperatura de color	6500 K (DL)	Acabado	Blanco	Potencia de entrada	40 W
Flujo luminoso	3200 lm	Grado de protección IP	IP20	Tensión de operación	100-277 V 50/60 Hz
Ángulo de apertura	120°	Dimensiones (LxWxH)	595x595x8.5 mm	Corriente de entrada	0.333 A @ 120 V
Tipo de distribución	Directa simétrica	Tipo de montaje	Incrustar	Factor de potencia	>0.90
Reproducción de color (IRC)	80	Chasis	Aluminio	Distorsión armónica (THD)	<20%
Vida útil	35000 h L70	Óptica	Difusor PMMA	Tipo de driver	Independiente CC
Eficacia	80 lm/W	Temperatura de operación Ta	-20°C ~ +40°C	Atenuable	NO
Indice de deslumbramiento	UGR<22				

DIMENSIONES



FOTOMETRÍA



LED Emergencia

LED EMERG DOWNLIGHT 4.5W 6K ASYM

P28306



Luminaria LED para iluminación de emergencia, para montaje incrustada en techo, con diseño moderno y robusto. Tipo de distribución asymetrica, con batería integrada para brindar más de 120 minutos de autonomía.

CARACTERÍSTICAS

Diseño compacto basado en LED SMD
Chasis de color blanco con cubierta transparente
Batería recargable y botón de prueba
Indicador de estado de batería

APLICACIONES

Pasillos y escaleras
Áreas comerciales, industriales, de oficinas, e instalaciones educativas
Rutas de evacuación en interiores



120 minutos
Autonomía en emergencia



**Ultra
Confiable**



**ENCENDIDO
INSTANTANEO**

DATOS ÓPTICOS

Temperatura de color	6000K (DL)
Flujo luminoso	170 lm
Ángulo de apertura	120°
Reproducción de color (IRC)	>80
Potencia Spot LED	1.5W

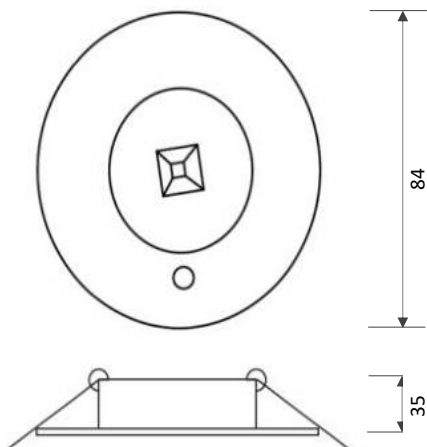
DATOS FÍSICOS

Acabado	Blanco
Grado de protección	IP20
Dimensiones (DxH)	84 x 35 mm (bala)
Tipo de montaje	Incrustar
Peso (kg)	0.283 kg
Chasis	Carcasa termo plástica
Material óptica	PMMA
Temperatura de operación	0°C ~ 40°C

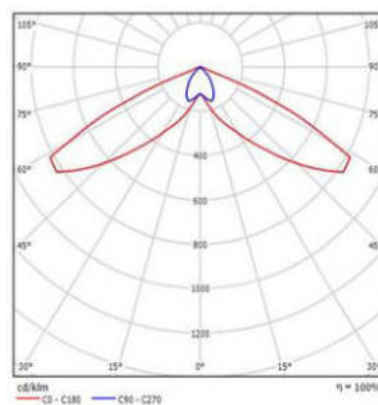
DATOS ELÉCTRICOS

Potencia de entrada	Max 4.5W
Tensión de operación	100V - 277V
Frecuencia	50/60 Hz
Corriente de entrada	Max 0.040A
Factor de potencia	0.5
Batería	Ni-Cd 4.8V 1000mAH
Tiempo de carga	24 horas
Tiempo de autonomía	120 min
Ciclos carga/descarga	>400 ciclos

DIMENSIONES



FOTOMETRÍA

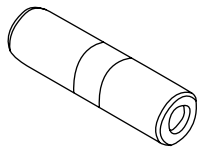
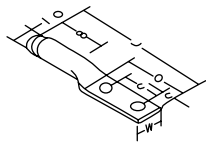


Dos huecos

Calibre	Stock Number	Referencia	Código de colores	L (mm)	B (mm)	W (mm)	P (mm)	C (mm)	C 1 (mm)	Tamaño del hueco	Para tornillo
2 AWG	80610033898	40137	Oliva	139,7	38,1	23,9	82,6	15,7	44,4	12 mm	M10 / 7/16"
4/0 AWG	80610033914	40145	Blanco	150,9	44,5	30,2	85,9	15,7	44,4	12 mm	M10 / 7/16"
300 MCM	80610033930	40153	Azul	166,6	57,2	33,3	90,4	15,7	44,4	12 mm	M10 / 7/16"
350 MCM	80610033948	40156	Café	166,6	57,2	38,1	90,4	15,7	44,4	12 mm	M10 / 7/16"
500 MCM	80610033963	40166	Rosado	185,7	76,2	44,5	90,4	15,7	44,4	12 mm	M10 / 7/16"
750 MCM	80610033989	40172	Amarillo	209,6	85,9	44,5	91,9	15,7	44,4	12 mm	M10 / 7/16"

Conectores Tubulares en Aluminio

Stock Number	Referencia	Código de colores	Calibre	Longitud	U. de emp.
80610033518	20001	Gris	6 AWG	41,14	50
80610033534	20003	Rosado	2 AWG	50,8	25
80610033542	20004	Dorado	1 AWG	50,8	10
80610033559	20005	Tan	1/0 AWG	53,97	10
80610033567	20006	Oliva	2/0 AWG	58,72	10
80610033583	20008	Blanco	4/0 AWG	69,85	10
80610033591	20009	Rojo	250 Kcmil	74,59	3
80610033609	20010	Azul	300 Kcmil	79,37	3
80610033617	20011	Café	350 Kcmil	85,85	3
80610033633	20014	Rosado	500 Kcmil	98,42	3



3M Ciencia. Aplicada a la vida.™

Terminales y Conectores para Baja Tensión

Conectores de Resorte Scotchlok™

Para cables entre 22 AWG y 6 AWG

Los conectores de resorte Scotchlok™ de 3M son más fáciles de usar, su instalación es rápida y su tamaño optimiza espacio. Cada conector está constituido por dos aspas laterales que hacen más fácil el entorchado de los cables dentro del conector. Se usa para instalaciones en baja tensión hasta 600 V.

Beneficios

- Diseño único que permite una mayor conformabilidad en espacios reducidos.
- Reutilizables.
- Tres conectores Scotchlok reemplazan a ocho (8) conectores estándar.
- Cápsula de acero: Excelente protección mecánica.
- Resistente a la corrosión.

Características

- Tiene una parte superior rígida y una falda inferior flexible.
- Los conectores Scotchlok™ son perfectos para cajas con poco espacio, llenas de cables.
- Colores según código eléctrico.

Instalación más rápida

Cápsula de acero interna que permite el entorchado de los cables más rápido y acepta un rango más amplio de conductores en distintos calibres haciendo la conexión más segura.

Protección y flexibilidad

La cubierta flexible del conector protege y se dobla fácilmente, permitiendo una mayor conformabilidad en espacios reducidos.

Rango más amplio de conexión

Se pueden hacer conexiones hasta de 600 voltios.

Más fácil de usar

Las aspas laterales hacen que el conector sea más fácil de ajustar, obteniendo máximo torque.

Stock Number	Referencia	Medida (AWG)	U. de emp.
80000209777	O/B+ Conector de resorte	22 - 12	100
80000209785	R/Y+ Conector de resorte	18 - 8	100
80000209769	B/G+ Conector de resorte	14 - 6	50

Tabla de selección



Conector 0/B		Conector R/Y		Conector B/G	
Nº de alambres	Calibre AWG	Nº de alambres	Calibre AWG	Nº de alambres	Calibre AWG
2 - 7	Nº 22	2 - 10	Nº 18	4 - 7	Nº 14
2 - 6	Nº 20	2 - 7	Nº 16	3 - 6	Nº 12
2 - 5	Nº 18	2 - 6	Nº 14	3 - 5	Nº 10
2 - 4	Nº 16	2 - 5	Nº 12	2 - 3	Nº 8
2 - 4	Nº 14	2 - 3	Nº 10	2	Nº 6
2 - 3	Nº 12	2	Nº 8	-	-

Conectores de Autodesforre

■ Para cables entre 22 AWG y 14 AWG

Los conectores para derivación de autodesforre Scotchlok™ de 3M, permiten realizar derivaciones en instalaciones interiores sin necesidad de retirar la chaqueta ni realizar aislamientos adicionales.

La parte metálica del conector, al ser presionada hacia el interior del cuerpo, desplaza el aislamiento de los alambres, conectando ambos conductores en forma simultánea.



Usos

Illuminación interior, señalización, vehículos, botes, aire acondicionado, sistemas de control industrial, cultivos de flores, instalaciones temporales, sistemas de control de baja tensión, entre otros.

Stock Number	Referencia	Color	Principal	Derivación	U. empaque
80601103171	562	Amarillo	10 - 12 AWG	10 - 12 AWG	1000
80610031421	567	Café	10 - 12 AWG	14 - 18 AWG	1000
80610052765	560	Azul	16 - 18 AWG	16 - 18 AWG	1000
80014000808	558	Rojo	16 - 22 AWG	16 - 22 AWG	1000

Herramienta para Ponchar Terminales



Peso: 1.1 lbs

Stock Number	Referencia	U. de empaque
80610096598	TR-482	10 unidades

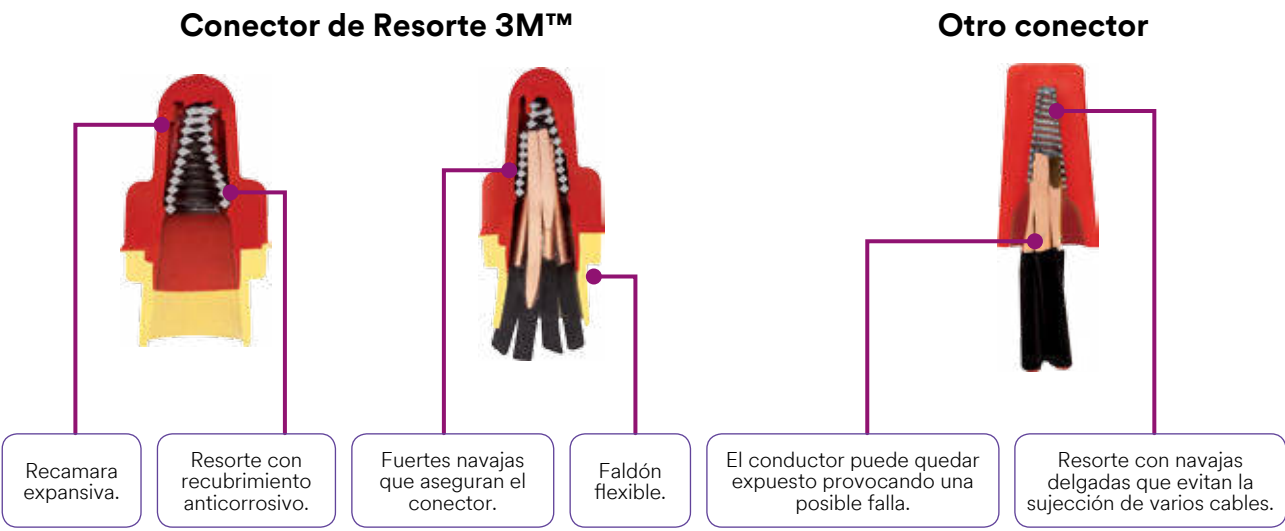
Características:

- Ponchadora de terminales y conectores aislados en vinilo o nailon. Poncha de forma simultánea al cilindro y al aislamiento.
- Capacidad para ponchar del Nº 22 – 14 AWG (0,35 – 2,5 mm2) de color rojo y azul y del Nº 12 - 10 AWG (4,0 – 6,0 mm²) de color amarillo.
- Localizador de terminales.
- Proporciona una adecuada inserción del conducto en el cilindro de la terminal.
- Su material es de acero templado con acabado resistente a la corrosión.

Conectores de Resorte

■ Los Conectores de Resorte 3M™ ayudan a realizar una buena conexión de cables de manera más rápida y eficiente. Un Conector de Resorte 3M™ puede ser utilizado para 8 diferentes calibres.

Es por eso que diseñamos nuestro Conector de Resorte 3M™ con un resorte único y flexible de la mejor calidad, reutilizable y una falda flexible que ayuda a evitar fallas en la instalación.



Características

- Retardante a la flama.
- Temperatura de operación hasta 105°C.
- Versátiles por ser multicalibres.
- Reutilizables.
- Recomendados en el NEC (Código Nacional Eléctrico).
- La falda flexible evita que el conductor quede expuesto, lo que aumenta la seguridad.
- Úselos en componentes eléctricos, luminarias, cajas de conexión e interruptores.
- Las alas permiten una instalación más fácil y con mayor torsión.

Modelos

Conectores	Rango Máximo de Voltaje						Calibres AWG (mm2)						Temperatura de operación						Certificaciones
O/B, T/Y	600V en cables de construcción 1000V en letreros y luminarias						2#22- 2#12 3#14 (1,0 mm² -5,0 mm²)						105 °C (221 °F)						
R/Y	600V en cables de construcción 1000V en letreros y luminarias						2#18- 2#8 5#12 (2,0 mm² -16, 0 mm²)						105 °C (221 °F)						
B/G	600V en cables de construcción 1000V en letreros y luminarias						4#14- 5#10,2-3#8, 2#6 (7,5 mm² -30,0 mm²)						105 °C (221 °F)						
Rango de cables	2#22	2#20	2#18	2#16	2#14	2#12	4#14	3#12	6#14	4#12	3#10	5#12	2#8	6#12	4#10	6#10	2#6		
O/B+, T/Y+																			
R/Y+																			
B/G+																			

*ejemplo 2#22 → 2 cables calibre 22.

Aplicación en 3 pasos.

- 1

Retira el aislamiento del cable.
**Consulte ficha técnica por modelo.*
- 2

Asegúrate de que los extremos queden parejos y bien apretados. **Los cables pueden quedar o no retorcidos.*

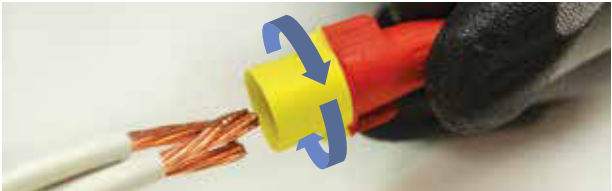


- 3

Gira los conectores sobre los cables en el sentido de las agujas del reloj hasta que queden asegurados.



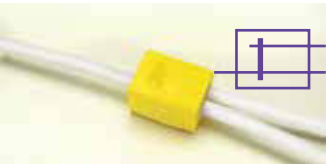
Retira en un paso:
Para sacarlos, gira los conectores en sentido contrario de las agujas del reloj.



Conector Derivador Scotchlok® IDC

Ofrecen una conexión rápida y fácil sin necesidad de retirar el aislamiento. También, se maneja una gran variedad de tamaños que se adaptan a diferentes aplicaciones y calibres (26-10 AWG).

Conexión en Y
Una derivación.



- Permiten obtener una derivación en baja tensión (600V) sin necesidad de desenergizar el sistema.

Conexión en H
Dos derivaciones.

**Consultar modelos*



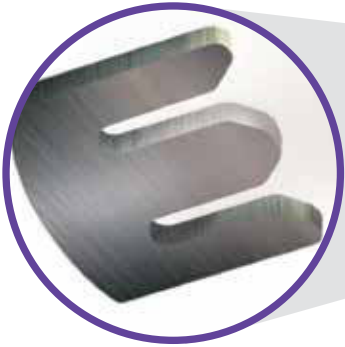
- No requieren de preparaciones previas de los cables ni herramientas especiales para su instalación.

Modelos

Conectores	Tipo de derivación "Y o H"	Características especiales	Aislamiento máximo	Calibres AWG (mm²)	Temperatura de operación	Certificación UL o CSA
558*		Retardante a la flama	0.120" (3,05 mm²)	#22-#16 (0,5-1,5)	105 °C (221 °F)	
560		Retardante a la flama	0.145" (3,68 mm²)	#18-#16 (0,75-1,5) Sólido/Trenzado #14 Trenzado	105 °C (221 °F)	
560B		Conector multicalibre Retardante a la flama	0.145" (3,68 mm²)	#18-#16 (0,75-1,5) Sólido/Trenzado #14 Trenzado	105 °C (221 °F)	
562		Conector multicalibre Retardante a la flama	0.190" (4,82 mm²)	#12-#10 (3,0-4,0) Sólido/Trenzado #10 Trenzado	90 °C (194 °F)	
564		Aplicación en ambientes secos	0.145" (3,68 mm²)	#18-#14 (0,75-1,5)	90 °C (194 °F)	
567		Conexión de doble guillotina Retardante a la flama	0.190" (4,82 mm²) Línea viva 0.145" (3,68 mm²) Derivación	#12-#10 (3,0-4,0) Línea viva #8-#14 (0,75-1,5) Derivación	105 °C (221 °F)	
804		Resistente a la humedad Retardante a la flama	0.145" (3,68 mm²)	#18-#16 (0,75-1,5) Sólido/Trenzado #14 Trenzado	75 °C (167 °F)	

¿Cómo funciona la guillotina de doble U?

Su exclusivo sistema de guillotina de doble U atraviesa el aislamiento sin dañar el conductor. Esto provee una conexión segura y confiable.



Aplicación en 3 pasos.

- 1

Coloca el Conector Derivador Scotchlok® IDC sobre el cable energizado.
- 2

Inserta el cable a derivar. En caso de querer una doble derivación, traspasar el tope interno.
- 3

Poncha con unas pinzas hasta que la guillotina haya atravesado el aislamiento y cierra la tapa de seguridad.



Aplicaciones comerciales, industriales y residenciales.

Cajas de conexión para luminarias con Conectores de Resorte R/Y.

Cajas de conexión para luminarias con Conectores Derivadores Scotchlok® IDC 562.

Cajas de conexión con Conectores de Resorte R/Y.

Cajas de conexión para contactos con Conectores Derivadores Scotchlok® IDC 562.

Tabla de aplicaciones de soluciones eléctricas 3M™ creadas para tu seguridad.

Productos	Aislamiento de líneas de bajo voltaje	Protección mecánica	Aislamiento para líneas de medio voltaje	Sellado hermético contra la humedad	Acolchado y moldeado	Codificación y sujeción de cables	Limpieza de cables y empalmes	Mantenimiento general	Conexión de cables	Protección personal	Conexión de cables e hilos	Prevención de la corrosión	Lubricación
Cinta aislante de vinil Scotch® Super 33™	●	●				●							
Cintas aislantes de vinil con código de colores Scotch 35	●	●				●		●					
Cintas aislantes de vinil de uso general 3M™ Temflex™	●	●				●							
Cinta aislante de hule sin forro para empalmes Scotch® 23 y 130C	●		●	●									
Cinta aislante de hule 3M™ Temflex™ 2155	●			●									
Cinta aislante de silicón Scotch® 70	●						●						
Cinta semiconductor Scotch® 13									●				
Cinta aislante de masilla y vinil Scotch® 2210	●	●		●	●								
Cinta de masilla con hule Scotch® 2228	●		●	●	●								
Masilla aislante 3M™ Scotchfil™	●			●	●								
Compuesto sellante de resina de masilla 3M™ Scotch-Seal™ 2229				●	●								
Cinta aislante Scotch® 77 resistente al fuego y los arcos eléctricos		●					●						
Cinta aislante para minería Scotch 31		●		●	●								
Cinta aislante de algodón contra la fricción 3M™ Temflex™ 1755	●	●				●							
Guantes 3M™ Comfort Grip- Uso general										●			
Guantes 3M™ Comfort Grip- Resistentes a los cortes										●			
Casco de seguridad 3M™ Comfort										●			
Conectores de resortes 3M™	●										●		
Conectores directamente enterrados 3M™ DBO/B-6 y DBR/Y-6	●			●							●		
Conectores 3M™ IDC Scotchlok™	●										●		
Revestimiento aislante 3M™ Scotchkote™ FD				●									
Aerosol aislante 3M™ 1601 y 1602-R												●	
Limpiador de contactos de secado rápido 3M™ 16-102							●					●	
Spray de Zinc 3M™ 16-501												●	
Lubricante para cables WL 3M™													●
Productos de identificación 3M™ ScotchCode™						●							
Cinchos 3M™						●							
Terminales 3M™ QT-III									●				
Empalmes 3M™ QS-III									●				
Zapatas y conectores 3M™									●				
Reparador de bandas 3M™								●					
Encapsulation coating polynox 136												●	

Terminales Scotchlok™ para Baja Tensión

Para cables entre 22 AWG a 8 AWG

Características

- Las terminales y empaques Scotchlok™ están fabricados en barril aislado, en vinilo o nailon y son para aplicación a compresión.
- El material es cobre electrolítico que asegura máxima conductividad y recubierto en estaño para prevenir su oxidación.

Terminal Stud Size Chart

Stud Size			3M Terminal Hole Diameter		
US/Inches	Diameter		OUS/Metric	Diameter	
#2		0.086" (2,144 mm)	M2		2,0 mm (0.080")
#4		0.112" (2,844 mm)	M2,5		2,5 mm (0.100")
#5		0.125" (3,175 mm)	M3		3,0 mm (0.120")
#6		0.138" (3,505 mm)	M3,5		3,5 mm (0.140")
#8		0.164" (4,166 mm)	M4		4,0 mm (0.176")
#10		0.190" (4,826 mm)	M5		5,0 mm (0.20")
1/4		0.250" (6,350 mm)	M6		6,0 mm (0.24")
5/16		0.3125" (7,938 mm)	M8		8,0 mm (0.32")
3/8		0.375" (9,525 mm)	M10		10,0 mm (0.40")
7/16		0.4375" (11,113 mm)	M10		10,0 mm (0.48")
1/2		0.500" (12,700 mm)	M12		12,0 mm (0.48")
5/8		0.625" (15,875 mm)	M16		16,0 mm (0.64")
3/4		0.750" (19,050 mm)	M18		18,0 mm (0.72")

Ref: ISO 263-1973 for inch stud sizes and ISO 262-1973 for metric stud sizes.

	Stock Number	Referencia Internacional	Tamaño tornillo	Referencia	Color	Rango AWG	Unidad de empaque
	Anillo						
	80610035547	MVU 18-8 R/LK	M 4	B-01-1110	Rojo	22-18	1000
	80611464993	MVU 18-10 R/LK	M 5	B-01-1112	Rojo	22-18	500
	80611464647	MVU 14-6 R/SK	M 3,5	C-01-1104	Azul	16-14	500
	80611465263	MVU 14-8 R/LK	M 4	C-01-1108	Azul	16-14	500
	80611464654	MVU 14-10 R	M 5	C-01-1110	Azul	16-14	500
	80611464662	MVU 14-14 R/SX	1/4	C-01-1112	Azul	16-14	500
	80611464027	MVU 10-6 RX	M 3,5	D-01-403	Amarillo	12-10	500
	80611464050	MV 10-14 R/SX	1/4	D-01-407	Amarillo	12-10	500
	80610048607	MV 10-516 R/SK	5/16	D-01-409K	Amarillo	12-10	500
	80601384318	13-38-P	3/8	D-01-412	Amarillo	12-10	1000
	80610049100	MVU 10-516 R/SK	5/16	D-01-1109K	Amarillo	12-10	500
	80008006043	MN 8-14 R/SK	1/4	E-01-703K	Vino tinto	8	200
	Ovalada						
	80611464159	MV 14-610 RX	M 3,5 - M4 - M5	C-60-1102	Azul	16-14	500
	80601394762	MV 10-610 RX	M 3,5 - M4 - M5	D-60-402	Amarillo	12-10	1000
	U sin presión						
	80611458805	MV 18-6 FX	M 3,5	B-06-401	Rojo	22-18	500
	80611466758	MVU 14-6 FX	M 3,5	C-06-1101	Azul	16-14	500
	80610042931	MVU 14-8 FX	M 4	C-06-1103K	Azul	16-14	1000
	80611465297	MVU 14-10 FX	M 5	C-06-1105	Azul	16-14	500
	80611466774	MVU 10-8 FX	M 4	D-06-1102	Amarillo	12-10	500
	80611465305	MVU 10-10 FX	M 5	D-06-1103	Amarillo	12-10	500
	U con presión						
	80611464928	MV 18-6 FLK	M 3,5	B-61-402K	Rojo	22-18	500
	80610040059	MVU 18-10 FLK	M 5	B-61-1104K	Rojo	22-18	500
	80610048060	MVU 14-6 FLK	M 3,5	C-61-1102K	Azul	16-14	500
	80610048086	MVU 14-10 FLK	M 5	C-61-1104K	Azul	16-14	1000
	80610134175	MV 10-8 FLK	M 4	D-61-402K	Amarillo	12-10	500
	80601397971	SS-33-10-P	M 5	D-61-1103	Amarillo	12-10	1000
	Pin						
	80611465172	MVU 18-47PX-A	-	B-67-1101	Rojo	22-18	500
	80611465115	MVU 14-47PX-A	-	C-67-1101	Azul	16-14	500
	80611465099	MVU 10-55PX-A	-	D-67-1101	Amarillo	12-10	500
	Terminal macho aislado en vinilo						
	80611458201	MVU 10-250DMX	-	D-35-1101	Amarillo	12-10	500
	Terminal hembra aislado en vinilo						
	80611458169	MVU 14-250DFX	-	C-29-1104	Azul	16-14	500
	80611465826	MVI 10-250DFX	-	D-29-1101	Amarillo	12-10	500

	Terminal hembra aislado en nylon						
	80610057673	MNU 18-250DFIK	-	B-54-1203K	Rojo	22-18	1000
	80611464233	MNU 14-250DFIX	-	C-54-1203	Azul	16-14	500
	80611464589	MNU 10-250DFIX	-	D-54-1203	Amarillo	12-10	500
	Terminal macho aislado en nylon						
	80610057764	MNU 18-250DMIK	-	B-63-1203	Rojo	22-18	1000
	80611464258	MNU 14-250DMIX	-	C-63-1203	Azul	16-14	500
	80611464266	MNU 10-250DMIX	-	D-63-1203X	Amarillo	12-10	500
	Conector tubular aislado en vinilo						
	80610039358	MVU 18 BCK	-	B-42-1101	Rojo	22-18	1000
	80611464696	MVU 14 BCX	-	C-42-1101	Azul	16-14	500
	80611464738	MVU 10 BCX	-	D-42-1101	Amarillo	12-10	500

3M Ciencia.
Aplicada a la vida.™

Alta Tensión

Conductor Compuesto de Aluminio Reforzado 3M ACCR*.



El ACCR es un conductor para transmisión de energía en líneas aéreas, diseñado para reemplazar conductores convencionales de tamaño similar, proporcionando una mayor capacidad de corriente con menor expansión térmica (menor flecha), manteniendo o mejorando las cargas mecánicas, las tensiones y distancias en las estructuras existentes.

El núcleo del ACCR está compuesto de fibras de óxido de aluminio embebidas en aluminio puro y con exterior de aluminio circonio.

Características

- Alta resistencia mecánica.
- Más conductivo y liviano que el acero.
- Baja expansión térmica.
- Mantiene su fortaleza hasta 300 °C.

Beneficios

- Significativos aumentos de capacidad (de 1,5 a 3 veces).
- Supera el desempeño de todos los cables aéreos existentes.
- Sin aumento en el diámetro.
- Uso de torres existentes.
- Respeto por el medio ambiente.
- Ahorra tiempo de diseño y costos.
- Extiende la vida de las torres.
- Evita derechos de servidumbre adicionales.

***Aluminum Conductor Composite Reinforced**



LED Panel

LED PANEL RD 18W DL UNV

P23402



Luminaria tipo Panel LED con driver independiente. Montaje de incrustar en cielo raso, con clip de fijación. Proyección uniforme de la luz, reduce los costos de consumo de energía y de mantenimiento.

CARACTERÍSTICAS

Diseño moderno con fuente LED SMD y difusor opalizado
Ultra delgado y liviano con disipador de calor integrado
Ganchos de sujeción con resorte para fácil instalación

APLICACIONES

Adecuado para aplicaciones con altura limitada de instalación entre cielo raso y placa
Iluminación general residencial y comercial
Zonas comunes



Ultra Delgado



DATOS ÓPTICOS

Temperatura de color	6500 K (DL)
Flujo luminoso	1530 lm
Ángulo de apertura	120°
Tipo de distribución	Directa simétrica
Reproducción de color (IRC)	>80
Vida útil	35000 h L70
Eficacia	85 lm/W

DATOS FÍSICOS

Acabado	Blanco
Grado de protección IP	IP20
Dimensiones (DxH)	Φ225x20 mm
Tipo de montaje	Incrustar
Chasis	Aluminio + PC
Óptica	Difusor opalizado
Temperatura de operación Ta	-20°C ~ +50°C

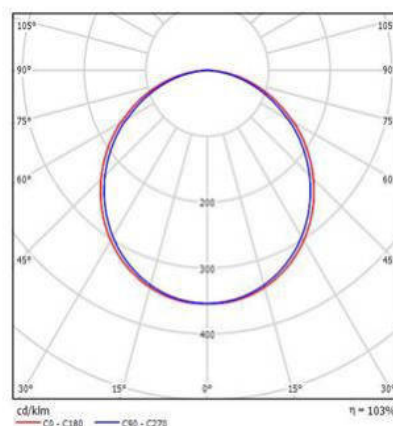
DATOS ELÉCTRICOS

Potencia de entrada	18 W
Tensión de operación	120-277 V 50/60 Hz
Corriente de entrada	0.167 A @ 120 V
Factor de potencia	0.9
Distorsión armónica (THD)	<20%
Tipo de driver	Independiente CC
Atenuable	NO

DIMENSIONES



FOTOMETRÍA





Cinta Eléctrica Aislante

Uso Básico / General

Ficha Técnica

Descripción del Producto:

Cinta eléctrica aislante de PVC adecuadamente plastificada y estabilizada.
Recubrimiento de una cara de adhesivos sensitivos a la presión base-hule.
Cinta de calidad con acabado brillante, ignífugo, resistente al frío para uso general.

Aplicaciones:

Baja tensión hasta 600V.
Utilizada para terminar y empalmar alambres y cables para aislamiento eléctrico.

Características y Beneficios:

- Adecuado para usos inferiores a 600V u 80 °C.
- El adhesivo no corrosivo y sensible a la presión elimina la necesidad de calor, humedad u otros catalizadores para afectar la aplicación.
- Sin peligros en el uso de este material

Propiedades Típicas:

Propiedad	Valor	Unidad de medida	Método de prueba
Espesor de la cinta.	0.13 / 5	mm / mils	PSTC-133
Adhesión al acero.	0.18 / 16	kg/cm, oz/in	ASTM D-1000
Adhesión al respaldo.	0.18 / 16	kg/cm, oz/in	ASTM D-1000
Elongación.	150	%	PSTC-131
Esfuerzo a la tensión.	2.0 / 11	kg/cm, lbs/in	PSTC-131
Ruptura dieléctrica	1,100	Volts / mil	ASTM D-1000

*ASTM D1000

Note: Estos valores son típicos y no deben usarse para propósitos de especificación.

3M Cinta Eléctrica Aislante (Uso General)

Vida de almacenamiento:

- Un año de vida en almacén si se mantiene a niveles moderados de temperatura y humedad.
- Se recomienda guardar la cinta detrás de las existencias actuales. Se recomienda la buena rotación de las existencias.

Información adicional:

- La cinta eléctrica aislante está disponible a través de su distribuidor eléctrico autorizado de 3M en los siguientes tamaños estándar de rollos: 19 mm X 18 m

Nota Importante

Aviso Importante:

3M NO OTORGA GARANTIAS, EXPLICITAS O IMPLICITAS, DE COMERCIALIZACION O DE USO PARA UN PROPOSITO PARTICULAR DE ESTE PRODUCTO. Es responsabilidad del usuario determinar si el producto 3M es adecuado para un propósito en particular y para el método de aplicación.

Por favor recuerde que muchos factores pueden afectar el uso y desempeño de un producto 3M, algunos de los cuales son únicamente del conocimiento y control del usuario, es esencial que el usuario evalúe el producto 3M para determinar si adecuado para su propósito y método de aplicación.

Limitación de reparación y condiciones

Se comprueba que el producto 3M está defectuoso, LA ÚNICA Y EXCLUSIVA RESPONSABILIDAD DE 3M SERÁ LA REPARACIÓN O REEMPLAZO DEL PRODUCTO O DEVOLUCION DEL PRECIO DE COMPRA CONFORME A LA LEGISLACIÓN APLICABLE. 3M no será responsable de los posibles daños y perjuicios derivados del uso del producto, independientemente que sean directos, indirectos, especiales, consecuenciales, contractuales, o de cualquier otra naturaleza.



Departamento Técnico
3M México S.A. de C.V.
Av. Sta. Fe No. 190



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Fecha: Agosto 2018