Product data sheet
Characteristics

DXN10011
Canaleta Dexson de 100 x 45mm tira de 2m (precio por metro)-Blanco



Principal

Gama	Dexson
Tipo de producto o componente	Caminho
Presentación del dispositivo	With cover ((*))
Equipo suministrado	Without adhesive
Color	White

Complementos

Dimension canaleta	100 x 45 mm
Compartimiento	1 compartimiento
Fijación	Fijado mediante tornillo Adhesivo
Material	PVC (cloruro de polivinilo)
Longitud	2000 Mm
Ancho	100 Mm
Alto	45 Mm

Ambiente

Resistencia a las llamas	HB conforming to UL 94 Self-extinguishing
Normas	IEC 61084-2-1 UL 1595
Característica medioambiental	Lubricante resistente Resistencia al aceite Resistente al impacto
Grado IP	IP42

Packing Units

Paquete 1 Peso	1,753 Kg
Paquete 1 Altura	1,000 Mm
Paquete 1 ancho	1,000 Mm
Paquete 1 Largo	1,000 Mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Offer Sustainability

Estado de oferta sostenible	Producto Green Premium
Reglamento REACh	Declaración De REACh
Conforme con REACh sin SVHC	Sí
Directiva RoHS UE	Cumplimiento proactivo (producto fuera del alcance de la normativa-RoHS UE) Declaración RoHS UE
Sin metales pesados tóxicos	Sí
Sin mercurio	Sí
Información sobre exenciones de RoHS	Sí
Normativa de RoHS China	Declaración RoHS China
Comunicación ambiental	Perfil Ambiental Del Producto

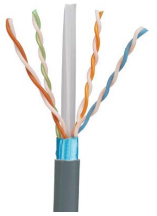
Product Life Status : Comercializado

TX6A™ 10Gig™ Shielded Copper Cable – F/UTP

PANDUIT®
SPECIFICATION SHEET

specifications

Category 6A cable shall be constructed of 23 AWG copper conductors with PE CM, CMR or LSZH insulation. The copper conductors shall be twisted in pairs and separated by an integrated pair separator. All four pairs shall be surrounded by an overall metallic foil shield within a low smoke zero halogen jacket. The TX6A™ 10Gig™ Shielded Copper Cable must be installed as part of a complete TX6A™ 10Gig™ Shielded Copper Cabling System to achieve 10GBASE-T certified performance.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E_A and ANSI/TIA-568.2-D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System Certified component performance up to 100 meters and meets or exceeds the component requirement of the ISO/IEC 11801 Category 6A and ANSI/TIA-568.2-D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems
Conductors/insulators:	23 AWG solid bare copper wire covered by PE insulation
Insulation diameter:	0.0415 in. - 0.044 in. (1.05mm - 1.12mm)
Flame rating:	LSZH: IEC 60332-3-22, IEC 60754-1, IEC 60754-2, IEC 601034-2, EN 50575: EuroClass Dca-s2,d2,a1 CM: UL 1685 CMR: UL 1666 CMP: NFPA 262
Standards compliance:	UL Listed CMP-LP 0.7A and CMR-LP 0.5A
Installation tension:	110 N (25 lbf) maximum
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Temperature rating:	-4°F to 167°F (-20°C to 75°C) Installation (Operation)
Cable jacket:	LSZH, CM, CMR, CMP
Cable diameter:	LSZH: 7.3mm (0.287 in.) nominal CM, CMR: 7.2mm (0.284 in.) nominal CMP: 7.5mm (0.296 in.) nominal
Cable weight:	LSZH: 16 kg/305m (35 lbs./1000 ft.) CM, CMR: 15 kg/305m (33 lbs./1000 ft.) CMP: 19kb/305m (42 lbs./1000 ft.)
Packaging:	LSZH: 18 kg/ 305m (40 lbs./1000 ft.) on a reel CM, CMR: 17 kg/ 305m (37 lbs./1000 ft.) on a reel CMP: 20 kg/305m (46 lbs./1000 ft.) Packaged tested to ISTA Procedure 1A

key features and benefits

Integrated pair divider	Separates pairs for exceptional cable performance
Overall foil shield	Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 500 MHz
Internal drain wire	Facilitates means of grounding the cable and provides for efficient performance and protection of network investment
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Bulk packaging	Supplied 305m (1000 ft.) to a reel

applications

TX6A™ 10Gig™ Shielded Copper Cable is a component of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost-effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. The shielded cabling system provides high performance, excellent EMI suppression, and aids in secure data transmission. The Panduit solution helps ensure organizations efficiently and reliably meet their data transmission needs. Usage of the TX6A™ 10Gig™ Shielded Copper Cabling System include high bandwidth applications within data centers and connections to high-end workstations such as:

- 10GBASE-T Ethernet
- Data Center applications
- Virtual business management applications

TX6A™ 10Gig™ Shielded Copper Cabling System	
TX6A™ 10Gig™ Shielded Copper Cable – F/UTP	
LSZH:	PFL6X04*-CEG
CM:	PFC6X04*-CEG
CMR:	PFR6X04*-CG
CMP:	PFP6X04*-UG
TX6A™ 10Gig™ Shielded Jack Module	
Jack Module:	CJS6X88TGY
TX6A™ 10Gig™ Shielded Patch Cords	
Meters:	STP6X**MIG
Feet:	STP6X***IG
Mini-Com® Angled All Metal Shielded Modular Patch Panels	
24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY
72-port, 2 RU:	CPA72BLY
Mini-Com® Flat All Metal Shielded Modular Patch Panels	
24-port, 1 RU:	CP24BLY
48-port, 2 RU:	CP48BLY
72-port, 2 RU:	CP72BLY
Cable Prep Tools	
Wire snipping tool:	CWST
Wire stripping tool:	CJAST

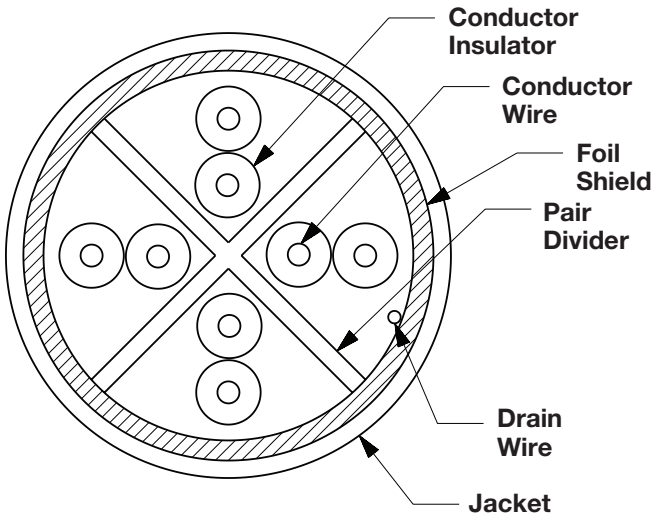
*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

**For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) to the end of the part number, For example, the part number for a blue, 15-meter patch cord is STP6X15MBU.

***For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X15BU.

TX6A™ 10Gig™ Shielded Copper Cable – F/UTP

	LSZH	CM	CMR	CMP
Mechanical Test				
Ultimate Breaking Strength	>400 N (90 lbf)			
Minimum Bend Radius	8 x cable diameter during installation 4 x cable diameter during operation			
Electrical Test				
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 kHz			
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz			
Nominal Velocity of Propagation (NVP)	63% nominal	65% nominal		70% nominal
DC Resistance	<9.38 Ohm per 100m (328 ft.)	<9.50 Ohm per 100m (328 ft.)	<7.32 Ohm per 100m (328 ft.)	8.9 Ohm per 100m (328 ft.)
DC Resistance Unbalance	<5%	<2%	<5%	<4%
Capacitance Unbalance	<330 pF per 100m (328 ft.)	<160 pF per 100m (328 ft.)	<330 pF per 100m (328 ft.) at 1 kHz (pair/ground)	<330 pF per 100m (328 ft.) at 1 kHz (pair/ground)
Maximum Operating Voltage	80V	80V	80V	80V



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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

PANDUIT®

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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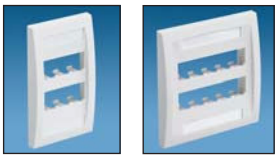
COSP297--WW-ENG
2/2020

Mini-Com® Executive Series Faceplates

- Accept Mini-Com® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Include label/label covers for easy port identification
- Raised rail design for aesthetic appeal



CFPE1IWY CFPE2IWY CFPE4IWY



CFPE6IWY CFPE10IW-2GY

Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPE1IWY	Single gang, vertical faceplate accepts one Mini-Com® Module.	Off White	1	10
CFPE2IWY	Single gang, vertical faceplate accepts two Mini-Com® Modules.	Off White	1	10
CFPE4IWY	Single gang, vertical faceplate accepts four Mini-Com® Modules.	Off White	1	10
CFPE6IWY	Single gang, vertical faceplate accepts six Mini-Com® Modules. Requires minimum 1.9" wide electrical box for proper mounting.	Off White	1	10
CFPE10IW-2GY	Double gang, vertical faceplate accepts ten Mini-Com® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

Component Labels for Mini-Com® Executive Series Faceplates



Suggested Label Solutions for TIA/EIA-606-A Compliance				
Faceplate Part Number	Laser/Ink Jet Desktop Printer Label	TDP43ME Thermal Transfer Desktop Printer Label	PanTher™ LS8E Hand-Held Printer Label	Cougar™ LS9 Hand-Held Printer Label
CFPE1**Y	C195X040Y1J	C195X040Y1T	C195X040Y1C	T038X000FJC-BK‡
CFPE2**Y				
CFPE4**Y				
CFPE6**Y				
CFPE10**-2GY	C288X040Y1J	C288X040Y1T	C288X040Y1C	T038X000FJC-BK‡

For complete labeling solutions and product information, reference charts on pages O.1 – O.22 of SA-NCCB51.
‡For non-adhesive labeling solution, do not remove liner from label.

Mini-Com® Sloped Executive Series Faceplate Kit

- Accepts Mini-Com® Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes
- Sloped inserts are front releasable
- Includes label/label covers for easy port identification
- Raised rail design for aesthetic appeal



Part Number	Part Description	Color‡	Std. Pkg. Qty.	Std. Ctn. Qty.
CFPSE4IWY	Single gang, vertical faceplate frame and two sloped inserts (two module spaces each). Accepts four Mini-Com® Modules.	Off White	1	10

‡For other colors replace suffix IW (Off White) with EI (Electric Ivory), WH (White), or IG (International Gray).
All faceplates supplied with mounting screws.

3933 US ROUTE 11, CORTLAND, NEW YORK 13045
Phone Number: 1-800-345-3851 Fax Number: 607-758-3648

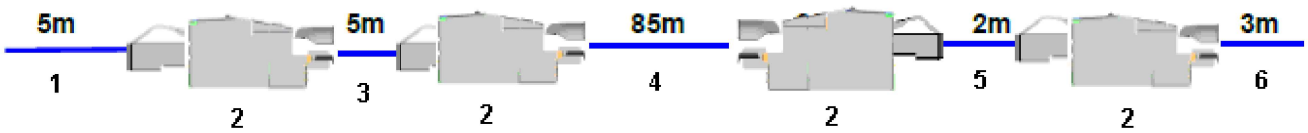
REPORT OF TEST

Panduit Corporation
10500 167th Street
Orland Park, IL 60467

The products described in this Report were tested for compliance to the standard(s) listed below. The products listed below are not part of an Intertek Verification Program and the results are provided to the client as a one time performance test.

Reference Intertek Report Nos.: 102062030CRT-001b **Date:** March 25, 2015

Test:
Electrical performance testing of a 4-connector channel configuration, as illustrated below, to the standard requirements of ISO/IEC 11801 for Class E_A channel



Component Id	Manufacturer	Description	Part number
1	Panduit	Patch Cord	STP6X5MBBL
2	Panduit	Outlet & Closet Hardware	CJS6X88TGY
3	Panduit	Zone Cord	SAJLWH5MBL
4	Panduit	F/UTP LSZH Horizontal (solid) Cable	PFZ6X04**
5	Panduit	Patch Cord	STP6X2MBBL
6	Panduit	Patch Cord	STP6X3MBIG

Standard and sections used:
ISO/IEC 11801 Information Technology - Generic cabling for customer premises, Second edition dated September 2002 including amendments up to Amendment 2, dated April 2010 (Sections 6.4.2 to 6.4.8 and 6.4.12 to 6.4.14.3)

Conclusion:
The channel cabling configuration, as described above, was tested in accordance with the ISO/IEC 11801 specification, and did comply with the indicated applicable transmission requirements. The channel was assembled by Intertek from samples that were submitted by the client. The testing was performed at Intertek located in Cortland, New York.

Reviewed and approved by:

John Cash
Associate Engineer
Global Cabling Products Testing

Antoine Pelletier
Project Engineer
Global Cabling Products Testing

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Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6A/Class E_A, 8-position, shielded jack module shall terminate 4-pair, 22 – 26 AWG, 100 ohm shielded twisted pair cable and shall not require use of a punchdown tool. Shielded jack modules shall use a forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The termination cap shall be color-coded blue to designate Category 6A performance and shall include a universal label coded for T568A and T568B wiring schemes. The Mini-Com® TX6A™ 10Gig™ Shielded Jack Module must be installed as part of the TX6A™ 10Gig™ Shielded Copper Cabling System to achieve IEEE 10GBASE-T certified performance.



technical information

Category 6A/Class E_A performance:	Exceeds ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A channel requirements for supporting 10GBASE-T transmission over twisted pair cabling systems in a 4-connector configuration up to 100 meters at swept frequencies 1 to 500 MHz Meets ANSI/TIA-568.2-D and ISO 11801 Category 6A component requirements at swept frequencies up to 500 MHz
FCC compliance:	Complies with ANSI/TIA-1096-A (formerly FCC Part 68); contacts plated with 50 microinches of gold
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-001
Operating temperature:	-10° C to 65° C (14° F to 149° F)
PoE compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4 for up to 100W
UL Listed:	UL 1863 (Use as communications circuit accessory) UL 2043 (Suitable for use in air-handling spaces)
RoHS compliance:	Compliant
Conductor termination range:	Standard wire cap compatible with 22 – 26 AWG solid or stranded cable with conductor insulation diameters of 0.060 in. max and overall cable O.D. 0.200 in. to 0.330 in.; Marine jack module wire cap compatible with 22 AWG solid or stranded cable with 0.071 in (1.80mm) maximum insulated conductor outside diameter cable

key features and benefits

100% performance tested	Confidence that each jack module will deliver the critical electrical performance requirements
Utilizes enhanced Giga-TX™ Technology	Optimizes performance by eliminating conductor untwist and reduces installation time and expense
Integral shield	Provides a 360° conductive path to ground shielded jack module with no additional assembly required
Snap in grounding	Shield provides seamless bonding of the jack module with Mini-Com® All Metal Modular Patch Panels
Modular	Shielded jack modules snap in and out of all Mini-Com® Faceplates, Metal Modular Patch Panels and Surface Mount Boxes for easy moves, adds, and changes
Individually serialized	Marked with quality control number for future traceability
Identification	Can be clearly identified with optional labels and icons for port identification
High density	Able to support 48 ports in 1 RU density
Shuttered version (optional):	Integrated spring shuttered door keeps out dust and debris of un-mated RJ45 jack modules automatically
Marine compatible version available	Terminates to TX7000™ Shielded MUD-Resistant Marine Copper Cable (S/FTP), which includes a durable flame-, oil-, UV- and MUD-resistant cable jacket; ideal for use in harsh environments encountered in marine applications including ship and offshore/onshore units
Termination tools (optional)	EGJT-1 termination tool ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability; TGJT termination tool ideal for high volume installations
Block out device (optional)	Provides a simple and secure method to control access to data ports while not in use
Grounding availability	Able to ground anywhere. For grounding shielded jack modules not installed in a Mini-Com® All Metal Modular Patch Panel, use the shielded jack module grounding kit, part number CJSGK-XY

applications

Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules are a component of the TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. This shielded system provides high performance, excellent EMI suppression and aids in secure data transmission. The Panduit solution helps ensure organizations efficiently and reliably meet their data transmission needs. With certified performance to the ISO 11801 Class E_A, IEEE 802.3an-2006 and ANSI/TIA-568.2-D Category 6A standards, this system will support high bandwidth applications with data centers and connections to high end workstations such as stacking switches and switch-to-switch links, storage area networks, aggregation of Gigabit Ethernet channels, real-time intensive financial transactions, streaming video, animation, scientific modeling and medical imaging.

Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules	
Jack module:	CJS6X88TG*Y
Spring-shuttered jack module:	CJSH6X88TG**Y
Marine jack module:	CJSM6X88TGY
Tools and Accessories	
Jack module termination tool:	EGJT-1 or TGJT
Wire snipping tool:	CWST
Wire stripping tool:	CJAST
Clear dust cap:	MDC-C
Grounding kit:	CJSGK-XY
Block out device:	PSL-DCJB-^^^
Phone icons:	CIPIW-C++
Data icons:	CIDIW-C++

*To designate color, add BU (Blue), RD (Red), WH (White), YL (Yellow), GR (Green) or VL (Violet). For part number CJS6X88TGY (no designation), the color is black.

**To designate color, add BU (Blue), RD (Red) YL (Yellow), GR (Green) or VL (Violet). For part number CJSH688TGY (no designation), the color is black.

^^^To designate color other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), GR (Green), OR (Orange), IW (Off White), or IG (International Gray) at the end of the part number. 10/package.

++To designate color other than IW (Off White), replace IW with EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) in the part number. 100/package.

Contact customer service for bulk packaged and/or keyed jack modules.

Panduit recommends installing shielded jack modules in Mini-Com® All Metal Modular Patch Panels.

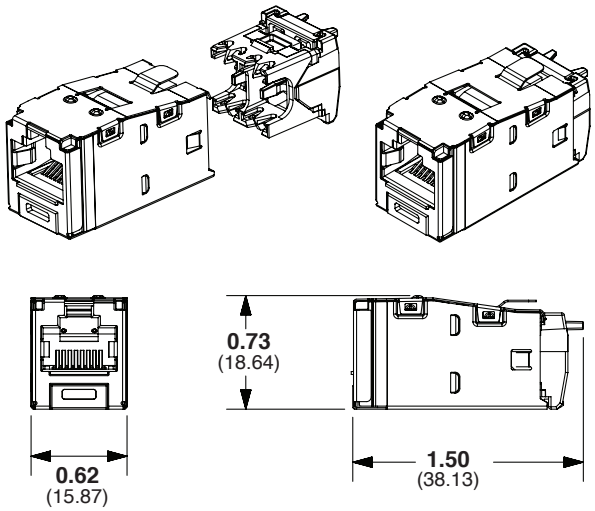
For grounding shielded jack modules not installed in a Mini-Com® All Metal Modular Patch Panel, use the shielded jack module grounding kit, part number CJSGK-XY.

Mini-Com® TX6A™ 10Gig™ Shielded Jack Modules

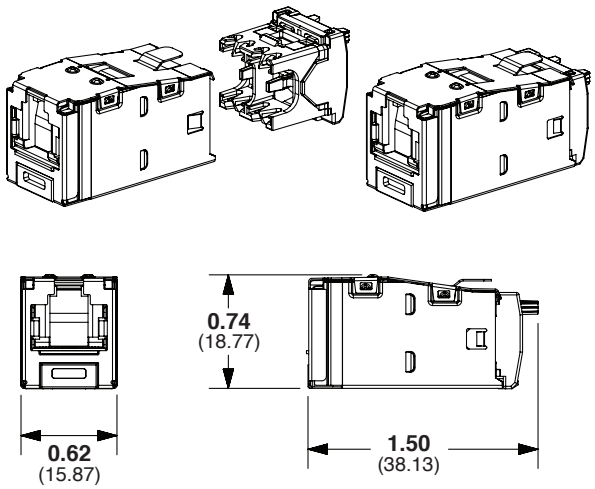
Test Results

Mechanical Test	Test Method	Measurement	Test Results
Normal Force	–	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	< 40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	< 5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	< 40
Mating/Un-mating	IEC 512-3b	Mating Force (N)	< 20
		Un-mating Force (N)	< 20
Termination Cycles	IEC 352	Number of Cycles	> 20
Mating Cycles	IEC 60603-7	Number of Plug Insertions	> 2500
Electrical Test	**Test Method**	**Measurement**	**Test Results**
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	< 20
Dielectric Withstand Voltage	IEC 512-4a	1000 VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	> 500
Electrical Test	**Test Method**	**Measurement**	**Test Results**
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	< 40
Humidity	IEC 512-11c	Circuit Resistance (mOhms)	< 40
Thermal Shock	IEC 512-11d	Circuit Resistance (mOhms)	< 40
Climatic Sequence	IEC 512-11a	Circuit Resistance (mOhms)	< 40
Flowing Mixed Gas Corrosion	IEC 512-11g	Circuit Resistance (mOhms)	< 40

Shielded Jack Module



Spring-Shuttered Shielded Jack Module



Dimensions are in inches (Dimensions in parenthesis are metric)

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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

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COSP230--WW-ENG
1/2021

Panduit TX6A™ 10Gig™ COPPER CABLING SYSTEM TESTING PROCEDURES PN524B

Introduction

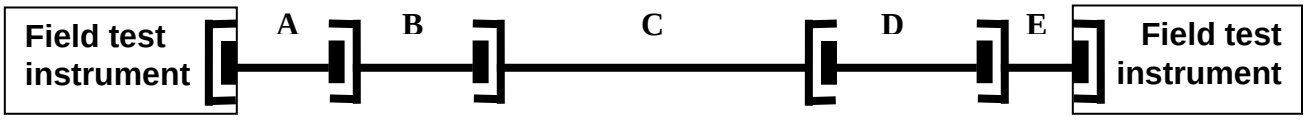
Copper cabling transmission performance depends on cable characteristics, connecting hardware, patch cords and cross-connect wiring, the total number of connections, and the care with which they are installed and maintained. To qualify for a Panduit System Warranty, post-installation performance testing must be done using Panduit approved field test instruments to verify that the installed cabling will meet or exceed the performance requirements of the designated classification defined in the Commercial Building Telecommunication Standards. These standards based test results should then be submitted to the Panduit Warranty Department for review.

Panduit offers warranty on the TX6A™ 10Gig™ Copper Cabling System for the current standards, or ANSI/TIA-568-C.2 to channel, or ISO 11801 Amendment 1 Class E_A Ch AMD1.

Channel Test Configuration

The channel test configuration is to be used by system designers and users of data communications systems to verify the performance of the overall channel. Channel performance is the most critical to the end user, as this is how their network will perform. The TX6A™ 10Gig™ channel includes up to 90 m (295 ft.) of horizontal cable, a work area equipment cord, a telecommunications outlet/connector, an optional transition/consolidation connector, and two connections in the telecommunications room. The TX6A-SD™ 10Gig™ channel includes up to 60 m (195 ft.) of horizontal cable, a work area equipment cord, a telecommunications outlet/connector, an optional transition/consolidation connector, and two connections in the telecommunications room. TIA/EIA recommends and ISO requires that the consolidation point be located at least 5 m (16.4 ft.) from the telecommunications room to reduce the effect of multiple connections in close proximity on NEXT loss and return loss. Per the TIA standard, the total length of equipment cords, patch cords or jumpers and work area cords shall not be more than 10 m (32.8 ft.). If total patch cords are longer than 10 meters, the entire channel length must be de-rated by the length exceeding 10 meters depending either by 20% or 50% depending on the patch cord cable type used. The connections to the equipment at each end of the channel are not included in the channel definition. The channel definition does not apply to those cases where the horizontal cabling is cross-connected to the backbone cabling. A schematic representation of a channel can be found below.

ANSI/TIA-568-C.2



Work Area Outlet

Optional Consolidation point

Horizontal Cross-connect or Interconnect

TX6A™ 10Gig™ Maximum length
B + C = 90 m (295 ft.)
A + D + E = 10 m (32.8 ft.)

TX6A-SD™ 10Gig™ Maximum length
B + C = 60 m (195 ft.)
A + D + E = 10 m (32.8 ft.)

For Technical Support: www.panduit.com/resources/install_maintain.asp

Panduit System Warranty

Panduit has different types of warranties. These include the Certification Plus™ System Warranty and the Pan-Net™ Performance Guarantee. Each warranty is standards based. Panduit will typically provide a system warranty in the following way:

Channel Warranty is based on passing channel test results. (It is recommended to keep the patch cords installed after testing as there may be variations between patch cords)

As stated previously, passing test results must be obtained using an approved field test instrument. Panduit Corp. places each handheld test instrument thru an evaluation before approving it for use in the field. This ensures the integrity of the test data submitted for warranty.

Current field testers approved for 10Gig/Category 6A:

- Fluke DTX-1800
- Agilent Wirescope Pro N2640A
- JDSU Certifier 40G

Testing Required for ANSI/TIA Category 6A Channel Operation Warranty

Panduit requires that internal channel performance be verified for each link to obtain the warranty. Panduit does not require that field alien crosstalk testing be performed, as the TX6A™ 10Gig™ Copper Cabling System has been thoroughly lab tested and verified to meet alien crosstalk requirements under worse case conditions of 6-around-1 tightly bundled configuration. The customer may wish to perform optional alien testing and this procedure is included for reference.

Fluke DTX-1800 Series Digital Cable Analyzer

Panduit has evaluated the Fluke DTX-1800 Series Digital Cable Analyzer and approves the use of this tester for the certification of installed 10Gig cabling channels. In order to verify that the installed cabling will meet or exceed the performance requirements of the designated classification defined in the ANSI/TIA Category 6A Standard, it is important that the following steps are followed.

Channel Testing

1) Verify that your DTX-1800 Series tester has the most up-to-date software (software version 2.24 or better is required). The latest software updates can be found on the Fluke website at:

http://www.flukenetworks.com/fnet/en-us/supportAndDownloads/downloadsAndUpdates/?pid=50004

2) Perform a Set Reference procedure in the special functions prior to testing. Fluke Networks recommends that a Set Reference procedure be performed every 30 days to ensure the maximum accuracy of the test results.



For detailed instructions on Set Reference procedure, refer to Fluke Network's *DTX-1800 Series User Manual* page 20, on "Setting the Reference for Twisted Pair Cabling". The link for the User's Manual is:

http://www.flukenetworks.com

Note: Fluke Networks also recommends factory calibration once a year to ensure that the test tool meets or exceeds the published accuracy specifications.

3) Select the Fluke Channel Adapter (# DTX-CHA002) and attach them to the DTX-1800 Series Main and Remote unit.



4) Turn the main function dial from 'Autotest' one step clockwise to the setting entitled 'Setup'.

5) Under Twisted Pair, set the appropriate Standard Limit to apply different standards,

Select from the following Fluke Test Limits, for which warranty is desired:

- **TIA Cat 6A Channel**
- **ISO11801 Channel Class E_A**

Note – this is the only step that has to be carried out differently for S/FTP cabling from the steps that would be required for testing of a UTP solution

6) In the scroll down menu, click onto 'Cable Type', select and click Cat 6A. Scroll down to, Cat 6A FTP and click, and then Shield Test – Enable. This option will ensure that the continuity of the shielding is verified end to end for the complete channel.

   Scroll to manufacturer and select accordingly, Scroll to outlet configuration (T568A or B) for your test. Under tab 2 enable HDTDX/HDTDR for all tests.

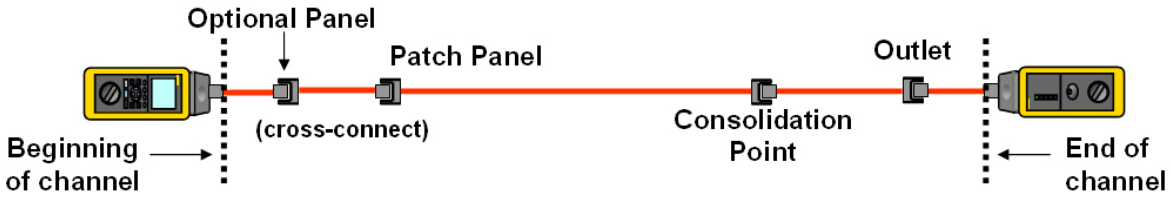
   Under Instrument Settings tab 1, set Store Plot Data to Extended. Under tab 2, enter operator site and company info. Under tab 3 make sure Date and time are set correctly.

   Set the main function dial back to Autotest

7) For channel testing, install all patch cords prior to testing.

   Note: Panduit recommends for installers to install and test a few channels before completing the entire system.

8) Begin testing your installed channels with the Fluke DTX-1800 Series Digital Cable Analyzer and save all test results.



9) Troubleshoot and repair any failing channels. Channels resulting in a PASS* are considered a PASS and will be acceptable for warranty.

   Note: The Fluke HDTDX analyzer and HDTDR test are very helpful when troubleshooting failing channels. Both can be found on the SINGLE TEST menu and will also run automatically when a failure occurs. Also make sure that Store Plot Data is set to Extended under Setup/Instrument settings.

10) Submit electronic channel test reports to the Panduit Warranty Department with all required warranty paperwork. A channel warranty will then be given based on passing test results.

    Note: Panduit recommends for installers to install and test a few channels before completing the entire system.

Alien Crosstalk Testing (Optional)

Alien Crosstalk testing is not needed for shielded cable systems. For UTP systems, Alien Crosstalk testing can be done with the Fluke DTX1800 using part# DTX-10GKIT (recommended).



The Alien Test Kit contains the following items:

- DTX-PLA002 Permanent Link adapters
- AxTALK Analyzer Software- (software version 3.0 or newer is required). The latest software updates can be found on the Fluke website at: http://www.flukenetworks.com/fnet/en-us/supportAndDownloads/downloadsAndUpdates/?pid=50004
- DTX-ATERM Link Terminators (2)
- RJ45 to RJ45 Couplers (2) for channel testing
- DTX- CHA002 channel test heads
- DTX-AXTK1 (2) Alien Crosstalk Modules

Items needed in addition to the kit:

- Patch cords (2)
- Laptop computer

Process description:

1. Determine bundles and cables to test:

    - Select the longest and shortest links
    - Apply rules for TIA 568-C.2

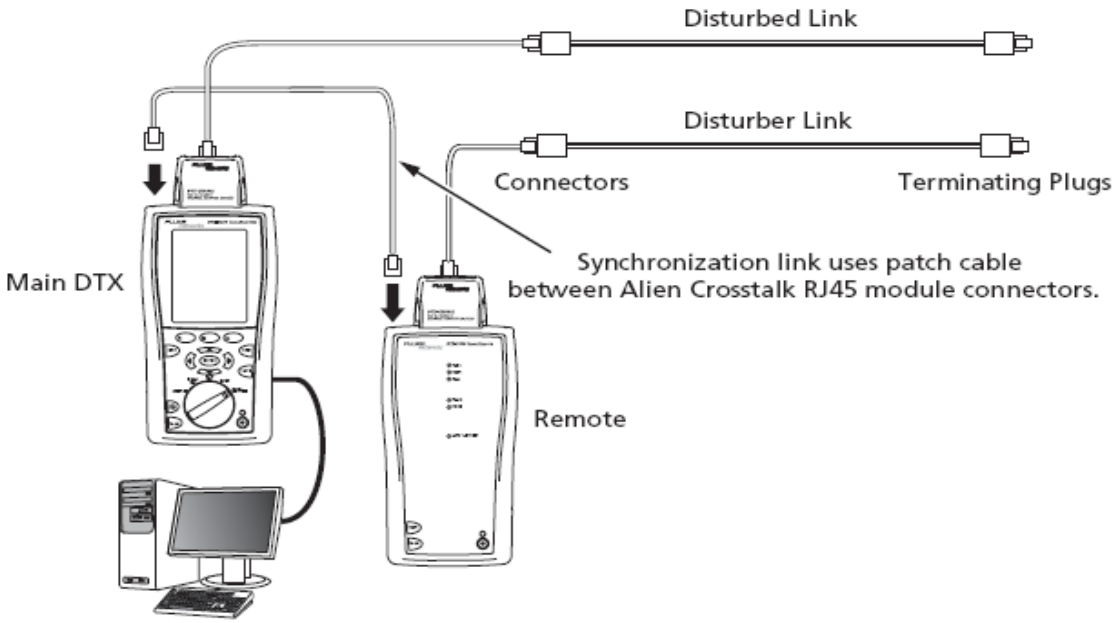
2. For alien testing, Fluke recommends performing a Set Reference at least once a day.

3. Perform permanent link internal testing to the appropriate standard and save all internals of the bundle under test to a separate folder. All links must pass internals.

4. Open the AxTalk Analyzer application and click on the new icon to start a new victim file. Browse for the folder containing the bundle internal tests. Select the file to be used as the victim link. By saving, the application will automatically title as the victim file as titled from the internal file selected.

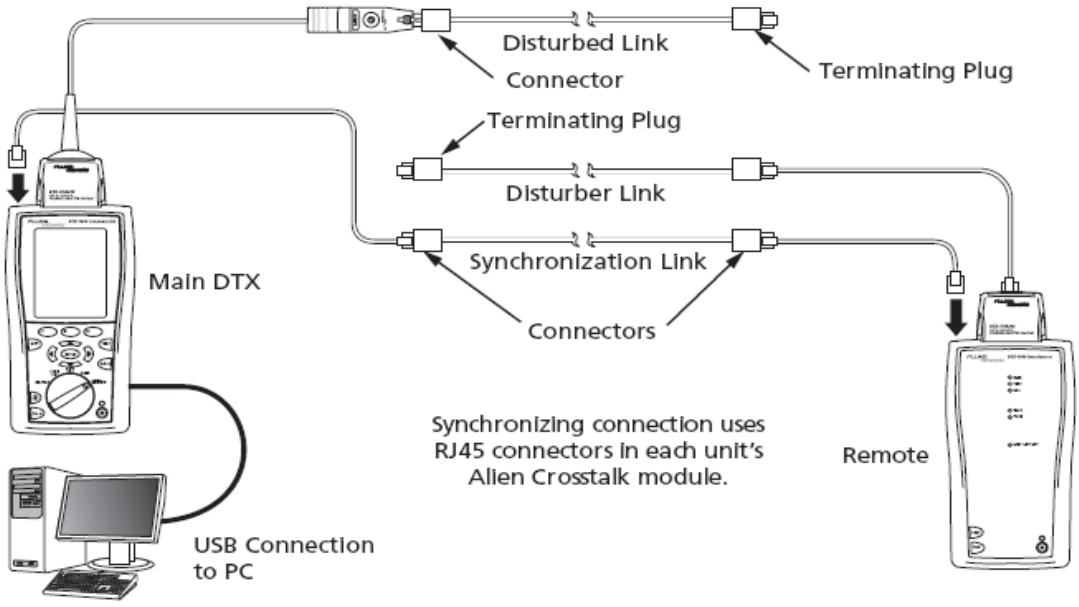
5. Select the appropriate standard from the test limit menu.

6. Select end 1 and PSANEXT from the radio buttons. Run test and follow the directions. Connect the main and remote as shown below. The Main will always be the victim and the Remote the disturber. For PSANEXT both units are on the same end and the opposite end will have terminated plugs. Run a separate disturber test for each non-victim link of the bundle for end 1, while making the appropriate connection changes. This involves moving the remote and termination plug to the next disturber.



7. When finished select end 2 and repeat.

8. When finished, select PSAACR-F. Repeat as for PSANEXT but now the main and remote units will be on opposite ends as shown below. If the patch cord is not long enough, use 2 patch cords and a separate link as the synchronization link.



9. When finished, select end 2 and repeat.

Pass/fail determination:

- Any single failure of any pair will result in an overall fail.

For additional information, see Alien Crosstalk User Manual located under the help tab in the AxTalk Analyzer application.

For Technical Support: *www.panduit.com/resources/install_maintain.asp*

Approved Test Leads For Panduit ® Mini-Com® TX6A™ 10Gig™ and TX6A-SD™ 10Gig™ UTP Jack Modules and DP6A™ 10Gig™ Patch Panels							
Channel							
	Firmware Version	**Software Version**	**Calibration Equipment**	**Autotest**	**Test Leads**	**Personality Module**	**Comments**
Fluke: Networks DTX-1800 Series Cable Analyzer Fluke Networks Website	Software: V2.24 or later	Linkware Software V6.0 or later	-	TIA Cat6A Channel	Part # DTX-CHA002 Cat6A / Class E Channel Adapter	N/A	1. Consult Fluke Networks' website for the latest Firmware and Software Version. 2. It is **STRONGLY RECOMMENDED** that the tester is calibrated prior to testing
Agilent: WireScope Pro N2640A Agilent Technologies Website	WireScope Pro Software 3.0.53 or later	WireScope Pro (ScopeData Pro II) Software 3.0.53 or later	-	Cat6A: Channel	Part # N2644A-100 Universal Cat6A Channel SmartProbe	N/A	1. Consult Agilent's website for the latest Software Version. 2. Calibration with the Precision Calibration is **STRONGLY RECOMMENDED**. 3. Tester holds last calibration. Tester must be recalibrated if using a different DualRemote, upgrading the software, when transitioning from Cat7/Class F copper cable test to Cat6A/Class E or lower performance categories, or after 30 days. 4. Universal Cat6A Channel SmartProbes should be in optimal condition. See owner's manual.
JDSU: Certifier40G JDSU Website	V 3.91 or later	Reporter 3.6 or later	-	Channel testing for Cat6A/Class EA	NGC-4500-6ACH2-pair of Cat6A channel adapters	N/A	1. Consult JDSU's website for the latest Firmware and Software Version. 2. It is **STRONGLY RECOMMENDED** that the tester is calibrated prior to testing.

Appendix A
Standards Limits

TIA Category 6A Channel

Freq. (MHz)	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)	ACR-F (dB)	PS ACR-F (dB)	ACR-N (dB)	PSACR-N (dB)
1	3	65.0	62.0	19.0	63.3	60.3		
4	4.2	63.0	60.5	19.0	51.2	48.2		
8	5.8	58.2	55.6	19.0	45.2	42.2		
10	6.5	56.6	54.0	19.0	43.3	40.3		
16	8.2	53.2	50.6	18.0	39.2	36.2		
20	9.2	51.6	49.0	17.5	37.2	34.2		
25	10.2	50.0	47.3	17.0	35.3	32.3		
31.25	11.5	48.4	45.7	16.5	33.4	30.4		
62.5	16.4	43.4	40.6	14.0	27.3	24.3		
100	20.9	39.9	37.1	12.0	23.3	20.3		
200	30.1	34.8	31.9	9.0	17.2	14.2		
250	33.9	33.1	30.2	8.0	15.3	12.3		
350	40.6	30.3	27.3	6.6	12.4	9.4		
500	49.3	26.1	23.2	6.0	9.3	6.3		

ISO Class E_A Ch AMD1

Freq. (MHz)	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)	ACR-F (dB)	PS ACR-F (dB)	ACR-N (dB)	PSACR-N (dB)
1	4	65.0	62.0	19.0	63.3	60.3	61	58.0
4	4.2	63.0	60.5	19.0	51.2	48.2	58.9	56.4
8	5.8	58.2	55.6	19.0	45.2	42.2	52.4	49.8
10	6.5	56.6	54.0	19.0	43.3	40.3	50.1	47.5
16	8.2	53.2	50.6	18.0	39.2	36.2	45.0	42.4
20	9.2	51.6	49.0	17.5	37.2	34.2	42.5	39.8
25	10.2	50.0	47.3	17.0	35.3	32.3	39.8	37.1
31.25	11.5	48.4	45.7	16.5	33.4	30.4	36.9	34.2
62.5	16.4	43.4	40.6	14.0	27.3	24.3	28.0	24.2
100	20.9	39.9	37.1	12.0	23.3	20.3	19.0	16.2
200	30.1	34.8	31.9	9.0	17.2	14.2	4.7	1.8
250	33.9	33.1	30.2	8.0	15.3	12.3	-0.8	-3.7
350	40.6	30.6	27.6	6.6	12.4	9.4	-10.0	-13.0
500	49.3	27.9	24.8	6.0	9.3	6.3	-21.4	-24.5

Panduit TX6A™ 10Gig™ Copper Cabling System Product List

Part Number	Description
Jack Modules	
CJ6X88TG**	Mini-Com® TX6A™ 10Gig™ UTP Jack Module
CJS6X88TGY	Mini-Com® TX6A™ 10Gig™ Shielded Jack Module
Cable	
PUR6A04**	TX6A™ 10Gig™ CMR UTP Copper Cable
PUR6ASD04**	TX6A-SD™ 10Gig™ CMR UTP Copper Cable
PUP6A04**	TX6A™ 10Gig™ CMP UTP Copper Cable
PUP6ASD04**	TX6A-SD™ 10Gig™ CMP UTP Copper Cable
PUL6A04**	TX6A™ 10Gig™ LSZH UTP Copper Cable
PUL6ASD04**	TX6A-SD™ 10Gig™ LSZH UTP Copper Cable
PUZ6A04**	TX6A™ 10Gig™ LSZH (IEC 60332-3) UTP Copper Cable
PUZ6ASD04**	TX6A-SD™ 10Gig™ LSZH (IEC 60332-3) UTP Copper Cable
PUC6A04**	TX6A™ 10Gig™ CM UTP Copper Cable
PUC6ASD04**	TX6A-SD™ 10Gig™ CM UTP Copper Cable
PUFR6X04**	TX6™ 10Gig™ CMR U/FTP Copper Cable
PUFP6X04**	TX6™ 10Gig™ CMP U/FTP Copper Cable
PUFL6X04**	TX6™ 10Gig™ LSZH U/FTP Copper Cable
PFR6X04**	TX6™ 10Gig™ CMR F/UTP Copper Cable
PFP6X04**	TX6™ 10Gig™ CMP F/UTP Copper Cable
PFL6X04**	TX6™ 10Gig™ LSZH F/UTP Copper Cable
PFC6X04**	TX6™ 10Gig™ CM F/UTP Copper Cable
PSL7004**	TX6™ 10Gig™ LSZH S/STP Category 7 Copper Cable
Patch Cords	
UTP6X**Y	TX6™ 10Gig™ UTP Patch Cords
UTP6A**	TX6A™ 10Gig™ UTP Patch Cords
UTP6ASD**	TX6A-SD™ 10Gig™ UTP Patch Cords
STP6X**	TX6™ 10Gig™ STP Patch Cords
Data patch Panels	
DP**6X88TGY	DP6™ 10Gig™ Modular Punchdown Patch Panel
DPA**6X88TGY	DP6™ 10Gig™ Angled Modular Punchdown Patch Panel
Modular Panels	
CPPL**WBLY	Mini-Com® Modular Faceplate Patch Panels
CPPL**M6BLY	Mini-Com® M6 Style Modular Faceplate Patch Panels
CPPLA**WBLY	Mini-Com® Angled Modular Faceplate Patch Panels
CP**BLY	Mini-Com® All Metal Shielded Modular Patch Panels
CPPL**WRBLY	Mini-Com® Recessed Modular Faceplate Patch Panels
CPP**FMWBLY	Mini-Com® Flush Mount Modular Patch Panels
CPPA**FMWBLY	Mini-Com® Angled Flush Mount Modular Patch Panels

For Technical Support: *www.panduit.com/resources/install_maintain.asp*

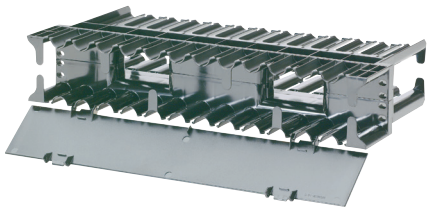
NetManager™ Horizontal Cable Managers

PANDUIT®

SPECIFICATION SHEET

specifications

Horizontal cable managers shall be capable of managing copper or fiber cables. They shall be molded out of plastic and incorporate bend radius control throughout the fingers, pass through holes, and transitions between horizontal and vertical pathways. Front hinged cover shall open 180° in up or down position. They shall mount to any standard EIA 19" rack.



technical information

Dimensions:

Part Number	Height in (mm)	Width in (mm)	Depth in (mm)
NCMH2	3.47 (88.1)	19.0 (482.6)	9.75 (247.7)
NCMHF2	3.47 (88.1)	19.0 (482.6)	3.75 (95.3)
NCMHF1	1.72 (43.7)	19.0 (482.6)	3.75 (95.3)

Mounting options:	Mounts to standard EIA 19" rack or 23" rack with optional extender bracket
Packaging:	Cable management panels include hinged front cover, snap-on rear cover, and mounting hardware
Finger spacing:	3/8" spacing between fingers
Bend radius control:	1/2" bend radius for fingers, transitions, and pass throughs on front 3/8" bend radius for fingers on rear

key features and benefits

Integral bend radius	Maintains cable bend radii in all cable pathways for high performance copper and fiber applications
Curved fingers	Separates and organizes Category 5e and Category 6 cable for simple moves, adds, and changes
Cable pass through holes	Provides ease of installation and cable maintenance
Integral wire retainers	Holds cable in place for easy moves, adds, and changes
Lightweight plastic construction	Provides durability and easy installation
Hinged front cover	Opens 180° up or down to allow hands-free access to cable

applications

Designed for Category 5e, Category 6, and fiber cables, the Panduit® NetManager™ Horizontal Cable Managers provide a cost effective solution that organizes, manages, and protects network cabling in telecommunication rooms and data centers. Finger spacing organizes cable as they exit the patch panel and bend radius control helps protect cable from kinks, snags, and crushing, ensuring system performance and reliability. When used with Panduit® Mini-Com® or QuickNet® Patch Panels, Panduit patch cords, vertical managers, and racks, the user receives a complete end-to-end solution that satisfies functional requirements and showcases the network cabling.

2 RU Managers

Front and rear:	NCMH2
Front only:	NCMHF2

1 RU Manager

Front only:	NCMHF1

Accessories

Extender bracket, 1 RU:	PEB1
Extender bracket, 2 RU: (for 23" rack mounting)	PEB2

Standard 2 Post Racks

3" channel	
8'H x 19"W:	R2P96
6.5'H x 19"W:	R2P79
7'H x 19"W:	R2P
4'H x 19"W:	R2P48
7'H x 23"W:	R2PW
6" channel	
7'H x 19"W:	R2P6S

4 Post Racks, 19" Mount – 7 Foot

23" deep:	R4P23*^
30" deep:	R4P*^
36" deep:	R4P36*^
42" deep:	R4P42*^

NetRunner™ Vertical Cable Managers

Front and rear	
22 RU, 4" x 5":	WMPV22E
45 RU, 4" x 5":	WMPV45E
45 RU, 6" x 6":	WMPVHC45E
Front only	
22 RU, 4" x 5":	WMPVF22E
45 RU, 4" x 5":	WMPVF45E
45 RU, 6" x 6":	WMPVHCF45E

NetRunner™ High Capacity Vertical Cable Managers

Front and rear	
45 RU, 6" x 6":	NRV6
45 RU, 10" x 6":	NRV10
45 RU, 12" x 6":	NRV12
Front only	
45 RU, 6" x 6":	NRVF6
45 RU, 10" x 6":	NRVF10
45 RU, 12" x 6":	NRVF12
Doors	
6" wide:	NRD6B1
10" wide:	NRD10B1
12" wide:	NRD12B1

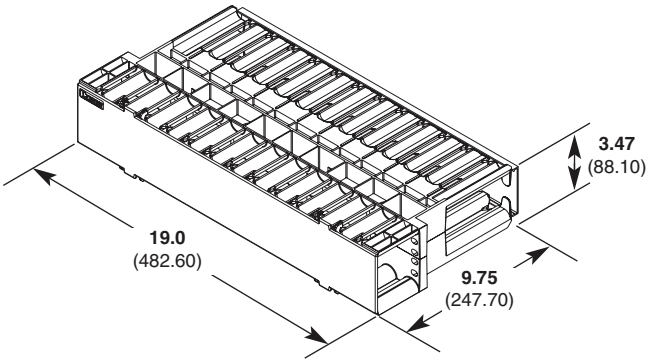
PatchRunner™ 2 Vertical Cable Managers with Doors - 7 Foot

Front and rear	
45 RU 6" wide:	PR2VD06^
45 RU 8" wide:	PR2VD08^
45 RU 10" wide:	PR2VD10^
45 RU 12" wide:	PR2VD12^
Front only	
45 RU 6" wide:	PR2VFD06^
45 RU 8" wide:	PR2VFD08^
45 RU 10" wide:	PR2VFD10^
45 RU 12" wide:	PR2VFD12^

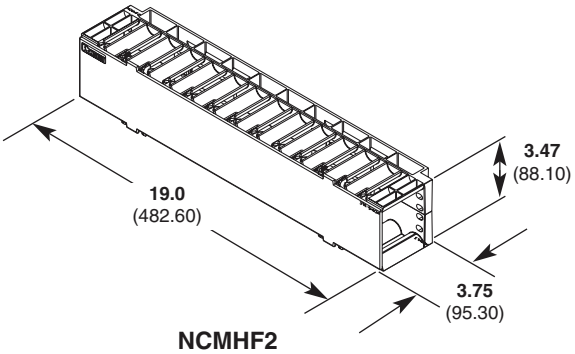
^Add suffix 96 to the end of the part number for 8 foot versions.

*Add "CN" for Cage Nut Rails

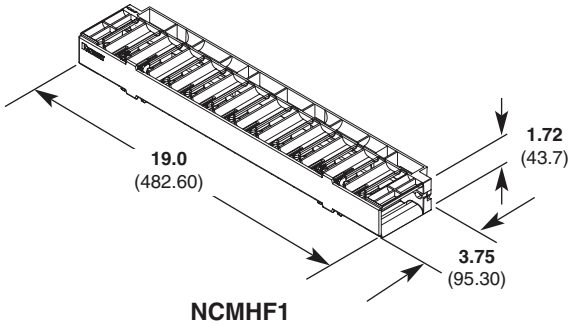
NetManager™ Horizontal Cable Managers



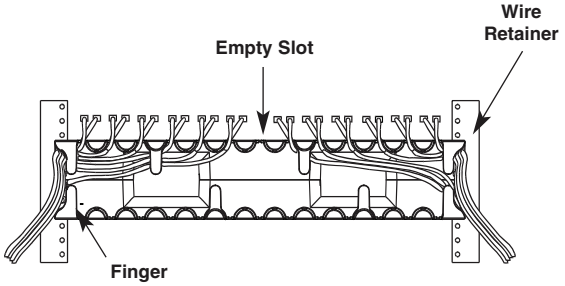
NCMH2



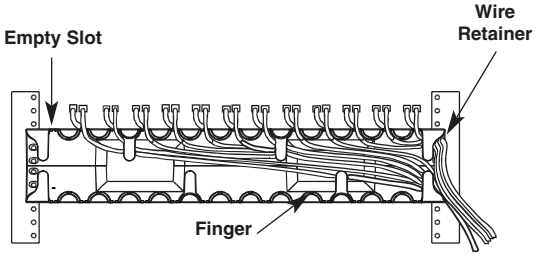
NCMHF2



NCMHF1



Method 1



Method 2

NOTE: For optimal routing of patch cords left and right of manager, leave middle slot empty.

Dimensions are in inches. [Dimensions in parenthesis are metric].

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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cs-aus@panduit.com
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300

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6/2018

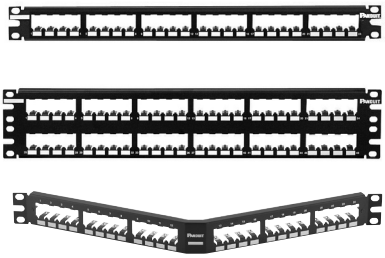
Mini-Com® All Metal Shielded Modular Patch Panels

PANDUIT®

SPECIFICATION SHEET

specifications

All metal modular patch panels shall be made of stainless steel and mount to standard racks and cabinets. All metal patch panels shall accept all Mini-Com® Shielded Jack Modules for shielded installations. Patch panel write-on areas and optional adhesive labels shall identify each port and panel. Angled all metal modular patch panels shall be available in standard density 24 and 48-ports. Flat all metal modular patch panels shall be available in standard density 24 and 48-ports. Flat design in 24 and 48-ports shall also be available with built-in strain relief bar with unique features to support individual cables.



technical information

Mounting option:	Mounts to standard EIA 19" rack, or 23" rack when used with extender brackets (PEB1 or PEB2) or cabinet
Packaging:	Includes mounting screws (#12-24) and CPT tool for easy removal of Mini-Com® Modules
Material:	Stainless steel

key features and benefits

Modular	Mini-Com® Shielded Jack Modules snap in and out of all Mini-Com® All Metal Shielded Modular Patch Panels for easy moves, adds, and changes
Identification	Dedicated areas allow for port and panel identification with optional adhesive labels
Built-in strain relief bar	Secures individual cables and provides proper cable support (CP24WSBLY and CP48WSBLY)
Patented angled design	Allows cable to flow to each side of the rack and minimizes the need for horizontal cable managers; increase risk and closet density
Strain relief bars (optional)	Different styles available to help manage and route rear cables
Angled filler panels (optional)	Reserves space for future use and promotes proper airflow and cooling
Color options	Select styles available in White: standard color is Black

applications

Mini-Com® All Metal Shielded Modular Patch Panels and Mini-Com® Shielded Jack Modules are ideal for use in shielded cabling installations. Angled patch panels minimize the use of horizontal cable managers by allowing the cables to flow directly into vertical cable managers, thus increasing rack density. Selected flat patch panels include a built-in strain relief bar that offers integrated cable tie slots and a 1.46" surface to manage and support individual cables. Mini-Com® Shielded Jack Modules bond to the panel when snapped into a Mini-Com® All Metal Shielded Modular Patch Panel. When installing the patch panel on the rack, the use of patent-pending thread-forming bonding screws bond the shielded panel to the rack. The combination of all-metal patch panels, shielded jack modules and accessories provide a properly grounded system.

Angled Shielded Patch Panels

Black	
24-port, 1 RU:	CPA24BLY
48-port, 2 RU:	CPA48BLY
White	
24-port, 1 RU:	CPA24WH
48-port, 2 RU:	CPA48WH

Flat Shielded Patch Panels

Black	
24-port, 1 RU:	CP24BLY
48-port, 2 RU:	CP48BLY
White	
24-port, 1 RU:	CP24WH
48-port, 2 RU:	CP48WH

Flat Shielded Patch Panels with Strain Relief Bar

Black	
24-port, 1 RU:	CP24WSBLY
48-port, 2 RU:	CP48WSBLY

Mini-Com® Shielded Jack Modules

Category 6A:	CJS6X88TGY
Category 6:	CJS688TGY
Category 5e:	CJS5E88TGY

Patch Panel Accessories

Black	
1 RU angled:	CPAF1BLY
2 RU angled:	CPAF2BLY
1 RU flat:	DPFP1
2 RU flat:	DPFP2
White	
1 RU angled:	CPAF1WH
2 RU angled:	CPAF2WH
1 RU flat:	DPFP1WH
2 RU flat:	DPFP2WH
Transitional covers	
Black:	CPATCBL
White:	CPATCWH

Strain Relief Bars and Accessories

Strain relief bar with clips:	SRBWCY
Strain relief bar (straight):	SRBS19BL-XY
Strain relief bar (U-shaped):	SRB19BLY
High-density strain relief bar manager:	SRBM19BLY
Strain relief bar brackets:	SRBBRKT

Bonding Screws

#12-24 English:	RGTBS-C
M6 Metric:	RGTBSM6-C

Thread-Forming Kits

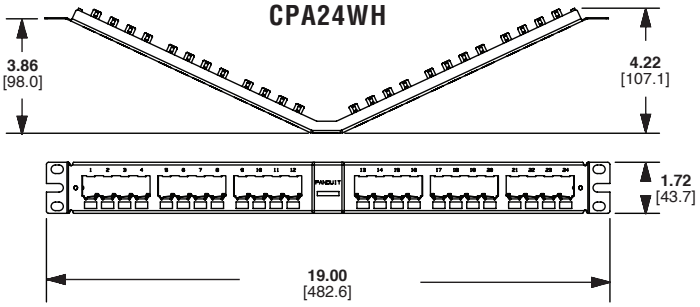
#12-24 English:	RGTBSG
M6 Metric:	RGTBSM6G

Mini-Com® All Metal Shielded Modular Patch Panels

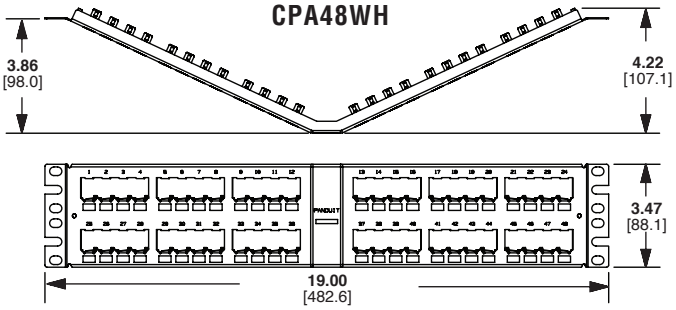
label chart

Part Number	Label Type	Laser/Ink	LS8	Thermal
CPA24BLY	Adhesive	C252X030FJJ	C252X030FJC	C252X030YPT
CPA24WH				
CPA48BLY				
CPA48WH				
CP24BLY				
CP24WH				
CP48BLY				
CP24WSBLY				

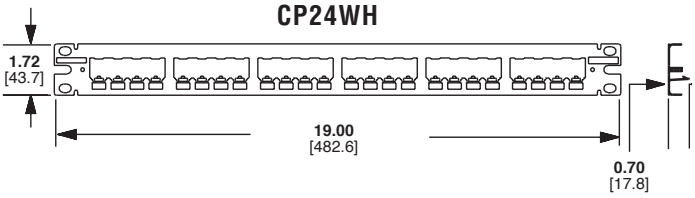
CPA24BLY
CPA24WH



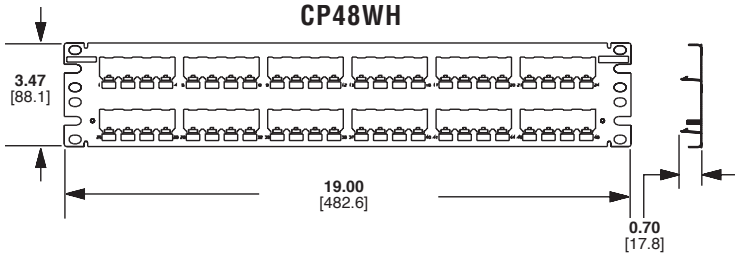
CPA48BLY
CPA48WH



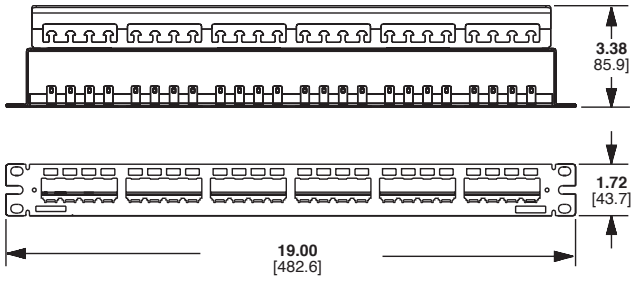
CP24BLY
CP24WH



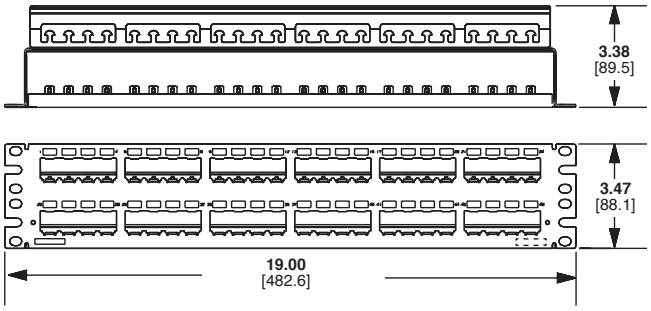
CP48BLY
CP48WH



CP24WSBLY



CP48WSBLY



Dimensions are in inches. (Dimensions in parenthesis are metric).

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