LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-195-OLT-01-1/13-SP-A13-A20-16BO-A-LAN1

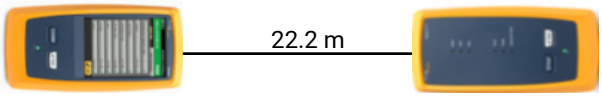
Test Summary: PASS

Date / Time: 12/20/2023 07:13:59 PM
Headroom: 5.5 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

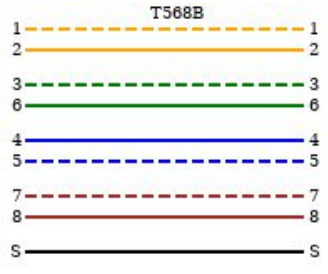
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

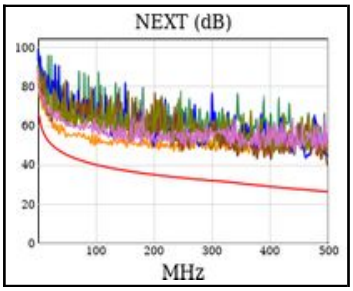
Length (m), Limit 100	[Pair 1,2]	22.2
Prop. Delay (ns), Limit 555	[Pair 3,6]	117
Delay Skew (ns), Limit 50	[Pair 3,6]	8
Resistance (ohms)	[Pair 4,5]	4.0
Insertion Loss Margin (dB)	[Pair 3,6]	38.6
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

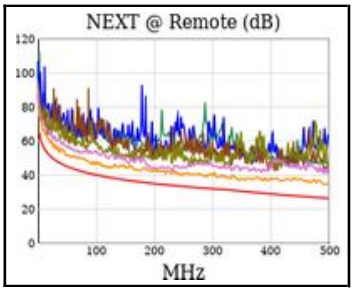


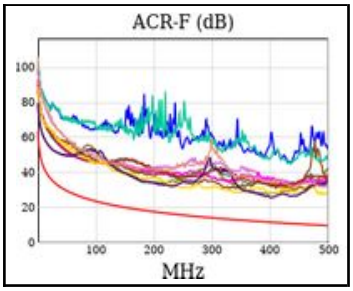
PASS

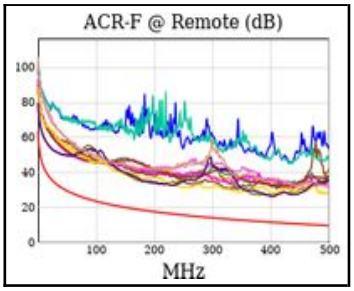


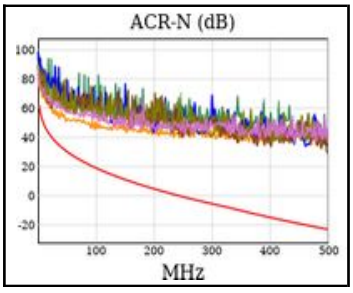


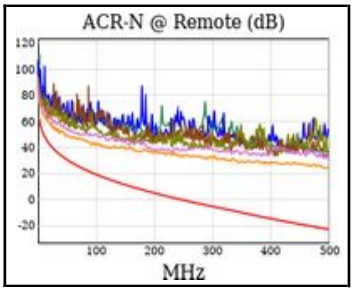


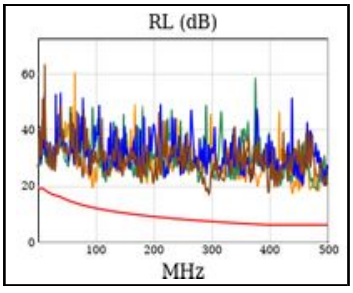


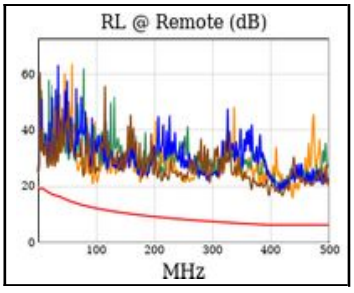












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-4,5	1,2-3,6
NEXT (dB)	8.6	5.5	13.4	7.9
Freq. (MHz)	38.3	125.0	500.0	495.0
Limit (dB)	47.0	38.3	26.1	26.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	10.4	8.0	15.5	10.4
Freq. (MHz)	25.5	125.0	500.0	495.0
Limit (dB)	47.2	35.4	23.2	23.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	14.1	14.8	14.2	14.9
Freq. (MHz)	403.0	403.0	404.0	404.0
Limit (dB)	11.2	11.2	11.1	11.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.6	16.7	14.6	17.4
Freq. (MHz)	402.0	373.0	402.0	436.0
Limit (dB)	8.2	8.8	8.2	7.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-4,5	1,2-3,6
ACR-N (dB)	13.6	12.3	52.4	46.2
Freq. (MHz)	3.5	3.5	500.0	495.0
Limit (dB)	60.1	60.1	-23.2	-22.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	14.6	13.3	54.1	48.7
Freq. (MHz)	3.5	3.4	500.0	495.0
Limit (dB)	57.6	57.9	-26.1	-25.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	1,2
RL (dB)	7.1	8.5	9.3	9.6
Freq. (MHz)	95.5	95.3	296.0	438.0
Limit (dB)	12.2	12.2	7.3	6.0

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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-195-OLT-01-1/13-SP-A13-A20-16BO-A-LAN3

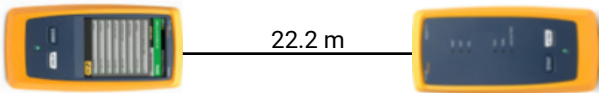
Test Summary: PASS

Date / Time: 12/20/2023 07:21:19 PM
Headroom: 7.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

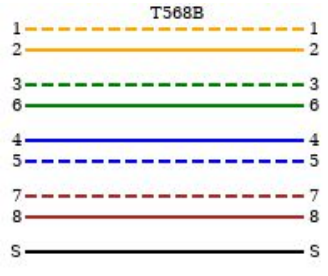
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

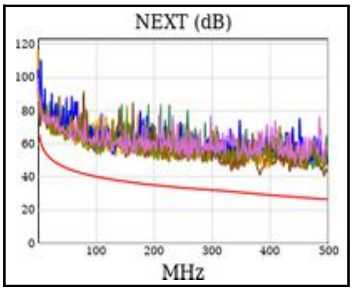
Length (m), Limit 100	[Pair 1,2]	22.2
Prop. Delay (ns), Limit 555	[Pair 3,6]	117
Delay Skew (ns), Limit 50	[Pair 3,6]	8
Resistance (ohms)	[Pair 4,5]	4.0
Insertion Loss Margin (dB)	[Pair 3,6]	38.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

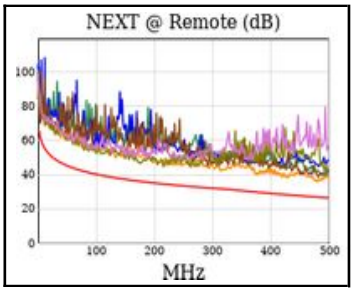


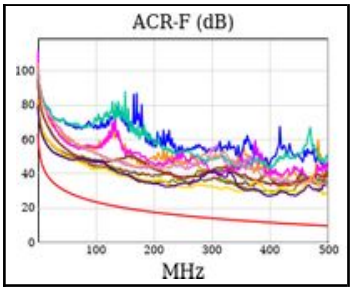
PASS

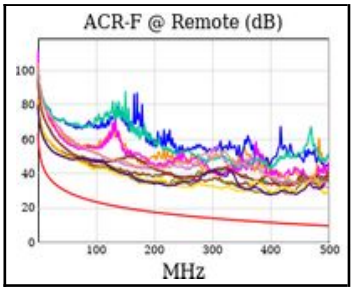


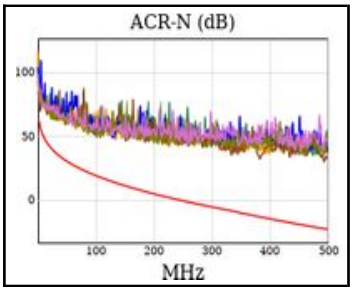


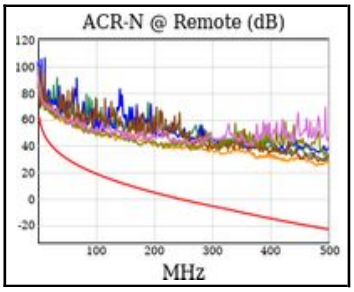


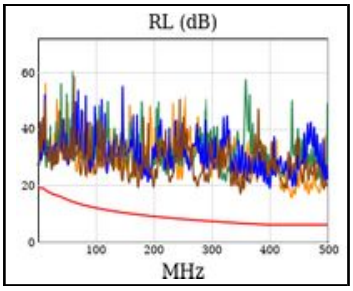


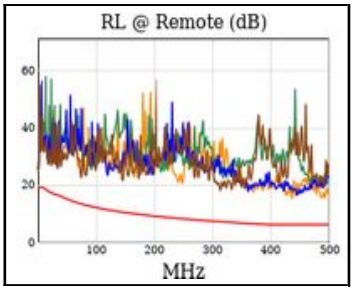












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	8.5	7.8	14.1	8.9
Freq. (MHz)	4.4	4.5	494.0	481.0
Limit (dB)	62.4	62.2	26.2	26.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	10.6	9.6	15.6	10.2
Freq. (MHz)	4.4	4.5	494.0	481.0
Limit (dB)	59.9	59.7	23.4	23.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	7,8-3,6	3,6-7,8
ACR-F (dB)	15.3	16.0	15.3	16.1
Freq. (MHz)	401.0	174.5	401.0	401.0
Limit (dB)	11.2	18.4	11.2	11.2
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.0	17.5	16.0	19.8
Freq. (MHz)	401.0	174.5	401.0	496.0
Limit (dB)	8.2	15.4	8.2	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	12.0	11.3	52.5	46.6
Freq. (MHz)	4.4	4.5	494.0	481.0
Limit (dB)	58.1	57.8	-22.7	-21.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	14.0	13.0	53.7	48.7
Freq. (MHz)	4.4	4.4	494.0	491.0
Limit (dB)	55.6	55.6	-25.6	-25.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	9.4	8.9	9.4	8.9
Freq. (MHz)	438.0	438.0	438.0	438.0
Limit (dB)	6.0	6.0	6.0	6.0

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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-196-OLT-01-1/13-SP-A13-A20-13A0-A-LAN1

Test Summary: PASS

Date / Time: 12/20/2023 07:27:30 PM
Headroom: 11.9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	19.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	104
Delay Skew (ns), Limit 50	[Pair 3,6]	7
Resistance (ohms)	[Pair 4,5]	3.6
Insertion Loss Margin (dB)	[Pair 3,6]	39.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	12.0	11.9	12.0	12.5
Freq. (MHz)	492.0	263.0	492.0	490.0
Limit (dB)	26.3	32.7	26.3	26.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	12.8	13.1	13.3	13.1
Freq. (MHz)	385.0	491.0	492.0	491.0
Limit (dB)	26.2	23.4	23.4	23.4

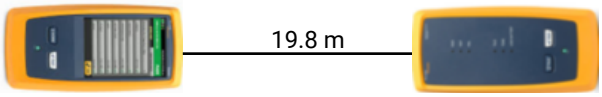
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	14.6	15.1	15.0	15.2
Freq. (MHz)	459.0	457.0	499.0	459.0
Limit (dB)	10.0	10.1	9.3	10.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.3	17.2	16.5	18.3
Freq. (MHz)	272.0	218.5	500.0	492.0
Limit (dB)	11.6	13.5	6.3	6.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	16.6	16.1	51.7	51.6
Freq. (MHz)	3.8	4.5	492.0	490.0
Limit (dB)	59.5	57.8	-22.6	-22.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	18.5	17.4	52.5	52.4
Freq. (MHz)	3.8	4.5	492.0	492.0
Limit (dB)	57.0	55.3	-25.5	-25.5

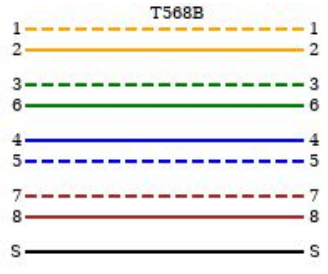
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	10.2	8.8	11.0	8.8
Freq. (MHz)	180.5	493.0	338.0	493.0
Limit (dB)	9.4	6.0	6.7	6.0

Compliant Network Standards:

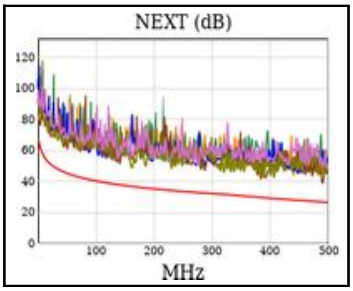
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

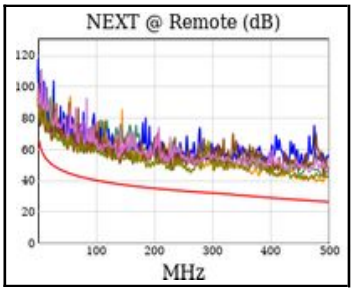


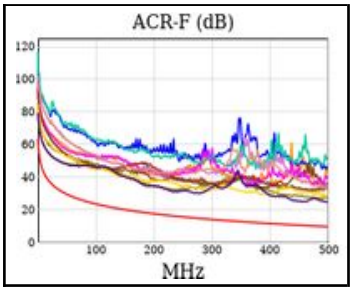
PASS

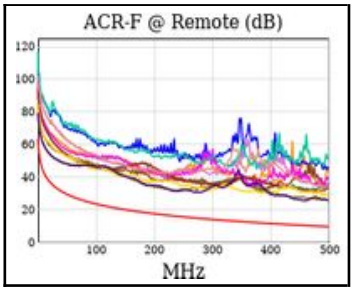


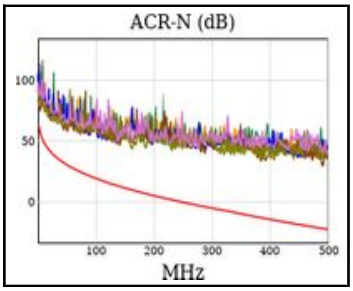


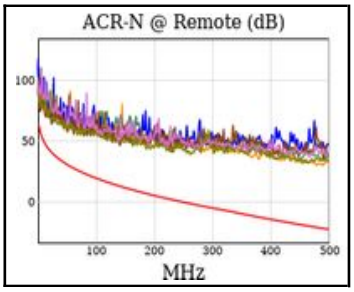


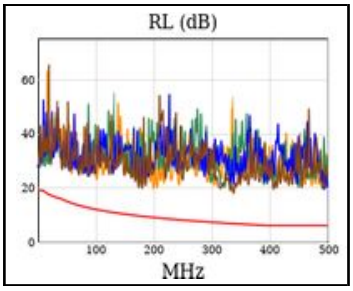


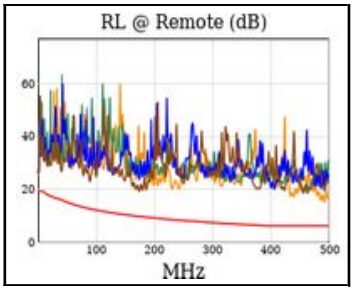












FLUKE networks

LinkWare Live

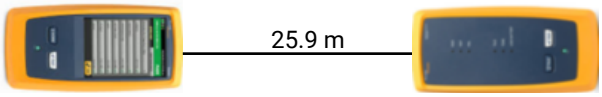
Cable ID: CT-P2-MDN-ONT-A-196-OLT-01-1/13-SP-A13-A20-13A0-A-LAN3 **Test Summary: PASS**

Date / Time: 12/20/2023 07:42:22 PM
Headroom: 10.2 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

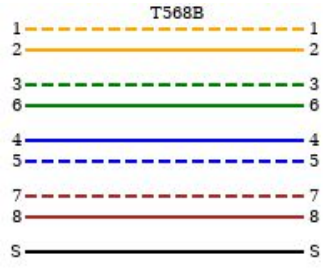
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	25.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	137
Delay Skew (ns), Limit 50	[Pair 3,6]	10
Resistance (ohms)	[Pair 4,5]	4.6
Insertion Loss Margin (dB)	[Pair 3,6]	37.0
Frequency (MHz)	[Pair 3,6]	499.0
Limit (dB)	[Pair 3,6]	49.3

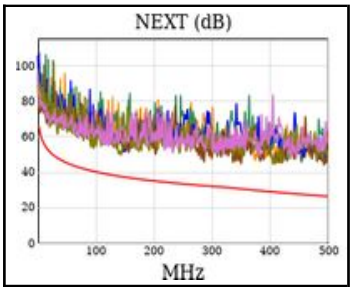


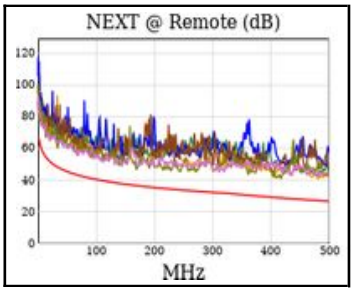
PASS



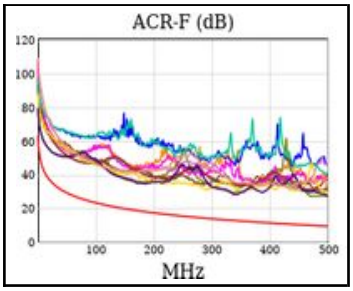


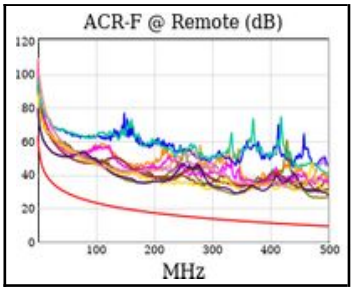
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	10.5	10.2	17.0	13.5
Freq. (MHz)	3.8	170.5	494.0	482.0
Limit (dB)	63.5	36.0	26.2	26.5
Worst Pair	3,6	7,8	3,6	1,2
PS NEXT (dB)	11.7	11.4	15.2	14.5
Freq. (MHz)	3.8	139.5	411.0	482.0
Limit (dB)	61.0	34.6	25.5	23.7



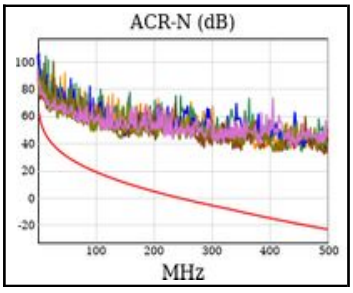


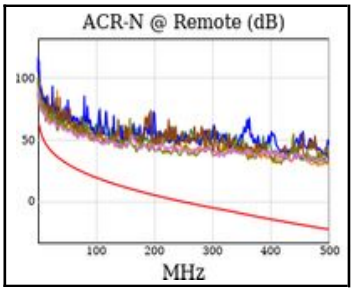
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	15.3	15.7	17.3	16.6
Freq. (MHz)	339.0	338.0	482.0	486.0
Limit (dB)	12.7	12.7	9.6	9.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.8	17.4	17.9	18.1
Freq. (MHz)	343.0	340.0	499.0	477.0
Limit (dB)	9.6	9.6	6.3	6.7



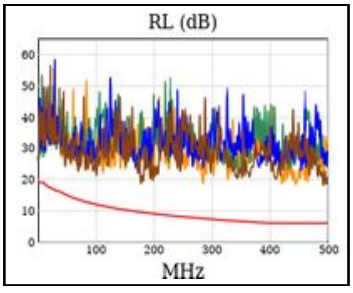


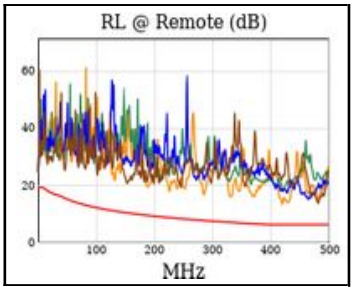
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	13.5	14.3	54.0	49.8
Freq. (MHz)	3.3	3.0	494.0	482.0
Limit (dB)	60.7	61.4	-22.7	-21.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	14.7	15.6	48.5	52.6
Freq. (MHz)	3.3	3.3	411.0	499.0
Limit (dB)	58.2	58.2	-18.8	-26.0





PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	8.9	7.0	11.7	7.0
Freq. (MHz)	48.0	421.0	493.0	421.0
Limit (dB)	15.2	6.0	6.0	6.0





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	

FLUKE networks

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Cable ID: CT-P2-MDN-ONT-A-196-OLT-01-1/13-SP-A13-A20-13AO-A-LAN2

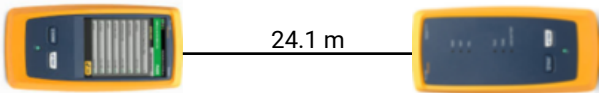
Test Summary: PASS

Date / Time: 12/20/2023 07:32:48 PM
Headroom: 10 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

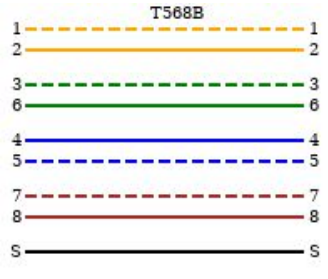
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	24.1
Prop. Delay (ns), Limit 555	[Pair 3,6]	127
Delay Skew (ns), Limit 50	[Pair 3,6]	9
Resistance (ohms)	[Pair 4,5]	4.3
Insertion Loss Margin (dB)	[Pair 3,6]	37.7
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3



PASS



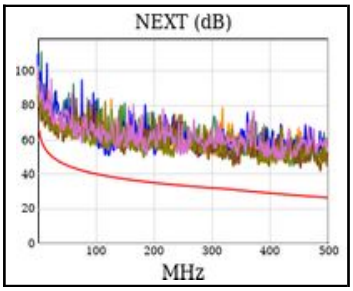
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	11.0	10.0	14.9	11.3
Freq. (MHz)	6.8	12.5	488.0	496.0
Limit (dB)	59.4	55.0	26.4	26.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	12.6	10.5	16.4	11.3
Freq. (MHz)	6.5	12.3	488.0	498.0
Limit (dB)	57.1	52.5	23.5	23.3

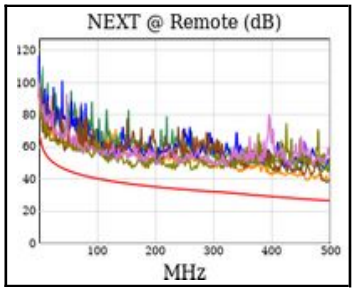
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	15.1	16.0	15.1	16.0
Freq. (MHz)	392.0	391.0	392.0	391.0
Limit (dB)	11.4	11.4	11.4	11.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.7	17.6	16.8	17.6
Freq. (MHz)	396.0	386.0	400.0	386.0
Limit (dB)	8.3	8.5	8.2	8.5

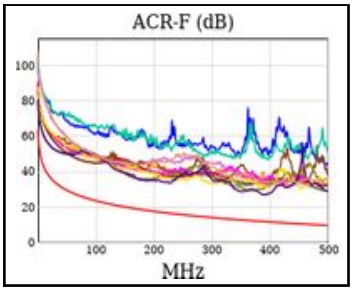
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-N (dB)	15.1	14.4	52.5	49.2
Freq. (MHz)	6.5	7.4	488.0	496.0
Limit (dB)	54.4	53.2	-22.3	-22.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	16.7	15.2	53.5	48.9
Freq. (MHz)	6.6	7.4	488.0	498.0
Limit (dB)	51.7	50.6	-25.1	-25.9

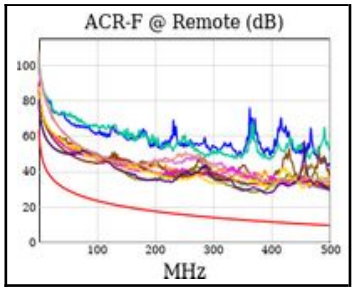
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	1,2
RL (dB)	8.2	8.5	10.0	9.2
Freq. (MHz)	102.5	74.3	356.0	437.0
Limit (dB)	11.9	13.3	6.5	6.0

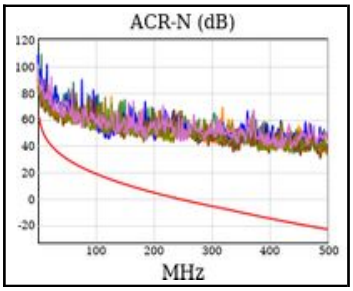


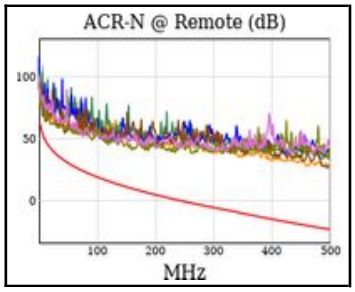


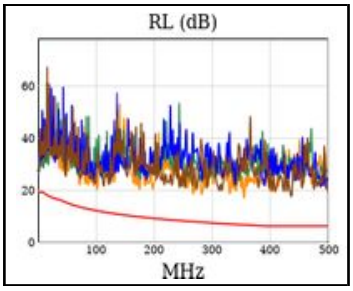


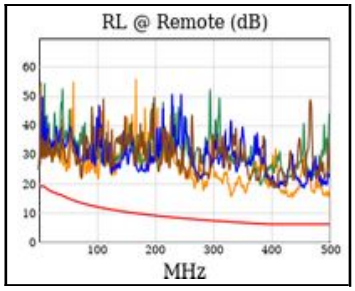












Compliant Network Standards:

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	

FLUKE networks

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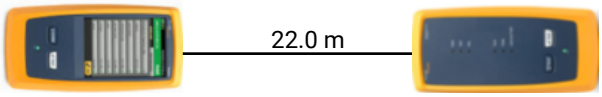
Cable ID: CT-P2-MDN-ONT-A195-OLT-01-1/13-SP-A13-A20-16BO-A-LAN2 **Test Summary: PASS**

Date / Time: 12/20/2023 07:18:35 PM
Headroom: 9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

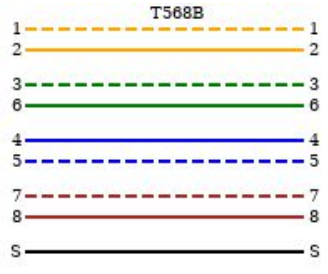
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	22.0
Prop. Delay (ns), Limit 555	[Pair 3,6]	116
Delay Skew (ns), Limit 50	[Pair 3,6]	8
Resistance (ohms)	[Pair 4,5]	4.0
Insertion Loss Margin (dB)	[Pair 3,6]	38.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3



PASS



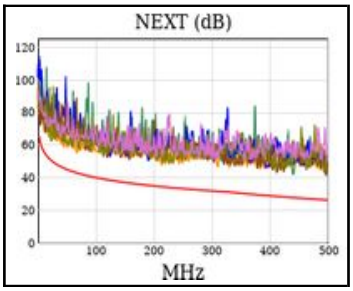
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	3,6-4,5	3,6-4,5
NEXT (dB)	10.2	9.0	15.0	11.2
Freq. (MHz)	4.6	213.0	497.0	490.0
Limit (dB)	62.0	34.3	26.2	26.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	11.7	10.5	15.9	10.7
Freq. (MHz)	4.5	197.0	498.0	490.0
Limit (dB)	59.7	32.0	23.3	23.5

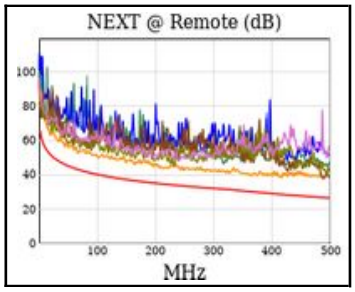
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	14.8	15.1	15.4	16.0
Freq. (MHz)	351.0	351.0	499.0	499.0
Limit (dB)	12.4	12.4	9.3	9.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	15.7	17.2	16.2	17.9
Freq. (MHz)	403.0	199.5	446.0	499.0
Limit (dB)	8.2	14.3	7.3	6.3

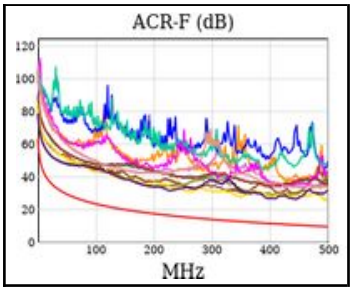
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	13.7	14.9	53.9	49.8
Freq. (MHz)	4.6	4.8	497.0	493.0
Limit (dB)	57.6	57.3	-23.0	-22.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.1	15.3	54.2	48.8
Freq. (MHz)	4.4	4.6	498.0	490.0
Limit (dB)	55.6	55.1	-25.9	-25.3

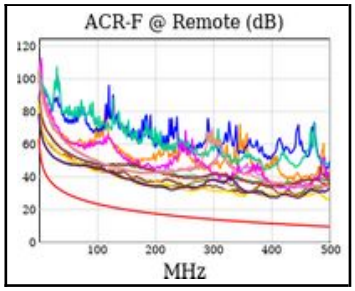
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	7,8
RL (dB)	9.1	9.0	10.7	10.4
Freq. (MHz)	90.5	231.0	429.0	429.0
Limit (dB)	12.4	8.4	6.0	6.0

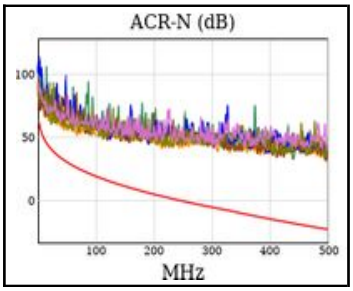


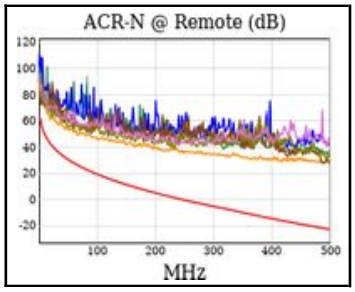


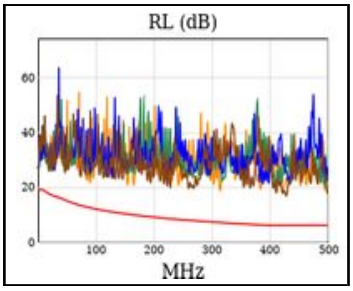


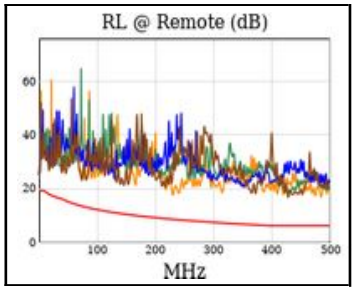












Compliant Network Standards:

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	

FLUKE networks

LinkWare Live

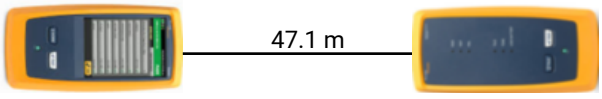
Cable ID: CT-P2-MDN-ONT-A213-OLT-01-1/1-SP-A01-A01-14EO-A-LAN1 **Test Summary: PASS**

Date / Time: 12/20/2023 04:18:44 PM
Headroom: 9.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

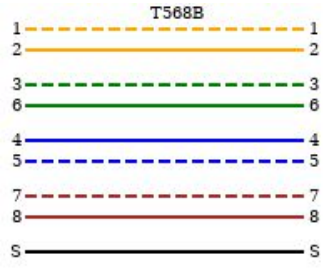
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	47.1
Prop. Delay (ns), Limit 555	[Pair 3,6]	248
Delay Skew (ns), Limit 50	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	28.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

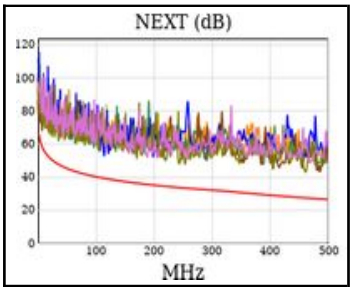


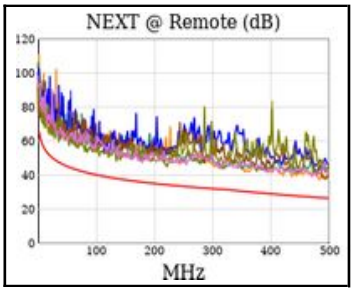
PASS



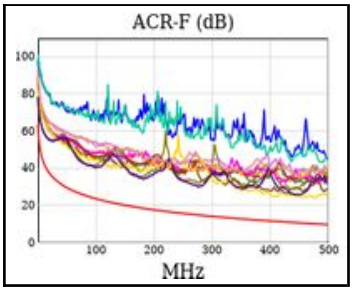


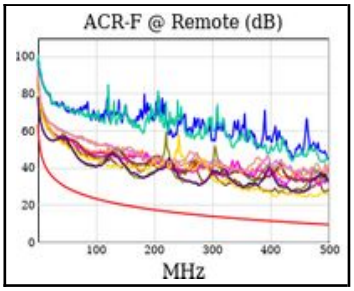
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
NEXT (dB)	9.6	9.9	15.4	10.4
Freq. (MHz)	8.0	2.1	462.0	485.0
Limit (dB)	58.2	65.0	27.0	26.5
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	11.2	10.4	16.3	10.4
Freq. (MHz)	7.8	495.0	487.0	495.0
Limit (dB)	55.8	23.3	23.5	23.3



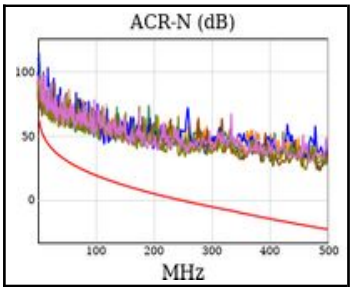


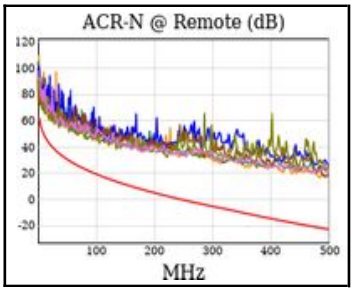
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	13.1	13.7	14.1	14.2
Freq. (MHz)	406.0	411.0	475.0	462.0
Limit (dB)	11.1	11.0	9.7	10.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.2	15.5	14.2	15.5
Freq. (MHz)	445.0	427.0	445.0	427.0
Limit (dB)	7.3	7.6	7.3	7.6



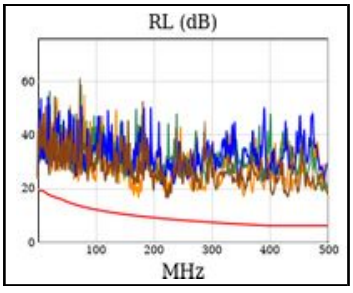


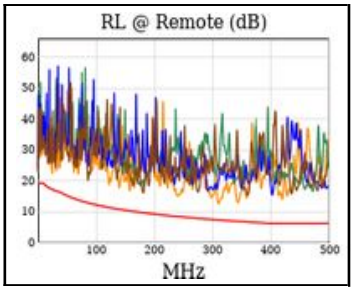
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	1,2-3,6
ACR-N (dB)	12.6	11.7	44.6	38.0
Freq. (MHz)	3.9	2.1	486.0	485.0
Limit (dB)	59.2	61.9	-22.1	-22.0
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	14.5	14.2	44.6	38.5
Freq. (MHz)	7.8	2.1	487.0	495.0
Limit (dB)	50.1	58.9	-25.1	-25.7





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	1,2
RL (dB)	7.0	5.1	7.9	5.2
Freq. (MHz)	174.5	25.4	222.0	312.0
Limit (dB)	9.6	17.0	8.5	7.1





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	

FLUKE networks

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Cable ID: CT-P2-MDN-ONT-A213-OLT-01-1/1-SP-A01-A01-14EO-A-LAN2 **Test Summary: PASS**

Date / Time: 12/20/2023 04:28:35 PM
Headroom: 4.9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	45.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	241
Delay Skew (ns), Limit 50	[Pair 3,6]	17
Resistance (ohms)	[Pair 4,5]	7.6
Insertion Loss Margin (dB)	[Pair 3,6]	28.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	1,2-4,5	1,2-3,6
NEXT (dB)	10.7	4.9	13.1	6.1
Freq. (MHz)	20.8	315.0	484.0	425.0
Limit (dB)	51.4	31.4	26.5	28.0
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	11.9	7.1	15.5	7.5
Freq. (MHz)	3.9	315.0	484.0	425.0
Limit (dB)	60.8	28.4	23.6	25.1

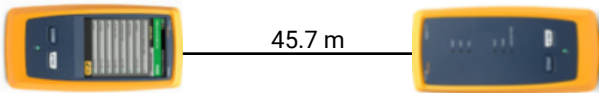
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	14.0	14.4	14.0	14.4
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	9.3	9.3	9.3	9.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	15.0	16.3	15.0	16.9
Freq. (MHz)	458.0	437.0	458.0	500.0
Limit (dB)	7.0	7.4	7.0	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	1,2-4,5	1,2-3,6
ACR-N (dB)	14.8	12.0	41.8	35.7
Freq. (MHz)	8.5	20.9	484.0	481.0
Limit (dB)	51.8	42.0	-22.0	-21.7
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	14.3	13.9	44.1	38.8
Freq. (MHz)	3.9	20.8	484.0	495.0
Limit (dB)	56.7	39.4	-24.8	-25.7

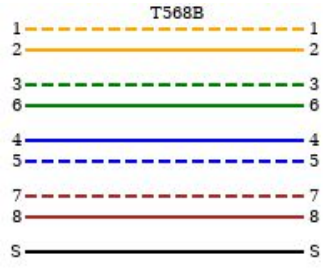
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	7,8
RL (dB)	6.9	4.3	6.9	7.7
Freq. (MHz)	317.0	90.5	317.0	452.0
Limit (dB)	7.0	12.4	7.0	6.0

Compliant Network Standards:

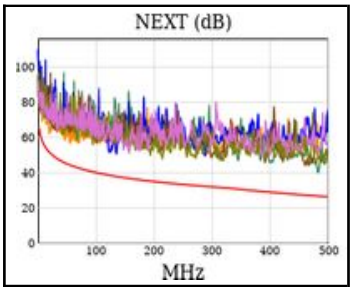
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

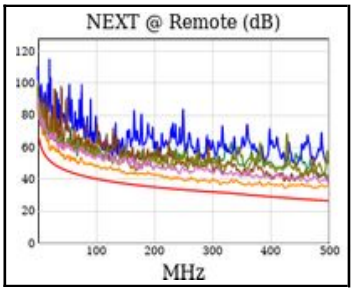


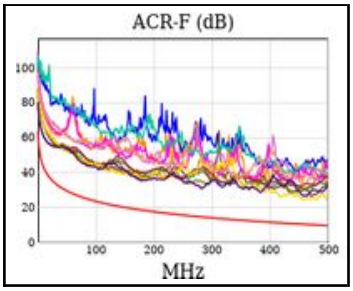
PASS

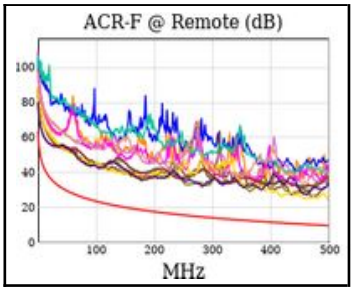


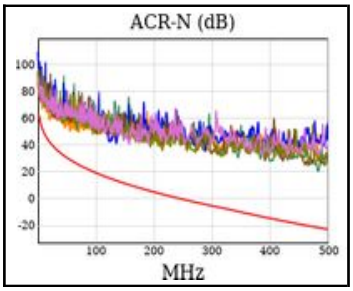


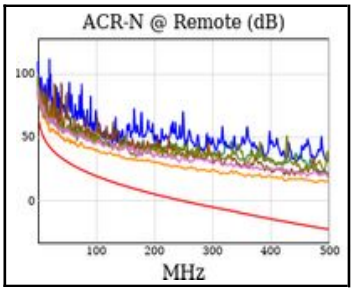


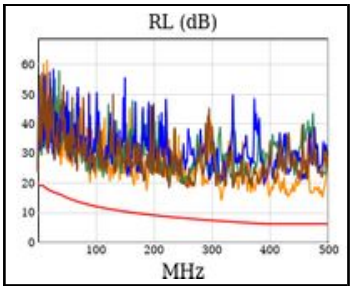


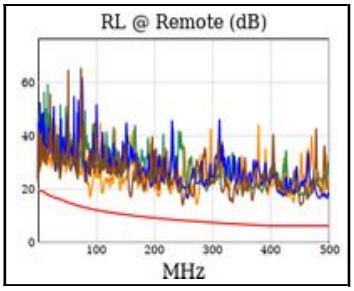












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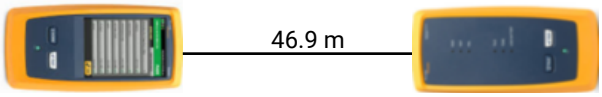
Cable ID: CT-P2-MDN-ONT-A213-OLT-01-1/1-SP-A01-A01-14EO-A-LAN3 **Test Summary: PASS**

Date / Time: 12/20/2023 04:34:49 PM
Headroom: 6.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

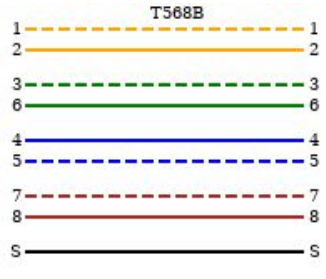
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

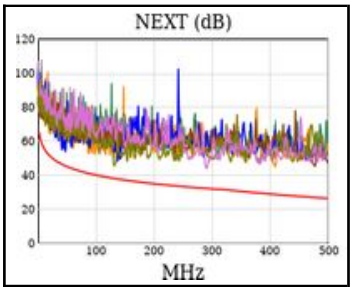
Length (m), Limit 100	[Pair 1,2]	46.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	248
Delay Skew (ns), Limit 50	[Pair 3,6]	18
Resistance (ohms)	[Pair 4,5]	7.9
Insertion Loss Margin (dB)	[Pair 3,6]	28.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

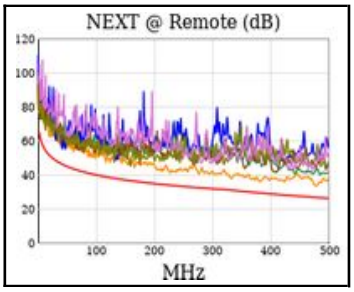


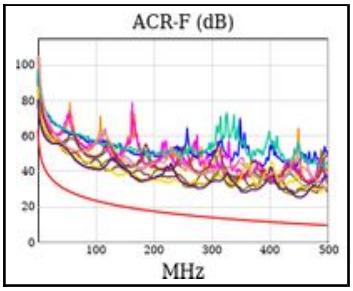
PASS

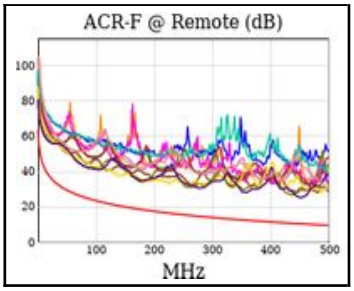


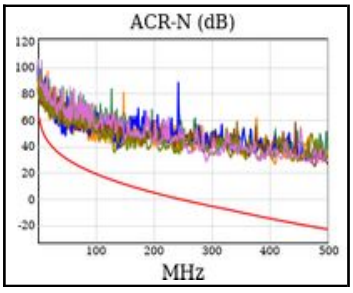


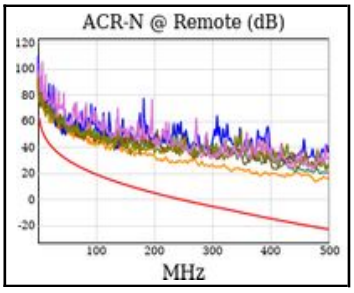


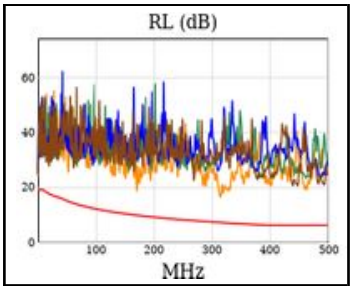


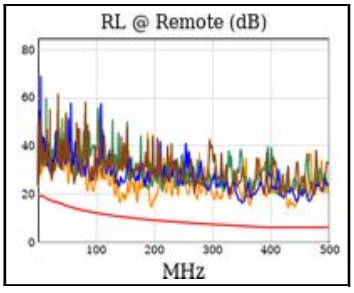












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	4,5-7,8	1,2-3,6
NEXT (dB)	7.3	6.6	11.7	6.8
Freq. (MHz)	132.0	382.0	291.0	479.0
Limit (dB)	37.9	29.3	32.0	26.6
Worst Pair	3,6	1,2	4,5	1,2
PS NEXT (dB)	9.0	9.1	14.0	9.1
Freq. (MHz)	132.0	479.0	292.0	479.0
Limit (dB)	35.0	23.7	29.0	23.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	14.8	14.6	14.9	14.6
Freq. (MHz)	452.0	452.0	454.0	452.0
Limit (dB)	10.2	10.2	10.1	10.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.2	16.5	16.9	17.0
Freq. (MHz)	184.5	262.0	457.0	438.0
Limit (dB)	14.9	11.9	7.1	7.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	13.8	12.2	46.1	34.8
Freq. (MHz)	3.6	4.0	479.0	480.0
Limit (dB)	59.8	58.9	-21.6	-21.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	13.2	12.3	48.0	37.3
Freq. (MHz)	3.6	4.0	478.0	480.0
Limit (dB)	57.3	56.4	-24.4	-24.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	8.6	5.2	9.1	7.9
Freq. (MHz)	171.5	195.5	316.0	431.0
Limit (dB)	9.7	9.1	7.0	6.0

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	

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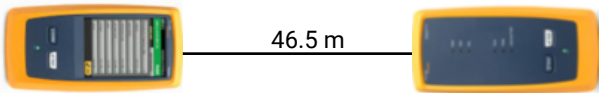
Cable ID: CT-P2-MDN-ONT-A213-OLT-01-1/1-SP-A01-A01-14EO-A-LAN4 **Test Summary: PASS**

Date / Time: 12/20/2023 04:35:35 PM
Headroom: 2.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

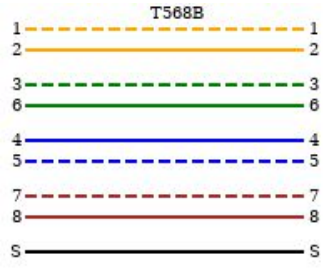
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	46.5
Prop. Delay (ns), Limit 555	[Pair 3,6]	246
Delay Skew (ns), Limit 50	[Pair 3,6]	18
Resistance (ohms)	[Pair 4,5]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	28.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

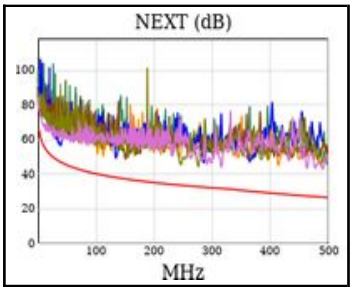


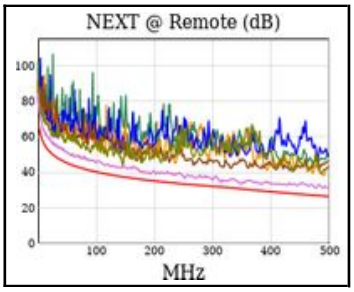
PASS



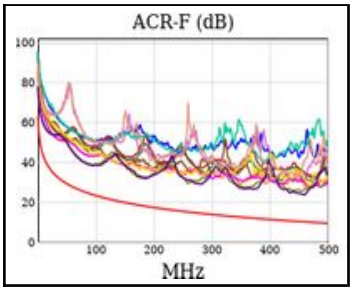


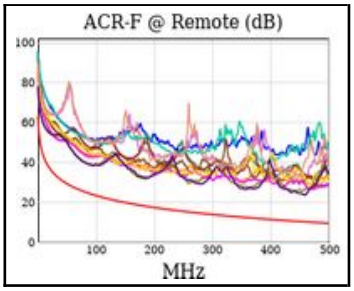
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	4,5-7,8	4,5-7,8	4,5-7,8
NEXT (dB)	9.5	2.6	15.7	4.0
Freq. (MHz)	39.5	350.0	492.0	477.0
Limit (dB)	46.7	30.3	26.3	26.7
Worst Pair	7,8	4,5	7,8	7,8
PS NEXT (dB)	10.4	5.1	17.6	7.0
Freq. (MHz)	36.5	316.0	492.0	492.0
Limit (dB)	44.6	28.4	23.4	23.4



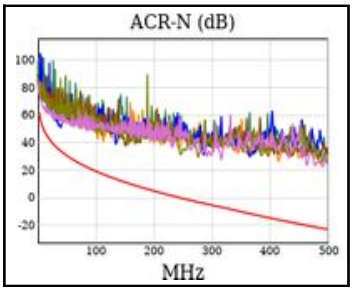


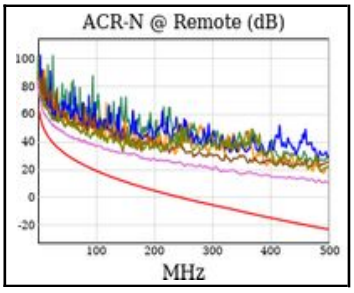
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	13.6	13.5	13.6	13.5
Freq. (MHz)	461.0	461.0	461.0	461.0
Limit (dB)	10.0	10.0	10.0	10.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.8	14.9	14.8	15.9
Freq. (MHz)	461.0	186.5	461.0	476.0
Limit (dB)	7.0	14.8	7.0	6.7



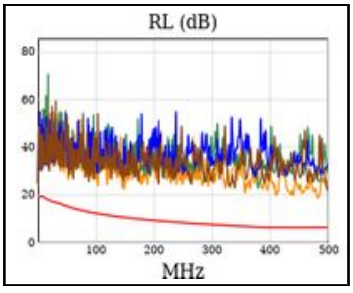


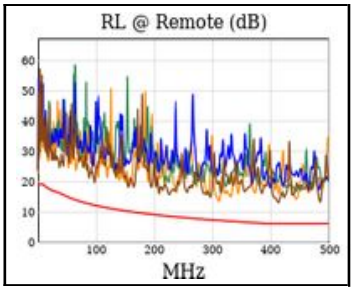
N/A	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	4,5-7,8	4,5-7,8
ACR-N (dB)	14.5	10.7	44.2	33.0
Freq. (MHz)	3.5	9.4	492.0	492.0
Limit (dB)	60.1	50.8	-22.6	-22.6
Worst Pair	4,5	7,8	7,8	7,8
PS ACR-N (dB)	14.7	12.1	46.1	35.0
Freq. (MHz)	5.8	3.8	492.0	489.0
Limit (dB)	53.0	57.0	-25.5	-25.2





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	7,8
RL (dB)	11.2	6.3	12.3	6.9
Freq. (MHz)	53.5	312.0	483.0	415.0
Limit (dB)	14.7	7.1	6.0	6.0





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	

FLUKE networks

LinkWare Live

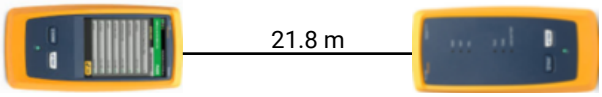
Cable ID: CT-P2-MDN-ONT-A-215-OLT-01-1/1-SP-A01-A02-1480-A-LAN2 **Test Summary: PASS**

Date / Time: 12/21/2023 02:24:29 PM
Headroom: 7.3 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

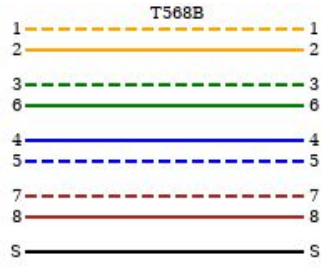
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	21.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	114
Delay Skew (ns), Limit 50	[Pair 3,6]	7
Resistance (ohms)	[Pair 4,5]	3.9
Insertion Loss Margin (dB)	[Pair 3,6]	38.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

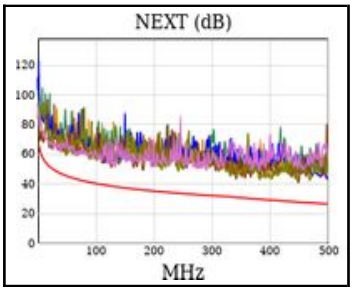


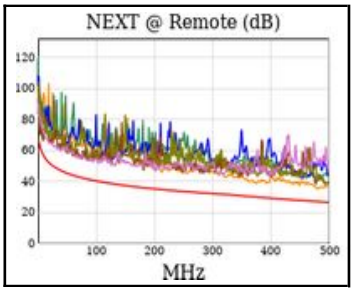
PASS



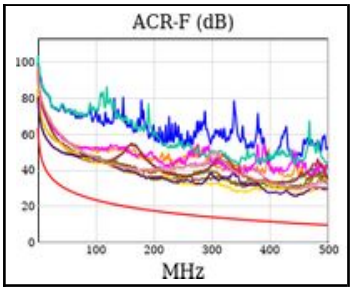


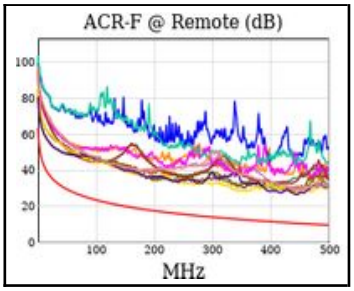
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	7.3	7.8	12.9	8.0
Freq. (MHz)	4.9	4.5	450.0	481.0
Limit (dB)	61.7	62.2	27.3	26.6
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	9.5	9.2	14.7	9.3
Freq. (MHz)	4.8	494.0	450.0	495.0
Limit (dB)	59.3	23.4	24.4	23.3



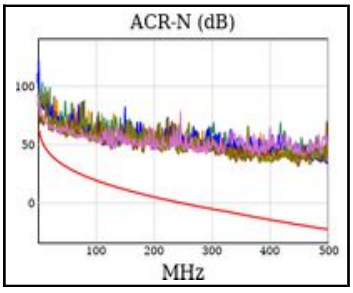


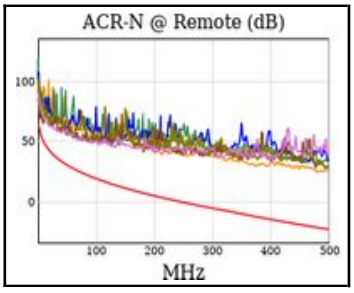
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	3,6-7,8
ACR-F (dB)	14.8	15.4	14.9	15.9
Freq. (MHz)	344.0	344.0	447.0	447.0
Limit (dB)	12.5	12.5	10.3	10.3
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.5	16.9	15.5	16.9
Freq. (MHz)	445.0	445.0	445.0	445.0
Limit (dB)	7.3	7.3	7.3	7.3



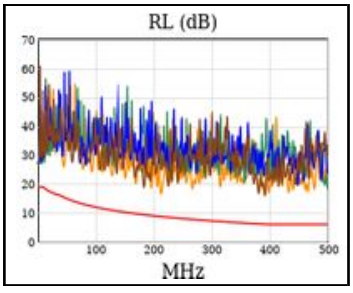


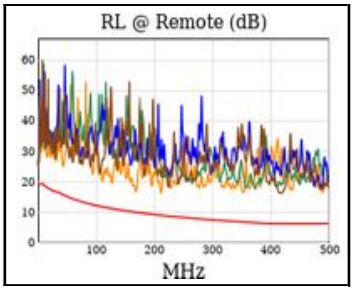
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	10.9	11.3	49.9	45.9
Freq. (MHz)	4.8	4.1	450.0	481.0
Limit (dB)	57.3	58.6	-19.2	-21.7
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	13.1	13.3	51.0	47.6
Freq. (MHz)	4.4	4.1	450.0	495.0
Limit (dB)	55.6	56.1	-22.1	-25.7





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	1,2
RL (dB)	7.9	6.7	9.7	7.3
Freq. (MHz)	213.5	169.5	392.0	212.5
Limit (dB)	8.7	9.7	6.1	8.7





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	

FLUKE networks

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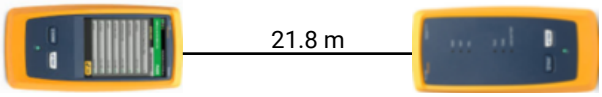
Cable ID: CT-P2-MDN-ONT-A-215-OLT-01-1/1-SP-A01-A02-1480-A-LAN3 **Test Summary: PASS**

Date / Time: 12/21/2023 02:27:30 PM
Headroom: 7.2 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

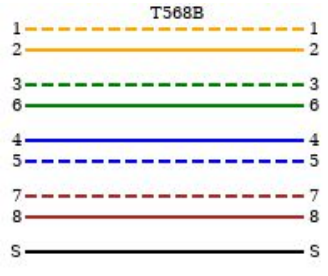
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	21.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	114
Delay Skew (ns), Limit 50	[Pair 3,6]	7
Resistance (ohms)	[Pair 4,5]	3.9
Insertion Loss Margin (dB)	[Pair 3,6]	38.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

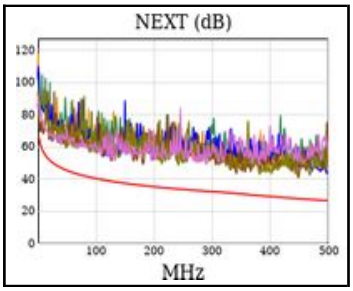


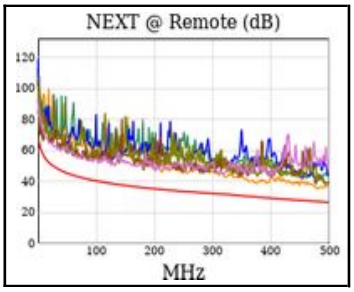
PASS



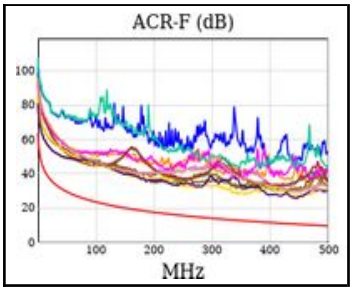


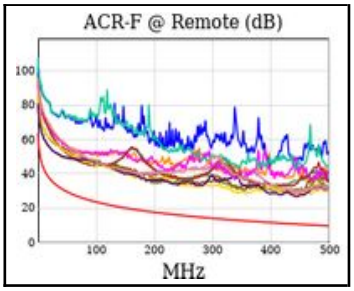
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	7.2	7.7	13.0	8.0
Freq. (MHz)	4.6	4.4	450.0	481.0
Limit (dB)	62.0	62.4	27.3	26.6
Worst Pair	4,5	3,6	3,6	3,6
PS NEXT (dB)	9.4	9.2	14.8	9.3
Freq. (MHz)	4.6	494.0	450.0	495.0
Limit (dB)	59.5	23.4	24.4	23.3



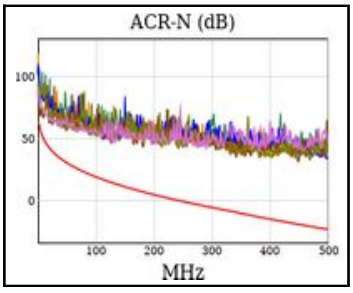


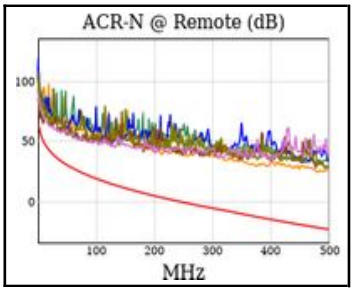
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	3,6-7,8
ACR-F (dB)	14.9	15.5	15.1	16.1
Freq. (MHz)	344.0	344.0	448.0	448.0
Limit (dB)	12.5	12.5	10.2	10.2
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.6	17.0	15.6	17.2
Freq. (MHz)	444.0	441.0	444.0	450.0
Limit (dB)	7.3	7.4	7.3	7.2



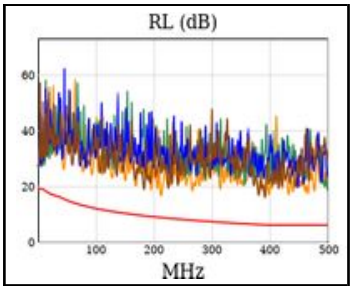


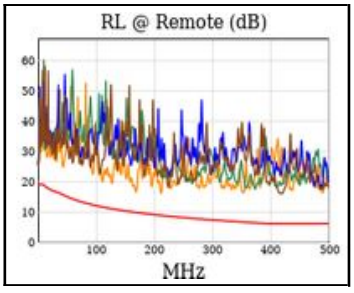
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	10.8	11.2	50.0	45.9
Freq. (MHz)	4.6	4.4	450.0	481.0
Limit (dB)	57.6	58.1	-19.2	-21.7
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	13.0	13.2	51.1	47.6
Freq. (MHz)	4.6	4.4	450.0	495.0
Limit (dB)	55.1	55.6	-22.1	-25.7





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	7,8
RL (dB)	7.9	6.7	9.7	9.9
Freq. (MHz)	213.5	169.5	392.0	421.0
Limit (dB)	8.7	9.7	6.1	6.0





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	

FLUKE networks

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Cable ID: CT-P2-MDN-ONT-A-216-OLT-01-1/5-SP-A05-A02-1828-A-LAN3 **Test Summary: PASS**

Date / Time: 12/21/2023 02:52:58 PM
Headroom: 9.2 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	20.0
Prop. Delay (ns), Limit 555	[Pair 3,6]	104
Delay Skew (ns), Limit 50	[Pair 3,6]	6
Resistance (ohms)	[Pair 3,6]	3.6
Insertion Loss Margin (dB)	[Pair 3,6]	39.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	10.6	9.2	11.4	12.2
Freq. (MHz)	12.6	215.5	388.0	486.0
Limit (dB)	54.9	34.2	29.1	26.4
Worst Pair	4,5	4,5	3,6	4,5
PS NEXT (dB)	12.1	11.0	12.8	12.7
Freq. (MHz)	12.8	320.0	388.0	495.0
Limit (dB)	52.2	28.3	26.1	23.3

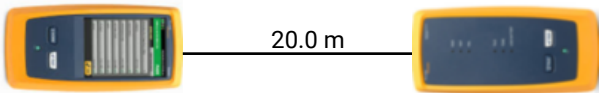
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	12.8	13.7	12.8	13.7
Freq. (MHz)	452.0	452.0	452.0	452.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	3,6	3,6	3,6	7,8
PS ACR-F (dB)	14.4	16.2	14.4	16.3
Freq. (MHz)	452.0	233.5	452.0	452.0
Limit (dB)	7.2	12.9	7.2	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	16.5	16.3	54.9	51.9
Freq. (MHz)	12.6	12.6	497.0	497.0
Limit (dB)	47.7	47.7	-23.0	-23.0
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	17.8	17.2	55.5	52.1
Freq. (MHz)	3.4	13.1	497.0	494.0
Limit (dB)	57.9	44.6	-25.8	-25.6

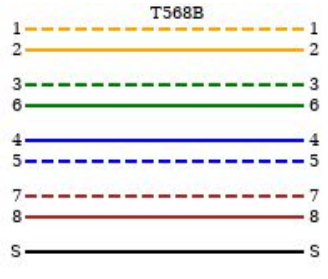
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	5.3	5.7	10.0	8.1
Freq. (MHz)	91.0	91.0	463.0	449.0
Limit (dB)	12.4	12.4	6.0	6.0

Compliant Network Standards:

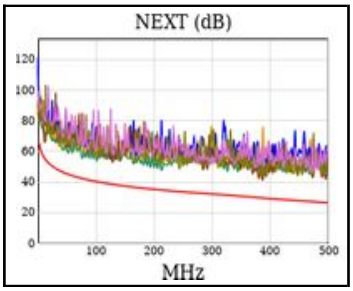
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

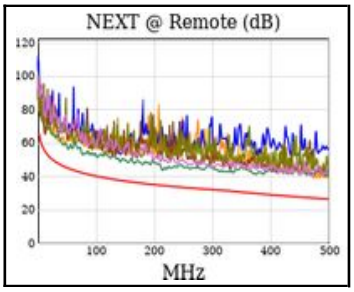


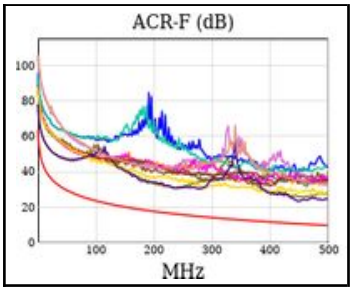
PASS

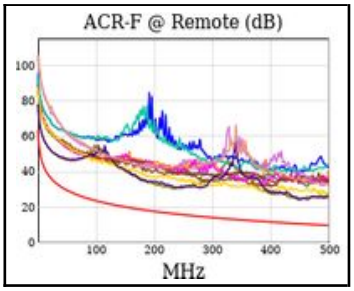


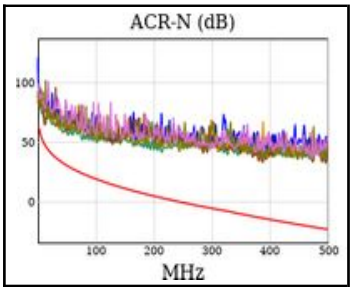


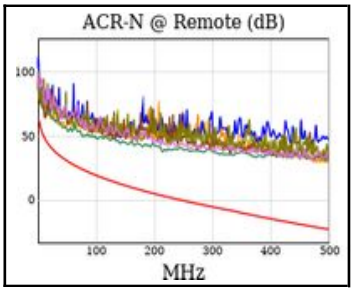


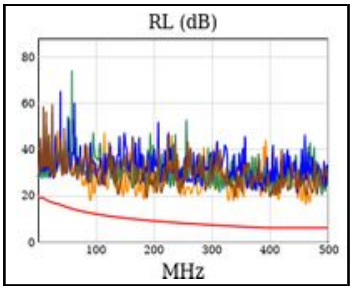


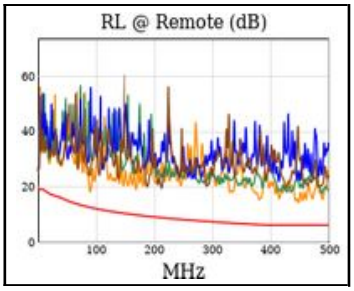












FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-217-OLT-01-1/7-SP-A07-A12-18FO-A-LAN1

Test Summary: PASS

Date / Time: 12/20/2023 06:07:16 PM
Headroom: 9.9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	34.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	183
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	33.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	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	4,5-7,8
NEXT (dB)	10.4	9.9	15.7	10.5
Freq. (MHz)	2.9	178.0	476.0	430.0
Limit (dB)	65.0	35.7	26.7	27.9
Worst Pair	3,6	3,6	3,6	4,5
PS NEXT (dB)	12.5	11.2	16.9	13.9
Freq. (MHz)	2.9	52.5	477.0	488.0
Limit (dB)	62.0	41.9	23.8	23.5

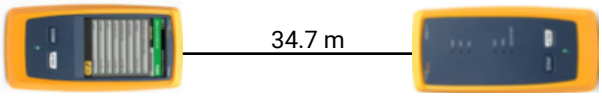
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	4,5-3,6	7,8-3,6	4,5-3,6
ACR-F (dB)	15.1	14.8	15.2	14.9
Freq. (MHz)	494.0	495.0	497.0	496.0
Limit (dB)	9.4	9.4	9.3	9.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.3	14.8	16.4	14.9
Freq. (MHz)	495.0	491.0	498.0	496.0
Limit (dB)	6.4	6.4	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	4,5-7,8
ACR-N (dB)	12.9	14.2	49.2	41.9
Freq. (MHz)	2.9	2.8	476.0	430.0
Limit (dB)	61.4	61.5	-21.3	-17.5
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	15.0	15.3	49.3	47.3
Freq. (MHz)	2.9	2.8	477.0	488.0
Limit (dB)	58.4	58.5	-24.3	-25.1

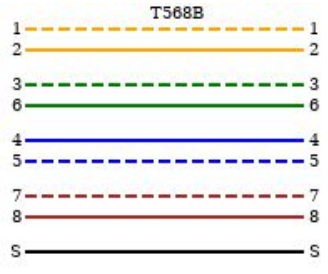
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	6.5	5.9	6.5	5.9
Freq. (MHz)	292.0	465.0	292.0	465.0
Limit (dB)	7.3	6.0	7.3	6.0

Compliant Network Standards:

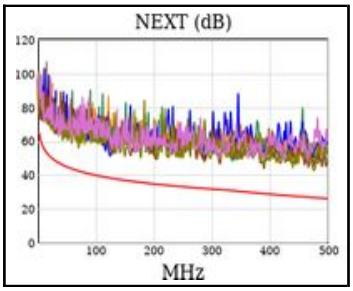
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

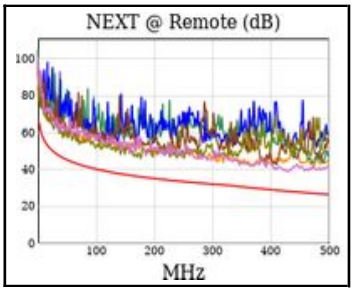


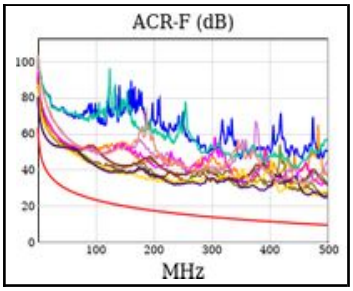
PASS

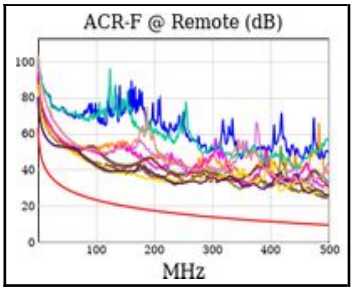


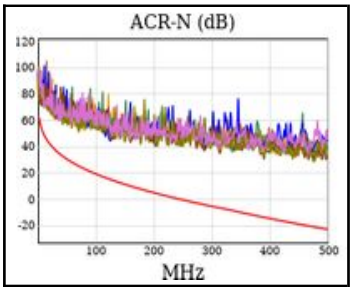


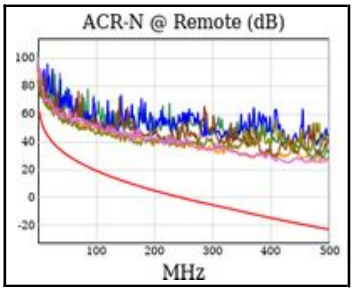


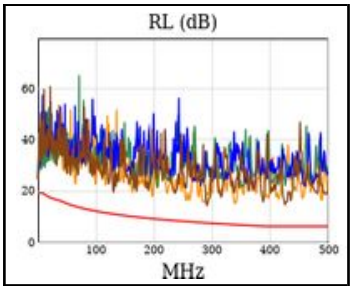


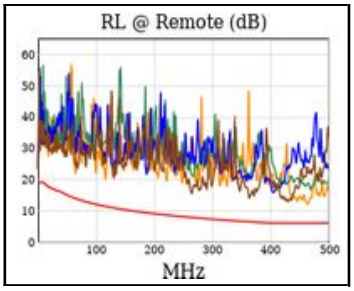












FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-217-OLT-01-1/7-SP-A07-A12-18FO-A-LAN3

Test Summary: PASS

Date / Time: 12/20/2023 06:16:30 PM
Headroom: 8.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	34.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	183
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	32.7
Frequency (MHz)	[Pair 3,6]	493.0
Limit (dB)	[Pair 3,6]	48.9

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	13.1	8.6	16.0	11.3
Freq. (MHz)	2.9	75.8	481.0	492.0
Limit (dB)	65.0	42.0	26.6	26.3
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	13.3	10.5	17.4	12.9
Freq. (MHz)	3.1	75.8	494.0	492.0
Limit (dB)	62.0	39.2	23.4	23.4

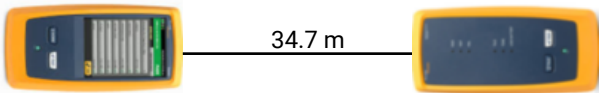
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	7,8-3,6	7,8-3,6
ACR-F (dB)	15.1	15.0	15.1	15.0
Freq. (MHz)	500.0	499.0	500.0	499.0
Limit (dB)	9.3	9.3	9.3	9.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.4	16.5	17.2	16.5
Freq. (MHz)	243.0	499.0	500.0	499.0
Limit (dB)	12.5	6.3	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	15.6	13.8	50.1	44.2
Freq. (MHz)	2.9	2.8	494.0	493.0
Limit (dB)	61.4	61.5	-22.7	-22.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.9	14.5	50.6	45.7
Freq. (MHz)	3.1	3.3	494.0	493.0
Limit (dB)	58.3	58.2	-25.6	-25.5

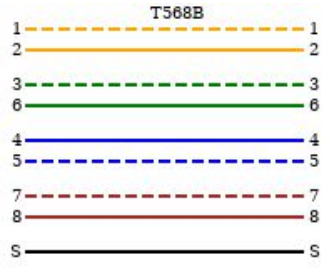
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	7,8
RL (dB)	8.4	8.8	8.4	10.2
Freq. (MHz)	398.0	89.0	398.0	497.0
Limit (dB)	6.0	12.5	6.0	6.0

Compliant Network Standards:

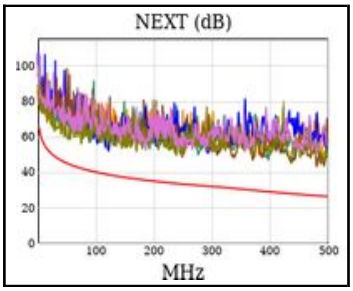
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

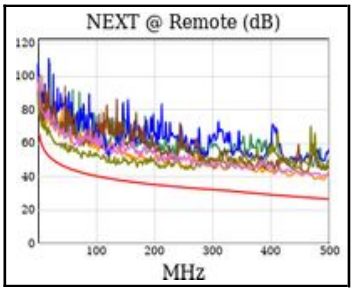


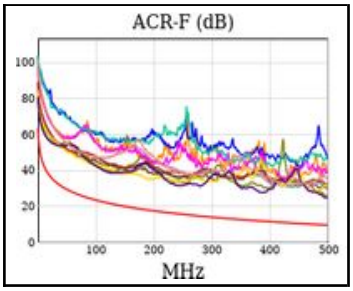
PASS

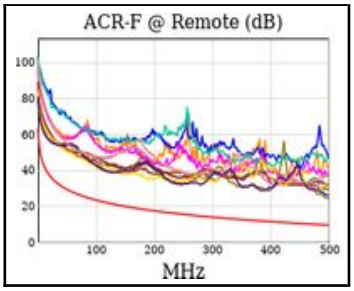


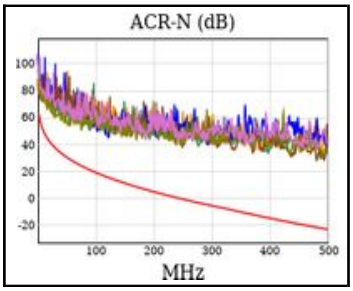


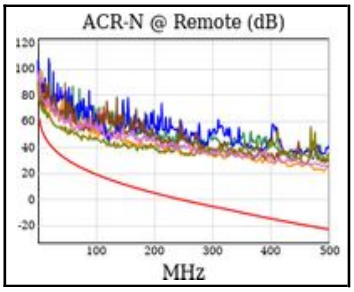


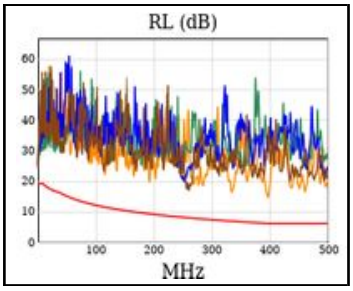


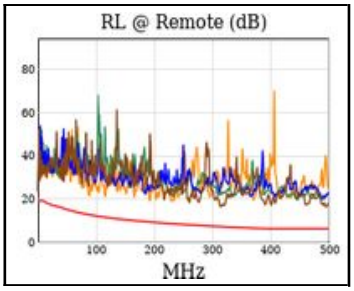












FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-218-OLT-01-1/7-SP-A07-A12-15C8-A-LAN3 **Test Summary: PASS**

Date / Time: 12/20/2023 06:41:51 PM
Headroom: 8.4 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	33.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	179
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	5.8
Insertion Loss Margin (dB)	[Pair 3,6]	33.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	3,6-4,5	3,6-7,8	3,6-4,5
NEXT (dB)	8.4	8.5	13.0	13.6
Freq. (MHz)	120.5	5.5	472.0	493.0
Limit (dB)	38.5	60.8	26.8	26.3
Worst Pair	7,8	3,6	7,8	4,5
PS NEXT (dB)	10.9	9.5	15.1	13.8
Freq. (MHz)	120.5	5.5	472.0	494.0
Limit (dB)	35.7	58.3	23.9	23.4

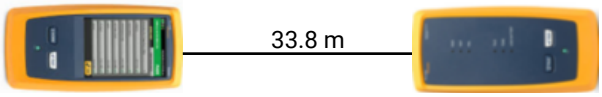
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	7,8-3,6
ACR-F (dB)	12.6	13.8	13.8	14.8
Freq. (MHz)	396.0	397.0	500.0	500.0
Limit (dB)	11.3	11.3	9.3	9.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.3	15.7	15.4	16.2
Freq. (MHz)	394.0	369.0	500.0	500.0
Limit (dB)	8.3	8.9	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-4,5
ACR-N (dB)	13.5	11.7	46.5	47.4
Freq. (MHz)	2.9	2.6	472.0	493.0
Limit (dB)	61.4	61.6	-21.0	-22.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.3	12.9	48.3	47.6
Freq. (MHz)	5.0	5.5	472.0	497.0
Limit (dB)	54.3	53.4	-23.9	-25.8

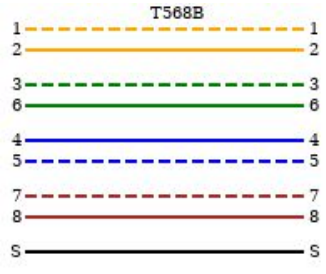
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	7,8
RL (dB)	10.2	7.5	11.6	7.5
Freq. (MHz)	72.0	465.0	472.0	465.0
Limit (dB)	13.4	6.0	6.0	6.0

Compliant Network Standards:

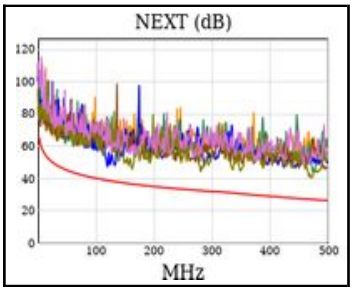
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

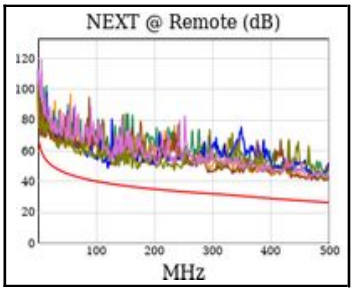


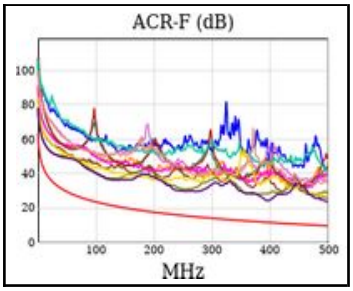
PASS

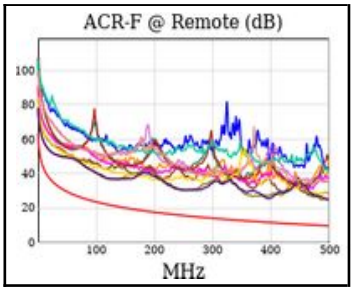


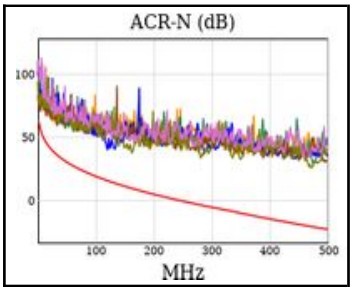


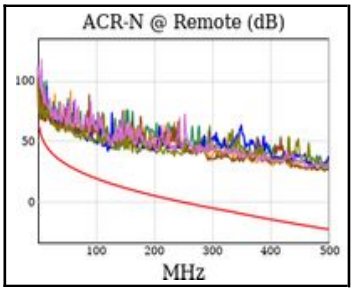


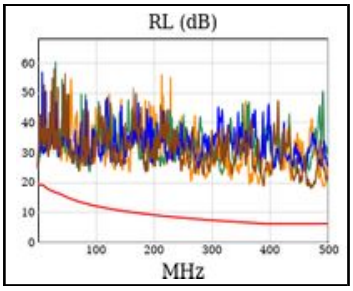


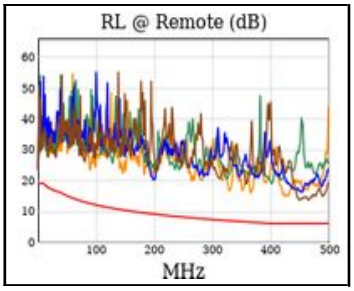












FLUKE networks

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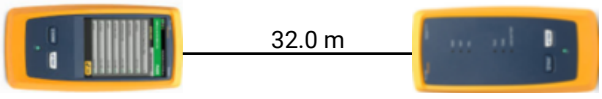
Cable ID: CT-P2-MDN-ONT-A-218-OLT-01-1/7-SP-A07-A12-15C8-A-LAN4 **Test Summary: PASS**

Date / Time: 12/20/2023 06:51:01 PM
Headroom: 9.4 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

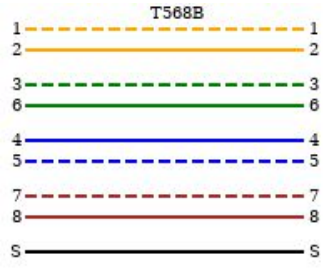
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	32.0
Prop. Delay (ns), Limit 555	[Pair 3,6]	168
Delay Skew (ns), Limit 50	[Pair 3,6]	11
Resistance (ohms)	[Pair 4,5]	5.4
Insertion Loss Margin (dB)	[Pair 3,6]	34.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

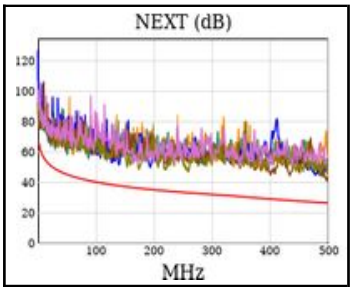


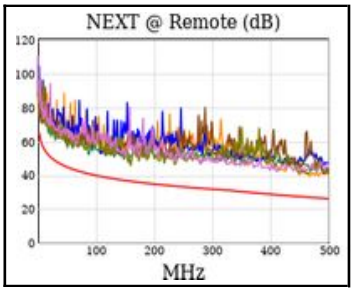
PASS



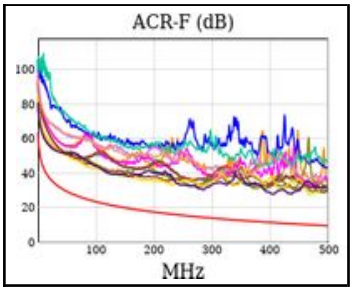


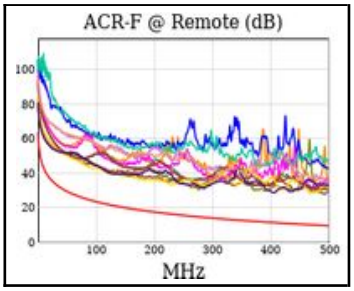
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	10.2	9.4	14.3	12.5
Freq. (MHz)	3.3	160.0	499.0	468.0
Limit (dB)	64.5	36.4	26.1	26.9
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	12.2	11.6	15.9	13.0
Freq. (MHz)	3.3	6.0	499.0	493.0
Limit (dB)	62.0	57.7	23.3	23.4



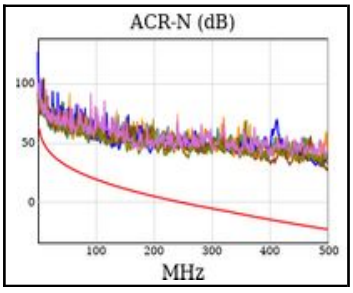


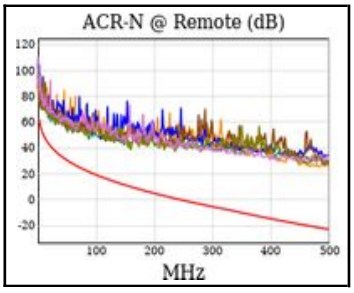
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	15.8	15.8	17.5	18.2
Freq. (MHz)	285.0	278.0	468.0	494.0
Limit (dB)	14.2	14.4	9.9	9.4
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-F (dB)	16.8	16.8	19.3	18.9
Freq. (MHz)	285.0	278.0	497.0	494.0
Limit (dB)	11.2	11.4	6.3	6.4



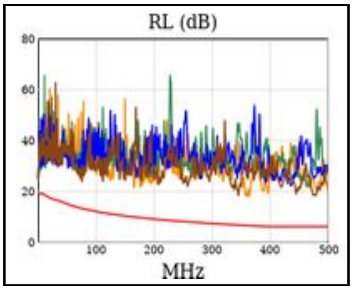


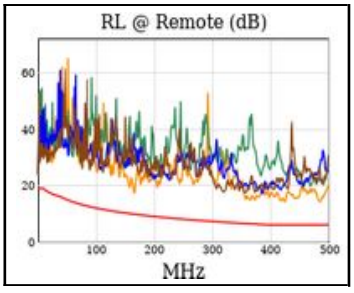
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	12.8	12.2	49.3	47.0
Freq. (MHz)	3.0	3.0	499.0	484.0
Limit (dB)	61.4	61.4	-23.1	-22.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	14.9	14.2	50.3	47.0
Freq. (MHz)	3.3	3.0	499.0	493.0
Limit (dB)	58.2	58.4	-26.0	-25.5





PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	1,2	1,2
RL (dB)	10.6	7.3	10.7	8.1
Freq. (MHz)	76.8	166.5	362.0	485.0
Limit (dB)	13.1	9.8	6.4	6.0





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	

FLUKE networks

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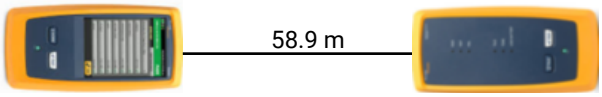
Cable ID: CT-P2-MDN-ONT-A-219-OLT-01-1/9-SP-A09-A13-1588-A-LAN1 **Test Summary: PASS**

Date / Time: 12/21/2023 04:34:53 PM
Headroom: 8.2 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

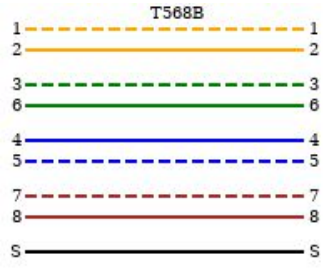
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

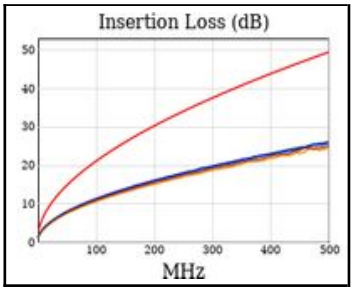
Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	58.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	312
Delay Skew (ns), Limit 50	[Pair 3,6]	23
Resistance (ohms)	[Pair 4,5]	9.8
Insertion Loss Margin (dB)	[Pair 3,6]	23.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

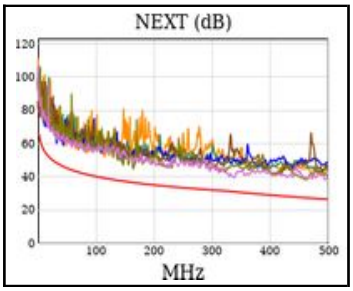


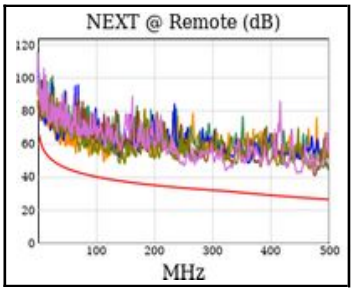
PASS



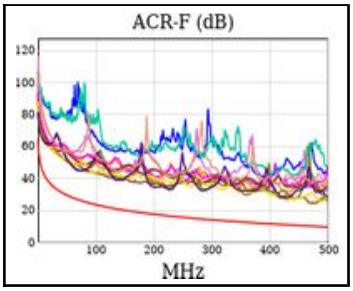


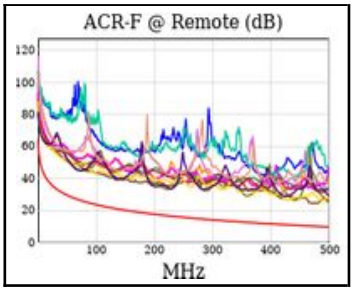
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	4,5-7,8	3,6-4,5
NEXT (dB)	8.2	9.9	11.5	13.8
Freq. (MHz)	165.0	114.0	496.0	477.0
Limit (dB)	36.2	39.0	26.2	26.7
Worst Pair	7,8	7,8	7,8	4,5
PS NEXT (dB)	9.5	11.4	10.9	14.6
Freq. (MHz)	165.0	141.5	465.0	477.0
Limit (dB)	33.3	34.5	24.1	23.8



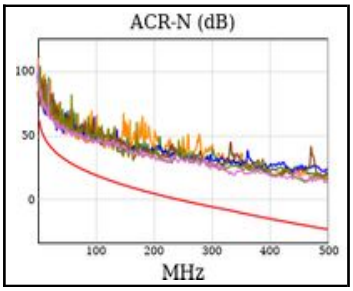


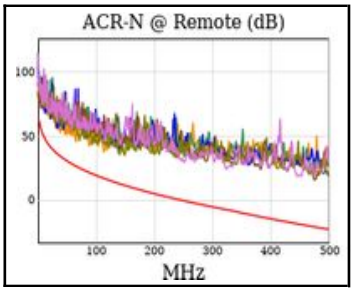
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.4	14.2	14.4	14.3
Freq. (MHz)	479.0	479.0	479.0	480.0
Limit (dB)	9.7	9.7	9.7	9.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.1	15.8	15.1	15.8
Freq. (MHz)	429.0	500.0	429.0	500.0
Limit (dB)	7.6	6.3	7.6	6.3



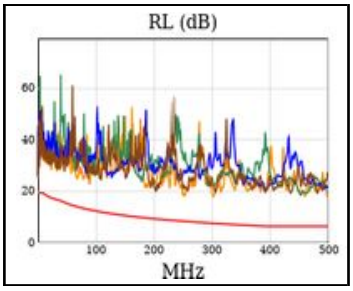


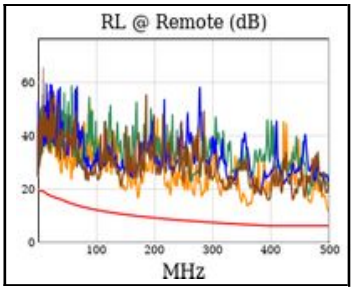
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	4,5-7,8	3,6-4,5
ACR-N (dB)	14.5	13.6	35.8	36.6
Freq. (MHz)	3.0	3.0	496.0	477.0
Limit (dB)	61.4	61.4	-22.9	-21.4
Worst Pair	3,6	3,6	4,5	4,5
PS ACR-N (dB)	16.3	14.5	36.4	37.4
Freq. (MHz)	3.1	3.3	496.0	477.0
Limit (dB)	58.3	58.2	-25.8	-24.3





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	9.6	5.3	11.3	5.3
Freq. (MHz)	254.0	500.0	500.0	500.0
Limit (dB)	8.0	6.0	6.0	6.0





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	

FLUKE networks

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Cable ID: CT-P2-MDN-ONT-A-219-OLT-01-1/9-SP-A09-A13-1588-A-LAN2

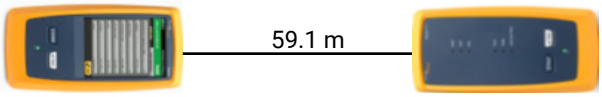
Test Summary: PASS

Date / Time: 12/21/2023 04:46:22 PM
Headroom: 7.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

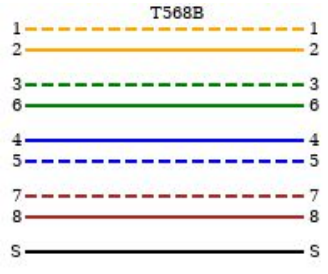
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

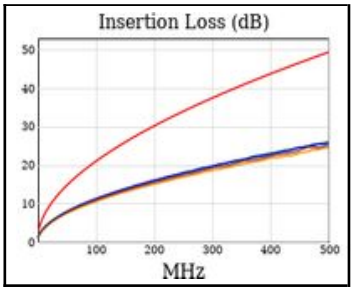
Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	59.1
Prop. Delay (ns), Limit 555	[Pair 3,6]	312
Delay Skew (ns), Limit 50	[Pair 3,6]	22
Resistance (ohms)	[Pair 4,5]	9.8
Insertion Loss Margin (dB)	[Pair 3,6]	23.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

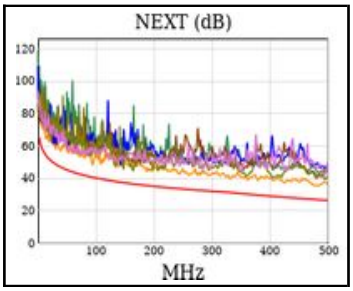


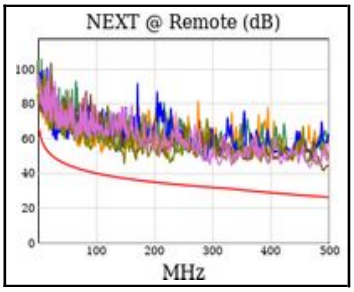
PASS



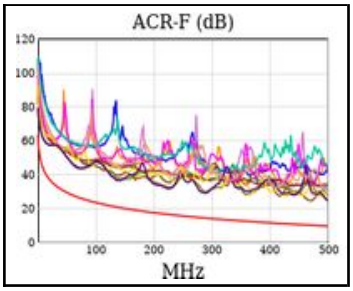


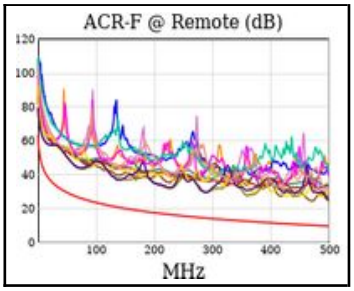
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	1,2-3,6	3,6-4,5
NEXT (dB)	7.6	8.2	8.6	15.0
Freq. (MHz)	95.0	149.0	484.0	491.0
Limit (dB)	40.3	37.0	26.5	26.3
Worst Pair	3,6	3,6	3,6	4,5
PS NEXT (dB)	8.7	10.3	9.5	17.3
Freq. (MHz)	135.5	149.0	483.0	491.0
Limit (dB)	34.8	34.1	23.6	23.4



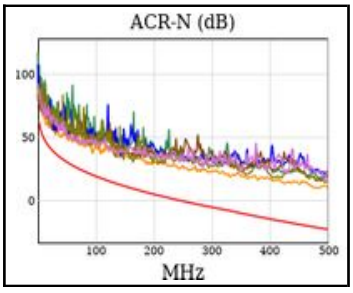


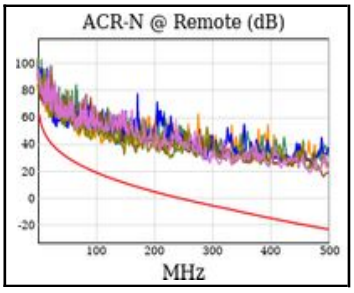
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.5	14.4	14.5	14.8
Freq. (MHz)	472.0	473.0	472.0	500.0
Limit (dB)	9.8	9.8	9.8	9.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.2	15.8	16.8	15.8
Freq. (MHz)	427.0	500.0	500.0	500.0
Limit (dB)	7.6	6.3	6.3	6.3



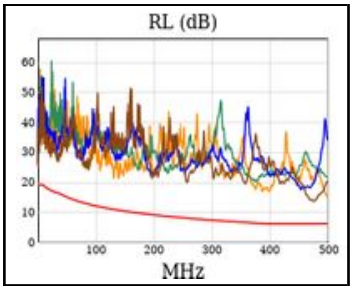


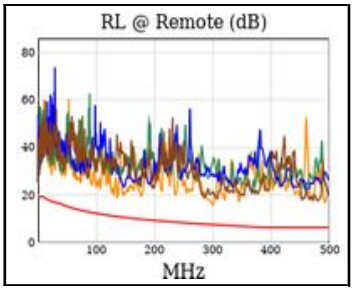
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	1,2-3,6	3,6-4,5
ACR-N (dB)	13.9	15.7	31.6	38.3
Freq. (MHz)	15.0	3.8	484.0	491.0
Limit (dB)	45.8	59.5	-22.0	-22.5
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	15.3	16.3	32.4	40.6
Freq. (MHz)	5.9	3.0	483.0	491.0
Limit (dB)	52.8	58.4	-24.8	-25.4





PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	7.5	7.8	7.5	8.2
Freq. (MHz)	476.0	137.5	476.0	301.0
Limit (dB)	6.0	10.6	6.0	7.2





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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-219-OLT-01-1/9-SP-A09-A13-1588-A-LAN3 **Test Summary: PASS**

Date / Time: 12/21/2023 04:53:25 PM
Headroom: 8.3 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	61.2
Prop. Delay (ns), Limit 555	[Pair 3,6]	323
Delay Skew (ns), Limit 50	[Pair 3,6]	23
Resistance (ohms)	[Pair 4,5]	10.1
Insertion Loss Margin (dB)	[Pair 3,6]	22.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	1,2-4,5	4,5-7,8
NEXT (dB)	8.3	9.9	14.9	12.0
Freq. (MHz)	123.5	141.5	500.0	489.0
Limit (dB)	38.4	37.4	26.1	26.4
Worst Pair	3,6	7,8	1,2	4,5
PS NEXT (dB)	9.9	11.5	13.7	14.5
Freq. (MHz)	123.5	141.5	500.0	489.0
Limit (dB)	35.5	34.5	23.2	23.5

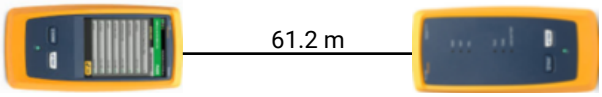
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	7,8-3,6	7,8-3,6	7,8-3,6
ACR-F (dB)	14.7	14.3	15.2	14.5
Freq. (MHz)	459.0	349.0	492.0	493.0
Limit (dB)	10.0	12.4	9.4	9.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.9	15.3	15.9	15.4
Freq. (MHz)	492.0	490.0	492.0	492.0
Limit (dB)	6.4	6.5	6.4	6.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	4,5-7,8
ACR-N (dB)	12.5	15.1	37.7	35.3
Freq. (MHz)	3.0	3.1	500.0	489.0
Limit (dB)	61.4	61.1	-23.2	-22.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	12.7	15.9	37.8	36.9
Freq. (MHz)	6.0	3.1	500.0	489.0
Limit (dB)	52.6	58.3	-26.1	-25.2

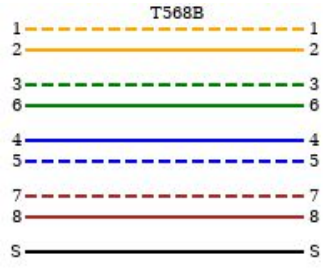
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	9.0	7.7	9.0	7.7
Freq. (MHz)	498.0	475.0	498.0	475.0
Limit (dB)	6.0	6.0	6.0	6.0

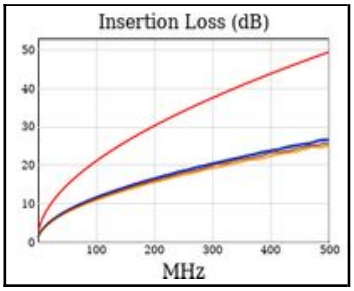
Compliant Network Standards:

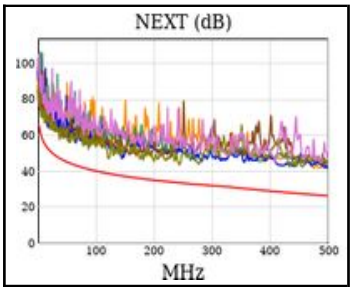
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

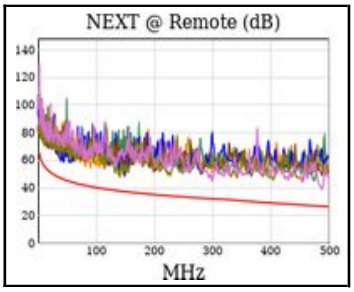


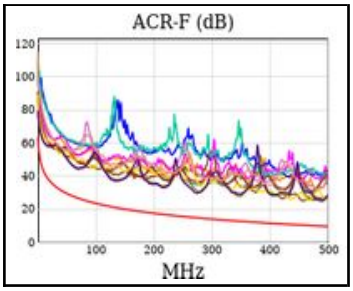
PASS

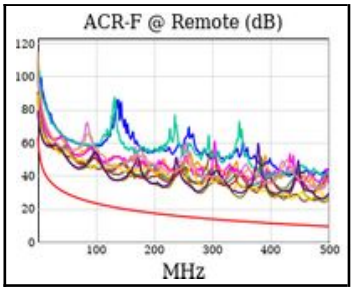


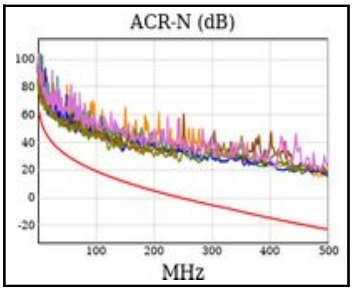


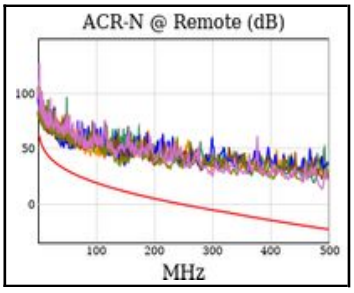


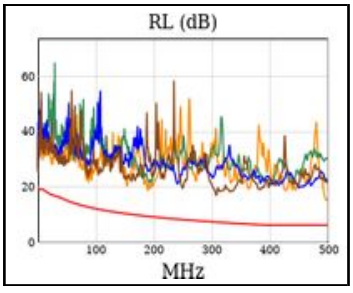


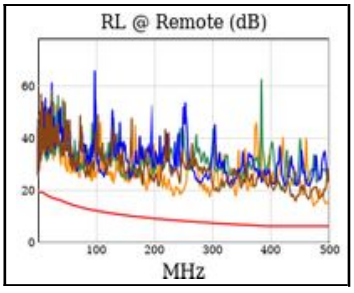












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Cable ID: CT-P2-MDN-ONT-A-219-OLT-01-1/9-SP-A09-A13-1588-A-LAN4 **Test Summary: PASS**

Date / Time: 12/21/2023 04:55:50 PM
Headroom: 10 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	61.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	326
Delay Skew (ns), Limit 50	[Pair 3,6]	23
Resistance (ohms)	[Pair 4,5]	10.1
Insertion Loss Margin (dB)	[Pair 3,6]	21.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-7,8	1,2-3,6	3,6-4,5
NEXT (dB)	10.0	11.6	10.0	13.9
Freq. (MHz)	483.0	130.0	483.0	494.0
Limit (dB)	26.5	38.0	26.5	26.2
Worst Pair	1,2	3,6	1,2	4,5
PS NEXT (dB)	11.0	13.6	11.0	15.6
Freq. (MHz)	473.0	3.8	473.0	494.0
Limit (dB)	23.9	61.0	23.9	23.4

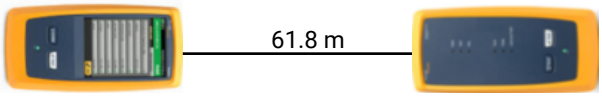
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	7,8-3,6	7,8-3,6
ACR-F (dB)	14.9	15.2	14.9	15.2
Freq. (MHz)	486.0	488.0	486.0	488.0
Limit (dB)	9.5	9.5	9.5	9.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.9	16.3	16.0	17.1
Freq. (MHz)	484.0	347.0	487.0	486.0
Limit (dB)	6.6	9.5	6.5	6.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-4,5
ACR-N (dB)	11.7	14.3	31.1	35.8
Freq. (MHz)	3.0	3.8	483.0	494.0
Limit (dB)	61.4	59.5	-21.9	-22.7
Worst Pair	4,5	3,6	3,6	4,5
PS ACR-N (dB)	13.4	15.4	32.9	37.6
Freq. (MHz)	4.5	3.8	482.0	494.0
Limit (dB)	55.3	57.0	-24.7	-25.6

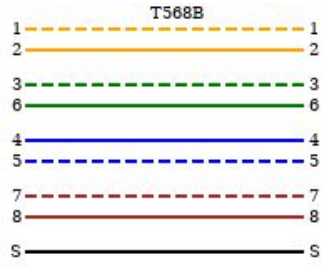
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	4,5	7,8
RL (dB)	8.4	9.2	10.9	9.2
Freq. (MHz)	36.8	410.0	465.0	410.0
Limit (dB)	16.2	6.0	6.0	6.0

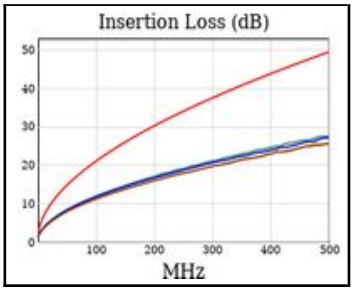
Compliant Network Standards:

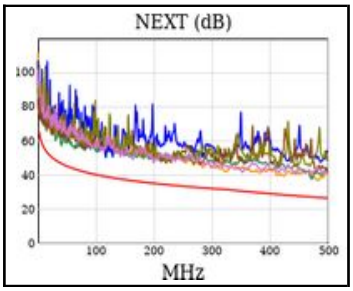
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

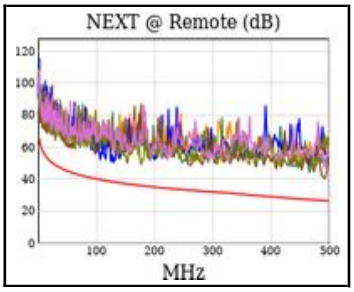


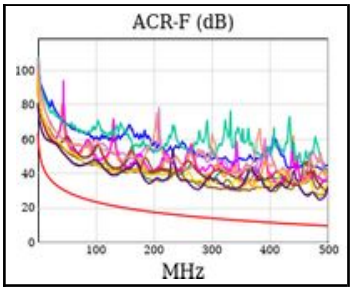
PASS

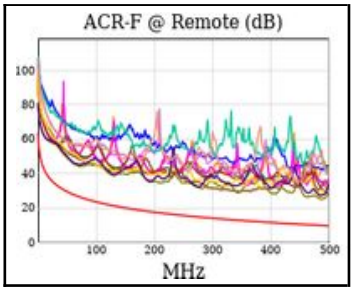


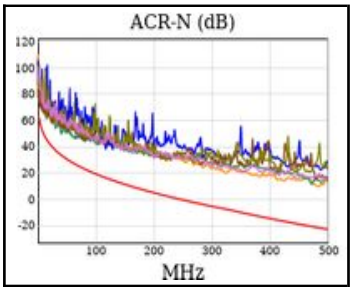


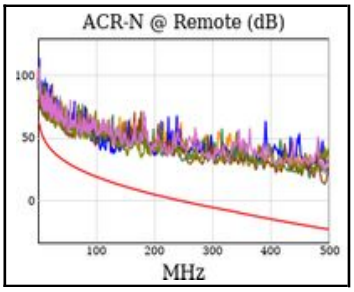


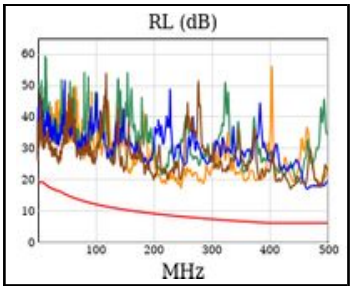


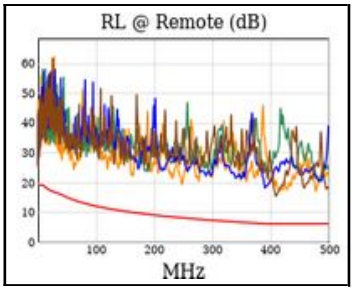












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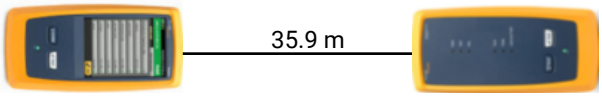
Cable ID: CT-P2-MDN-ONT-A-220-OLT-01-1/9-SP-A09-A13-1820-A-LAN1 **Test Summary: PASS**

Date / Time: 12/21/2023 05:06:30 PM
Headroom: 8.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

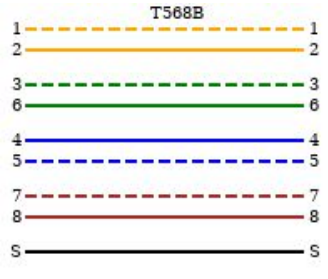
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	35.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	190
Delay Skew (ns), Limit 50	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	33.1
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

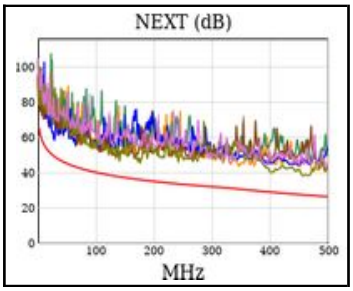


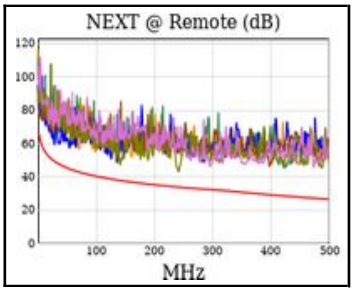
PASS



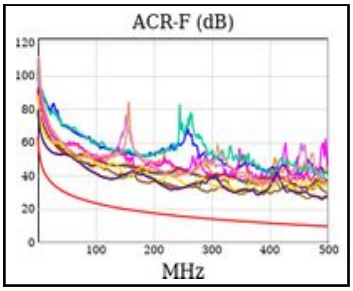


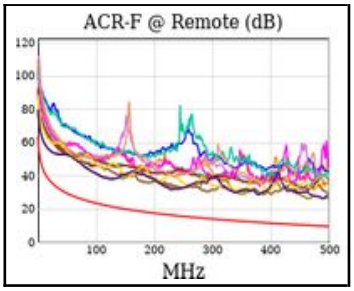
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	8.8	9.2	10.8	9.3
Freq. (MHz)	141.5	142.0	459.0	242.5
Limit (dB)	37.4	37.3	27.1	33.3
Worst Pair	3,6	3,6	7,8	3,6
PS NEXT (dB)	9.9	11.3	12.6	18.6
Freq. (MHz)	141.5	142.0	468.0	488.0
Limit (dB)	34.5	34.4	24.0	23.5



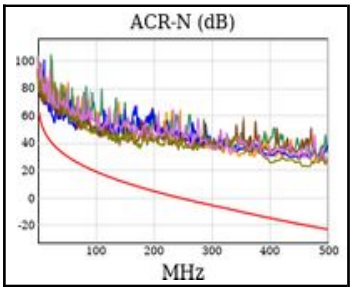


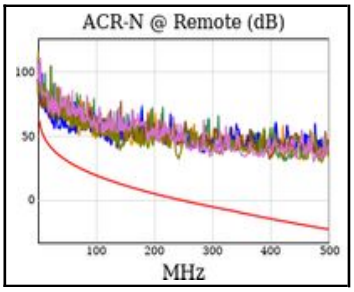
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	7,8-3,6
ACR-F (dB)	15.1	15.2	15.9	16.0
Freq. (MHz)	231.5	229.0	490.0	467.0
Limit (dB)	16.0	16.1	9.5	9.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.0	16.5	18.5	18.2
Freq. (MHz)	338.0	247.0	492.0	499.0
Limit (dB)	9.7	12.4	6.4	6.3



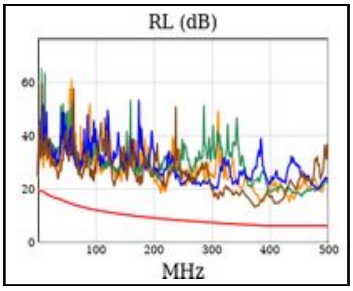


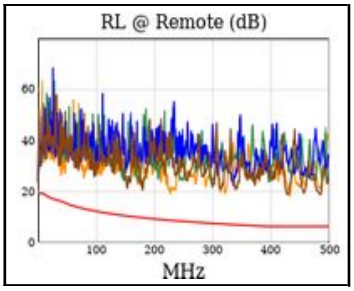
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	15.5	14.4	43.1	51.5
Freq. (MHz)	2.5	2.9	467.0	488.0
Limit (dB)	61.7	61.4	-20.6	-22.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	16.9	16.5	46.8	51.1
Freq. (MHz)	2.5	2.9	497.0	488.0
Limit (dB)	58.7	58.4	-25.8	-25.1





PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	6.7	10.2	6.7	11.7
Freq. (MHz)	374.0	40.8	374.0	434.0
Limit (dB)	6.3	15.9	6.3	6.0





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	

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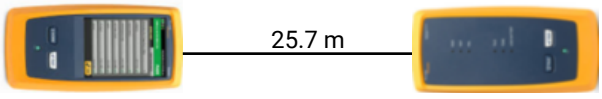
Cable ID: CT-P2-MDN-ONT-A214-OLT-01-1/1-SP-A01-A01-1400-A-LAN1 **Test Summary: PASS**

Date / Time: 12/20/2023 04:50:53 PM
Headroom: 8.5 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

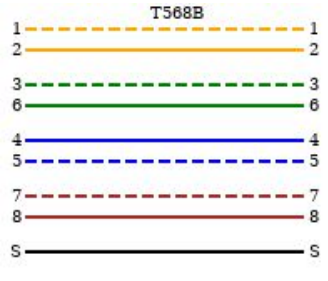
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	25.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	135
Delay Skew (ns), Limit 50	[Pair 3,6]	9
Resistance (ohms)	[Pair 4,5]	4.6
Insertion Loss Margin (dB)	[Pair 3,6]	36.9
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	49.1

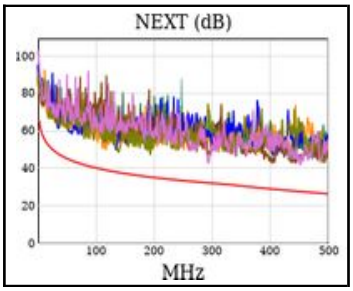


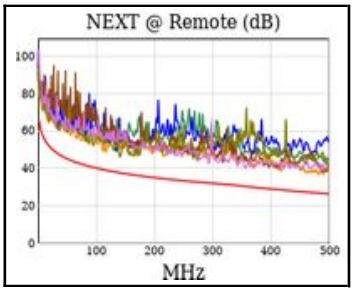
PASS



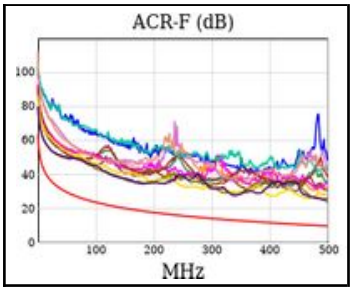


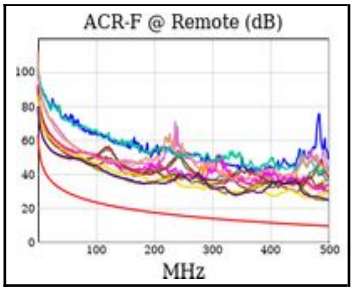
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	3,6-7,8	4,5-7,8	1,2-3,6
NEXT (dB)	10.5	8.5	13.8	9.6
Freq. (MHz)	295.0	141.5	453.0	483.0
Limit (dB)	31.9	37.4	27.3	26.5
Worst Pair	7,8	3,6	4,5	3,6
PS NEXT (dB)	12.0	9.6	15.1	10.5
Freq. (MHz)	136.0	166.0	454.0	492.0
Limit (dB)	34.8	33.3	24.3	23.4



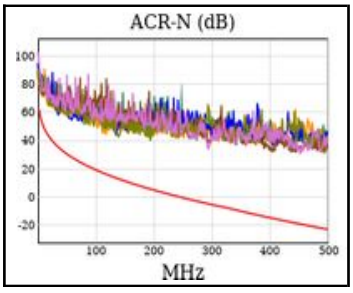


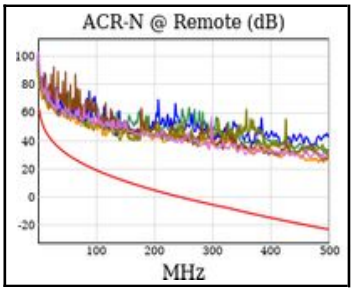
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	14.5	14.7	14.6	14.9
Freq. (MHz)	339.0	339.0	500.0	500.0
Limit (dB)	12.7	12.7	9.3	9.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.2	16.3	15.7	16.3
Freq. (MHz)	343.0	491.0	500.0	491.0
Limit (dB)	9.6	6.4	6.3	6.4



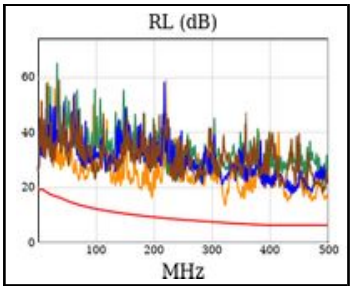


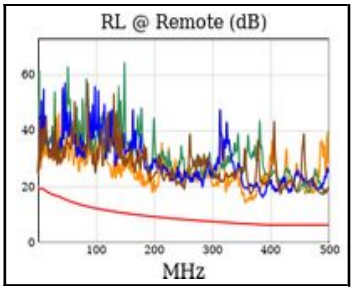
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	4,5-7,8	1,2-3,6
ACR-N (dB)	18.1	16.3	49.5	46.6
Freq. (MHz)	3.5	3.1	453.0	492.0
Limit (dB)	60.1	61.1	-19.5	-22.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	16.2	15.2	52.8	47.2
Freq. (MHz)	3.5	3.6	491.0	492.0
Limit (dB)	57.6	57.3	-25.4	-25.5





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	6.2	7.3	6.2	7.3
Freq. (MHz)	324.0	357.0	324.0	357.0
Limit (dB)	6.9	6.5	6.9	6.5





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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A214-OLT-01-1/1-SP-A01-A01-1400-A-LAN2

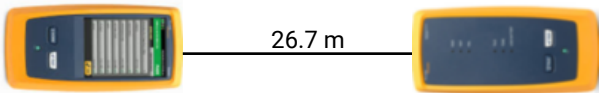
Test Summary: PASS

Date / Time: 12/20/2023 04:57:17 PM
Headroom: 7.1 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

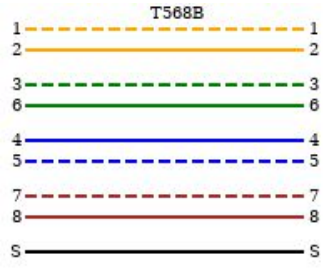
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

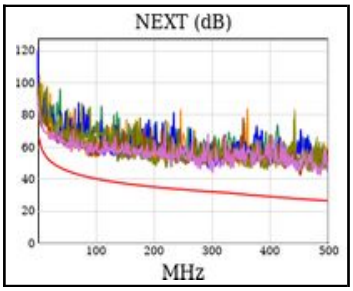
Length (m), Limit 100	[Pair 1,2]	26.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	141
Delay Skew (ns), Limit 50	[Pair 3,6]	10
Resistance (ohms)	[Pair 4,5]	4.7
Insertion Loss Margin (dB)	[Pair 3,6]	36.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

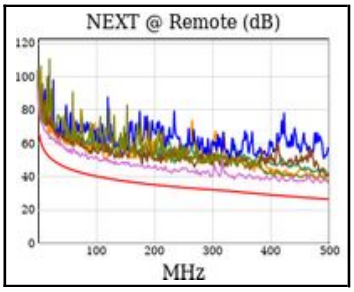


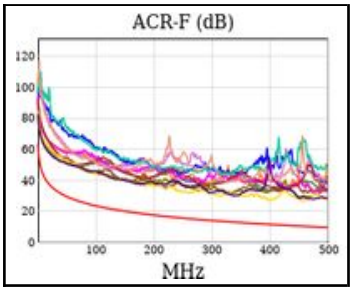
PASS

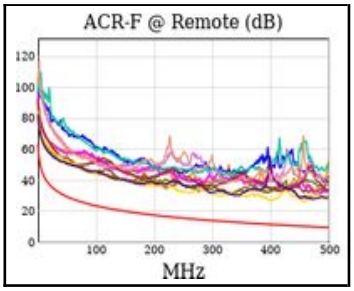


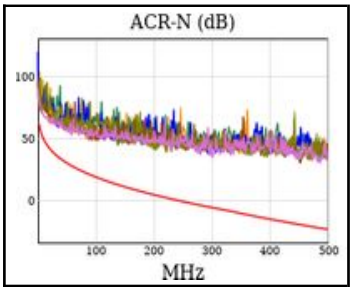


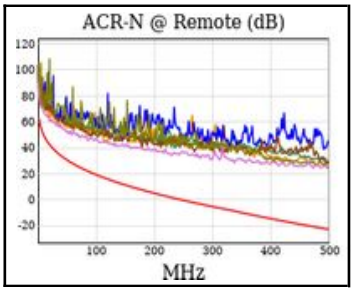


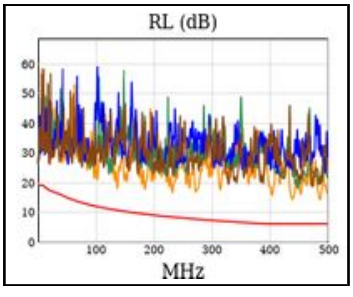


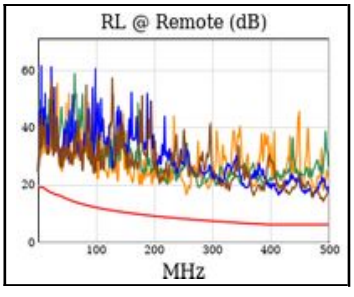












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-7,8	3,6-4,5	4,5-7,8
NEXT (dB)	10.1	7.1	14.5	9.4
Freq. (MHz)	3.3	338.0	453.0	487.0
Limit (dB)	64.5	30.7	27.3	26.4
Worst Pair	4,5	7,8	7,8	7,8
PS NEXT (dB)	11.7	9.6	17.0	10.5
Freq. (MHz)	3.3	338.0	483.0	499.0
Limit (dB)	62.0	27.7	23.6	23.3

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)	15.4	15.2	16.8	15.8
Freq. (MHz)	402.0	402.0	500.0	459.0
Limit (dB)	11.2	11.2	9.3	10.0
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	17.0	17.4	17.8	18.8
Freq. (MHz)	339.0	402.0	500.0	500.0
Limit (dB)	9.7	8.2	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	4,5-7,8
ACR-N (dB)	13.0	12.9	49.5	46.2
Freq. (MHz)	3.3	3.1	453.0	487.0
Limit (dB)	60.7	61.1	-19.5	-22.2
Worst Pair	4,5	4,5	4,5	3,6
PS ACR-N (dB)	14.6	14.0	53.8	47.4
Freq. (MHz)	3.3	3.3	487.0	498.0
Limit (dB)	58.2	58.2	-25.1	-25.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	7.3	8.0	8.1	8.0
Freq. (MHz)	137.5	491.0	487.0	491.0
Limit (dB)	10.6	6.0	6.0	6.0

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	

FLUKE networks

LinkWare Live

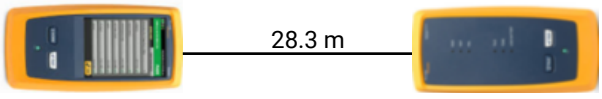
Cable ID: CT-P2-MDN-ONT-A214-OLT-01-1/1-SP-A01-A01-1400-A-LAN3 **Test Summary: PASS**

Date / Time: 12/20/2023 04:59:58 PM
Headroom: 6.7 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

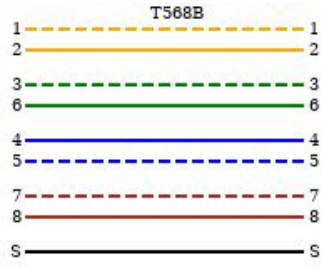
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	28.3
Prop. Delay (ns), Limit 555	[Pair 3,6]	150
Delay Skew (ns), Limit 50	[Pair 3,6]	11
Resistance (ohms)	[Pair 4,5]	5.0
Insertion Loss Margin (dB)	[Pair 3,6]	35.5
Frequency (MHz)	[Pair 3,6]	491.0
Limit (dB)	[Pair 3,6]	48.8

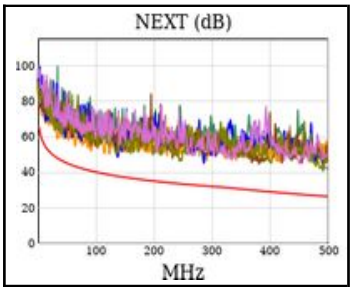


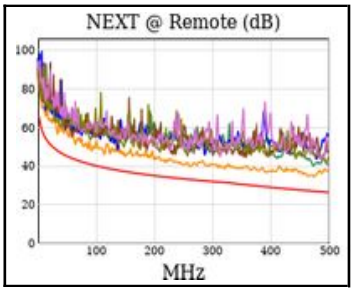
PASS



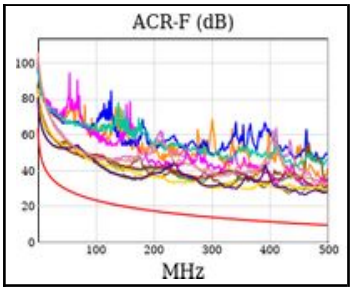


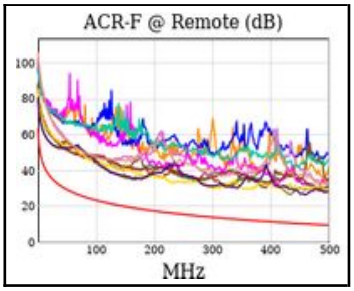
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-3,6	3,6-7,8	1,2-3,6
NEXT (dB)	10.7	6.7	14.2	7.4
Freq. (MHz)	138.5	262.0	493.0	475.0
Limit (dB)	37.5	32.8	26.3	26.7
Worst Pair	7,8	3,6	3,6	1,2
PS NEXT (dB)	11.5	8.8	15.2	9.0
Freq. (MHz)	138.5	261.0	492.0	475.0
Limit (dB)	34.6	29.8	23.4	23.8



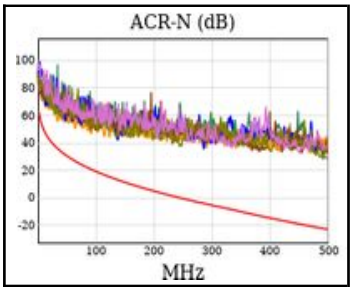


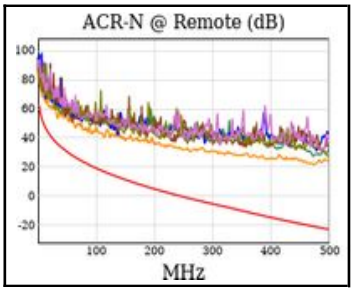
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	7,8-3,6	3,6-7,8
ACR-F (dB)	15.9	15.8	16.4	16.3
Freq. (MHz)	162.0	162.0	462.0	459.0
Limit (dB)	19.1	19.1	10.0	10.0
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	16.5	17.4	17.9	18.4
Freq. (MHz)	300.0	300.0	498.0	500.0
Limit (dB)	10.7	10.7	6.3	6.3



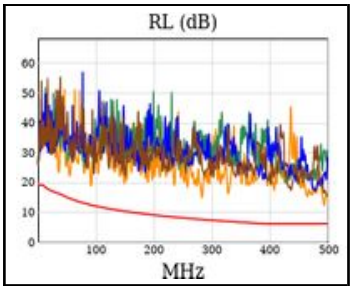


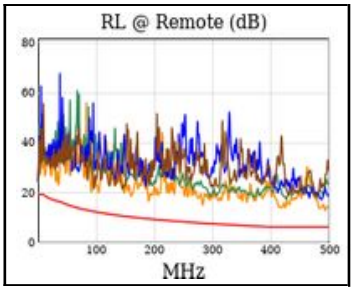
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	15.2	15.7	50.6	42.4
Freq. (MHz)	3.0	3.0	493.0	475.0
Limit (dB)	61.4	61.4	-22.7	-21.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.9	15.5	50.9	44.9
Freq. (MHz)	3.1	3.1	492.0	475.0
Limit (dB)	58.3	58.3	-25.5	-24.1





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	6.0	6.4	6.0	6.4
Freq. (MHz)	494.0	494.0	494.0	494.0
Limit (dB)	6.0	6.0	6.0	6.0





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	

FLUKE networks

LinkWare Live

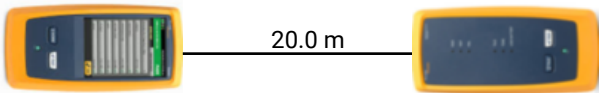
Cable ID: CT-P2-MDN-ONT-A215-OLT-01-1/1-SP-A01-A02-1480-A-LAN1 **Test Summary: PASS**

Date / Time: 12/21/2023 02:07:42 PM
Headroom: 9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

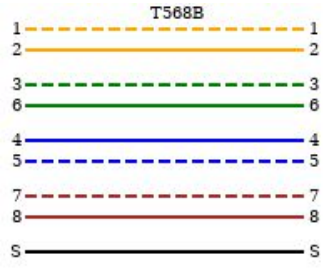
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	20.0
Prop. Delay (ns), Limit 555	[Pair 3,6]	104
Delay Skew (ns), Limit 50	[Pair 3,6]	6
Resistance (ohms)	[Pair 4,5]	3.6
Insertion Loss Margin (dB)	[Pair 3,6]	39.2
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	49.1

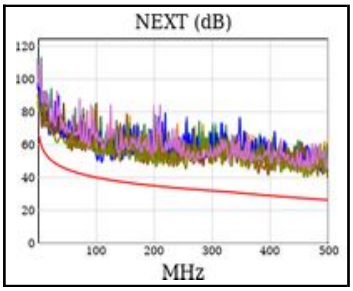


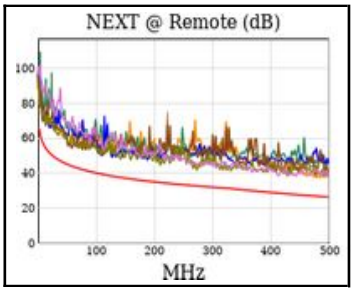
PASS



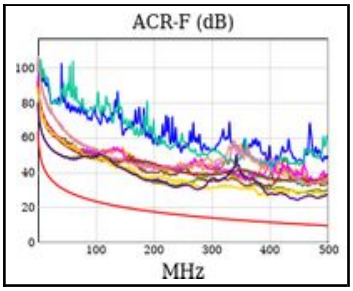


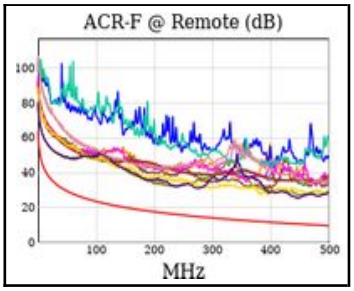
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	3,6-7,8	3,6-7,8	1,2-3,6
NEXT (dB)	9.9	9.0	13.5	10.6
Freq. (MHz)	111.0	274.0	500.0	487.0
Limit (dB)	39.2	32.4	26.1	26.4
Worst Pair	7,8	7,8	7,8	3,6
PS NEXT (dB)	12.2	10.1	14.5	10.3
Freq. (MHz)	111.5	274.0	500.0	493.0
Limit (dB)	36.3	29.5	23.2	23.4



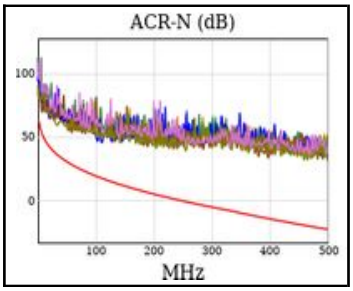


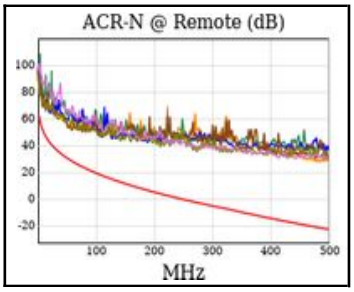
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	13.6	14.6	13.7	14.7
Freq. (MHz)	447.0	447.0	448.0	448.0
Limit (dB)	10.3	10.3	10.2	10.2
Worst Pair	3,6	7,8	3,6	7,8
PS ACR-F (dB)	15.4	17.3	15.4	17.4
Freq. (MHz)	448.0	447.0	448.0	448.0
Limit (dB)	7.2	7.3	7.2	7.2



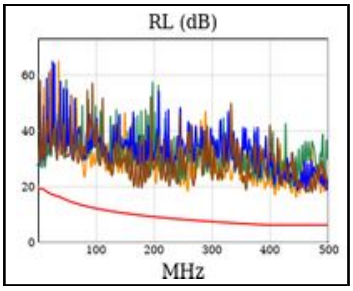


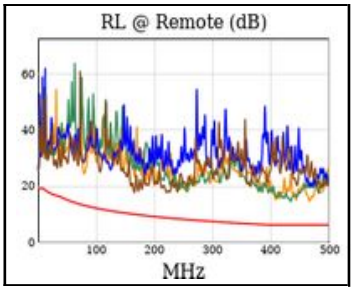
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	16.9	17.1	53.9	49.4
Freq. (MHz)	7.6	8.8	500.0	487.0
Limit (dB)	52.8	51.5	-23.2	-22.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	18.2	16.7	54.8	49.4
Freq. (MHz)	7.9	8.8	500.0	493.0
Limit (dB)	50.0	48.9	-26.1	-25.5





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	3,6
RL (dB)	9.6	7.7	9.6	8.3
Freq. (MHz)	446.0	166.5	446.0	435.0
Limit (dB)	6.0	9.8	6.0	6.0





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	

FLUKE networks

LinkWare Live

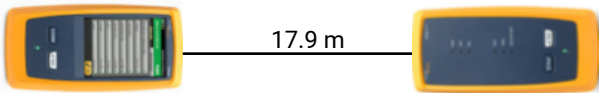
Cable ID: CT-P2-MDN-ONT-A216-OLT-01-1/5-SP-A05-A02-1828-A-LAN1 **Test Summary: PASS**

Date / Time: 12/21/2023 02:36:47 PM
Headroom: 7.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

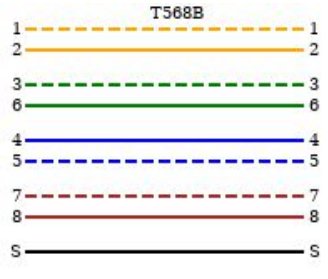
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

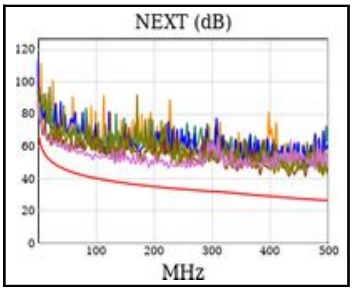
Length (m), Limit 100	[Pair 1,2]	17.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	94
Delay Skew (ns), Limit 50	[Pair 3,6]	6
Resistance (ohms)	[Pair 3,6]	3.3
Insertion Loss Margin (dB)	[Pair 3,6]	40.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

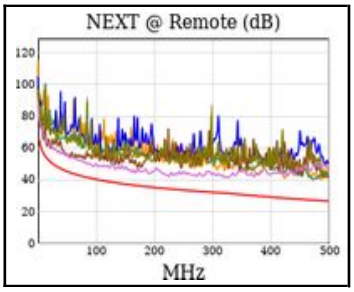


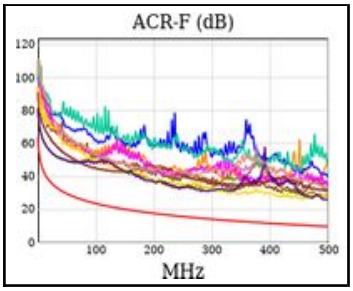
PASS

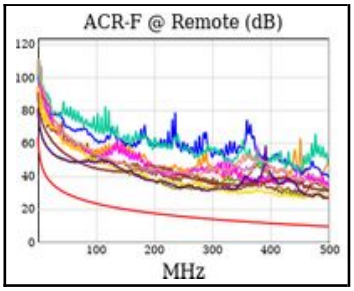


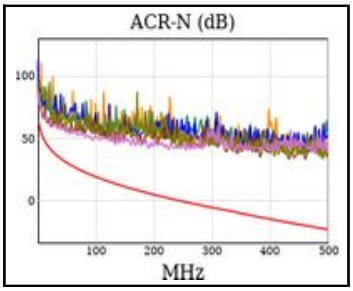


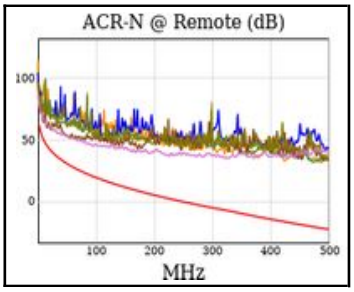


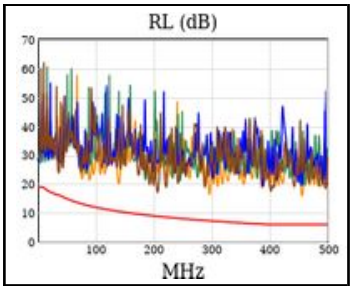


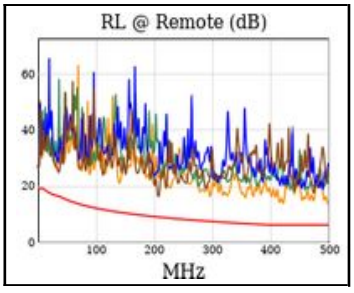












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	9.9	7.8	13.9	13.2
Freq. (MHz)	9.4	16.6	462.0	488.0
Limit (dB)	57.0	53.0	27.0	26.4
Worst Pair	4,5	4,5	3,6	1,2
PS NEXT (dB)	10.5	8.4	15.6	13.9
Freq. (MHz)	9.4	16.3	492.0	487.0
Limit (dB)	54.5	50.5	23.4	23.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	7,8-3,6
ACR-F (dB)	15.6	16.0	16.1	16.7
Freq. (MHz)	457.0	457.0	500.0	492.0
Limit (dB)	10.1	10.1	9.3	9.4
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	16.5	17.7	16.5	18.6
Freq. (MHz)	500.0	245.0	500.0	499.0
Limit (dB)	6.3	12.5	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	14.1	13.8	53.1	52.9
Freq. (MHz)	3.1	10.1	462.0	488.0
Limit (dB)	61.1	50.0	-20.2	-22.3
Worst Pair	4,5	4,5	3,6	3,6
PS ACR-N (dB)	15.3	14.5	55.5	53.6
Freq. (MHz)	3.3	10.1	492.0	488.0
Limit (dB)	58.2	47.4	-25.5	-25.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	1,2	1,2
RL (dB)	8.3	7.3	9.9	7.4
Freq. (MHz)	207.0	208.0	456.0	499.0
Limit (dB)	8.8	8.8	6.0	6.0

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	

FLUKE networks

LinkWare Live

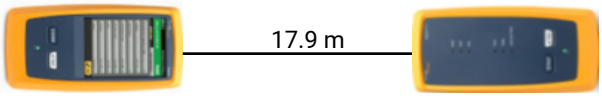
Cable ID: CT-P2-MDN-ONT-A216-OLT-01-1/5-SP-A05-A02-1828-A-LAN2 **Test Summary: PASS**

Date / Time: 12/21/2023 02:47:01 PM
Headroom: 9.1 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

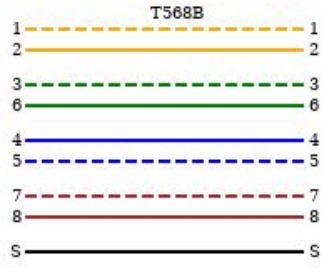
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

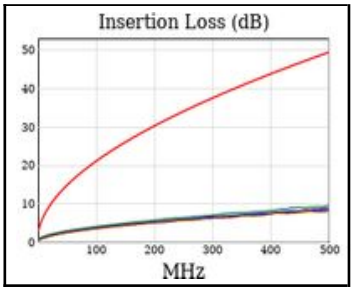
Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

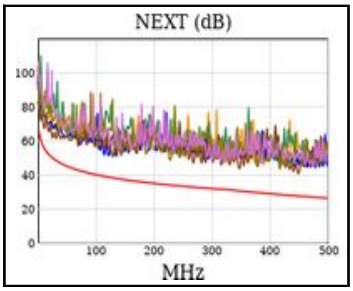
Length (m), Limit 100	[Pair 1,2]	17.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	94
Delay Skew (ns), Limit 50	[Pair 3,6]	6
Resistance (ohms)	[Pair 3,6]	9.1
Insertion Loss Margin (dB)	[Pair 3,6]	39.9
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

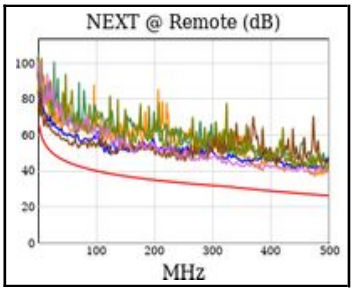


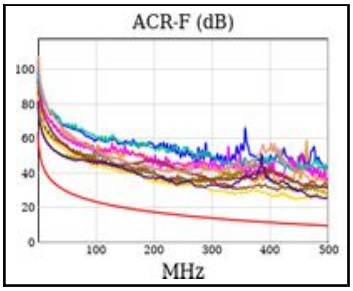
PASS

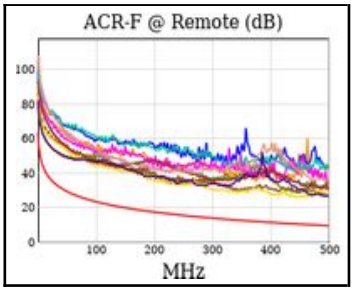


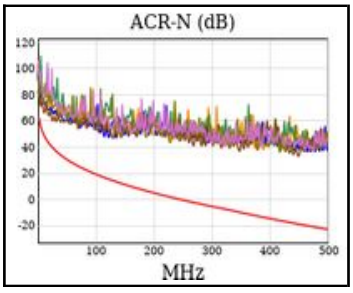


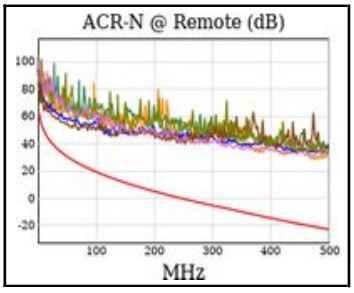


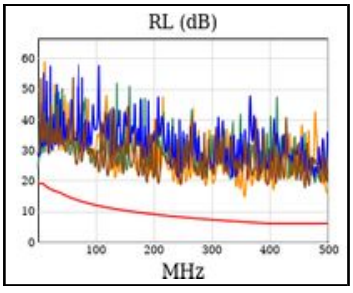


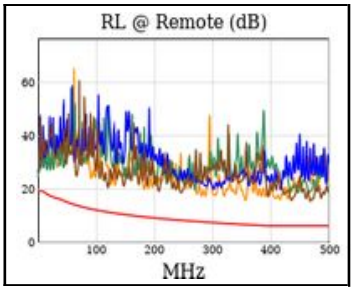












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
NEXT (dB)	11.0	9.1	13.1	10.3
Freq. (MHz)	5.5	11.4	450.0	476.0
Limit (dB)	60.8	55.7	27.3	26.7
Worst Pair	3,6	1,2	4,5	1,2
PS NEXT (dB)	12.7	11.3	14.9	11.3
Freq. (MHz)	5.1	476.0	450.0	476.0
Limit (dB)	58.8	23.8	24.4	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)	14.2	15.2	14.2	15.2
Freq. (MHz)	446.0	446.0	446.0	446.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	15.6	17.6	16.1	18.3
Freq. (MHz)	471.0	446.0	500.0	500.0
Limit (dB)	6.8	7.3	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	14.9	13.5	51.7	49.4
Freq. (MHz)	5.0	5.3	450.0	477.0
Limit (dB)	56.9	56.4	-19.2	-21.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	16.4	15.4	53.1	51.7
Freq. (MHz)	5.1	5.3	450.0	490.0
Limit (dB)	54.1	53.9	-22.1	-25.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	7,8
RL (dB)	8.1	9.0	8.1	9.2
Freq. (MHz)	357.0	358.0	357.0	469.0
Limit (dB)	6.5	6.5	6.5	6.0

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	

FLUKE networks

LinkWare Live

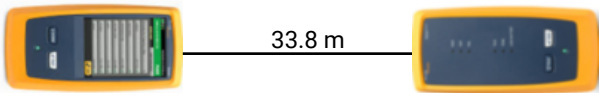
Cable ID: CT-P2-MDN-ONT-A218-OLT-01-1/7-SP-A01-A07-15C8-A-LAN1 **Test Summary: PASS**

Date / Time: 12/20/2023 06:35:00 PM
Headroom: 7.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

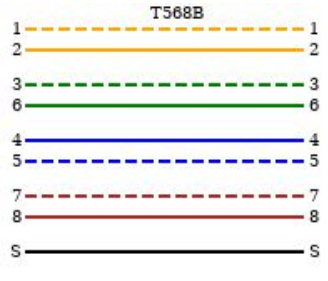
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	33.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	178
Delay Skew (ns), Limit 50	[Pair 3,6]	12
Resistance (ohms)	[Pair 4,5]	5.7
Insertion Loss Margin (dB)	[Pair 3,6]	33.4
Frequency (MHz)	[Pair 3,6]	498.0
Limit (dB)	[Pair 3,6]	49.2

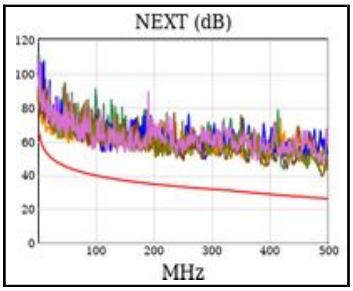


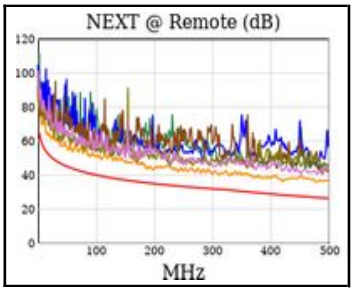
PASS



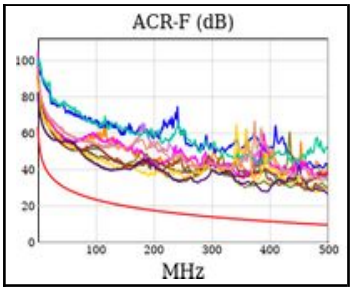


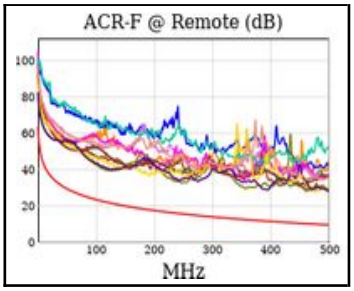
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-4,5	1,2-3,6
NEXT (dB)	11.9	7.8	12.9	9.0
Freq. (MHz)	14.8	422.0	490.0	479.0
Limit (dB)	53.8	28.1	26.3	26.6
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	13.2	10.2	14.8	11.1
Freq. (MHz)	4.5	422.0	490.0	490.0
Limit (dB)	59.7	25.2	23.5	23.5



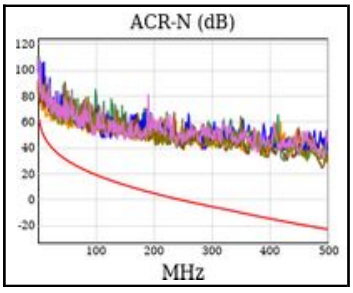


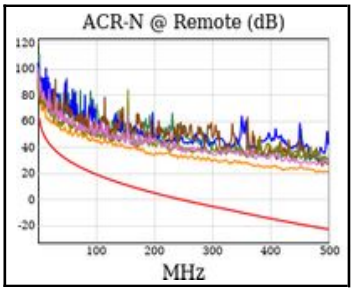
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	7,8-3,6	3,6-4,5
ACR-F (dB)	16.2	17.0	17.1	17.7
Freq. (MHz)	397.0	357.0	500.0	478.0
Limit (dB)	11.3	12.2	9.3	9.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	18.2	18.3	18.2	18.6
Freq. (MHz)	500.0	465.0	500.0	498.0
Limit (dB)	6.3	6.9	6.3	6.3



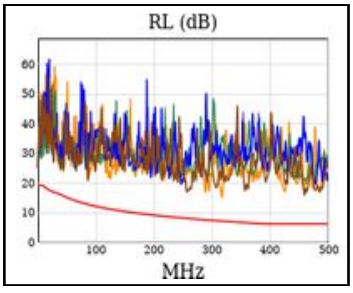


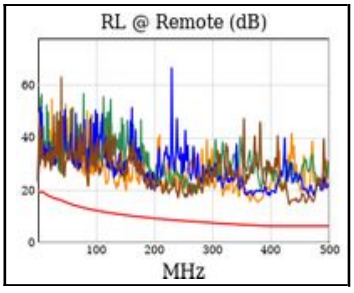
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	3,6-4,5	1,2-3,6
ACR-N (dB)	15.7	14.5	46.4	42.0
Freq. (MHz)	4.0	7.4	490.0	479.0
Limit (dB)	58.9	53.2	-22.4	-21.6
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	16.1	15.2	48.4	45.0
Freq. (MHz)	4.1	4.9	490.0	499.0
Limit (dB)	56.1	54.6	-25.3	-26.0





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	7.6	8.2	7.6	8.2
Freq. (MHz)	318.0	433.0	318.0	433.0
Limit (dB)	7.0	6.0	7.0	6.0





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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A218-OLT-01-1/7-SP-A07-A12-15C8-A-LAN2

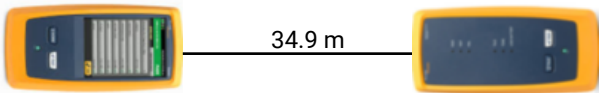
Test Summary: PASS

Date / Time: 12/20/2023 06:38:48 PM
Headroom: 9.6 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

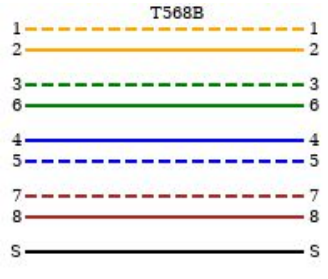
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	34.9
Prop. Delay (ns), Limit 555	[Pair 3,6]	184
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	33.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

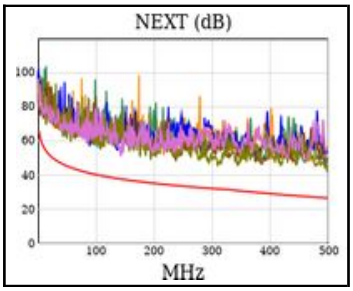


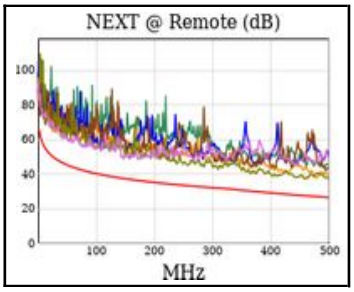
PASS



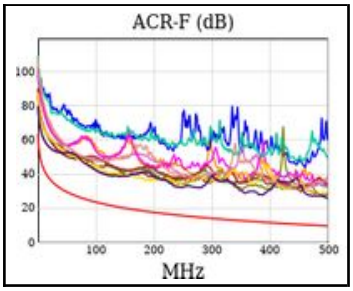


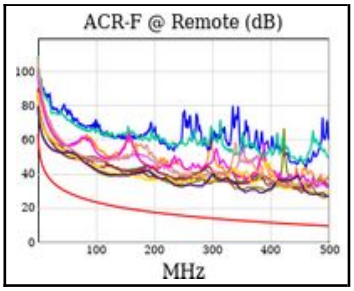
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	13.0	9.6	15.4	10.6
Freq. (MHz)	311.0	459.0	500.0	500.0
Limit (dB)	31.5	27.1	26.1	26.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	14.8	10.5	15.8	10.9
Freq. (MHz)	5.1	367.0	500.0	496.0
Limit (dB)	58.8	26.8	23.2	23.3



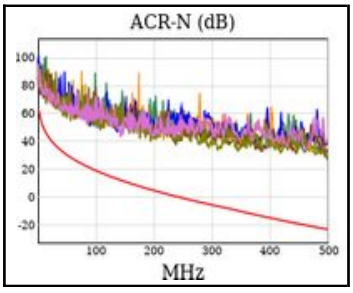


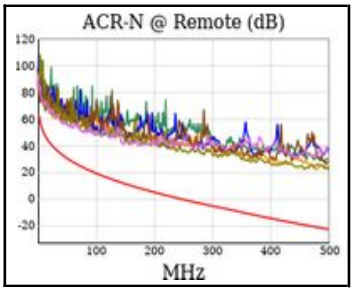
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	4,5-3,6	7,8-3,6	4,5-3,6
ACR-F (dB)	15.8	16.6	15.9	16.6
Freq. (MHz)	388.0	494.0	500.0	494.0
Limit (dB)	11.5	9.4	9.3	9.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.1	16.3	17.2	16.3
Freq. (MHz)	480.0	495.0	500.0	495.0
Limit (dB)	6.6	6.4	6.3	6.4



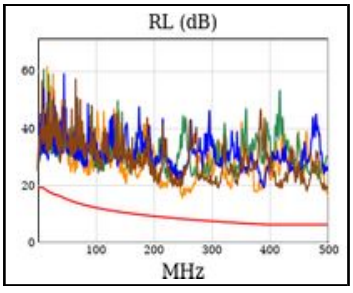


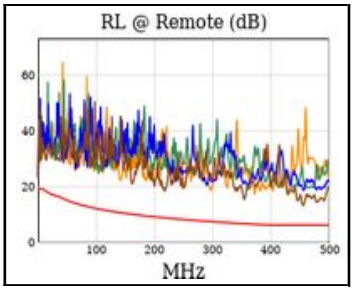
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-3,6
ACR-N (dB)	16.2	15.1	49.7	43.3
Freq. (MHz)	2.9	5.0	500.0	480.0
Limit (dB)	61.4	56.9	-23.2	-21.6
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	17.8	17.0	49.0	44.0
Freq. (MHz)	2.5	5.0	500.0	496.0
Limit (dB)	58.7	54.3	-26.1	-25.8





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	7.2	7.0	7.2	7.0
Freq. (MHz)	250.0	456.0	250.0	456.0
Limit (dB)	8.0	6.0	8.0	6.0





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	

FLUKE networks

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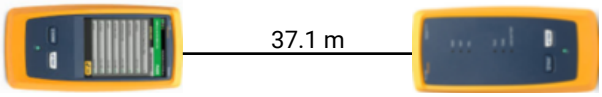
Cable ID: CT-P2-MDN-ONT-A-220-OLT-01-1/9-SP-A09-A13-1820-A-LAN2 **Test Summary: PASS**

Date / Time: 12/21/2023 05:13:28 PM
Headroom: 9.1 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

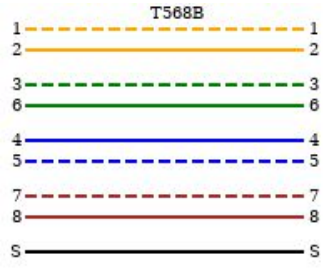
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

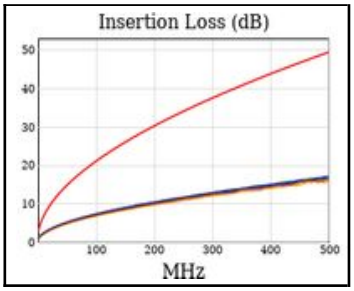
Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	37.1
Prop. Delay (ns), Limit 555	[Pair 3,6]	196
Delay Skew (ns), Limit 50	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.4
Insertion Loss Margin (dB)	[Pair 3,6]	32.2
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

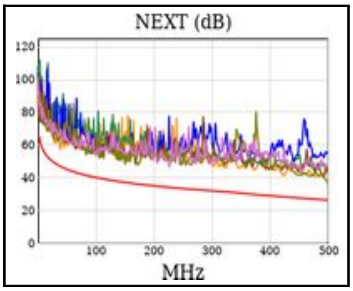


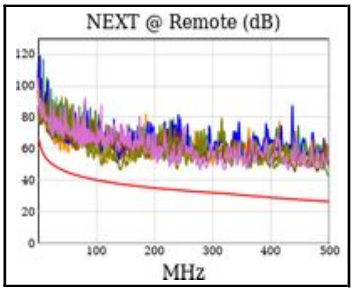
PASS



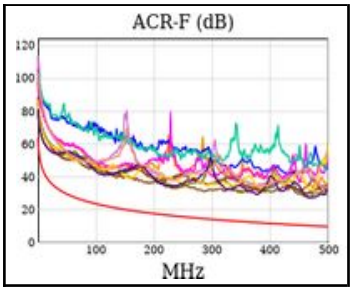


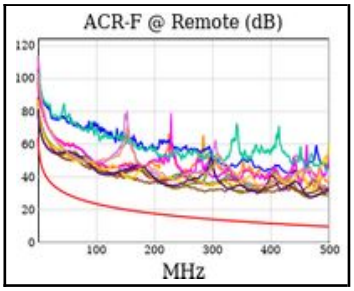
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	3,6-7,8	1,2-4,5
NEXT (dB)	10.4	9.1	10.8	16.5
Freq. (MHz)	39.3	141.0	500.0	499.0
Limit (dB)	46.8	37.4	26.1	26.1
Worst Pair	3,6	7,8	3,6	1,2
PS NEXT (dB)	11.9	10.9	12.6	18.0
Freq. (MHz)	169.5	141.0	500.0	500.0
Limit (dB)	33.1	34.5	23.2	23.2



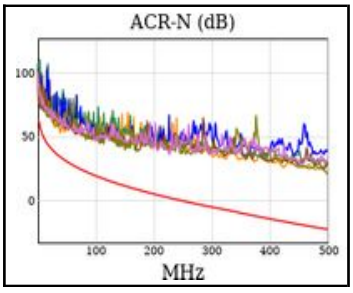


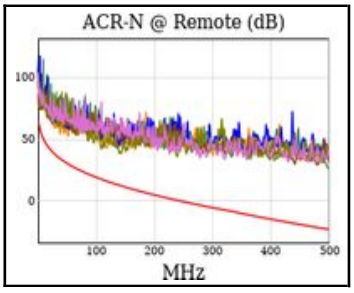
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	16.5	16.4	16.9	16.7
Freq. (MHz)	288.0	288.0	466.0	467.0
Limit (dB)	14.1	14.1	9.9	9.9
Worst Pair	4,5	3,6	3,6	3,6
PS ACR-F (dB)	17.9	17.1	18.2	18.8
Freq. (MHz)	234.5	240.0	475.0	467.0
Limit (dB)	12.9	12.7	6.7	6.9



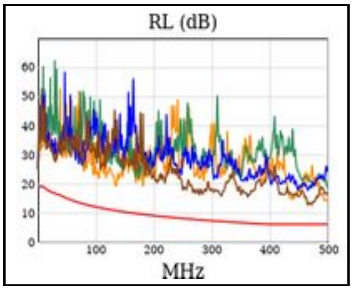


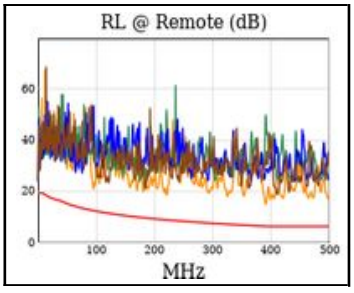
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	1,2-4,5
ACR-N (dB)	14.1	13.7	43.7	49.2
Freq. (MHz)	2.6	2.6	500.0	499.0
Limit (dB)	61.6	61.6	-23.2	-23.1
Worst Pair	3,6	3,6	3,6	1,2
PS ACR-N (dB)	15.9	16.4	44.8	51.4
Freq. (MHz)	5.1	2.6	500.0	500.0
Limit (dB)	54.1	58.6	-26.1	-26.1





PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	1,2	7,8	1,2
RL (dB)	6.5	8.5	6.5	8.5
Freq. (MHz)	466.0	392.0	466.0	392.0
Limit (dB)	6.0	6.1	6.0	6.1





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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-220-OLT-01-1/9-SP-A09-A13-1820-A-LAN3 **Test Summary: PASS**

Date / Time: 12/21/2023 05:20:04 PM
Headroom: 9.1 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	38.1
Prop. Delay (ns), Limit 555	[Pair 3,6]	200
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.5
Insertion Loss Margin (dB)	[Pair 3,6]	31.6
Frequency (MHz)	[Pair 3,6]	495.0
Limit (dB)	[Pair 3,6]	49.0

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-4,5	3,6-7,8
NEXT (dB)	9.1	10.5	11.9	16.8
Freq. (MHz)	121.5	197.5	491.0	500.0
Limit (dB)	38.5	34.9	26.3	26.1
Worst Pair	3,6	7,8	3,6	7,8
PS NEXT (dB)	11.1	12.7	12.6	18.2
Freq. (MHz)	121.0	194.0	488.0	500.0
Limit (dB)	35.6	32.1	23.5	23.2

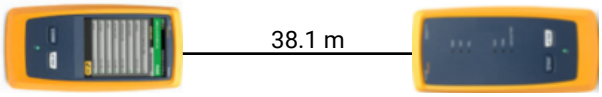
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	15.5	14.6	15.5	14.6
Freq. (MHz)	446.0	447.0	446.0	447.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	17.4	16.3	18.1	17.2
Freq. (MHz)	327.0	230.5	457.0	447.0
Limit (dB)	10.0	13.0	7.1	7.3

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)	16.3	15.5	43.8	50.0
Freq. (MHz)	2.4	2.5	491.0	500.0
Limit (dB)	61.7	61.7	-22.5	-23.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	17.6	18.2	44.2	51.0
Freq. (MHz)	4.6	2.6	488.0	500.0
Limit (dB)	55.1	58.6	-25.1	-26.1

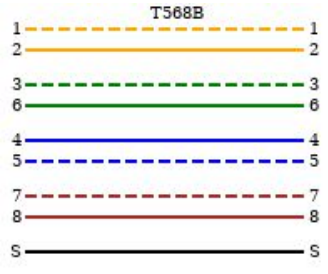
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	1,2
RL (dB)	8.4	7.5	8.4	7.5
Freq. (MHz)	469.0	368.0	469.0	368.0
Limit (dB)	6.0	6.3	6.0	6.3

Compliant Network Standards:

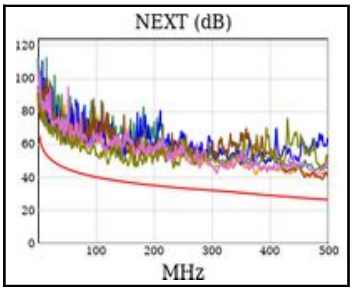
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

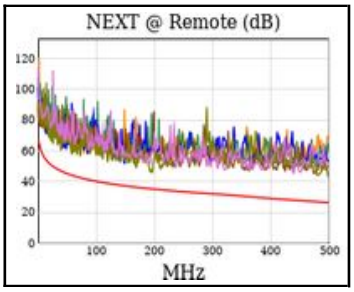


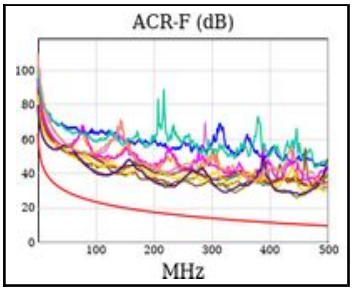
PASS

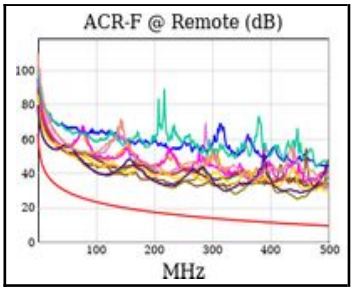


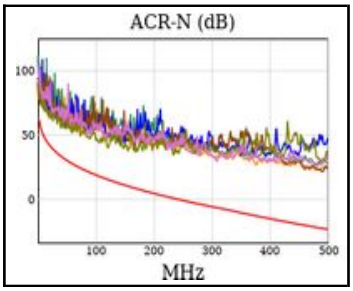


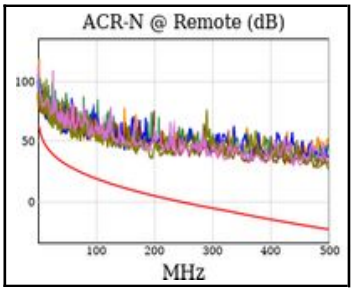


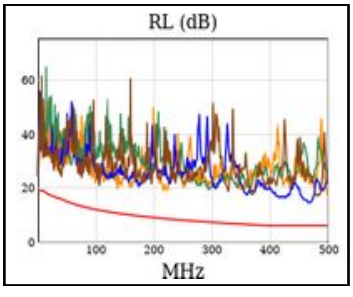


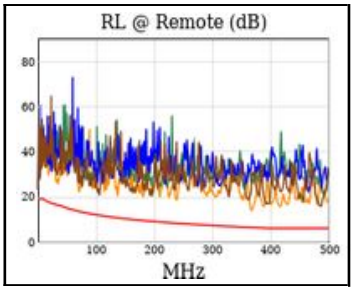












FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-A-220-OLT-01-1/9-SP-A09-A13-1820-A-LAN4

Test Summary: PASS

Date / Time: 12/21/2023 05:23:36 PM
Headroom: 6.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	34.2
Prop. Delay (ns), Limit 555	[Pair 3,6]	181
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	33.3
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

	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	4,5-7,8
NEXT (dB)	6.8	7.5	12.4	9.4
Freq. (MHz)	135.5	135.5	489.0	321.0
Limit (dB)	37.7	37.7	26.4	31.2
Worst Pair	3,6	7,8	3,6	4,5
PS NEXT (dB)	9.3	9.9	14.1	12.2
Freq. (MHz)	135.5	147.0	499.0	321.0
Limit (dB)	34.8	34.2	23.3	28.2

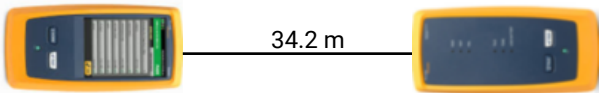
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	16.8	15.7	16.8	15.7
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	9.3	9.3	9.3	9.3
Worst Pair	4,5	3,6	7,8	3,6
PS ACR-F (dB)	18.3	17.4	19.3	17.4
Freq. (MHz)	240.0	500.0	500.0	500.0
Limit (dB)	12.7	6.3	6.3	6.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	4,5-7,8
ACR-N (dB)	14.4	14.7	45.5	47.5
Freq. (MHz)	2.9	3.0	489.0	468.0
Limit (dB)	61.4	61.4	-22.3	-20.7
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	15.8	16.5	47.4	49.4
Freq. (MHz)	5.1	3.5	499.0	468.0
Limit (dB)	54.1	57.6	-26.0	-23.6

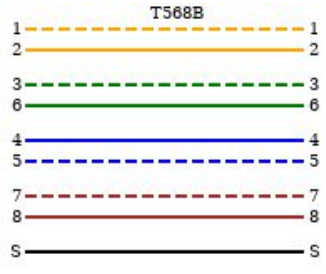
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	1,2
RL (dB)	8.0	10.6	9.1	11.4
Freq. (MHz)	88.0	284.0	437.0	479.0
Limit (dB)	12.6	7.5	6.0	6.0

Compliant Network Standards:

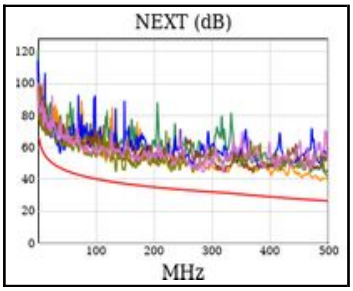
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

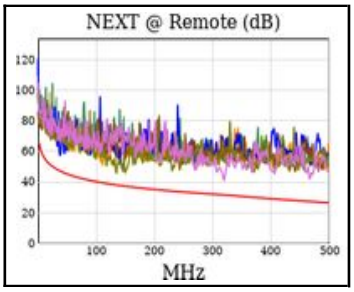


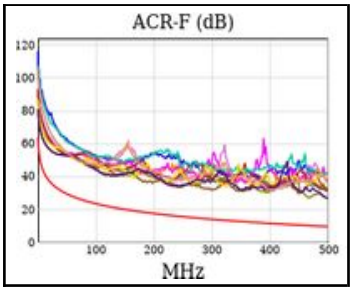
PASS

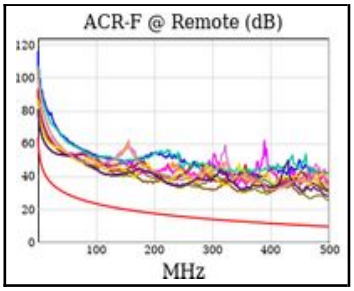


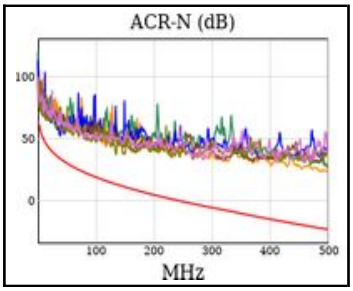


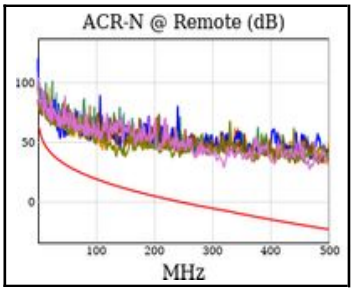


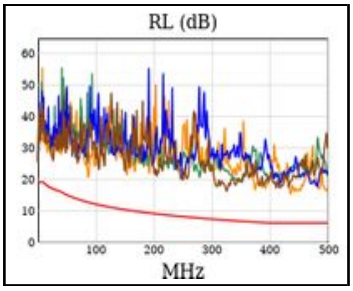


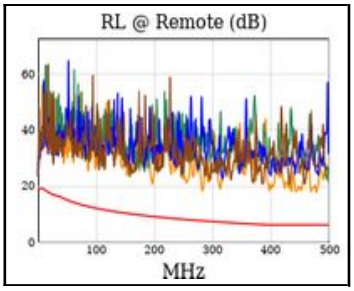












FLUKE networks

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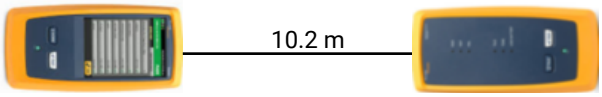
Cable ID: CT-P2-MDN-ONT-B-023-OLT-01-1/1-SP-B02-B01-6CBC-B-LAN4 **Test Summary: PASS**

Date / Time: 12/20/2023 05:27:51 PM
Headroom: 9 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

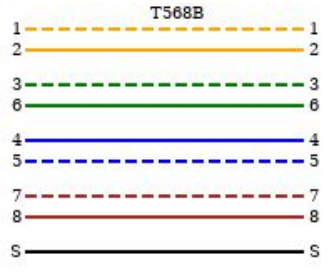
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	10.2
Prop. Delay (ns), Limit 555	[Pair 3,6]	53
Delay Skew (ns), Limit 50	[Pair 3,6]	3
Resistance (ohms)	[Pair 1,2]	2.1
Insertion Loss Margin (dB)	[Pair 3,6]	43.5
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	49.1



PASS



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	3,6-4,5	4,5-7,8
NEXT (dB)	10.3	9.0	10.5	10.4
Freq. (MHz)	303.0	180.0	451.0	486.0
Limit (dB)	31.7	35.6	27.3	26.4
Worst Pair	3,6	4,5	4,5	4,5
PS NEXT (dB)	11.6	11.0	11.9	11.4
Freq. (MHz)	304.0	181.0	451.0	487.0
Limit (dB)	28.7	32.6	24.4	23.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	14.6	14.6	15.1	14.6
Freq. (MHz)	409.0	488.0	488.0	488.0
Limit (dB)	11.0	9.5	9.5	9.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.5	15.0	15.6	15.0
Freq. (MHz)	409.0	487.0	456.0	487.0
Limit (dB)	8.0	6.5	7.1	6.5

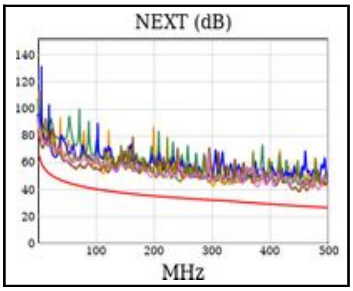
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	4,5-7,8
ACR-N (dB)	17.5	17.9	52.2	54.0
Freq. (MHz)	7.8	9.4	451.0	486.0
Limit (dB)	52.7	50.8	-19.3	-22.1
Worst Pair	4,5	3,6	4,5	4,5
PS ACR-N (dB)	18.4	19.1	53.6	54.7
Freq. (MHz)	3.4	8.9	451.0	487.0
Limit (dB)	57.9	48.7	-22.2	-25.1

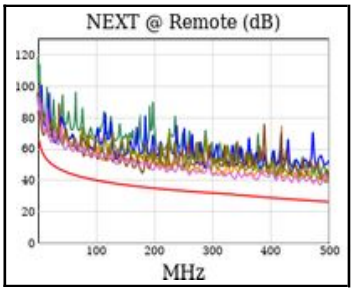
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	1,2	3,6
RL (dB)	9.3	11.0	9.8	12.1
Freq. (MHz)	290.0	205.0	464.0	450.0
Limit (dB)	7.4	8.9	6.0	6.0

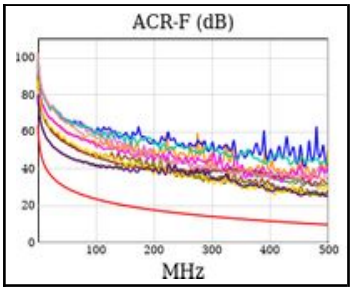
Compliant Network Standards:

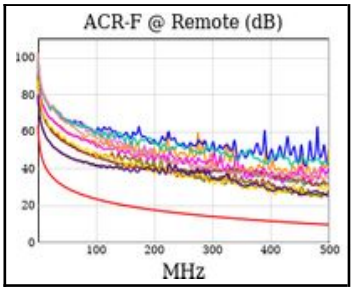
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

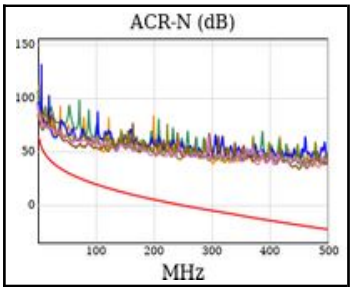


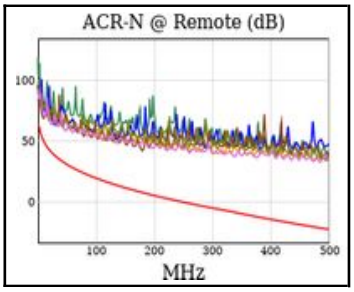


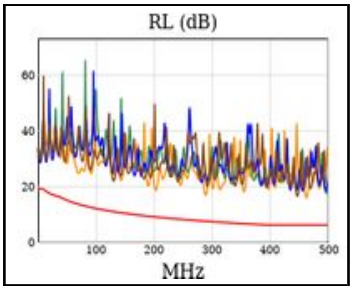


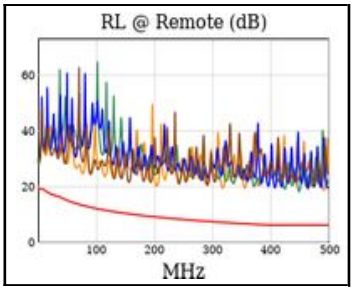












FLUKE networks

LinkWare Live

Cable ID: CT-P2-MDN-ONT-B213-OLT-01-1/1-SP-B01-B01-192B-LAN1

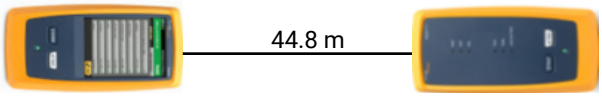
Test Summary: PASS

Date / Time: 12/20/2023 04:41:50 PM
Headroom: 5.8 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

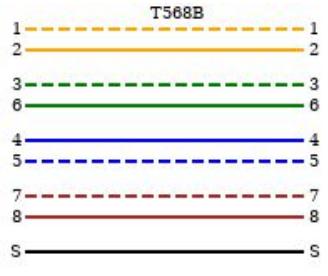
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

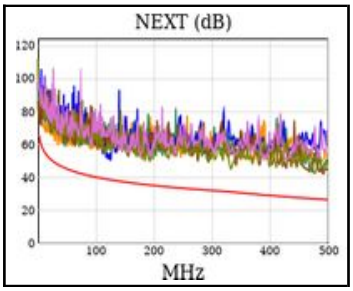
Length (m), Limit 100	[Pair 1,2]	44.8
Prop. Delay (ns), Limit 555	[Pair 3,6]	236
Delay Skew (ns), Limit 50	[Pair 3,6]	16
Resistance (ohms)	[Pair 4,5]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	28.6
Frequency (MHz)	[Pair 3,6]	494.0
Limit (dB)	[Pair 3,6]	49.0

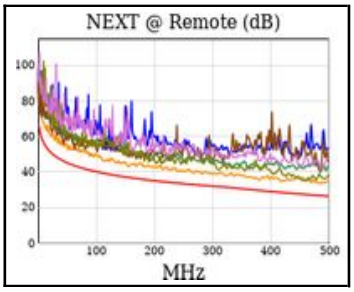


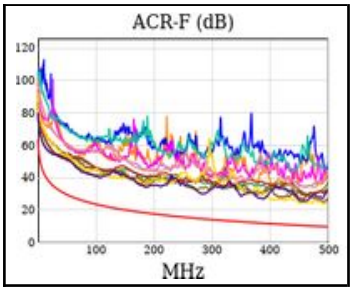
PASS

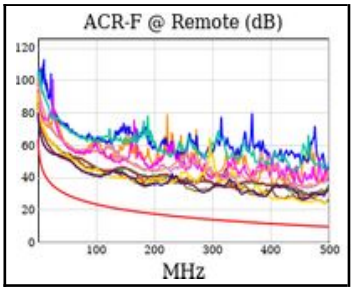


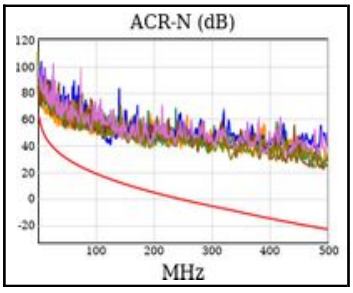


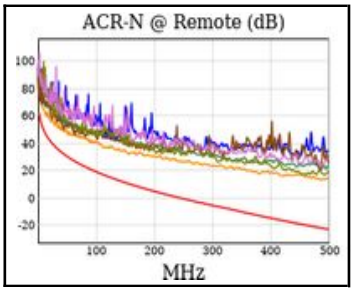


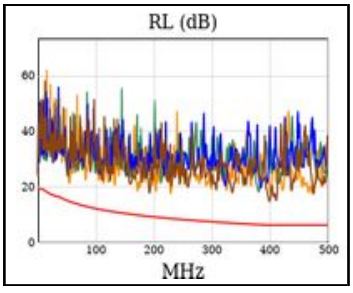


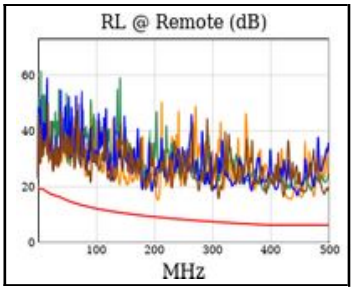












	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	3,6-4,5	1,2-3,6
NEXT (dB)	9.6	5.8	15.4	6.8
Freq. (MHz)	4.1	380.0	493.0	488.0
Limit (dB)	62.8	29.3	26.3	26.4
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	11.4	7.4	15.9	7.7
Freq. (MHz)	4.1	461.0	491.0	487.0
Limit (dB)	60.3	24.2	23.4	23.5

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	14.4	13.7	14.6
Freq. (MHz)	453.0	453.0	493.0	493.0
Limit (dB)	10.1	10.1	9.4	9.4
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	14.3	15.8	14.3	16.4
Freq. (MHz)	454.0	457.0	454.0	493.0
Limit (dB)	7.1	7.1	7.1	6.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	1,2-3,6
ACR-N (dB)	12.1	12.4	44.9	35.3
Freq. (MHz)	4.1	4.1	493.0	488.0
Limit (dB)	58.6	58.6	-22.7	-22.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	13.8	13.5	45.0	36.1
Freq. (MHz)	4.0	4.1	493.0	487.0
Limit (dB)	56.4	56.1	-25.5	-25.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	1,2
RL (dB)	6.5	6.3	8.6	6.3
Freq. (MHz)	55.5	207.5	401.0	207.5
Limit (dB)	14.6	8.8	6.0	8.8

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	

FLUKE networks

LinkWare Live

Cable ID: CT-P2-MND-ONT-A217-OLT-01-1/7-SP-A07-A12-18FO-A-LAN2

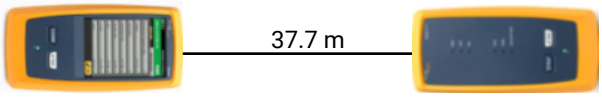
Test Summary: PASS

Date / Time: 12/20/2023 06:12:06 PM
Headroom: 10.1 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

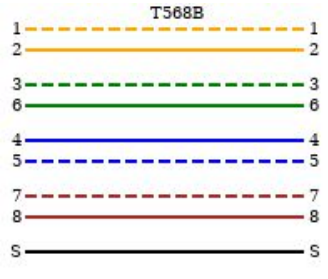
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	37.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	199
Delay Skew (ns), Limit 50	[Pair 3,6]	14
Resistance (ohms)	[Pair 4,5]	6.3
Insertion Loss Margin (dB)	[Pair 3,6]	31.8
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

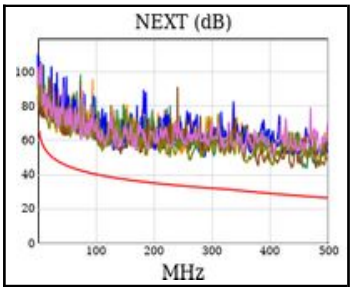


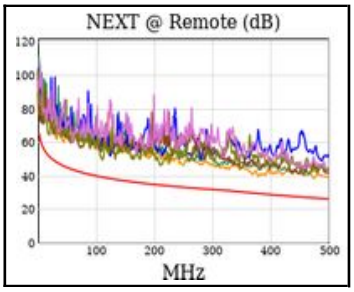
PASS



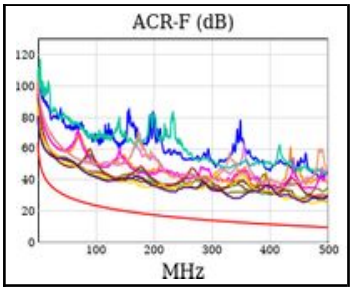


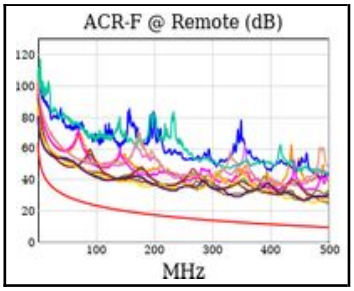
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-3,6	1,2-4,5	1,2-3,6
NEXT (dB)	12.7	10.1	16.0	11.7
Freq. (MHz)	4.6	379.0	464.0	475.0
Limit (dB)	62.0	29.4	27.0	26.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	14.6	11.6	18.1	12.6
Freq. (MHz)	5.0	111.0	486.0	496.0
Limit (dB)	59.0	36.3	23.6	23.3



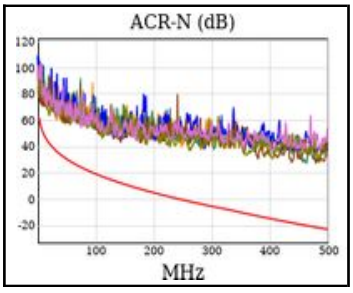


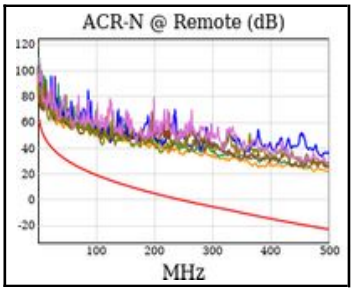
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	14.6	15.0	14.6	15.0
Freq. (MHz)	473.0	473.0	473.0	473.0
Limit (dB)	9.8	9.8	9.8	9.8
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	15.5	16.3	15.5	16.6
Freq. (MHz)	460.0	457.0	460.0	476.0
Limit (dB)	7.0	7.1	7.0	6.7



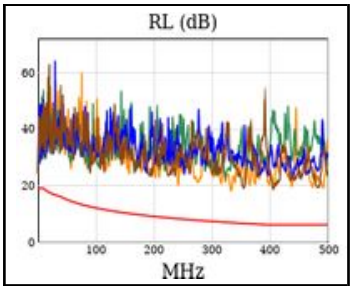


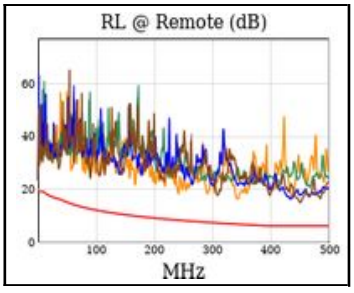
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	1,2-3,6
ACR-N (dB)	15.6	13.6	47.3	44.7
Freq. (MHz)	4.6	2.6	464.0	499.0
Limit (dB)	57.6	61.6	-20.4	-23.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	17.3	15.9	49.7	44.3
Freq. (MHz)	2.5	4.8	486.0	496.0
Limit (dB)	58.7	54.8	-25.0	-25.8





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	7,8	1,2	7,8
RL (dB)	11.1	8.8	11.1	8.8
Freq. (MHz)	334.0	451.0	334.0	451.0
Limit (dB)	6.8	6.0	6.8	6.0





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	

FLUKE networks

LinkWare Live

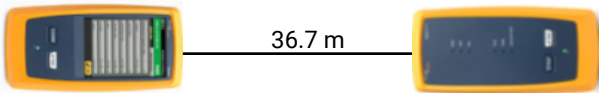
Cable ID: CT-P2-MND-ONT-A217-OLT-01-1/7-SP-A07-A12-18FO-A-LAN4 **Test Summary: PASS**

Date / Time: 12/20/2023 06:21:26 PM
Headroom: 10.3 dB (NEXT)
Test Limit: TIA Cat 6A Channel
Cable Type: *CAT 6A F/UTP*
NVP: 68.0%
Project: CGFM

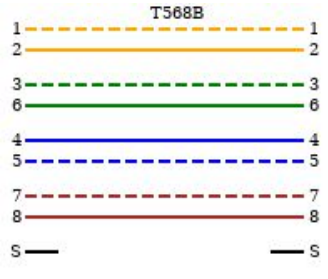
Software Version: V6.11 Build 2
Calibration Start Date:
Main (Module): 03/08/2023
Remote (Module): 03/08/2023

Model: DSX-8000
Main S/N: 2232042
Remote S/N: 2232044
Main Adapter: DSX-CHA804
Remote Adapter: DSX-CHA804

Length (m), Limit 100	[Pair 1,2]	36.7
Prop. Delay (ns), Limit 555	[Pair 3,6]	193
Delay Skew (ns), Limit 50	[Pair 3,6]	13
Resistance (ohms)	[Pair 4,5]	6.2
Insertion Loss Margin (dB)	[Pair 3,6]	32.5
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	49.3

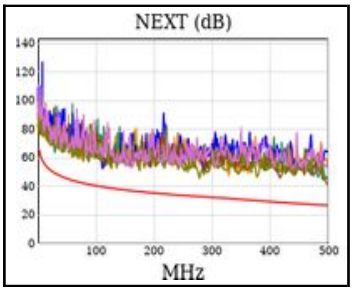


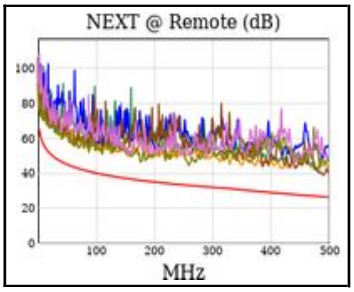
PASS



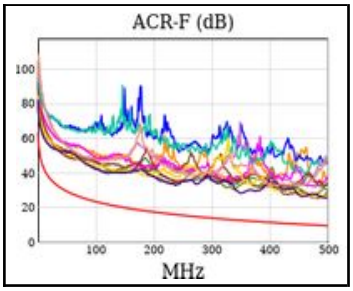


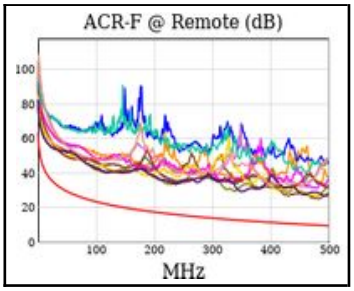
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	3,6-4,5
NEXT (dB)	12.3	10.3	14.7	12.4
Freq. (MHz)	2.9	177.0	499.0	491.0
Limit (dB)	65.0	35.7	26.1	26.3
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	13.0	11.2	16.0	13.5
Freq. (MHz)	2.8	88.5	500.0	491.0
Limit (dB)	62.0	38.0	23.2	23.4



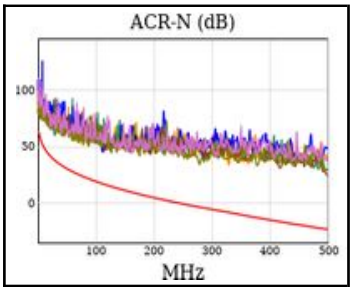


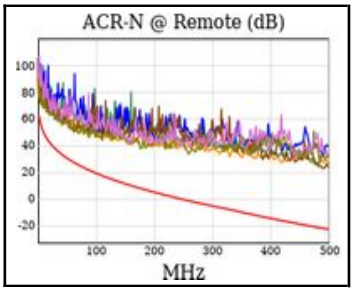
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	15.5	15.1	15.5	15.1
Freq. (MHz)	483.0	483.0	483.0	483.0
Limit (dB)	9.6	9.6	9.6	9.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	16.2	15.4	16.3	15.4
Freq. (MHz)	488.0	481.0	497.0	481.0
Limit (dB)	6.5	6.6	6.3	6.6



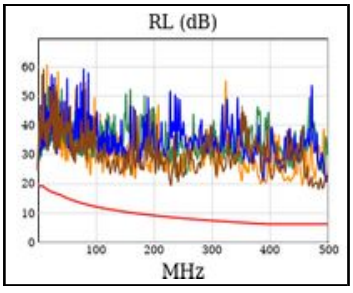


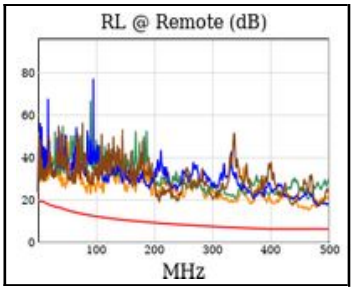
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
ACR-N (dB)	14.8	12.8	47.3	44.8
Freq. (MHz)	2.9	2.6	499.0	491.0
Limit (dB)	61.4	61.6	-23.1	-22.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.4	14.0	48.5	45.7
Freq. (MHz)	2.8	2.8	500.0	491.0
Limit (dB)	58.5	58.5	-26.1	-25.4





PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	1,2	7,8	1,2
RL (dB)	10.4	8.6	11.8	8.6
Freq. (MHz)	91.3	466.0	485.0	466.0
Limit (dB)	12.4	6.0	6.0	6.0





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	

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