

LinkWare Live

Official Summary

Certification Report



Exclusively For:	Prepared By:	Projects	
	Systec101	ACT Enviro - Denver CO - 2023	
	Murat Yildirim		
	info@systec101.com		
Product Name	Serial Number	Firmware Version	Calibration Date
DSX-8000	1927408	V6.7 Build 1	10/31/2022
DSX-8000	1927404	V6.7 Build 1	10/31/2022

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
AP1	PASS	TIA Cat 6 Channel	101 ft	5.6 dB (NEXT)	09/01/2023 03:41:55 PM
AP2	PASS	TIA Cat 6 Channel	170 ft	5.0 dB (NEXT)	09/01/2023 03:46:10 PM
AP3	PASS	TIA Cat 6 Channel	147 ft	6.4 dB (NEXT)	09/01/2023 03:14:54 PM
CAM1	PASS	TIA Cat 6 Channel	251 ft	4.8 dB (NEXT)	09/11/2023 03:20:04 PM
CAM10	PASS	TIA Cat 6 Channel	157 ft	5.4 dB (NEXT)	09/11/2023 03:36:13 PM
CAM11	PASS	TIA Cat 6 Channel	299 ft	4.4 dB (NEXT)	09/11/2023 02:46:59 PM
CAM12	PASS	TIA Cat 6 Channel	154 ft	5.1 dB (NEXT)	09/01/2023 03:00:46 PM
CAM13	PASS	TIA Cat 6 Channel	157 ft	5.6 dB (NEXT)	09/01/2023 03:06:17 PM
CAM14	PASS	TIA Cat 6 Channel	156 ft	3.8 dB (NEXT)	09/01/2023 02:40:37 PM
CAM2	PASS	TIA Cat 6 Channel	251 ft	7.5 dB (NEXT)	09/11/2023 03:23:58 PM
CAM3	PASS	TIA Cat 6 Channel	251 ft	4.9 dB (NEXT)	09/11/2023 03:20:20 PM
CAM4	PASS	TIA Cat 6 Channel	299 ft	4.4 dB (NEXT)	09/11/2023 02:46:45 PM
CAM5	PASS	TIA Cat 6 Channel	298 ft	3.5 dB (NEXT)	09/11/2023 02:31:52 PM
CAM6	PASS	TIA Cat 6 Channel	251 ft	7.1 dB (NEXT)	09/11/2023 03:24:10 PM
CAM7	PASS	TIA Cat 6 Channel	221 ft	6.7 dB (NEXT)	09/01/2023 02:28:49 PM
CAM8	PASS	TIA Cat 6 Channel	169 ft	6.0 dB (NEXT)	09/01/2023 03:53:25 PM
CAM9	PASS	TIA Cat 6 Channel	157 ft	5.3 dB (NEXT)	09/11/2023 03:36:25 PM
D1	PASS	TIA Cat 6 Channel	61 ft	6.8 dB (NEXT)	08/24/2023 07:06:24 PM
D10	PASS	TIA Cat 6 Channel	43 ft	2.5 dB (NEXT)	08/24/2023 07:33:28 PM
D2	PASS	TIA Cat 6 Channel	50 ft	4.6 dB (NEXT)	08/24/2023 07:10:32 PM
D3	PASS	TIA Cat 6 Channel	58 ft	5.7 dB (NEXT)	08/24/2023 07:11:21 PM
D4	PASS	TIA Cat 6 Channel	61 ft	4.9 dB (NEXT)	08/24/2023 07:11:50 PM
D5	PASS	TIA Cat 6 Channel	47 ft	5.2 dB (NEXT)	08/24/2023 07:13:23 PM
D6	PASS	TIA Cat 6 Channel	61 ft	6.0 dB (NEXT)	08/24/2023 07:13:42 PM
D7	PASS	TIA Cat 6 Channel	61 ft	6.3 dB (NEXT)	08/24/2023 07:15:06 PM
D8	PASS	TIA Cat 6 Channel	59 ft	5.4 dB (NEXT)	08/24/2023 07:16:46 PM
D9	PASS	TIA Cat 6 Channel	59 ft	5.4 dB (NEXT)	08/24/2023 07:17:34 PM

Total Length:	4049 ft
No of Reports:	27
No of Passing Reports:	27
No of Failing Reports:	0
No of Warning Reports:	0
Documentation only:	0



Cable ID: AP1

Date / Time: 09/01/2023 03:41:55 PM Operator: MURAT
 Headroom: 5.6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	101
Prop. Delay (ns), Limit 555	[Pair 4,5]	155
Delay Skew (ns), Limit 50	[Pair 4,5]	6
Resistance (ohms)	[Pair 3,6]	5.1
Insertion Loss Margin (dB)	[Pair 3,6]	26.2
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	7.3	5.6	7.3	6.2
Freq. (MHz)	228.5	155.5	228.5	243.0
Limit (dB)	33.8	36.7	33.8	33.3
Worst Pair	3,6	7,8	7,8	7,8
PS NEXT (dB)	7.7	6.4	8.7	6.4
Freq. (MHz)	160.0	243.0	240.5	243.0
Limit (dB)	33.5	30.4	30.4	30.4

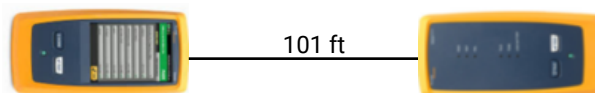
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	7,8-3,6	3,6-7,8
ACR-F (dB)	11.9	11.9	13.8	14.2
Freq. (MHz)	5.3	5.3	243.0	243.0
Limit (dB)	48.9	48.9	15.5	15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	12.4	12.4	14.1	14.9
Freq. (MHz)	35.5	7.8	243.0	247.0
Limit (dB)	29.3	42.5	12.5	12.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	12.1	12.7	32.6	32.4
Freq. (MHz)	3.1	6.0	228.5	243.0
Limit (dB)	61.2	55.3	-0.3	-2.0
Worst Pair	3,6	3,6	7,8	7,8
PS ACR-N (dB)	12.7	12.3	34.8	32.7
Freq. (MHz)	3.5	3.4	240.5	243.0
Limit (dB)	57.7	58.0	-4.7	-5.0

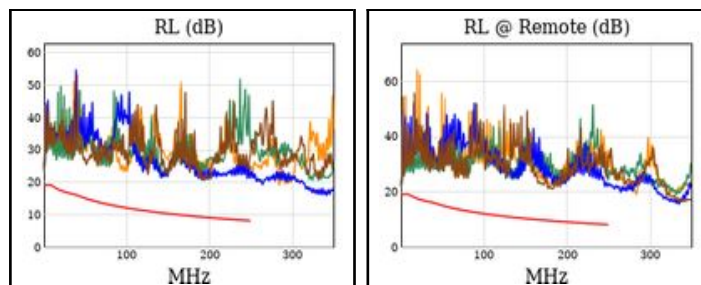
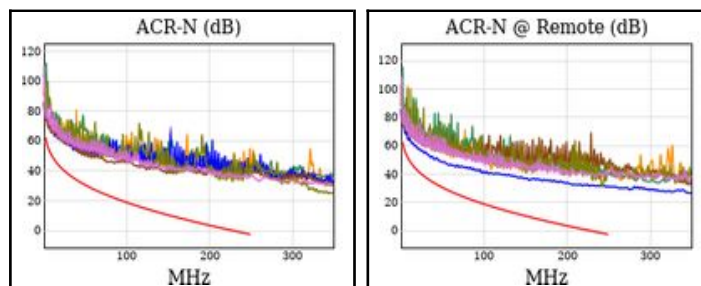
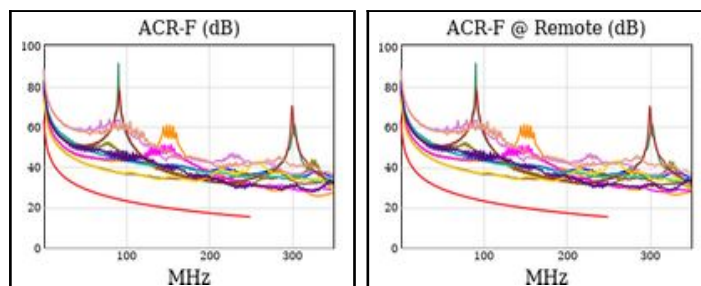
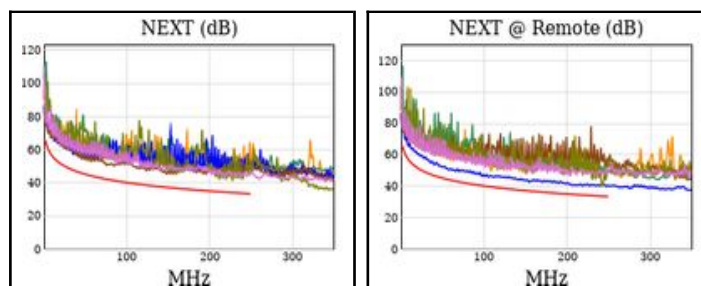
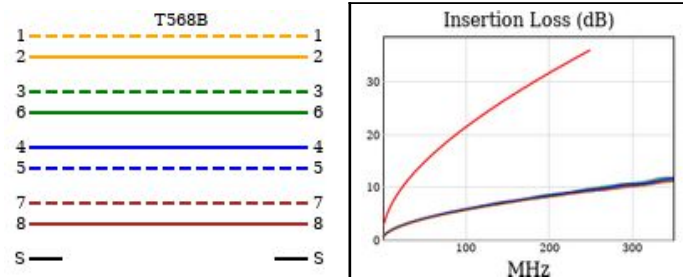
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	7,8	4,5	7,8
RL (dB)	10.2	10.8	11.3	11.6
Freq. (MHz)	30.5	35.5	194.5	181.5
Limit (dB)	16.6	16.2	9.1	9.4

Compliant Network Standards:

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



PASS





Cable ID: AP2

Date / Time: 09/01/2023 03:46:10 PM Operator: MURAT
 Headroom: 5 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	170
Prop. Delay (ns), Limit 555	[Pair 4,5]	260
Delay Skew (ns), Limit 50	[Pair 4,5]	10
Resistance (ohms)	[Pair 3,6]	11.5
Insertion Loss Margin (dB)	[Pair 3,6]	19.9
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	5.0	6.6	6.2	7.7
Freq. (MHz)	155.5	4.1	210.5	174.5
Limit (dB)	36.7	62.8	34.4	35.8
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	5.4	7.6	8.1	9.7
Freq. (MHz)	155.5	4.0	237.5	217.0
Limit (dB)	33.8	60.5	30.5	31.2

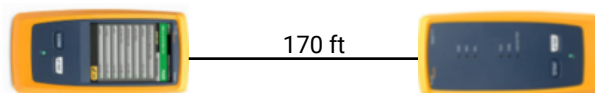
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	1,2-3,6	7,8-3,6
ACR-F (dB)	8.7	8.5	10.7	11.6
Freq. (MHz)	90.0	88.0	233.5	250.0
Limit (dB)	24.2	24.4	15.9	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	9.6	9.9	10.8	11.4
Freq. (MHz)	42.5	35.0	233.5	250.0
Limit (dB)	27.7	29.4	12.9	12.3

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)	8.0	8.8	28.2	30.7
Freq. (MHz)	3.8	4.1	246.5	244.0
Limit (dB)	59.6	58.7	-2.4	-2.1
Worst Pair	3,6	3,6	4,5	4,5
PS ACR-N (dB)	9.6	9.6	27.5	30.9
Freq. (MHz)	3.8	4.0	237.5	244.0
Limit (dB)	57.1	56.5	-4.3	-5.1

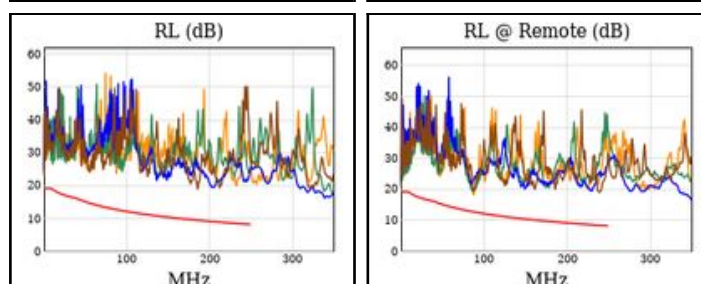
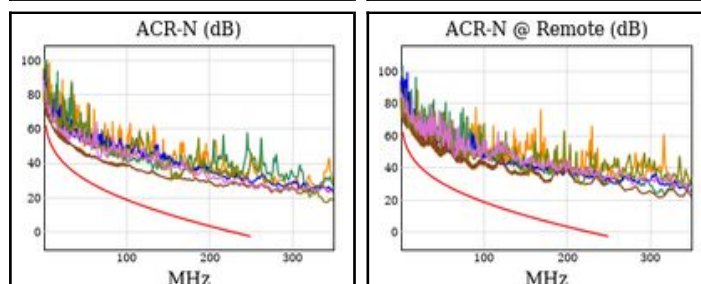
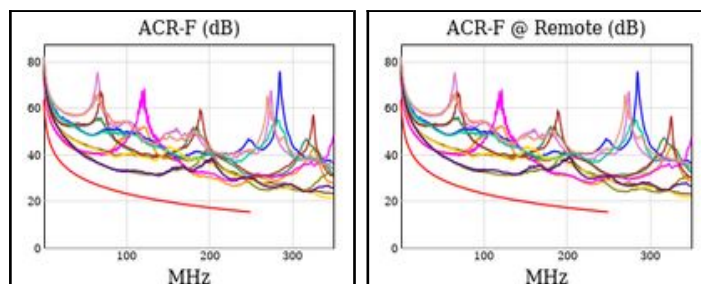
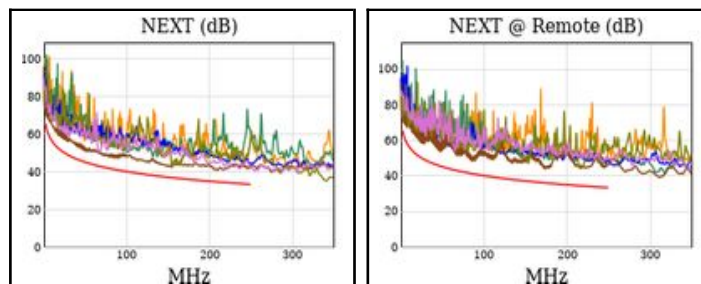
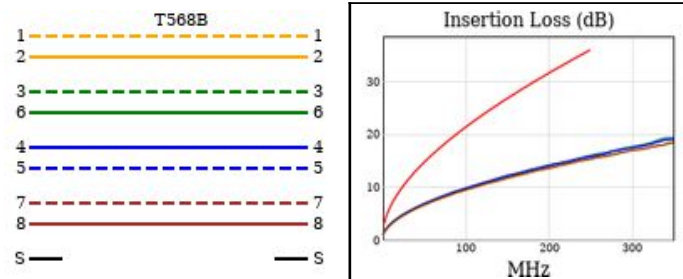
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	7,8	1,2
RL (dB)	7.5	5.5	9.4	5.5
Freq. (MHz)	11.5	88.5	186.5	88.5
Limit (dB)	18.7	12.5	9.3	12.5

Compliant Network Standards:

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



PASS





Cable ID: AP3

Date / Time: 09/01/2023 03:14:54 PM Operator: MURAT
 Headroom: 6.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	147
Prop. Delay (ns), Limit 555	[Pair 4,5]	226
Delay Skew (ns), Limit 50	[Pair 4,5]	9
Resistance (ohms)	[Pair 7,8]	25.5
Insertion Loss Margin (dB)	[Pair 3,6]	21.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	3,6-4,5	1,2-3,6
NEXT (dB)	6.4	6.6	8.7	7.1
Freq. (MHz)	6.9	75.5	245.5	230.5
Limit (dB)	59.2	42.0	33.3	33.7
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	7.8	7.6	8.3	7.6
Freq. (MHz)	6.9	230.5	245.5	230.5
Limit (dB)	56.7	30.8	30.3	30.8

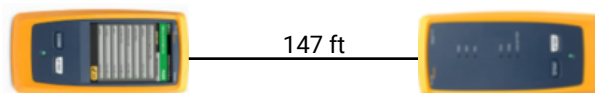
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	1,2-3,6	3,6-1,2
ACR-F (dB)	9.8	10.1	12.6	13.4
Freq. (MHz)	4.9	4.9	229.5	230.0
Limit (dB)	49.5	49.5	16.0	16.0
Worst Pair	7,8	3,6	3,6	3,6
PS ACR-F (dB)	12.5	11.9	14.3	13.9
Freq. (MHz)	5.0	7.3	226.5	193.0
Limit (dB)	46.3	43.1	13.2	14.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	3,6-4,5	1,2-3,6
ACR-N (dB)	9.0	12.8	30.4	28.4
Freq. (MHz)	6.9	23.5	245.5	238.5
Limit (dB)	54.0	40.7	-2.3	-1.5
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	10.7	13.7	30.5	28.1
Freq. (MHz)	6.8	6.1	250.0	230.5
Limit (dB)	51.6	52.6	-5.8	-3.5

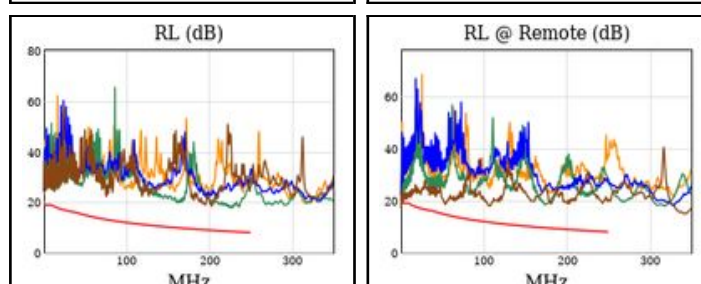
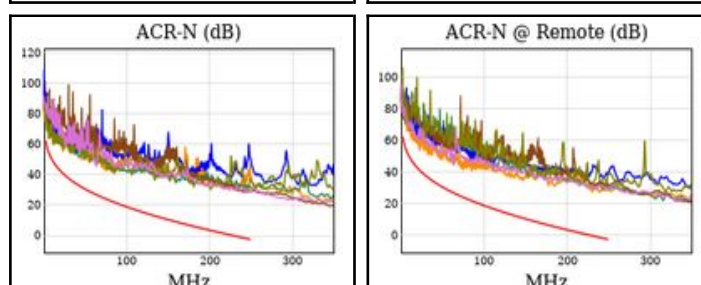
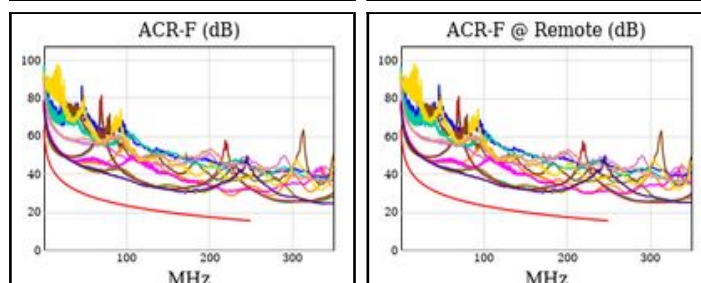
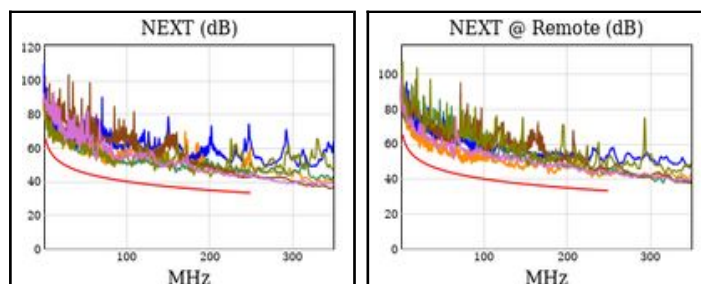
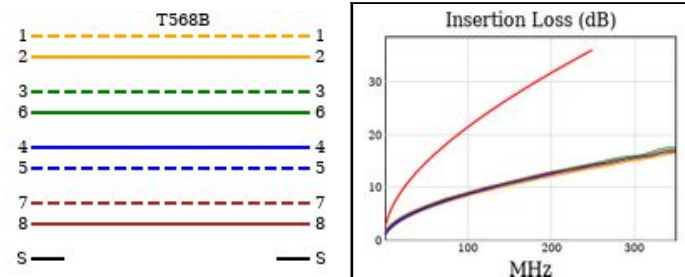
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	7,8	3,6	7,8
RL (dB)	6.1	2.3	9.3	6.2
Freq. (MHz)	13.5	10.0	226.5	108.0
Limit (dB)	18.3	19.0	8.4	11.7

Compliant Network Standards:

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



PASS





Cable ID: CAM1

Date / Time: 09/11/2023 03:20:04 PM Operator: MURAT
 Headroom: 4.8 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	251
Prop. Delay (ns), Limit 555	[Pair 4,5]	385
Delay Skew (ns), Limit 50	[Pair 4,5]	15
Resistance (ohms)	[Pair 3,6]	20.4
Insertion Loss Margin (dB)	[Pair 3,6]	12.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	4,5-7,8	3,6-7,8	1,2-4,5
NEXT (dB)	4.8	4.9	7.1	9.2
Freq. (MHz)	153.0	65.8	220.5	246.5
Limit (dB)	36.8	43.0	34.1	33.2
Worst Pair	4,5	4,5	3,6	1,2
PS NEXT (dB)	6.4	7.0	8.1	10.1
Freq. (MHz)	65.5	65.8	220.5	246.5
Limit (dB)	40.2	40.2	31.1	30.3

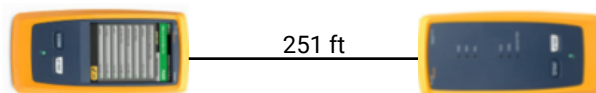
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	8.5	9.3	9.8	10.6
Freq. (MHz)	197.0	197.0	231.5	231.5
Limit (dB)	17.4	17.4	16.0	16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.1	11.0	10.4	12.6
Freq. (MHz)	197.0	188.5	232.5	250.0
Limit (dB)	14.4	14.8	12.9	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	1,2-4,5
ACR-N (dB)	7.7	7.8	19.5	21.9
Freq. (MHz)	5.6	5.6	220.5	246.5
Limit (dB)	55.9	55.9	0.7	-2.4
Worst Pair	3,6	7,8	3,6	4,5
PS ACR-N (dB)	7.9	9.2	19.7	23.3
Freq. (MHz)	5.5	5.5	220.5	246.5
Limit (dB)	53.6	53.6	-2.3	-5.4

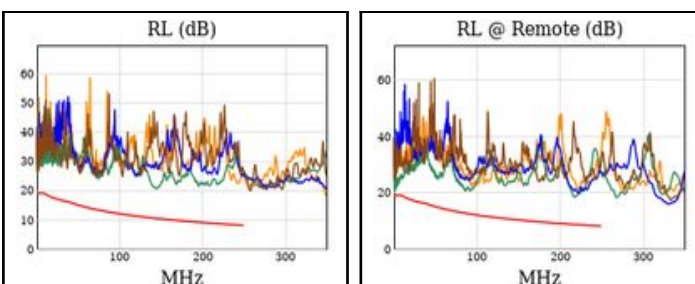
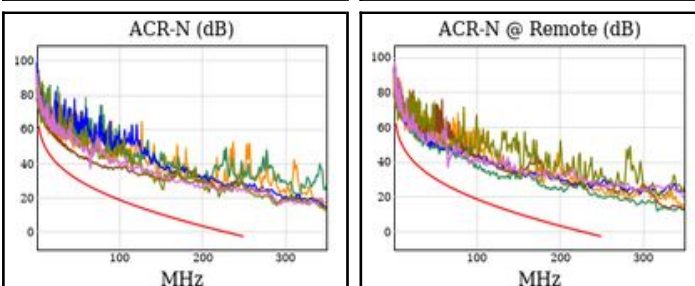
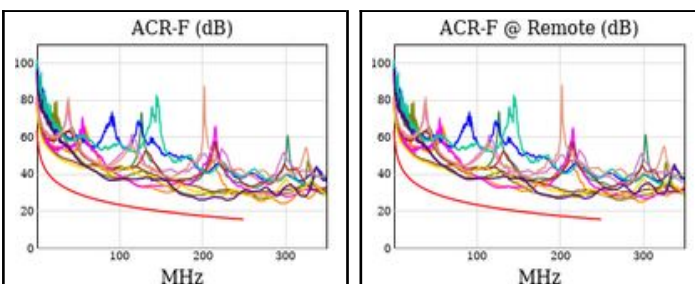
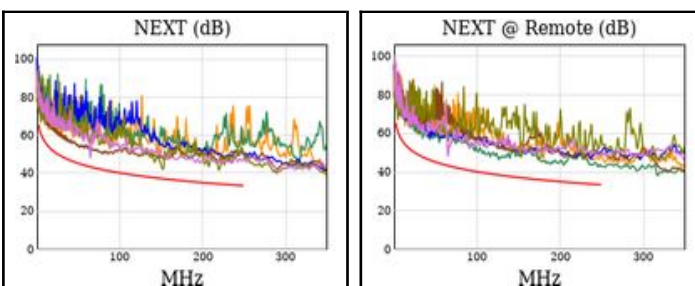
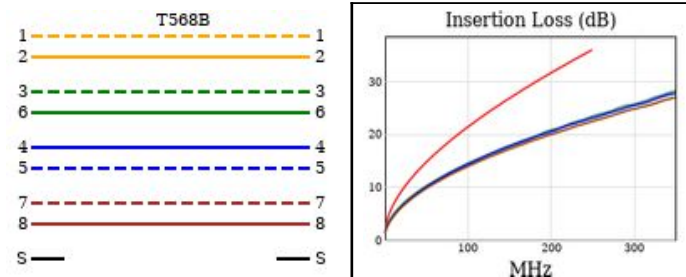
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	3,6	3,6
RL (dB)	9.0	2.8	9.9	9.7
Freq. (MHz)	7.9	4.4	145.0	218.0
Limit (dB)	19.0	19.0	10.4	8.6

Compliant Network Standards:

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



PASS



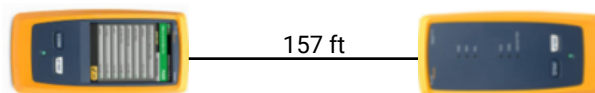


Cable ID: CAM10

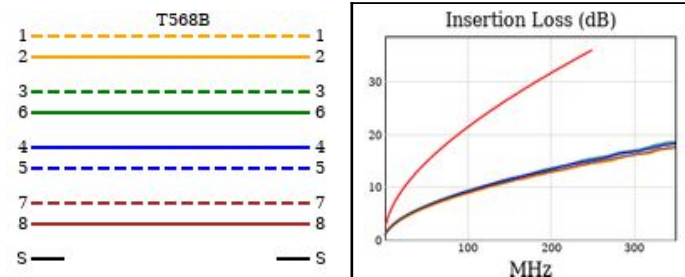
Date / Time: 09/11/2023 03:36:13 PM Operator: MURAT
 Headroom: 5.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	157
Prop. Delay (ns), Limit 555	[Pair 4,5]	241
Delay Skew (ns), Limit 50	[Pair 4,5]	10
Resistance (ohms)	[Pair 3,6]	11.1
Insertion Loss Margin (dB)	[Pair 3,6]	20.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.4	6.2	5.5	6.2
Freq. (MHz)	81.3	233.5	235.0	233.5
Limit (dB)	41.5	33.6	33.6	33.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	7.6	5.8	7.6
Freq. (MHz)	235.0	233.5	235.0	233.5
Limit (dB)	30.6	30.7	30.6	30.7

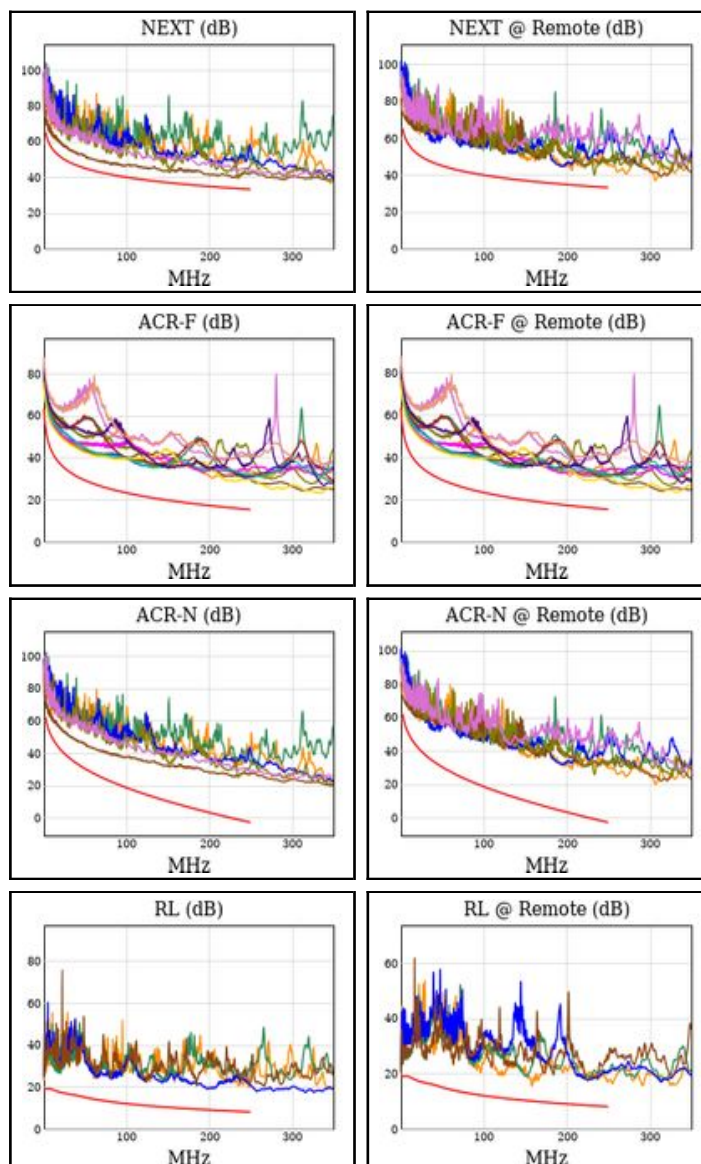
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	12.1	12.2	12.8	13.0
Freq. (MHz)	7.0	7.0	232.0	232.5
Limit (dB)	46.4	46.4	15.9	15.9
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	12.3	12.6	13.2	14.1
Freq. (MHz)	7.1	7.0	219.5	232.5
Limit (dB)	43.2	43.4	13.4	12.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	8.2	10.6	26.0	26.6
Freq. (MHz)	4.0	3.0	235.0	233.5
Limit (dB)	59.0	61.5	-1.1	-0.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.1	12.7	25.5	27.3
Freq. (MHz)	4.0	3.0	235.0	233.5
Limit (dB)	56.5	58.5	-4.0	-3.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	4,5	1,2
RL (dB)	8.9	5.3	10.0	5.3
Freq. (MHz)	18.8	158.5	198.5	158.5
Limit (dB)	17.6	10.0	9.0	10.0

Compliant Network Standards:

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





Cable ID: CAM11

Date / Time: 09/11/2023 02:46:59 PM Operator: MURAT
 Headroom: 4.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	299
Prop. Delay (ns), Limit 555	[Pair 4,5]	457
Delay Skew (ns), Limit 50	[Pair 4,5]	17
Resistance (ohms)	[Pair 3,6]	21.4
Insertion Loss Margin (dB)	[Pair 3,6]	8.6
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

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)	8.3	4.4	8.3	6.6
Freq. (MHz)	232.5	156.0	232.5	225.5
Limit (dB)	33.7	36.6	33.7	33.9
Worst Pair	3,6	3,6	7,8	7,8
PS NEXT (dB)	8.6	6.2	8.9	8.7
Freq. (MHz)	6.6	155.5	232.5	225.5
Limit (dB)	56.9	33.8	30.7	30.9

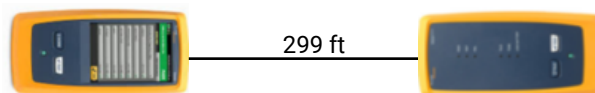
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-4,5	7,8-3,6	3,6-4,5
ACR-F (dB)	10.8	11.0	11.9	12.5
Freq. (MHz)	171.0	181.5	224.5	230.5
Limit (dB)	18.6	18.1	16.2	16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	11.0	11.6	11.3	11.7
Freq. (MHz)	180.0	7.4	225.5	217.5
Limit (dB)	15.2	42.9	13.2	13.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	9.8	7.0	17.2	15.2
Freq. (MHz)	6.8	6.9	232.5	225.5
Limit (dB)	54.2	54.0	-0.8	0.1
Worst Pair	3,6	3,6	7,8	3,6
PS ACR-N (dB)	9.3	8.4	17.7	19.3
Freq. (MHz)	6.6	10.3	232.5	250.0
Limit (dB)	51.8	47.4	-3.7	-5.8

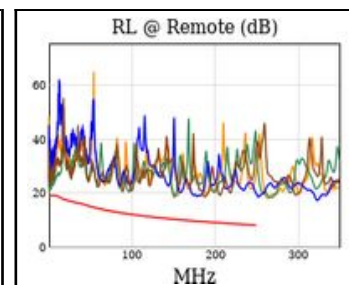
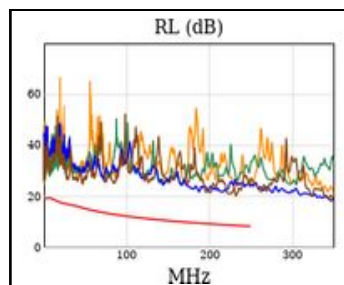
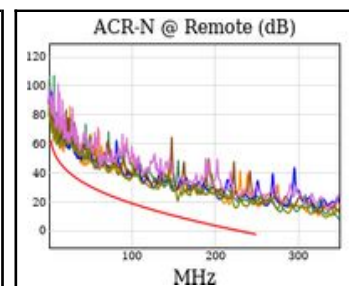
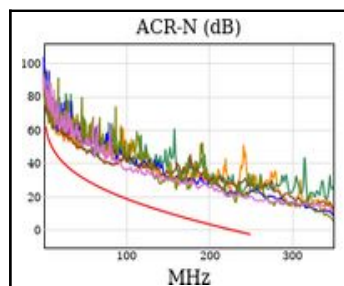
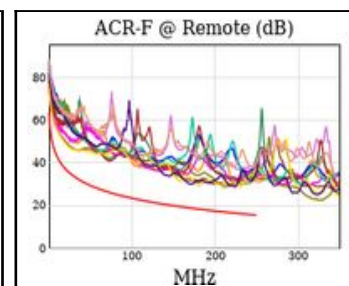
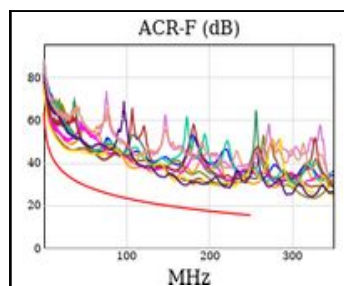
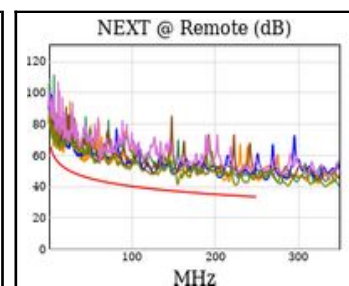
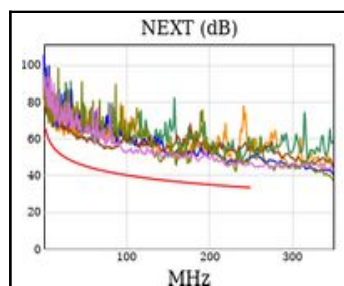
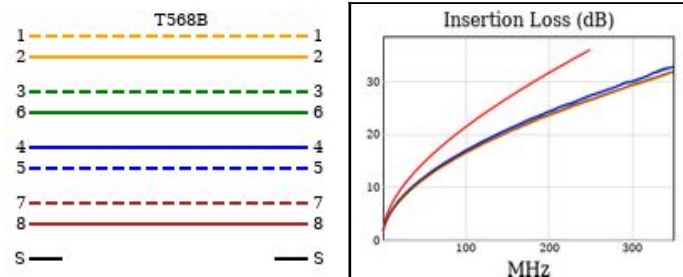
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	7,8	3,6
RL (dB)	8.4	2.6	11.6	8.3
Freq. (MHz)	7.6	3.8	232.5	152.0
Limit (dB)	19.0	19.0	8.3	10.2

Compliant Network Standards:

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



PASS



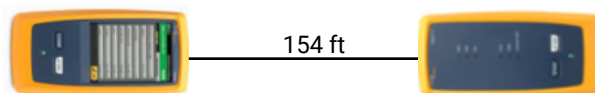


Cable ID: CAM12

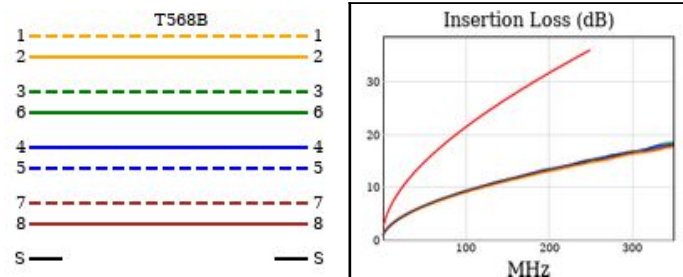
Date / Time: 09/01/2023 03:00:46 PM Operator: MURAT
 Headroom: 5.1 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	154
Prop. Delay (ns), Limit 555	[Pair 4,5]	236
Delay Skew (ns), Limit 50	[Pair 4,5]	9
Resistance (ohms)	[Pair 7,8]	12.0
Insertion Loss Margin (dB)	[Pair 3,6]	20.7
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9



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	3,6-4,5
NEXT (dB)	5.1	6.7	5.1	9.3
Freq. (MHz)	157.5	157.5	157.5	240.5
Limit (dB)	36.6	36.6	36.6	33.4
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	6.9	7.2	9.1	7.2
Freq. (MHz)	157.5	158.0	224.0	158.0
Limit (dB)	33.7	33.6	31.0	33.6

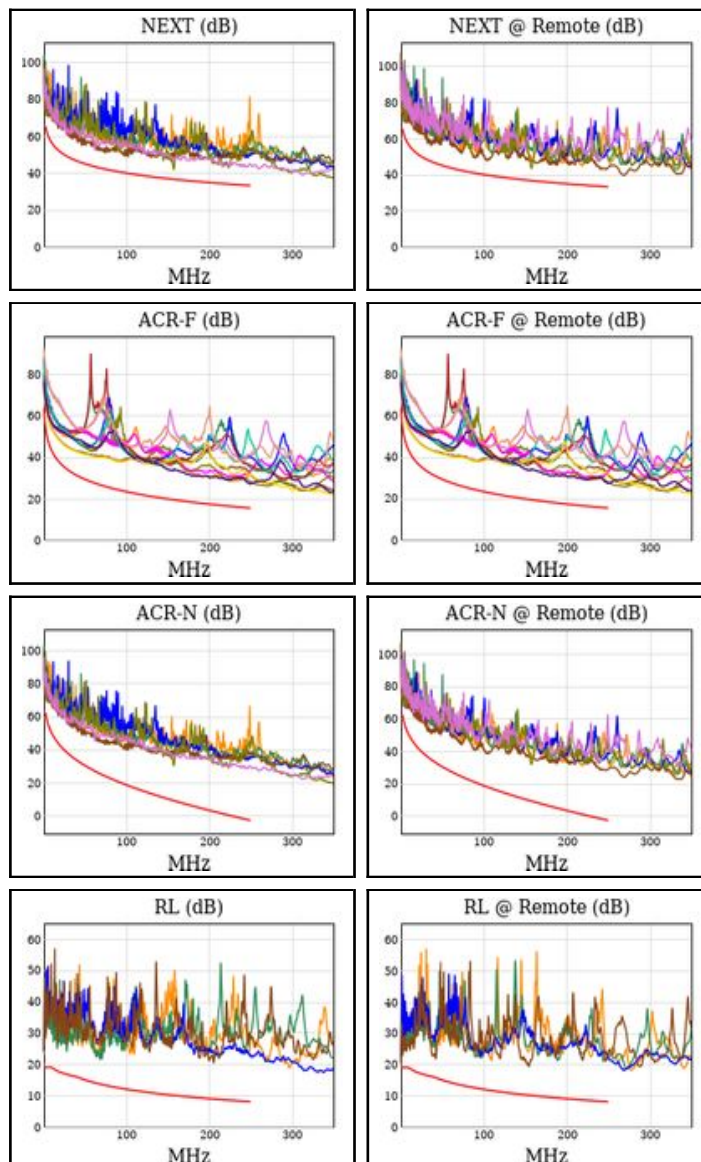
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	3,6-7,8
ACR-F (dB)	10.4	10.4	11.5	11.8
Freq. (MHz)	27.9	26.5	249.5	249.5
Limit (dB)	34.4	34.8	15.3	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.2	10.0	12.5	12.8
Freq. (MHz)	5.4	7.4	249.5	250.0
Limit (dB)	45.6	42.9	12.3	12.3

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)	10.7	9.2	30.8	30.4
Freq. (MHz)	4.4	4.4	246.5	247.5
Limit (dB)	58.2	58.2	-2.4	-2.5
Worst Pair	3,6	3,6	7,8	4,5
PS ACR-N (dB)	12.3	10.2	28.8	30.8
Freq. (MHz)	2.4	4.4	224.0	240.5
Limit (dB)	58.9	55.7	-2.7	-4.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	7,8	7,8	7,8
RL (dB)	7.2	5.9	11.4	9.2
Freq. (MHz)	17.0	11.9	205.5	155.0
Limit (dB)	17.8	18.6	8.9	10.1

Compliant Network Standards:

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





Cable ID: CAM13

Date / Time: 09/01/2023 03:06:17 PM Operator: MURAT
 Headroom: 5.6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	157
Prop. Delay (ns), Limit 555	[Pair 4,5]	240
Delay Skew (ns), Limit 50	[Pair 4,5]	9
Resistance (ohms)	[Pair 3,6]	15.1
Insertion Loss Margin (dB)	[Pair 3,6]	20.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	3,6-7,8	4,5-7,8
NEXT (dB)	6.8	5.6	7.2	11.5
Freq. (MHz)	67.0	66.5	226.0	249.0
Limit (dB)	42.9	42.9	33.9	33.1
Worst Pair	7,8	7,8	7,8	4,5
PS NEXT (dB)	7.6	7.9	7.6	11.9
Freq. (MHz)	226.0	66.3	226.0	249.0
Limit (dB)	30.9	40.2	30.9	30.2

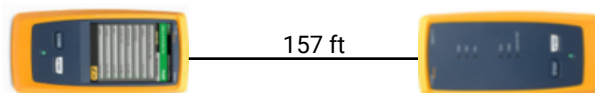
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	1,2-3,6	3,6-1,2
ACR-F (dB)	6.7	6.9	10.1	10.5
Freq. (MHz)	5.0	4.5	238.5	234.5
Limit (dB)	49.3	50.2	15.7	15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	7.0	7.2	11.1	12.4
Freq. (MHz)	15.3	12.8	229.5	242.5
Limit (dB)	36.6	38.1	13.0	12.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	1,2-3,6	3,6-7,8	4,5-7,8
ACR-N (dB)	12.3	13.7	27.1	32.6
Freq. (MHz)	11.4	11.1	226.0	249.0
Limit (dB)	48.9	49.1	0.0	-2.7
Worst Pair	3,6	3,6	7,8	4,5
PS ACR-N (dB)	12.5	14.1	27.4	32.7
Freq. (MHz)	6.0	6.0	226.0	249.0
Limit (dB)	52.8	52.8	-2.9	-5.7

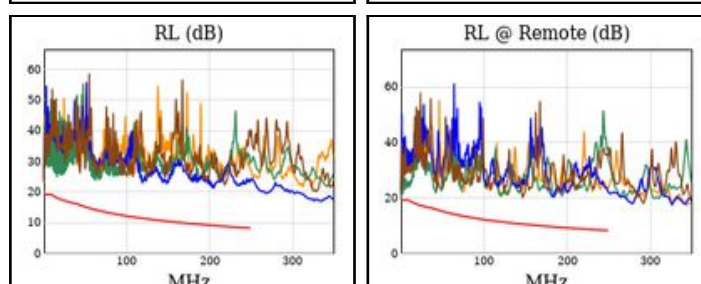
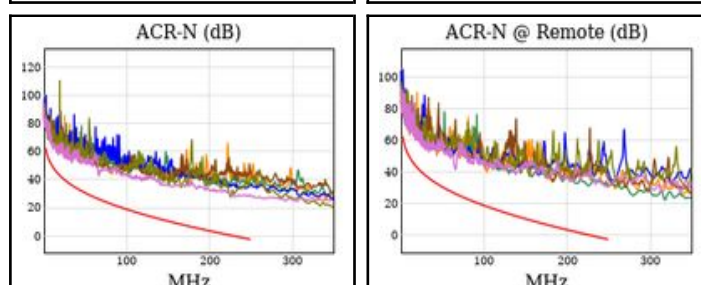
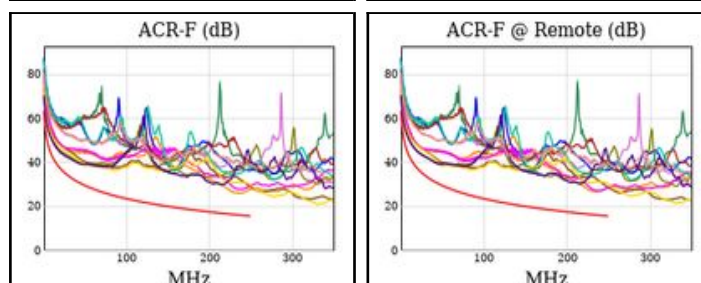
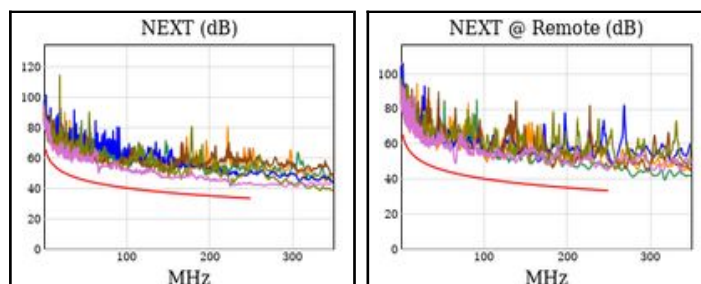
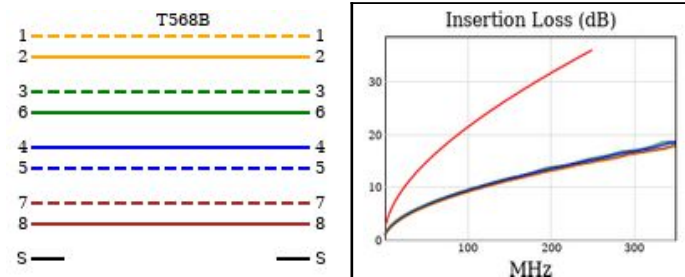
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	4,5	7,8
RL (dB)	6.9	4.8	12.1	9.5
Freq. (MHz)	16.8	9.5	206.0	147.0
Limit (dB)	17.9	19.0	8.9	10.3

Compliant Network Standards:

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



PASS



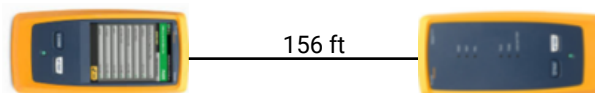


Cable ID: CAM14

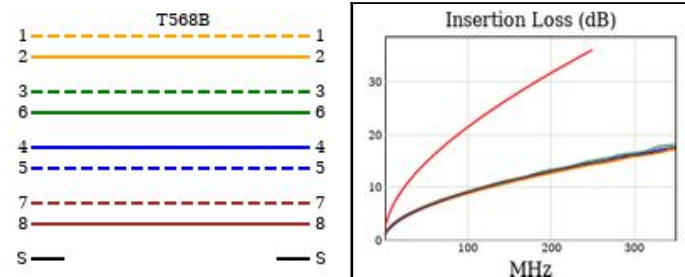
Date / Time: 09/01/2023 02:40:37 PM Operator: MURAT
 Headroom: 3.8 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	156
Prop. Delay (ns), Limit 555	[Pair 4,5]	239
Delay Skew (ns), Limit 50	[Pair 4,5]	10
Resistance (ohms)	[Pair 7,8]	15.3
Insertion Loss Margin (dB)	[Pair 3,6]	21.0
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-7,8	3,6-7,8	3,6-4,5
NEXT (dB)	3.8	4.8	3.8	4.8
Freq. (MHz)	244.0	134.0	244.0	205.0
Limit (dB)	33.3	37.8	33.3	34.6
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	6.1	5.0	6.1	5.0
Freq. (MHz)	244.0	221.0	244.0	221.0
Limit (dB)	30.3	31.1	30.3	31.1

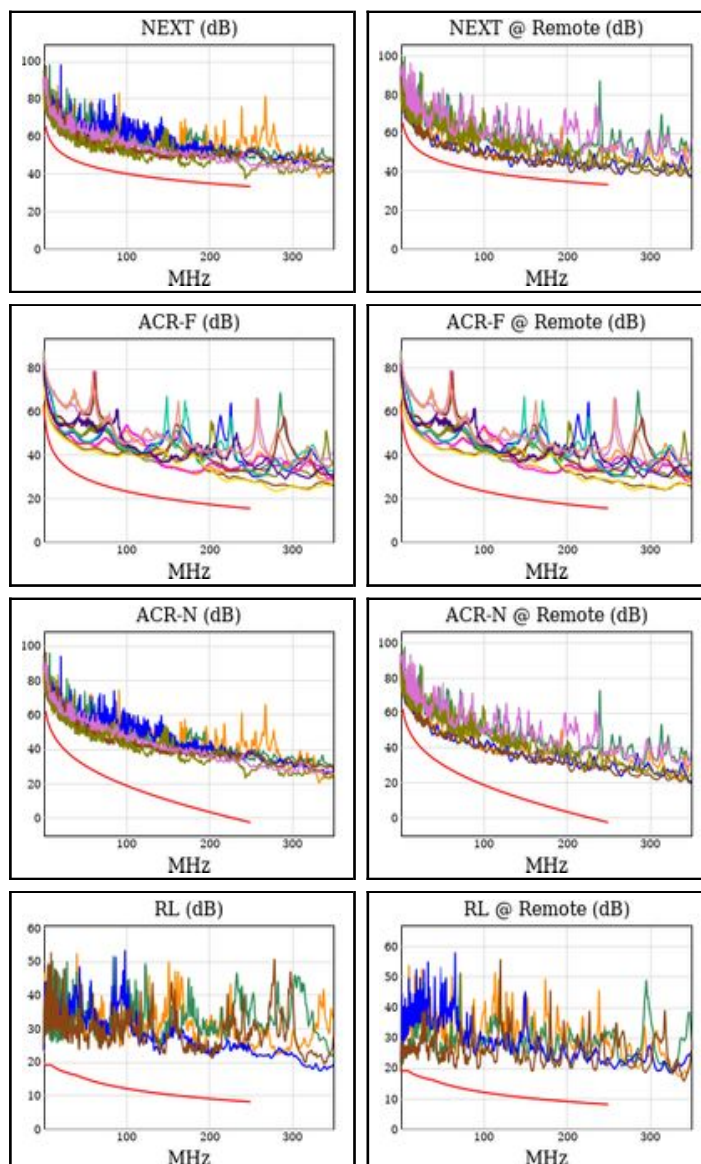
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	10.6	10.8	11.4	12.3
Freq. (MHz)	8.5	8.5	221.0	250.0
Limit (dB)	44.7	44.7	16.4	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	11.4	12.0	12.8	13.4
Freq. (MHz)	12.8	7.1	221.0	250.0
Limit (dB)	38.1	43.2	13.4	12.3

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)	10.4	8.9	24.9	25.5
Freq. (MHz)	2.4	2.4	244.0	221.0
Limit (dB)	61.9	61.9	-2.1	0.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	11.1	8.7	27.2	24.6
Freq. (MHz)	2.5	4.3	244.0	221.0
Limit (dB)	58.8	56.0	-5.1	-2.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	7,8	7,8	7,8
RL (dB)	7.0	5.4	11.9	9.0
Freq. (MHz)	10.5	20.8	204.0	159.0
Limit (dB)	18.9	17.4	8.9	10.0

Compliant Network Standards:

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





Cable ID: CAM2

Date / Time: 09/11/2023 03:23:58 PM Operator: MURAT
 Headroom: 7.5 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	251
Prop. Delay (ns), Limit 555	[Pair 4,5]	384
Delay Skew (ns), Limit 50	[Pair 4,5]	14
Resistance (ohms)	[Pair 3,6]	18.0
Insertion Loss Margin (dB)	[Pair 3,6]	12.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-4,5	3,6-7,8	1,2-4,5
NEXT (dB)	7.5	7.9	7.9	7.9
Freq. (MHz)	3.8	213.0	224.5	213.0
Limit (dB)	63.5	34.3	33.9	34.3
Worst Pair	3,6	3,6	7,8	4,5
PS NEXT (dB)	7.8	8.7	9.0	9.5
Freq. (MHz)	3.8	3.8	236.0	213.0
Limit (dB)	61.0	61.0	30.6	31.4

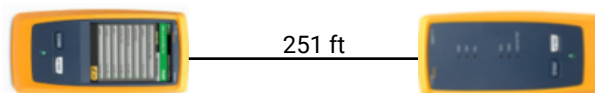
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	7,8-3,6
ACR-F (dB)	9.5	9.5	9.9	10.3
Freq. (MHz)	218.5	218.5	250.0	250.0
Limit (dB)	16.5	16.5	15.3	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.6	11.0	10.9	11.0
Freq. (MHz)	218.5	250.0	250.0	250.0
Limit (dB)	13.5	12.3	12.3	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	1,2-4,5
ACR-N (dB)	8.9	9.4	21.1	19.3
Freq. (MHz)	3.8	3.8	235.5	213.0
Limit (dB)	59.6	59.6	-1.1	1.6
Worst Pair	3,6	3,6	7,8	1,2
PS ACR-N (dB)	8.9	9.8	23.3	24.7
Freq. (MHz)	3.8	3.8	249.5	249.5
Limit (dB)	57.1	57.1	-5.7	-5.7

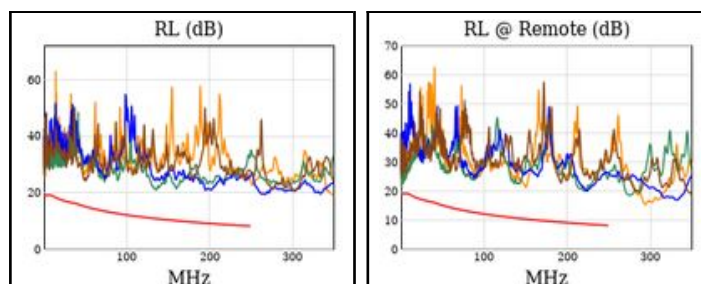
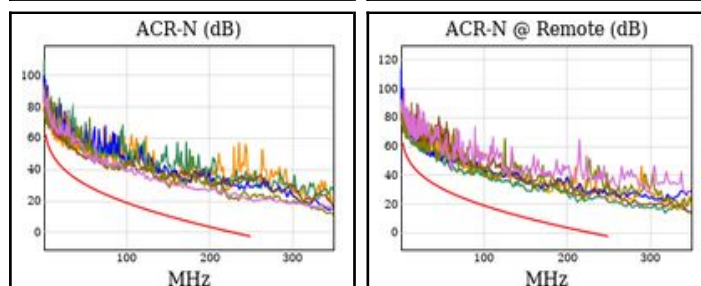
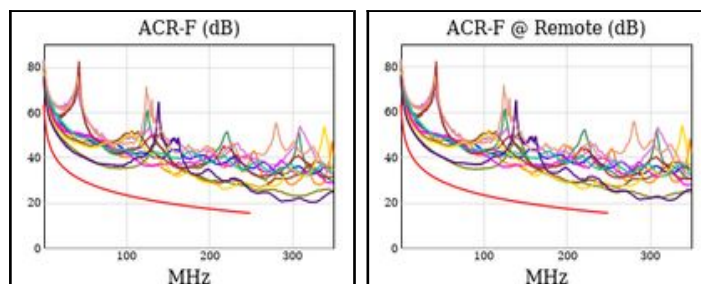
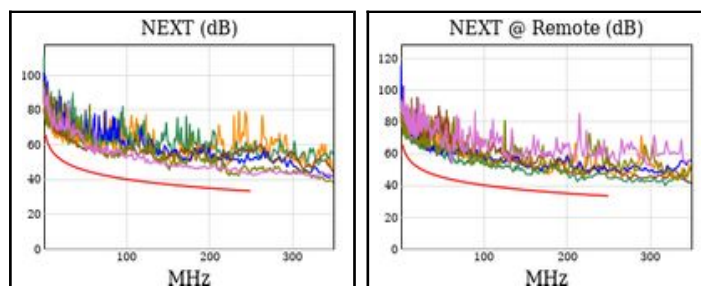
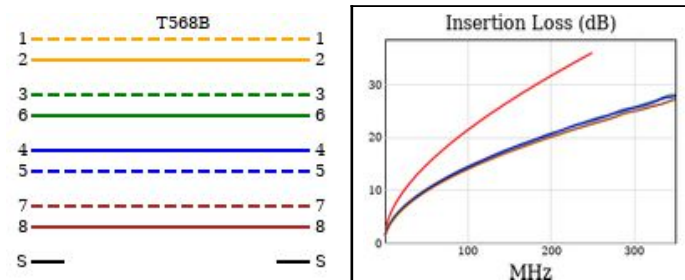
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	3,6	4,5	3,6
RL (dB)	8.7	3.8	11.6	11.3
Freq. (MHz)	7.4	4.4	196.0	221.5
Limit (dB)	19.0	19.0	9.1	8.5

Compliant Network Standards:

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



PASS





Cable ID: CAM3

Date / Time: 09/11/2023 03:20:20 PM Operator: MURAT
 Headroom: 4.9 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	251
Prop. Delay (ns), Limit 555	[Pair 4,5]	385
Delay Skew (ns), Limit 50	[Pair 4,5]	15
Resistance (ohms)	[Pair 3,6]	20.3
Insertion Loss Margin (dB)	[Pair 3,6]	12.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	4,5-7,8	3,6-7,8	1,2-4,5
NEXT (dB)	4.9	4.9	7.2	9.2
Freq. (MHz)	153.0	65.8	220.5	246.5
Limit (dB)	36.8	43.0	34.1	33.2
Worst Pair	4,5	4,5	3,6	1,2
PS NEXT (dB)	6.4	7.0	8.2	10.1
Freq. (MHz)	65.5	66.0	220.5	246.5
Limit (dB)	40.2	40.2	31.1	30.3

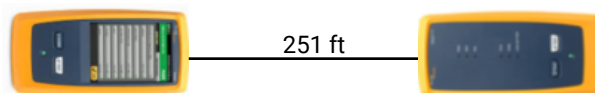
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	7,8-3,6	3,6-7,8
ACR-F (dB)	8.5	9.3	9.8	10.6
Freq. (MHz)	197.0	197.0	231.5	231.5
Limit (dB)	17.4	17.4	16.0	16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.1	11.1	10.4	12.6
Freq. (MHz)	197.0	190.0	232.5	250.0
Limit (dB)	14.4	14.7	12.9	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	1,2-4,5
ACR-N (dB)	7.5	7.4	19.6	21.9
Freq. (MHz)	5.6	5.5	220.5	246.5
Limit (dB)	55.9	56.1	0.7	-2.4
Worst Pair	3,6	7,8	3,6	4,5
PS ACR-N (dB)	7.8	8.9	19.8	23.3
Freq. (MHz)	5.5	5.5	220.5	246.5
Limit (dB)	53.6	53.6	-2.3	-5.4

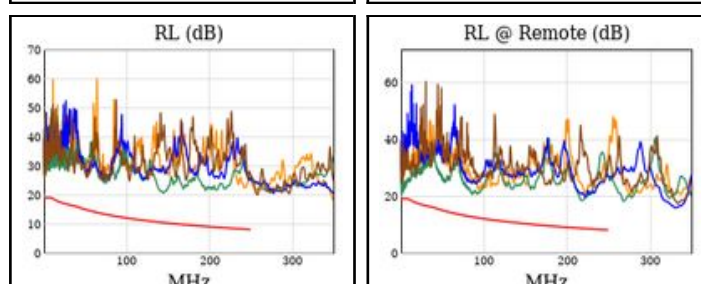
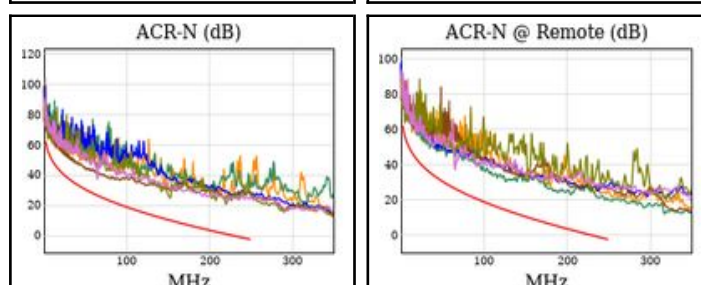
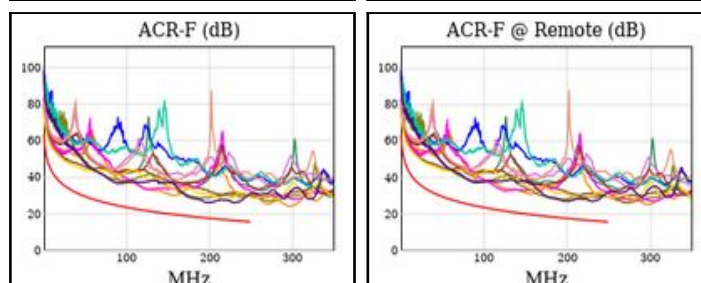
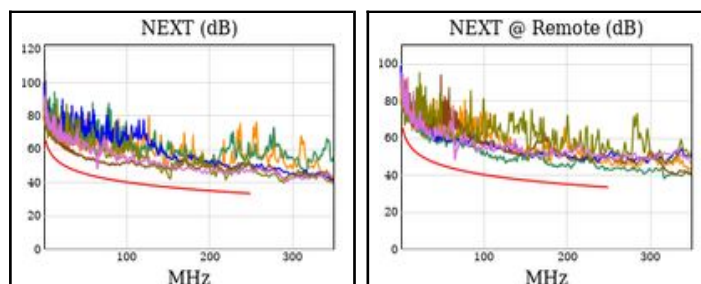
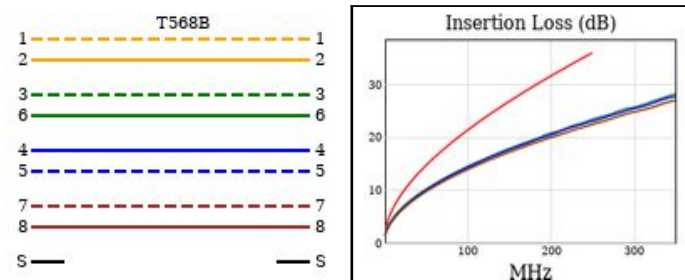
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	3,6	3,6
RL (dB)	9.0	2.8	10.1	9.7
Freq. (MHz)	7.8	4.4	145.0	218.0
Limit (dB)	19.0	19.0	10.4	8.6

Compliant Network Standards:

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



PASS





Cable ID: CAM4

Date / Time: 09/11/2023 02:46:45 PM Operator: MURAT
 Headroom: 4.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	299
Prop. Delay (ns), Limit 555	[Pair 4,5]	457
Delay Skew (ns), Limit 50	[Pair 4,5]	17
Resistance (ohms)	[Pair 3,6]	21.4
Insertion Loss Margin (dB)	[Pair 3,6]	8.6
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

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)	8.2	4.4	8.3	6.6
Freq. (MHz)	6.9	156.0	232.5	225.5
Limit (dB)	59.2	36.6	33.7	33.9
Worst Pair	3,6	3,6	7,8	7,8
PS NEXT (dB)	8.6	6.2	8.9	8.7
Freq. (MHz)	7.4	155.5	232.5	225.5
Limit (dB)	56.2	33.8	30.7	30.9

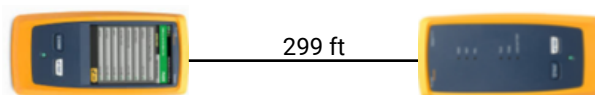
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-4,5	7,8-3,6	3,6-4,5
ACR-F (dB)	10.8	11.0	11.7	12.5
Freq. (MHz)	171.0	181.5	224.0	230.5
Limit (dB)	18.6	18.1	16.3	16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	11.1	11.7	11.3	11.7
Freq. (MHz)	181.0	217.0	225.5	217.0
Limit (dB)	15.1	13.5	13.2	13.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	9.2	7.8	17.2	15.2
Freq. (MHz)	6.9	6.8	232.5	225.5
Limit (dB)	54.0	54.2	-0.8	0.1
Worst Pair	3,6	3,6	7,8	3,6
PS ACR-N (dB)	9.3	8.0	17.7	19.3
Freq. (MHz)	6.6	10.3	232.5	250.0
Limit (dB)	51.8	47.4	-3.7	-5.8

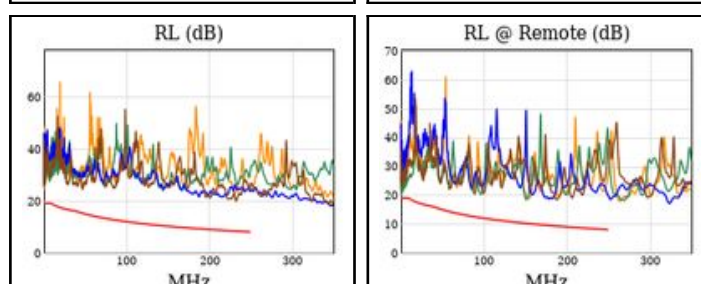
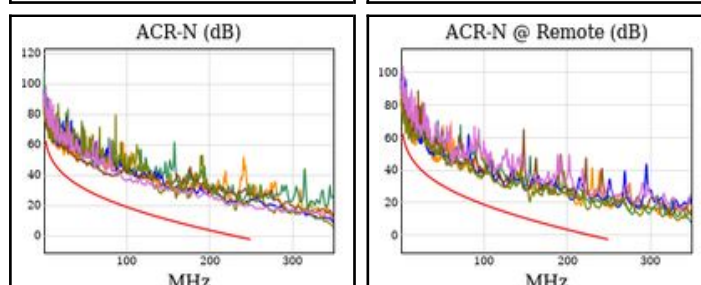
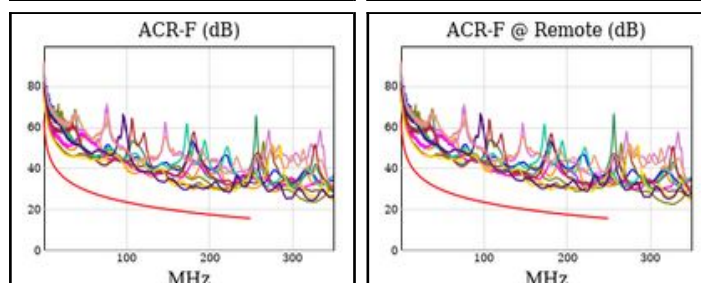
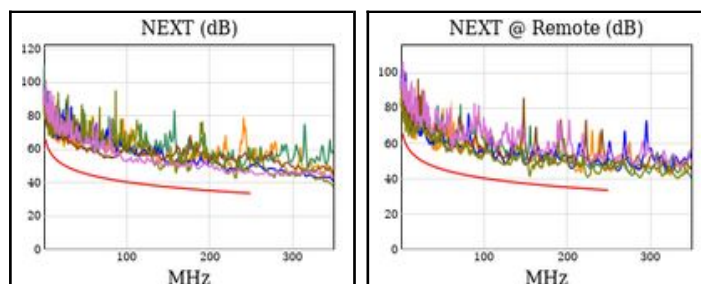
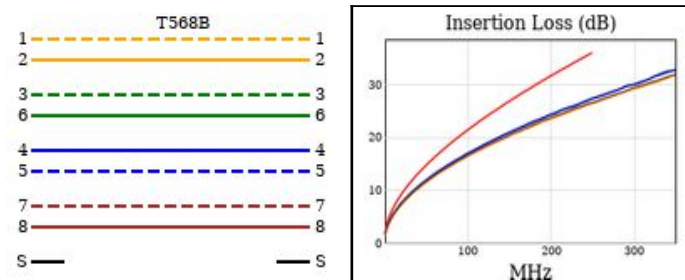
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	7,8	3,6
RL (dB)	8.4	2.5	11.6	8.2
Freq. (MHz)	7.6	3.8	232.5	151.5
Limit (dB)	19.0	19.0	8.3	10.2

Compliant Network Standards:

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



PASS





Cable ID: CAM5

Date / Time: 09/11/2023 02:31:52 PM Operator: MURAT
 Headroom: 3.5 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	298
Prop. Delay (ns), Limit 555	[Pair 4,5]	456
Delay Skew (ns), Limit 50	[Pair 4,5]	17
Resistance (ohms)	[Pair 3,6]	22.8
Insertion Loss Margin (dB)	[Pair 3,6]	8.6
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-4,5	3,6-7,8	3,6-4,5
NEXT (dB)	4.5	3.5	4.5	3.5
Freq. (MHz)	152.5	206.5	152.5	206.5
Limit (dB)	36.8	34.5	36.8	34.5
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	6.6	4.4	6.6	4.4
Freq. (MHz)	152.5	206.5	152.5	206.5
Limit (dB)	33.9	31.6	33.9	31.6

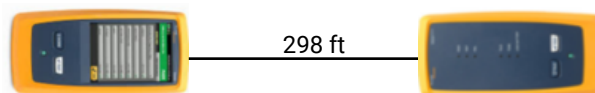
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	7,8-3,6	3,6-4,5
ACR-F (dB)	5.8	6.1	11.1	10.5
Freq. (MHz)	103.5	95.5	250.0	229.0
Limit (dB)	23.0	23.7	15.3	16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	7.6	8.3	9.8	12.7
Freq. (MHz)	101.0	95.5	231.5	250.0
Limit (dB)	20.2	20.7	13.0	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	4,5-7,8	3,6-7,8	3,6-4,5
ACR-N (dB)	10.0	8.8	19.0	15.7
Freq. (MHz)	5.6	64.0	236.5	250.0
Limit (dB)	55.9	26.5	-1.3	-2.8
Worst Pair	3,6	3,6	7,8	4,5
PS ACR-N (dB)	9.3	9.2	19.1	16.5
Freq. (MHz)	5.6	5.6	236.5	250.0
Limit (dB)	53.4	53.4	-4.2	-5.8

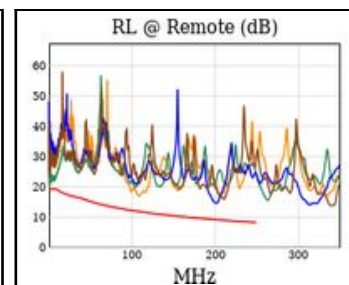
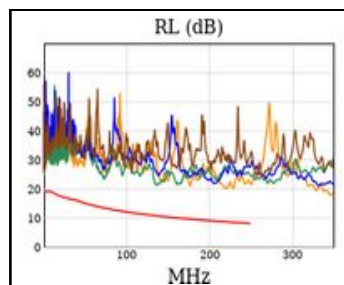
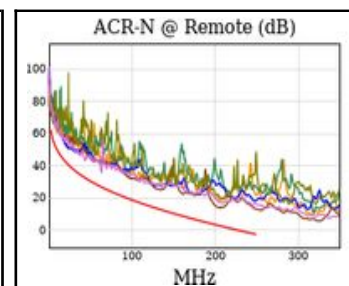
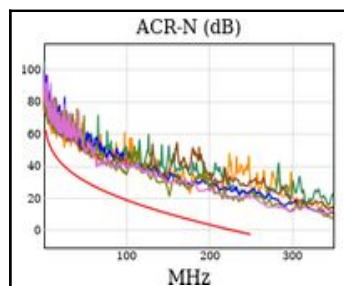
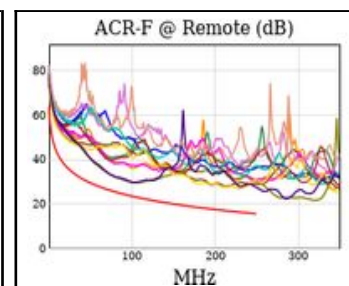
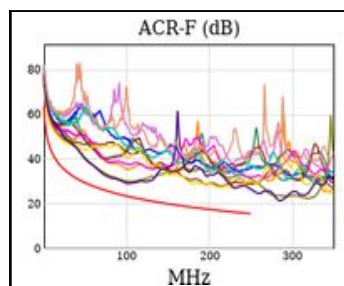
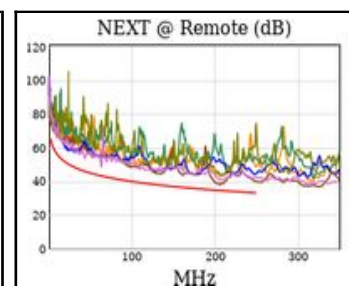
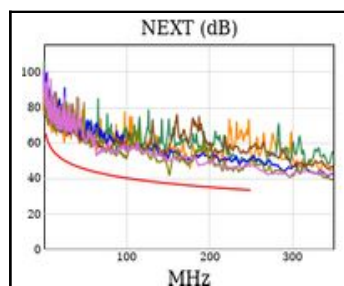
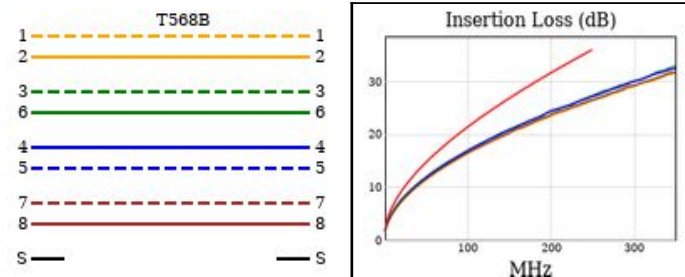
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	1,2	4,5
RL (dB)	9.2	2.3	11.6	5.5
Freq. (MHz)	3.8	3.6	229.5	202.5
Limit (dB)	19.0	19.0	8.4	8.9

Compliant Network Standards:

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



PASS





Cable ID: CAM6

Date / Time: 09/11/2023 03:24:10 PM Operator: MURAT
 Headroom: 7.1 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	251
Prop. Delay (ns), Limit 555	[Pair 4,5]	384
Delay Skew (ns), Limit 50	[Pair 4,5]	14
Resistance (ohms)	[Pair 3,6]	17.9
Insertion Loss Margin (dB)	[Pair 3,6]	12.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

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	1,2-4,5
NEXT (dB)	7.1	7.8	8.2	7.9
Freq. (MHz)	3.8	3.9	235.5	213.0
Limit (dB)	63.5	63.3	33.6	34.3
Worst Pair	3,6	3,6	7,8	4,5
PS NEXT (dB)	7.1	8.7	8.9	9.5
Freq. (MHz)	3.8	3.9	235.5	213.0
Limit (dB)	61.0	60.8	30.6	31.4

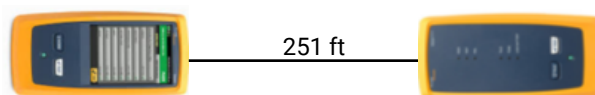
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	7,8-3,6	7,8-3,6
ACR-F (dB)	9.5	9.5	10.0	10.3
Freq. (MHz)	218.5	218.5	250.0	250.0
Limit (dB)	16.5	16.5	15.3	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.6	11.0	10.9	11.0
Freq. (MHz)	218.5	250.0	250.0	250.0
Limit (dB)	13.5	12.3	12.3	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	1,2-4,5
ACR-N (dB)	8.5	9.2	21.0	19.3
Freq. (MHz)	3.8	3.9	235.5	213.0
Limit (dB)	59.6	59.3	-1.1	1.6
Worst Pair	3,6	3,6	7,8	1,2
PS ACR-N (dB)	8.2	9.8	21.7	24.7
Freq. (MHz)	3.8	3.9	235.5	249.5
Limit (dB)	57.1	56.8	-4.1	-5.7

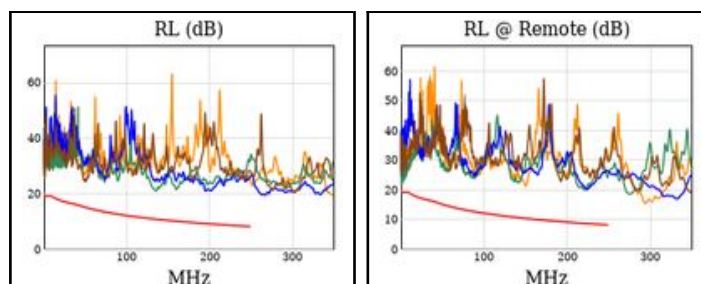
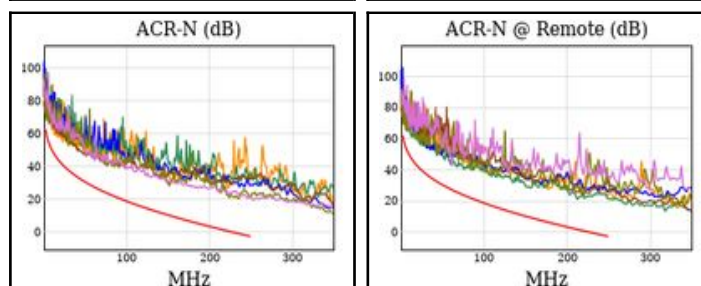
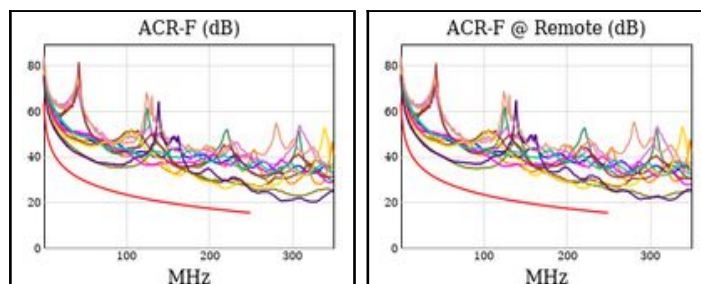
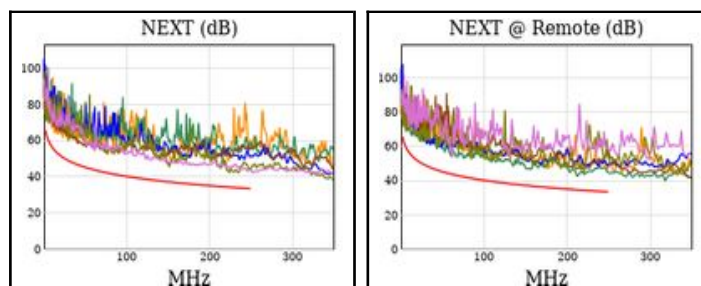
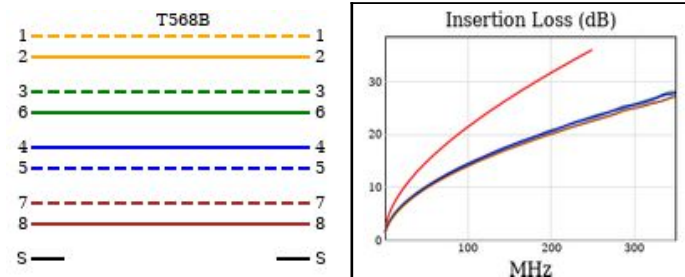
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	3,6	3,6	3,6
RL (dB)	9.0	3.8	10.2	11.3
Freq. (MHz)	7.4	4.4	137.0	221.5
Limit (dB)	19.0	19.0	10.6	8.5

Compliant Network Standards:

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



PASS





Cable ID: CAM7

Date / Time: 09/01/2023 02:28:49 PM Operator: MURAT
 Headroom: 6.7 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	221
Prop. Delay (ns), Limit 555	[Pair 4,5]	340
Delay Skew (ns), Limit 50	[Pair 4,5]	14
Resistance (ohms)	[Pair 3,6]	15.2
Insertion Loss Margin (dB)	[Pair 3,6]	15.3
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	7.1	6.7	7.5	8.4
Freq. (MHz)	86.5	3.0	243.0	243.5
Limit (dB)	41.0	65.0	33.3	33.3
Worst Pair	3,6	4,5	7,8	4,5
PS NEXT (dB)	7.4	6.9	8.6	7.4
Freq. (MHz)	88.0	156.0	243.0	222.5
Limit (dB)	38.0	33.7	30.4	31.0

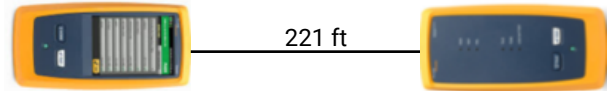
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	10.0	10.0	10.2	10.2
Freq. (MHz)	218.5	218.5	221.5	222.5
Limit (dB)	16.5	16.5	16.3	16.3
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	11.5	11.8	11.6	13.2
Freq. (MHz)	224.0	5.0	224.5	247.5
Limit (dB)	13.3	46.3	13.2	12.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	9.2	8.1	23.3	24.3
Freq. (MHz)	3.0	3.0	243.0	243.5
Limit (dB)	61.5	61.5	-2.0	-2.1
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	10.6	10.2	24.0	24.4
Freq. (MHz)	6.0	3.0	243.0	249.5
Limit (dB)	52.8	58.5	-5.0	-5.7

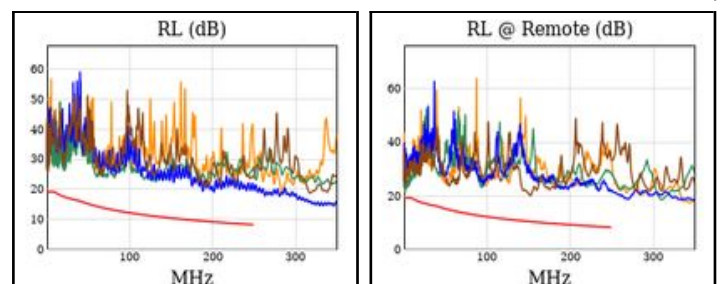
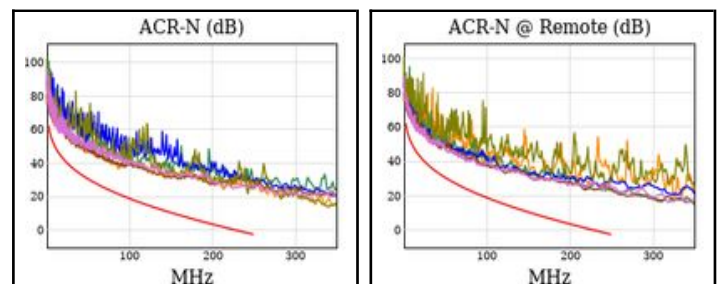
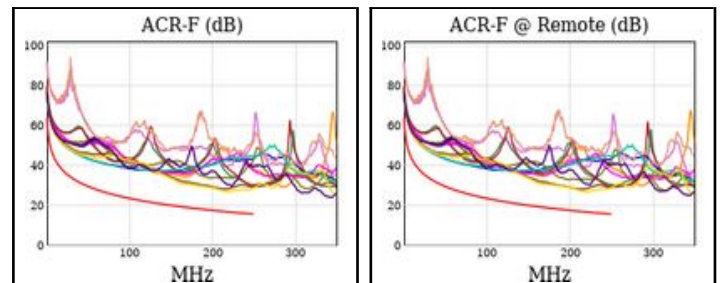
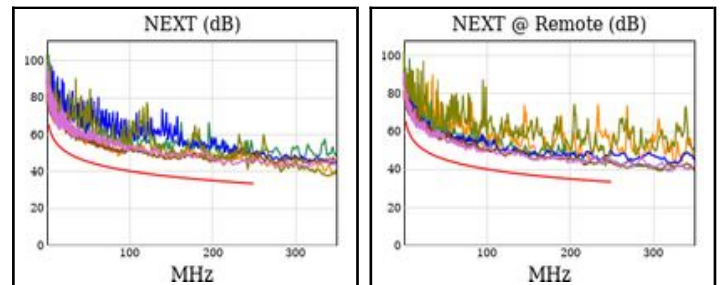
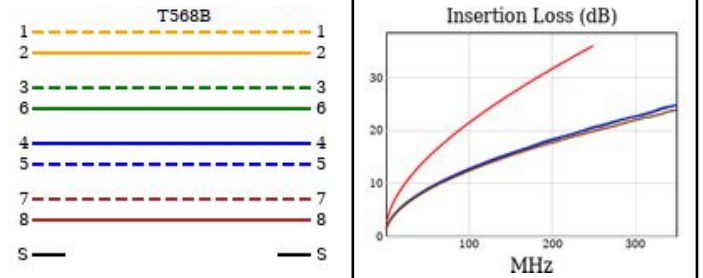
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	4,5	7,8
RL (dB)	8.2	4.3	10.0	9.8
Freq. (MHz)	8.8	6.5	202.5	153.5
Limit (dB)	19.0	19.0	8.9	10.1

Compliant Network Standards:

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



PASS





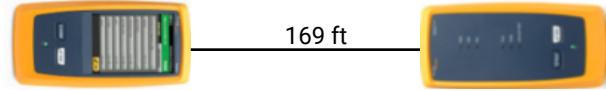
Cable ID: CAM8

Date / Time: 09/01/2023 03:53:25 PM Operator: MURAT
 Headroom: 6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

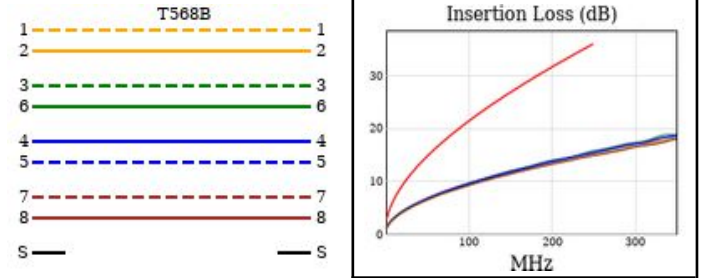
Test Summary: PASS

Model: DSX-8000
 Main S/N: 1927404
 Remote S/N: 1927408
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (ft), Limit 328	[Pair 7,8]	169
Prop. Delay (ns), Limit 555	[Pair 4,5]	260
Delay Skew (ns), Limit 50	[Pair 4,5]	11
Resistance (ohms)	[Pair 3,6]	10.6
Insertion Loss Margin (dB)	[Pair 3,6]	20.2
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9



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	3,6-7,8
NEXT (dB)	8.7	6.0	10.5	6.3
Freq. (MHz)	140.5	126.5	249.0	239.0
Limit (dB)	37.4	38.2	33.1	33.5
Worst Pair	3,6	3,6	7,8	3,6
PS NEXT (dB)	9.2	7.1	11.2	7.7
Freq. (MHz)	142.5	126.0	240.0	239.0
Limit (dB)	34.4	35.3	30.5	30.5

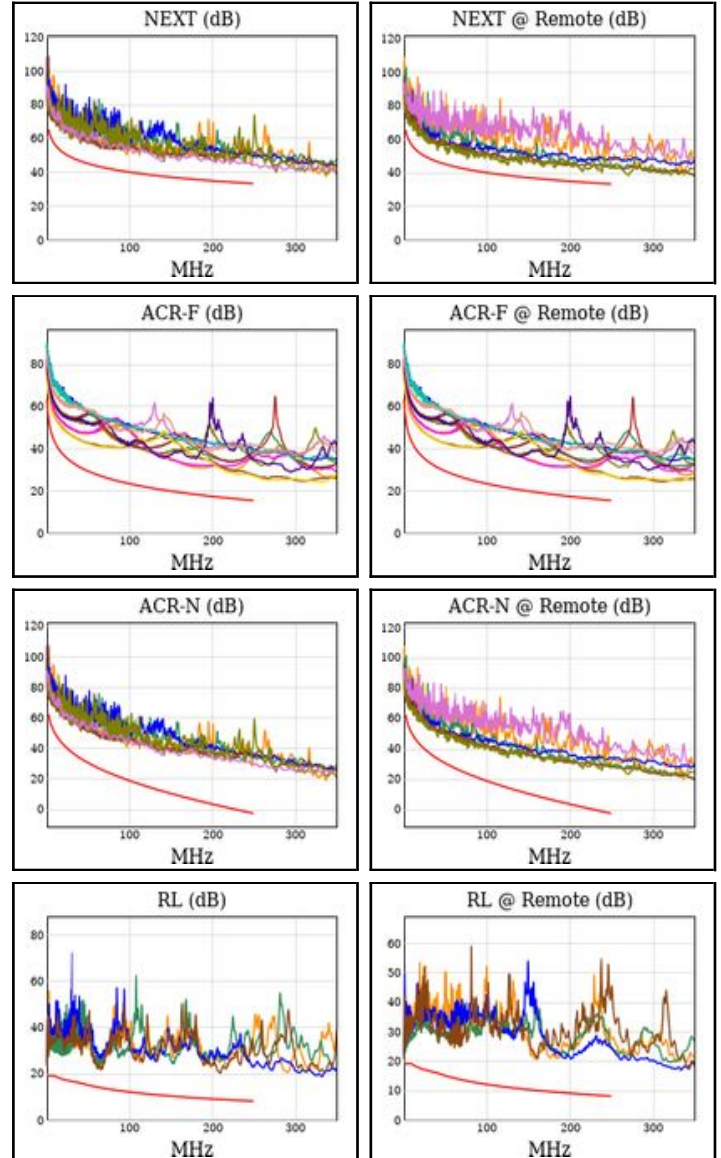
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	11.2	11.3	11.6	11.7
Freq. (MHz)	10.8	11.3	250.0	250.0
Limit (dB)	42.6	42.2	15.3	15.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	11.8	11.9	12.7	13.3
Freq. (MHz)	5.0	5.0	232.5	250.0
Limit (dB)	46.3	46.3	12.9	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-7,8
ACR-N (dB)	12.1	11.0	30.9	26.8
Freq. (MHz)	3.8	3.8	248.0	239.0
Limit (dB)	59.6	59.6	-2.6	-1.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	12.6	11.0	32.1	28.5
Freq. (MHz)	4.1	4.0	247.5	249.5
Limit (dB)	56.2	56.5	-5.5	-5.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	3,6	7,8	7,8
RL (dB)	7.6	8.4	11.2	10.6
Freq. (MHz)	66.0	11.0	210.0	161.5
Limit (dB)	13.8	18.8	8.8	9.9

Compliant Network Standards:

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



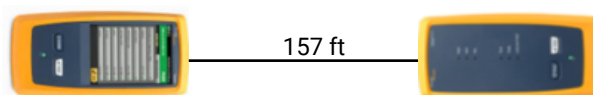


Cable ID: CAM9

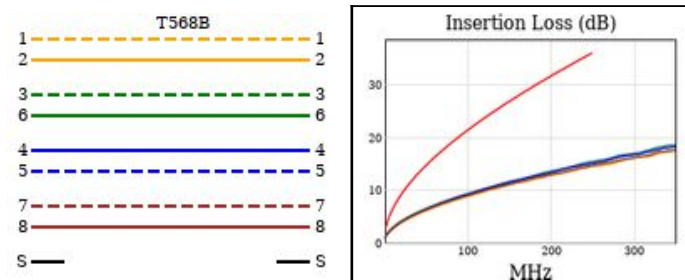
Date / Time: 09/11/2023 03:36:25 PM Operator: MURAT
 Headroom: 5.3 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	157
Prop. Delay (ns), Limit 555	[Pair 4,5]	241
Delay Skew (ns), Limit 50	[Pair 4,5]	10
Resistance (ohms)	[Pair 3,6]	11.1
Insertion Loss Margin (dB)	[Pair 3,6]	20.5
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9



PASS



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	5.3	6.2	5.5	6.2
Freq. (MHz)	81.0	233.5	235.0	233.5
Limit (dB)	41.5	33.6	33.6	33.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	5.8	7.6	5.8	7.6
Freq. (MHz)	235.0	233.5	235.0	233.5
Limit (dB)	30.6	30.7	30.6	30.7

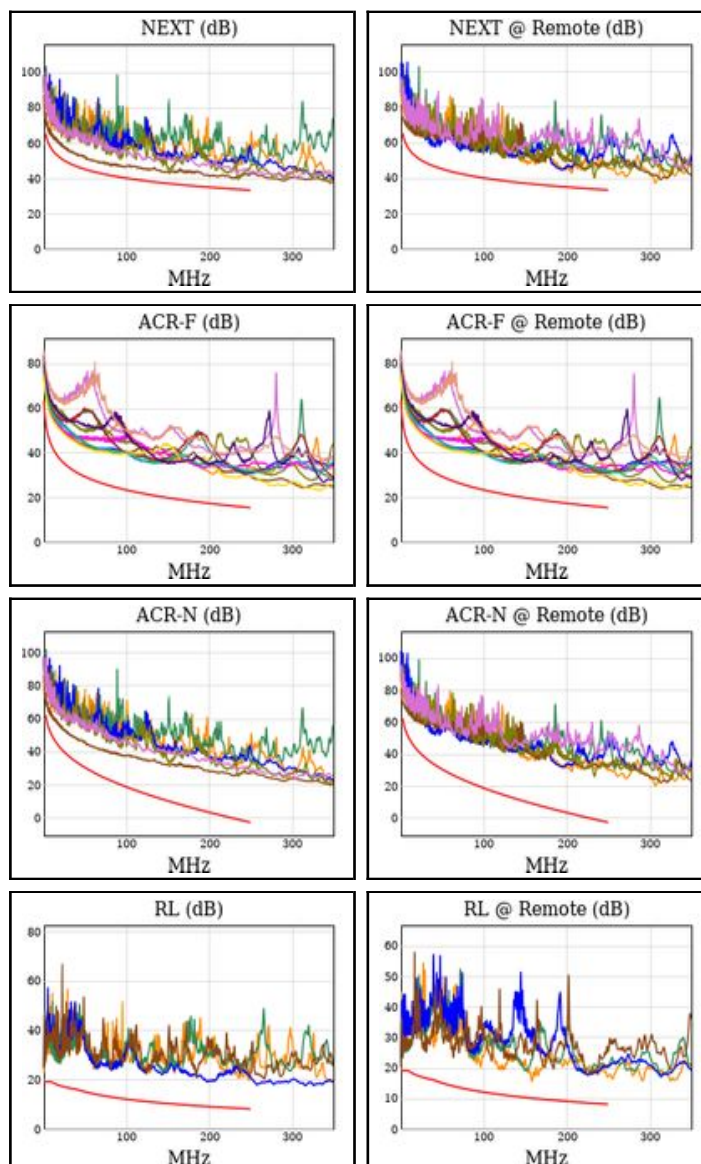
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	12.3	12.4	12.8	13.0
Freq. (MHz)	8.4	8.4	232.0	232.5
Limit (dB)	44.8	44.8	15.9	15.9
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	12.3	12.5	13.2	14.1
Freq. (MHz)	7.6	7.0	219.5	232.5
Limit (dB)	42.6	43.4	13.4	12.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	8.4	10.9	26.0	26.6
Freq. (MHz)	3.8	3.1	235.0	233.5
Limit (dB)	59.6	61.2	-1.1	-0.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	10.2	12.7	25.5	27.3
Freq. (MHz)	3.8	3.4	235.0	233.5
Limit (dB)	57.1	58.0	-4.0	-3.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	1,2	4,5	1,2
RL (dB)	8.9	5.4	10.0	5.4
Freq. (MHz)	18.9	158.5	198.5	158.5
Limit (dB)	17.6	10.0	9.0	10.0

Compliant Network Standards:

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





Cable ID: D1

Date / Time: 08/24/2023 07:06:24 PM Operator: MURAT
 Headroom: 6.8 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 1,2]	61
Prop. Delay (ns), Limit 555	[Pair 4,5]	92
Delay Skew (ns), Limit 50	[Pair 4,5]	2
Resistance (ohms)	[Pair 3,6]	4.4
Insertion Loss Margin (dB)	[Pair 3,6]	29.1
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.8	7.4	7.3	7.9
Freq. (MHz)	152.0	216.5	229.0	248.0
Limit (dB)	36.8	34.2	33.8	33.2
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.8	8.2	7.8	8.3
Freq. (MHz)	229.0	216.0	229.0	217.0
Limit (dB)	30.8	31.3	30.8	31.2

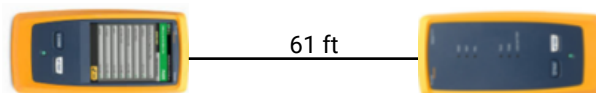
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	10.2	10.3	10.8	10.3
Freq. (MHz)	41.5	233.5	242.0	233.5
Limit (dB)	30.9	15.9	15.6	15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.9	11.2	12.6	12.7
Freq. (MHz)	47.8	29.9	236.0	233.5
Limit (dB)	26.7	30.8	12.8	12.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	15.1	14.5	35.5	37.4
Freq. (MHz)	4.9	7.4	229.0	248.0
Limit (dB)	57.2	53.3	-0.4	-2.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	15.8	14.4	37.4	38.7
Freq. (MHz)	5.9	6.3	244.0	247.5
Limit (dB)	53.0	52.4	-5.1	-5.5

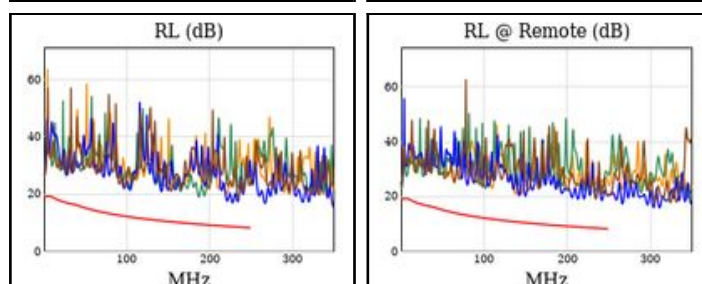
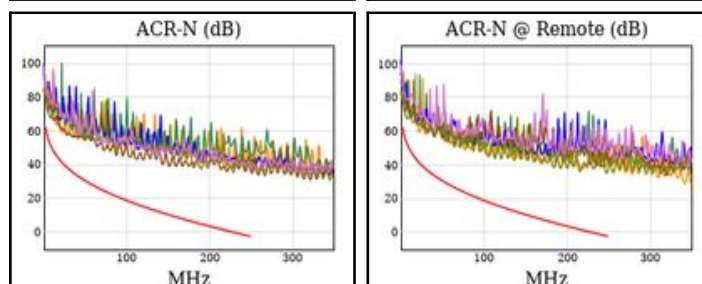
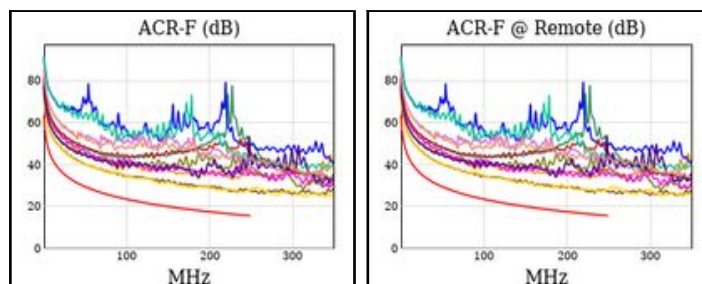
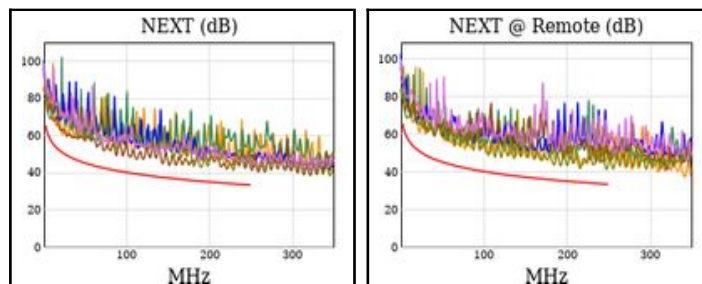
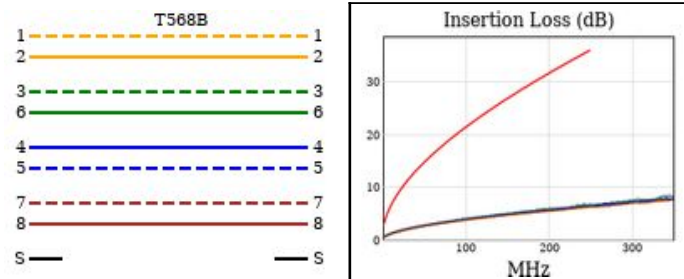
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	8.3	9.7	8.3	10.2
Freq. (MHz)	228.5	150.5	228.5	242.5
Limit (dB)	8.4	10.2	8.4	8.2

Compliant Network Standards:

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



PASS





Cable ID: D10

Date / Time: 08/24/2023 07:33:28 PM Operator: MURAT
 Headroom: 2.5 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 1,2]	43
Prop. Delay (ns), Limit 555	[Pair 3,6]	64
Delay Skew (ns), Limit 50	[Pair 3,6]	1
Resistance (ohms)	[Pair 3,6]	5.0
Insertion Loss Margin (dB)	[Pair 3,6]	30.8
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

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)	5.6	2.5	7.8	2.5
Freq. (MHz)	128.5	169.5	221.0	169.5
Limit (dB)	38.1	36.0	34.0	36.0
Worst Pair	7,8	3,6	3,6	3,6
PS NEXT (dB)	7.5	4.5	8.4	5.3
Freq. (MHz)	128.0	170.0	222.0	225.0
Limit (dB)	35.2	33.1	31.1	31.0

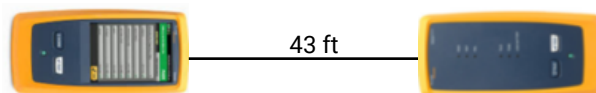
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	8.5	8.9	8.5	8.9
Freq. (MHz)	242.5	242.5	242.5	242.5
Limit (dB)	15.6	15.6	15.6	15.6
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-F (dB)	10.2	10.9	10.8	11.6
Freq. (MHz)	85.0	127.0	242.5	242.5
Limit (dB)	21.7	18.2	12.6	12.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	15.8	15.2	37.0	34.6
Freq. (MHz)	3.0	4.3	221.0	226.0
Limit (dB)	61.5	58.5	0.6	0.0
Worst Pair	7,8	7,8	3,6	3,6
PS ACR-N (dB)	16.9	16.7	37.3	34.4
Freq. (MHz)	3.3	4.0	222.0	225.0
Limit (dB)	58.4	56.5	-2.5	-2.8

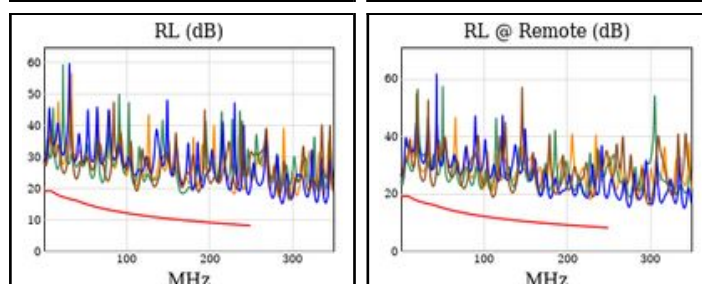
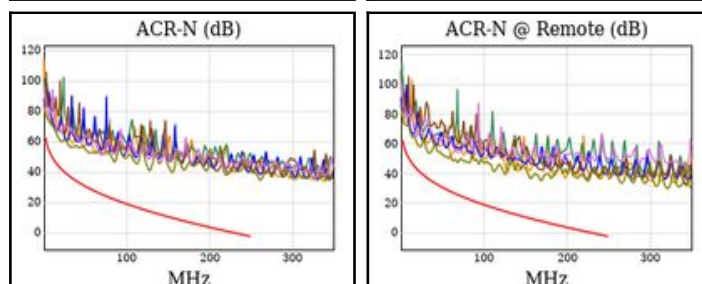
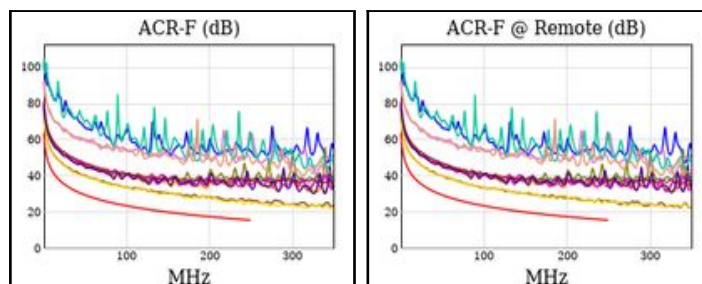
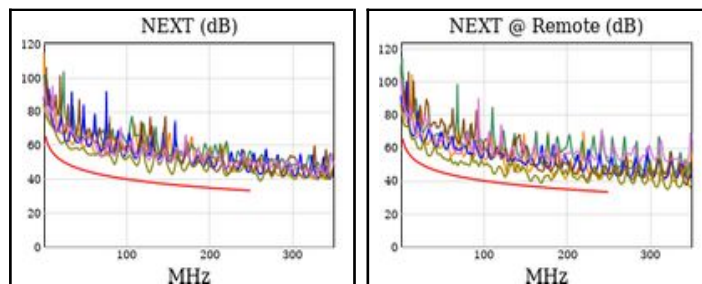
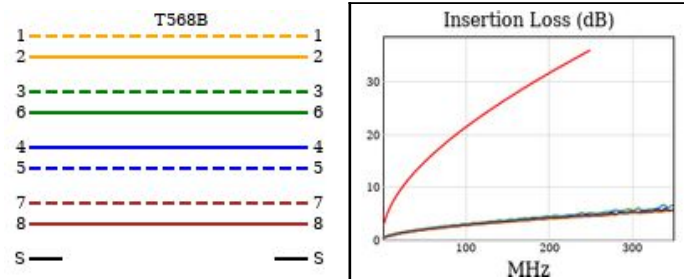
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	4,5	1,2
RL (dB)	7.5	7.1	9.8	9.5
Freq. (MHz)	113.0	111.5	247.5	228.5
Limit (dB)	11.5	11.5	8.1	8.4

Compliant Network Standards:

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



PASS





Cable ID: D2

Date / Time: 08/24/2023 07:10:32 PM Operator: MURAT
 Headroom: 4.6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Model: DSX-8000
 Main S/N: 1927404
 Remote S/N: 1927408
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	50
Prop. Delay (ns), Limit 555	[Pair 3,6]	76
Delay Skew (ns), Limit 50	[Pair 3,6]	2
Resistance (ohms)	[Pair 3,6]	10.6
Insertion Loss Margin (dB)	[Pair 3,6]	29.3
Frequency (MHz)	[Pair 3,6]	245.5
Limit (dB)	[Pair 3,6]	35.6

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	3,6-7,8	3,6-4,5
NEXT (dB)	6.0	4.6	6.0	5.0
Freq. (MHz)	229.5	205.0	229.5	231.0
Limit (dB)	33.8	34.6	33.8	33.7
Worst Pair	3,6	1,2	3,6	3,6
PS NEXT (dB)	6.8	6.4	7.5	6.6
Freq. (MHz)	93.8	215.5	230.5	231.0
Limit (dB)	37.6	31.3	30.8	30.8

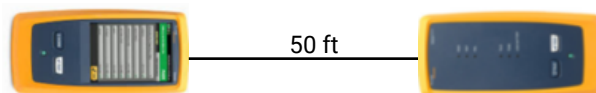
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	9.1	9.7	9.4	9.7
Freq. (MHz)	229.0	230.0	245.5	230.0
Limit (dB)	16.1	16.0	15.5	16.0
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.7	11.3	11.7	12.4
Freq. (MHz)	43.0	9.8	245.5	231.0
Limit (dB)	27.6	40.5	12.5	13.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-7,8	3,6-4,5
ACR-N (dB)	14.8	12.9	35.1	34.1
Freq. (MHz)	10.0	10.8	229.5	231.5
Limit (dB)	50.2	49.5	-0.4	-0.7
Worst Pair	1,2	3,6	3,6	3,6
PS ACR-N (dB)	16.3	14.6	36.0	35.1
Freq. (MHz)	7.9	10.0	230.5	231.0
Limit (dB)	50.1	47.7	-3.5	-3.5

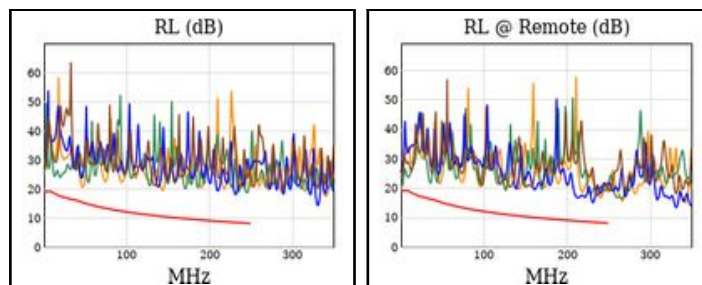
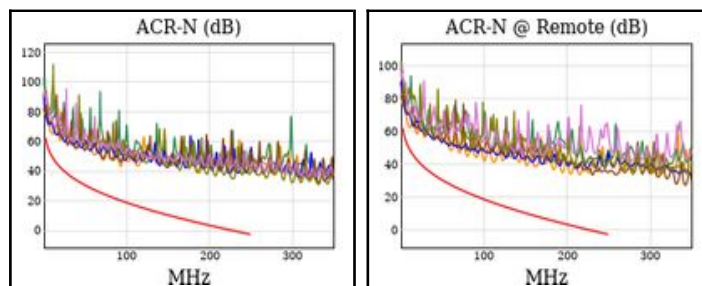
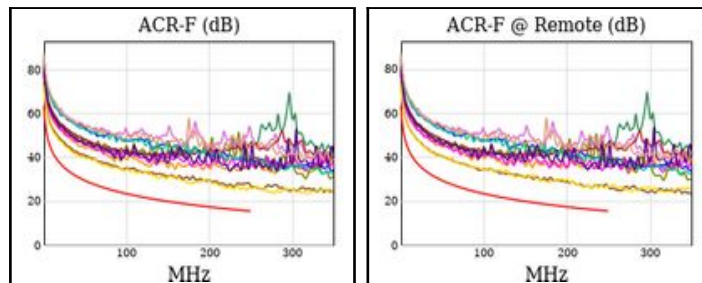
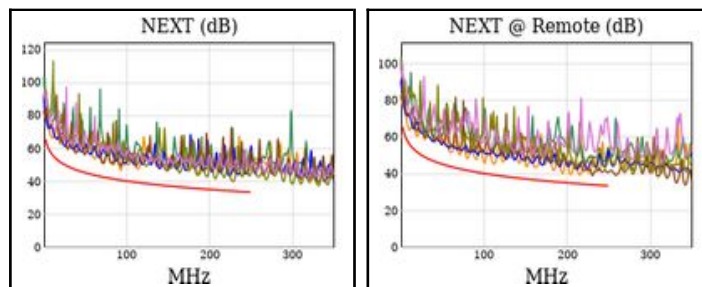
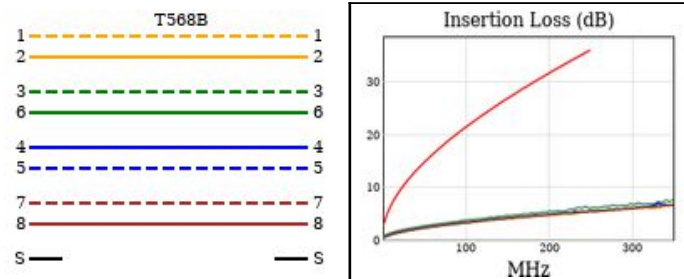
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	4,5	4,5	4,5
RL (dB)	9.0	6.6	9.6	6.7
Freq. (MHz)	144.5	231.5	232.0	232.0
Limit (dB)	10.4	8.4	8.3	8.3

Compliant Network Standards:

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



PASS





Cable ID: D3

Date / Time: 08/24/2023 07:11:21 PM Operator: MURAT
 Headroom: 5.7 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	58
Prop. Delay (ns), Limit 555	[Pair 4,5]	89
Delay Skew (ns), Limit 50	[Pair 4,5]	3
Resistance (ohms)	[Pair 3,6]	11.0
Insertion Loss Margin (dB)	[Pair 3,6]	28.7
Frequency (MHz)	[Pair 3,6]	246.0
Limit (dB)	[Pair 3,6]	35.6

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-7,8	3,6-4,5	3,6-7,8
NEXT (dB)	5.7	6.4	7.8	6.4
Freq. (MHz)	168.0	221.5	248.5	236.5
Limit (dB)	36.1	34.0	33.2	33.5
Worst Pair	4,5	7,8	3,6	7,8
PS NEXT (dB)	6.1	6.8	6.8	6.8
Freq. (MHz)	167.5	220.0	224.0	220.0
Limit (dB)	33.2	31.1	31.0	31.1

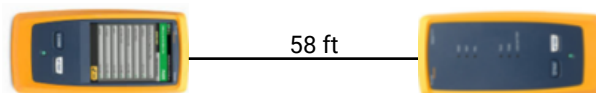
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	9.2	9.6	9.6	10.4
Freq. (MHz)	180.5	174.5	238.5	238.5
Limit (dB)	18.1	18.4	15.7	15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.9	11.7	11.1	12.1
Freq. (MHz)	181.5	236.0	233.0	250.0
Limit (dB)	15.1	12.8	12.9	12.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-4,5	3,6-7,8
ACR-N (dB)	12.8	12.1	37.5	35.3
Freq. (MHz)	5.1	5.1	248.5	236.5
Limit (dB)	56.8	56.8	-2.7	-1.3
Worst Pair	7,8	7,8	3,6	3,6
PS ACR-N (dB)	12.2	12.0	34.3	36.1
Freq. (MHz)	5.0	5.0	224.0	237.5
Limit (dB)	54.5	54.5	-2.7	-4.3

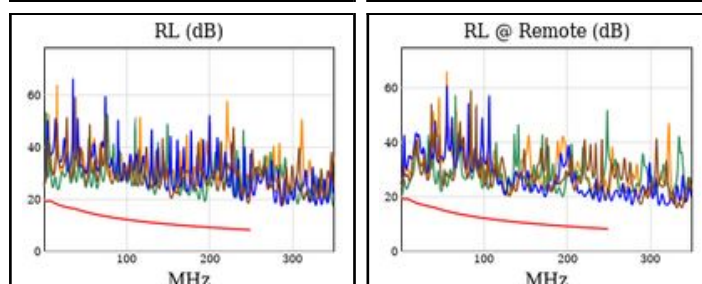
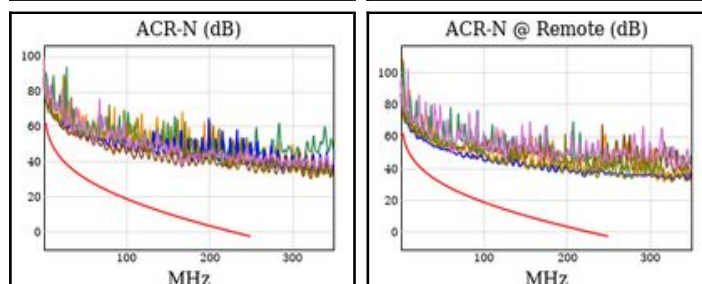
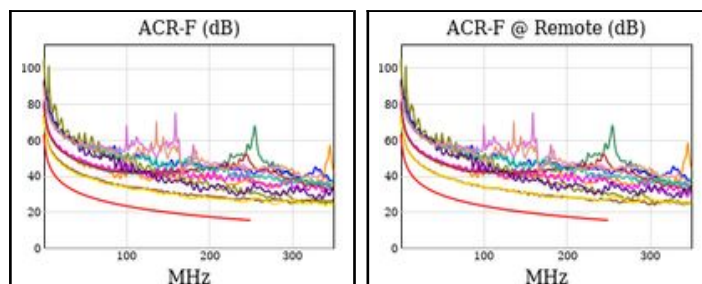
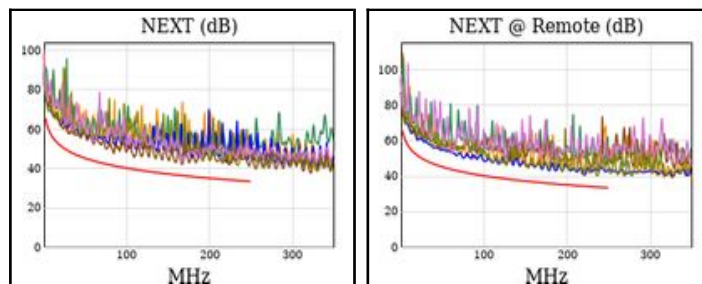
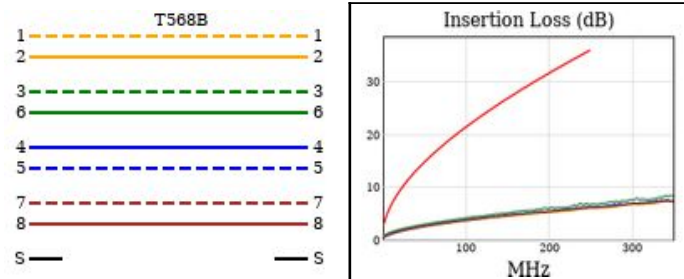
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	7,8	4,5
RL (dB)	9.5	9.0	10.2	9.8
Freq. (MHz)	51.8	51.0	247.5	239.5
Limit (dB)	14.9	14.9	8.1	8.2

Compliant Network Standards:

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



PASS





Cable ID: D4

Date / Time: 08/24/2023 07:11:50 PM Operator: MURAT
 Headroom: 4.9 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	61
Prop. Delay (ns), Limit 555	[Pair 3,6]	92
Delay Skew (ns), Limit 50	[Pair 3,6]	2
Resistance (ohms)	[Pair 3,6]	9.1
Insertion Loss Margin (dB)	[Pair 3,6]	28.3
Frequency (MHz)	[Pair 3,6]	242.0
Limit (dB)	[Pair 3,6]	35.3

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
NEXT (dB)	6.6	4.9	6.7	5.9
Freq. (MHz)	5.5	168.5	229.0	241.0
Limit (dB)	60.8	36.1	33.8	33.4
Worst Pair	3,6	7,8	3,6	7,8
PS NEXT (dB)	7.3	6.2	7.3	7.2
Freq. (MHz)	229.0	170.0	229.0	241.0
Limit (dB)	30.8	33.1	30.8	30.4

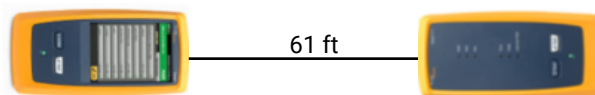
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	8.8	9.2	9.2	9.8
Freq. (MHz)	184.0	180.0	235.5	235.5
Limit (dB)	18.0	18.2	15.8	15.8
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	10.6	11.3	10.8	12.0
Freq. (MHz)	180.0	1.0	235.5	246.5
Limit (dB)	15.2	60.3	12.8	12.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	10.3	9.6	34.8	34.8
Freq. (MHz)	5.5	4.9	229.0	241.0
Limit (dB)	56.1	57.2	-0.4	-1.8
Worst Pair	7,8	7,8	3,6	3,6
PS ACR-N (dB)	11.2	10.9	34.9	35.2
Freq. (MHz)	5.0	5.0	229.0	234.0
Limit (dB)	54.5	54.5	-3.3	-3.9

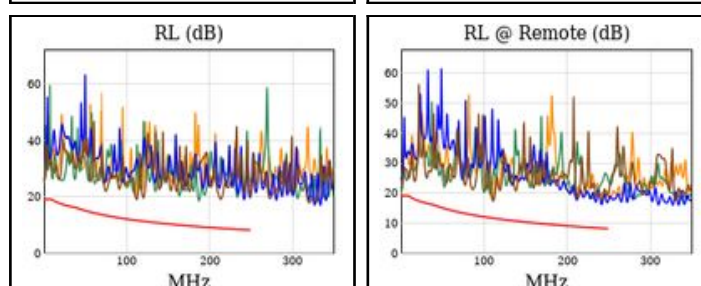
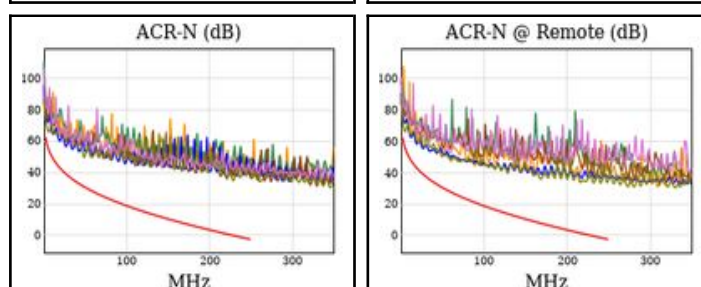
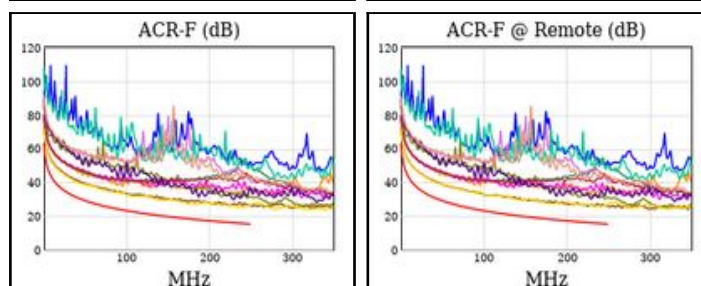
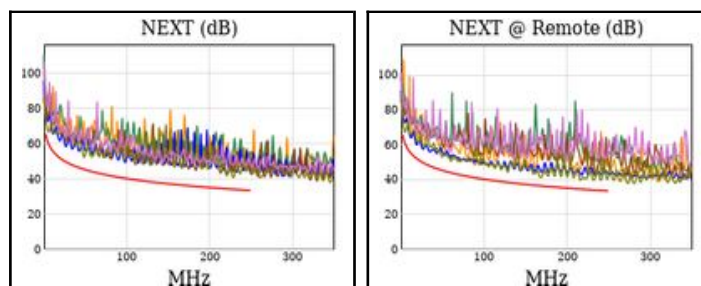
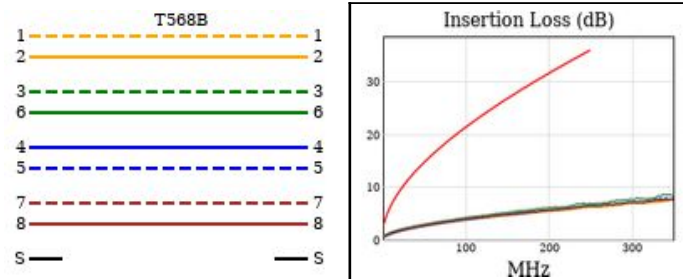
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	3,6	4,5
RL (dB)	7.4	5.7	9.1	7.8
Freq. (MHz)	113.0	112.0	188.0	242.0
Limit (dB)	11.5	11.5	9.3	8.2

Compliant Network Standards:

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



PASS





Cable ID: D5

Date / Time: 08/24/2023 07:13:23 PM Operator: MURAT
 Headroom: 5.2 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	47
Prop. Delay (ns), Limit 555	[Pair 3,6]	71
Delay Skew (ns), Limit 50	[Pair 3,6]	2
Resistance (ohms)	[Pair 7,8]	14.8
Insertion Loss Margin (dB)	[Pair 3,6]	30.4
Frequency (MHz)	[Pair 3,6]	249.5
Limit (dB)	[Pair 3,6]	35.9

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	3,6-7,8
NEXT (dB)	5.2	6.3	5.2	6.3
Freq. (MHz)	223.0	239.0	223.0	239.0
Limit (dB)	34.0	33.5	34.0	33.5
Worst Pair	3,6	7,8	3,6	7,8
PS NEXT (dB)	6.5	7.4	6.5	7.4
Freq. (MHz)	233.0	239.5	233.0	239.5
Limit (dB)	30.7	30.5	30.7	30.5

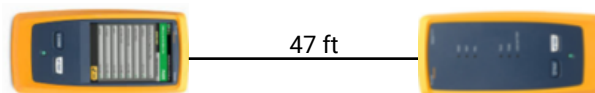
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	9.5	9.6	10.1	9.7
Freq. (MHz)	2.8	2.8	247.0	232.5
Limit (dB)	54.5	54.5	15.4	15.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	11.1	10.9	12.4	12.2
Freq. (MHz)	46.0	1.1	240.5	232.5
Limit (dB)	27.0	59.2	12.6	12.9

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)	14.8	15.8	34.1	36.0
Freq. (MHz)	7.9	3.0	223.0	239.0
Limit (dB)	52.7	61.5	0.4	-1.5
Worst Pair	3,6	7,8	3,6	7,8
PS ACR-N (dB)	15.3	16.2	35.8	37.1
Freq. (MHz)	8.4	23.1	233.0	239.5
Limit (dB)	49.5	38.2	-3.8	-4.6

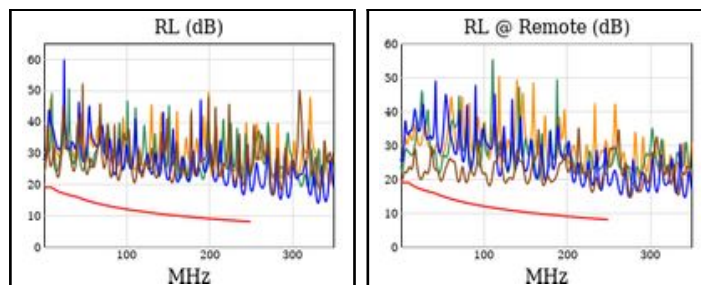
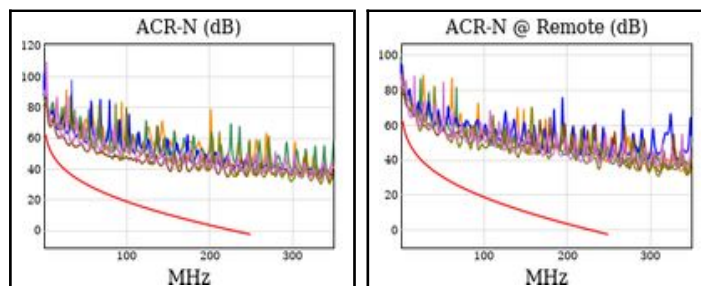
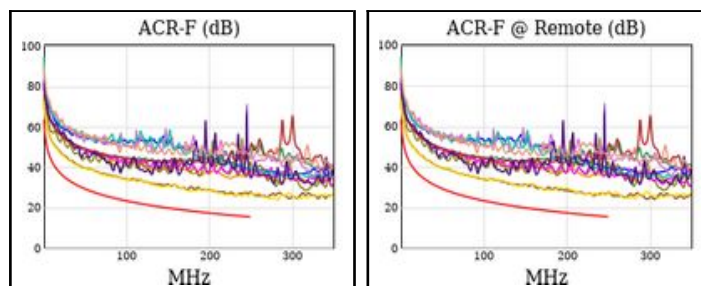
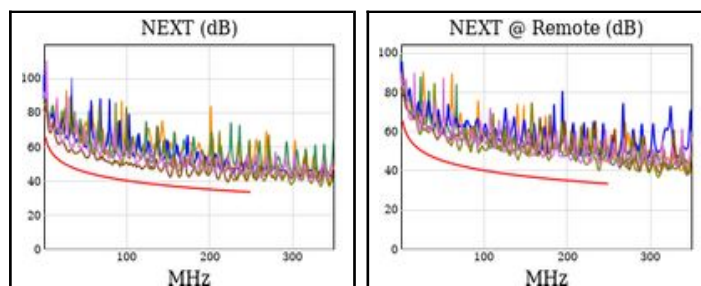
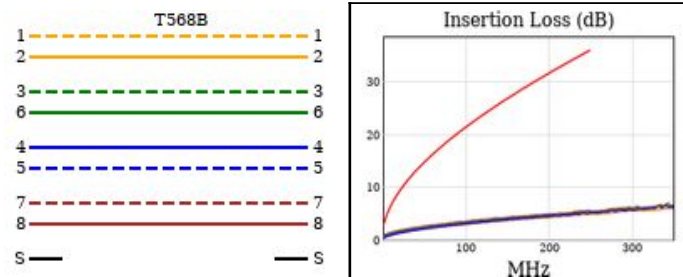
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	7,8
RL (dB)	8.4	5.8	8.4	7.7
Freq. (MHz)	241.5	71.0	241.5	231.0
Limit (dB)	8.2	13.5	8.2	8.4

Compliant Network Standards:

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



PASS





Cable ID: D6

Date / Time: 08/24/2023 07:13:42 PM Operator: MURAT
 Headroom: 6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	61
Prop. Delay (ns), Limit 555	[Pair 3,6]	92
Delay Skew (ns), Limit 50	[Pair 3,6]	2
Resistance (ohms)	[Pair 7,8]	16.4
Insertion Loss Margin (dB)	[Pair 3,6]	29.0
Frequency (MHz)	[Pair 3,6]	250.0
Limit (dB)	[Pair 3,6]	35.9

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	1,2-3,6
NEXT (dB)	6.0	7.1	6.1	7.7
Freq. (MHz)	226.5	226.5	227.0	244.0
Limit (dB)	33.9	33.9	33.8	33.3
Worst Pair	7,8	3,6	7,8	3,6
PS NEXT (dB)	7.5	7.9	7.5	8.1
Freq. (MHz)	226.0	227.5	226.0	243.5
Limit (dB)	30.9	30.9	30.9	30.4

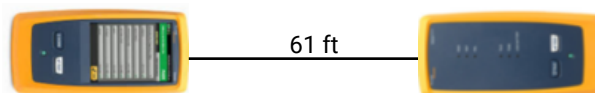
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	9.3	9.7	10.3	10.6
Freq. (MHz)	173.5	173.5	240.5	233.5
Limit (dB)	18.5	18.5	15.6	15.9
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-F (dB)	11.3	11.6	12.5	12.5
Freq. (MHz)	180.0	1.0	240.5	232.5
Limit (dB)	15.2	60.3	12.6	12.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	1,2-3,6
ACR-N (dB)	14.4	15.0	33.6	36.3
Freq. (MHz)	4.4	4.9	227.0	244.0
Limit (dB)	58.2	57.2	-0.1	-2.1
Worst Pair	3,6	3,6	7,8	3,6
PS ACR-N (dB)	15.4	15.8	34.9	36.7
Freq. (MHz)	4.5	5.5	226.0	243.5
Limit (dB)	55.4	53.6	-2.9	-5.0

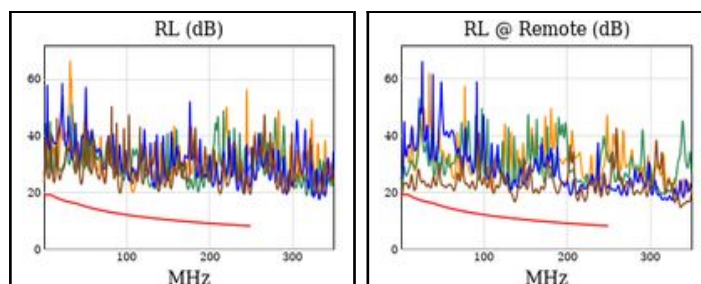
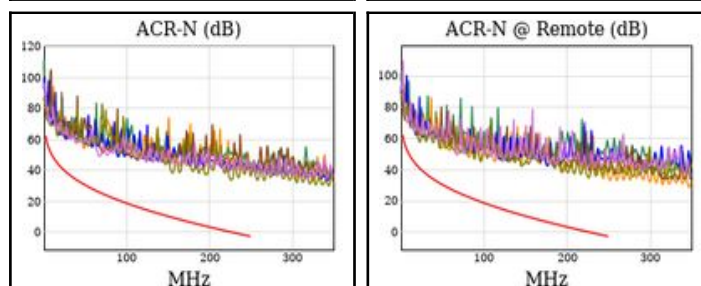
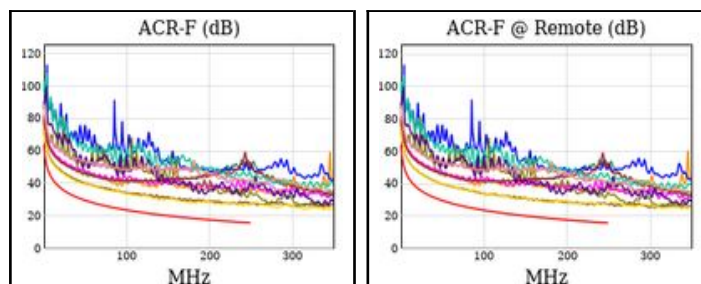
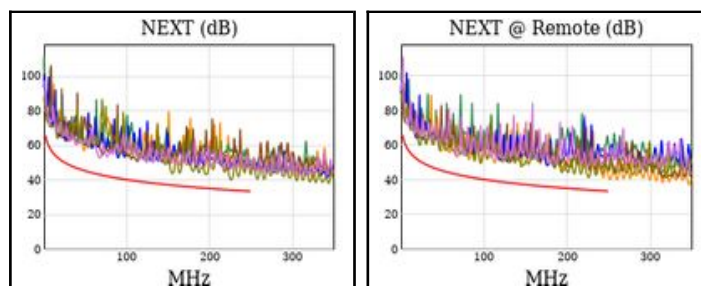
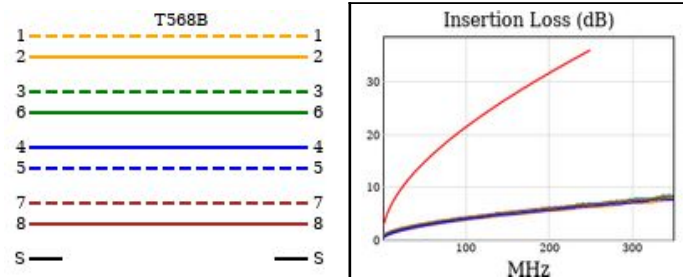
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	7,8
RL (dB)	7.3	5.9	11.2	5.9
Freq. (MHz)	92.8	138.0	249.5	138.0
Limit (dB)	12.3	10.6	8.0	10.6

Compliant Network Standards:

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



PASS





Cable ID: D7

Date / Time: 08/24/2023 07:15:06 PM Operator: MURAT
 Headroom: 6.3 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 1,2]	61
Prop. Delay (ns), Limit 555	[Pair 3,6]	92
Delay Skew (ns), Limit 50	[Pair 3,6]	2
Resistance (ohms)	[Pair 7,8]	15.9
Insertion Loss Margin (dB)	[Pair 3,6]	28.5
Frequency (MHz)	[Pair 3,6]	243.0
Limit (dB)	[Pair 3,6]	35.3

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	1,2-3,6	3,6-4,5
NEXT (dB)	6.3	6.8	7.0	7.3
Freq. (MHz)	45.8	8.1	227.0	227.5
Limit (dB)	45.7	58.0	33.8	33.8
Worst Pair	1,2	3,6	3,6	3,6
PS NEXT (dB)	7.7	6.8	7.9	6.8
Freq. (MHz)	45.8	218.5	243.5	218.5
Limit (dB)	42.9	31.2	30.4	31.2

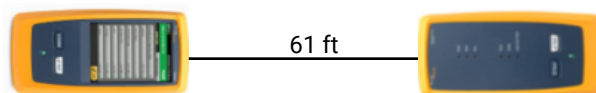
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	8.8	9.0	10.4	11.0
Freq. (MHz)	1.4	1.4	229.5	239.5
Limit (dB)	60.5	60.5	16.0	15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	10.8	10.7	12.6	13.0
Freq. (MHz)	47.8	1.1	229.5	239.5
Limit (dB)	26.7	59.2	13.0	12.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	1,2-3,6	3,6-7,8
ACR-N (dB)	11.2	11.2	34.6	37.2
Freq. (MHz)	8.1	7.9	227.0	249.5
Limit (dB)	52.3	52.7	-0.1	-2.8
Worst Pair	3,6	1,2	3,6	3,6
PS ACR-N (dB)	12.5	12.8	36.6	35.9
Freq. (MHz)	7.8	8.1	243.5	235.5
Limit (dB)	50.3	49.8	-5.0	-4.1

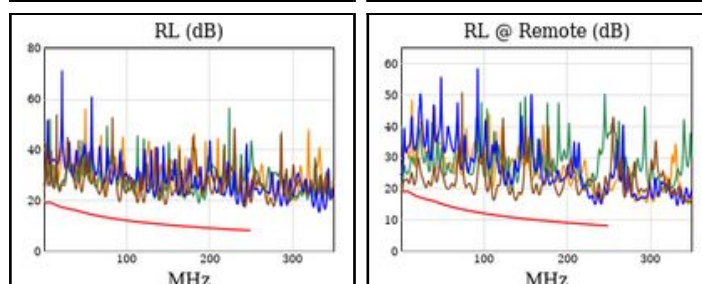
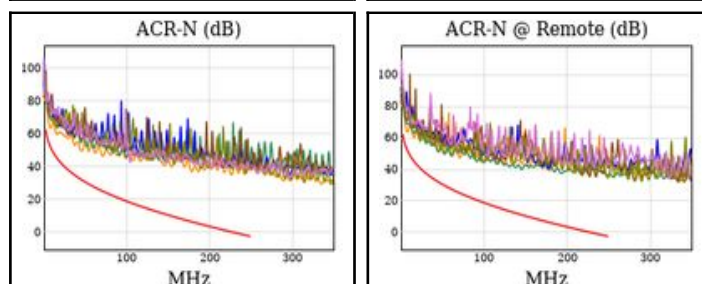
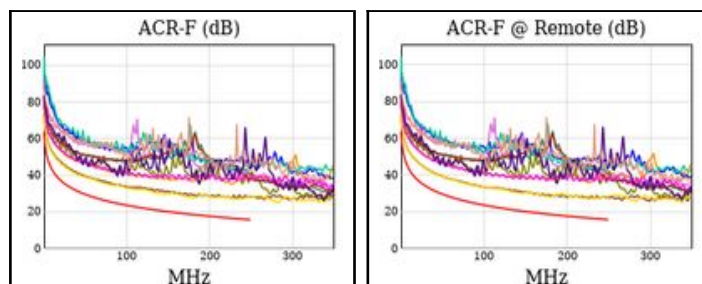
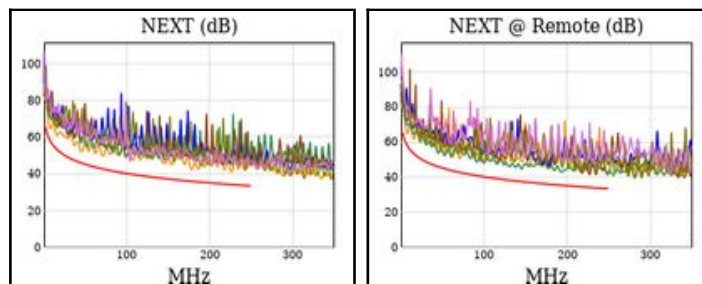
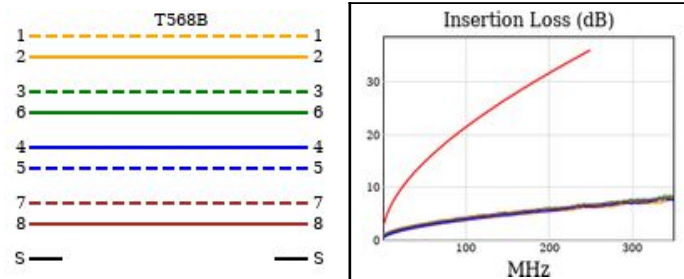
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	4,5
RL (dB)	7.1	4.7	9.1	6.6
Freq. (MHz)	92.0	112.5	243.5	234.5
Limit (dB)	12.4	11.5	8.1	8.3

Compliant Network Standards:

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



PASS





Cable ID: D8

Date / Time: 08/24/2023 07:16:46 PM Operator: MURAT
 Headroom: 5.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Model: DSX-8000
 Main S/N: 1927404
 Remote S/N: 1927408
 Main Adapter: DSX-CHA804
 Remote Adapter: DSX-CHA804

Length (ft), Limit 328	[Pair 7,8]	59
Prop. Delay (ns), Limit 555	[Pair 4,5]	89
Delay Skew (ns), Limit 50	[Pair 4,5]	2
Resistance (ohms)	[Pair 3,6]	24.1
Insertion Loss Margin (dB)	[Pair 3,6]	28.1
Frequency (MHz)	[Pair 3,6]	245.5
Limit (dB)	[Pair 3,6]	35.6

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	1,2-3,6	3,6-7,8	3,6-7,8
NEXT (dB)	5.4	5.4	5.4	6.0
Freq. (MHz)	207.0	147.0	207.0	240.0
Limit (dB)	34.5	37.1	34.5	33.4
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	6.5	6.2	7.4	6.7
Freq. (MHz)	99.0	48.3	238.5	205.0
Limit (dB)	37.2	42.5	30.5	31.7

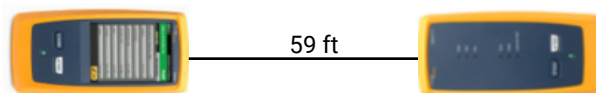
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	4.8	4.3	8.9	9.9
Freq. (MHz)	1.0	1.0	237.0	237.5
Limit (dB)	63.3	63.3	15.8	15.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	6.5	6.0	10.4	11.0
Freq. (MHz)	1.0	1.0	238.0	243.5
Limit (dB)	60.3	60.3	12.7	12.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	3,6-7,8
ACR-N (dB)	7.8	10.0	35.5	34.8
Freq. (MHz)	1.0	5.5	238.5	240.0
Limit (dB)	62.0	56.1	-1.5	-1.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	9.8	10.3	35.0	35.9
Freq. (MHz)	1.0	6.1	238.5	239.0
Limit (dB)	59.0	52.6	-4.4	-4.5

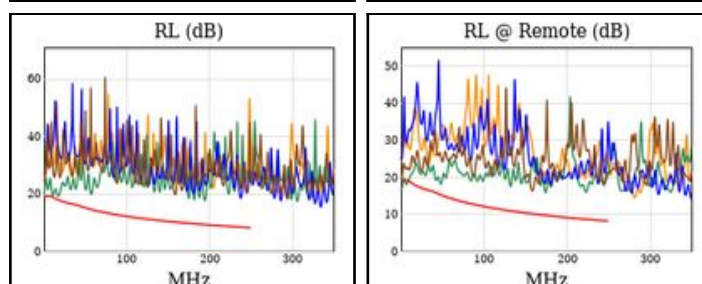
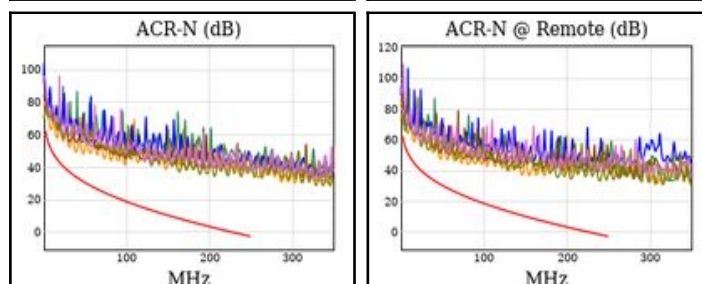
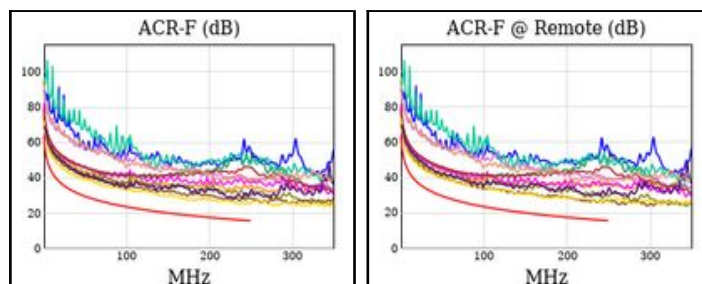
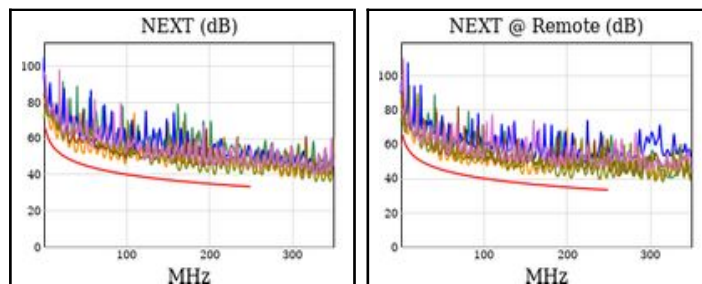
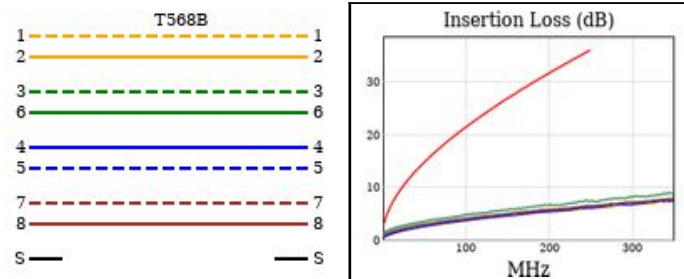
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	3,6	3,6
RL (dB)	4.9	2.9	8.3	6.1
Freq. (MHz)	33.3	49.0	195.0	175.0
Limit (dB)	16.4	15.1	9.1	9.6

Compliant Network Standards:

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



PASS





Cable ID: D9

Date / Time: 08/24/2023 07:17:34 PM Operator: MURAT
 Headroom: 5.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: ACT Enviro - Denver CO - 2023

Test Summary: PASS

Length (ft), Limit 328	[Pair 7,8]	59
Prop. Delay (ns), Limit 555	[Pair 4,5]	89
Delay Skew (ns), Limit 50	[Pair 4,5]	2
Resistance (ohms)	[Pair 3,6]	24.8
Insertion Loss Margin (dB)	[Pair 3,6]	27.5
Frequency (MHz)	[Pair 3,6]	238.0
Limit (dB)	[Pair 3,6]	34.9

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	3,6-7,8	4,5-7,8
NEXT (dB)	6.1	5.4	7.6	7.7
Freq. (MHz)	69.5	69.0	231.5	250.0
Limit (dB)	42.6	42.7	33.7	33.1
Worst Pair	7,8	7,8	7,8	7,8
PS NEXT (dB)	8.1	6.2	9.1	7.7
Freq. (MHz)	69.0	135.5	232.5	248.0
Limit (dB)	39.9	34.8	30.7	30.2

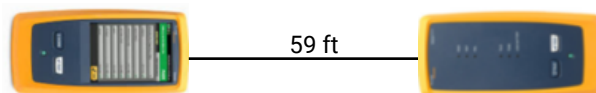
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	4,5-3,6
ACR-F (dB)	8.2	9.1	8.5	9.4
Freq. (MHz)	28.1	28.1	238.0	227.5
Limit (dB)	34.3	34.3	15.7	16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	7.5	7.3	10.7	11.6
Freq. (MHz)	1.0	1.0	238.0	227.5
Limit (dB)	60.3	60.3	12.7	13.1

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-7,8	4,5-7,8
ACR-N (dB)	11.0	10.7	35.8	37.3
Freq. (MHz)	1.1	4.9	231.5	250.0
Limit (dB)	62.0	57.2	-0.7	-2.8
Worst Pair	3,6	3,6	7,8	3,6
PS ACR-N (dB)	13.1	11.3	37.3	34.8
Freq. (MHz)	1.1	5.0	232.5	229.0
Limit (dB)	59.0	54.5	-3.7	-3.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	3,6	3,6
RL (dB)	5.4	2.1	7.1	6.4
Freq. (MHz)	33.3	43.0	195.0	224.5
Limit (dB)	16.4	15.7	9.1	8.5

Compliant Network Standards:

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



PASS

