

LinkWare Live

Official Summary

Certification Report



Exclusively For:	Prepared By:	Projects
	Systec101	SECURITAS - Denver
	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
001	PASS	TIA Cat 6A Perm. Link	71 ft	3.6 dB (NEXT)	10/23/2023 05:35:19 PM
002	PASS	TIA Cat 6 Channel	75 ft	2.4 dB (NEXT)	10/05/2023 05:29:57 PM
003	PASS	TIA Cat 6 Channel	75 ft	3.9 dB (NEXT)	10/05/2023 05:20:32 PM
004	PASS	TIA Cat 6 Channel	76 ft	3.3 dB (NEXT)	10/05/2023 05:20:57 PM
005	PASS	TIA Cat 6 Channel	115 ft	5.1 dB (NEXT)	10/05/2023 05:21:32 PM
006	PASS	TIA Cat 6 Channel	115 ft	5.0 dB (NEXT)	10/05/2023 05:21:54 PM
007	PASS	TIA Cat 6 Channel	115 ft	6.8 dB (NEXT)	10/05/2023 05:22:11 PM
008	PASS	TIA Cat 6 Channel	115 ft	4.0 dB (NEXT)	10/05/2023 05:22:28 PM
009	PASS	TIA Cat 6 Channel	116 ft	5.4 dB (NEXT)	10/05/2023 05:30:48 PM
010	PASS	TIA Cat 6 Channel	71 ft	7.4 dB (NEXT)	10/23/2023 05:34:03 PM
011	PASS	TIA Cat 6 Channel	128 ft	5.7 dB (NEXT)	10/05/2023 05:28:03 PM
012	PASS	TIA Cat 6 Channel	129 ft	5.2 dB (NEXT)	10/05/2023 05:29:13 PM

Total Length:	1201 ft
No of Reports:	12
No of Passing Reports:	12
No of Failing Reports:	0
No of Warning Reports:	0
Documentation only:	0



Cable ID: 001

Date / Time: 10/23/2023 05:35:19 PM Operator: MURAT
 Headroom: 3.6 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6A Perm. Link Calibration Date:
 Cable Type: Cat 6A U/UTP Main (Module): 10/31/2022
 NVP: 68.2% Remote (Module): 10/31/2022
 Project: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 295	[Pair 3,6]	71
Prop. Delay (ns), Limit 498	[Pair 7,8]	112
Delay Skew (ns), Limit 44	[Pair 7,8]	7
Resistance (ohms)	[Pair 3,6]	3.9
Insertion Loss Margin (dB)	[Pair 3,6]	32.0
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-7,8	3,6-4,5
NEXT (dB)	7.2	3.6	9.6	7.4
Freq. (MHz)	262.0	160.0	491.0	487.0
Limit (dB)	35.0	38.5	26.9	27.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.3	5.9	11.2	6.9
Freq. (MHz)	259.0	234.0	491.0	487.0
Limit (dB)	32.4	33.2	24.0	24.2

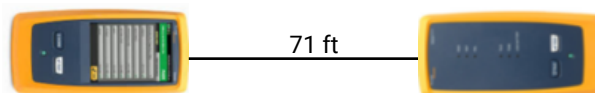
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	10.9	10.0	11.1	10.0
Freq. (MHz)	480.0	493.0	498.0	493.0
Limit (dB)	10.6	10.3	10.2	10.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	12.6	12.3	12.6	12.4
Freq. (MHz)	493.0	493.0	493.0	498.0
Limit (dB)	7.3	7.3	7.3	7.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-7,8	3,6-4,5
ACR-N (dB)	13.5	12.9	42.2	39.7
Freq. (MHz)	7.1	12.4	491.0	487.0
Limit (dB)	55.5	50.2	-16.4	-16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	13.8	12.4	43.0	38.5
Freq. (MHz)	7.1	7.5	491.0	487.0
Limit (dB)	53.2	52.7	-19.3	-18.9

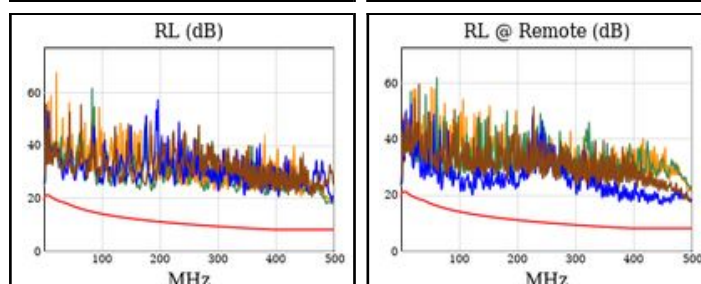
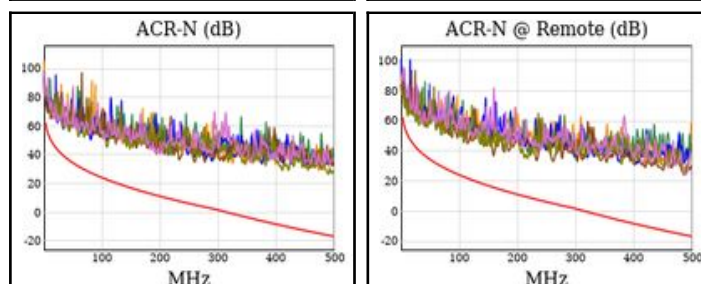
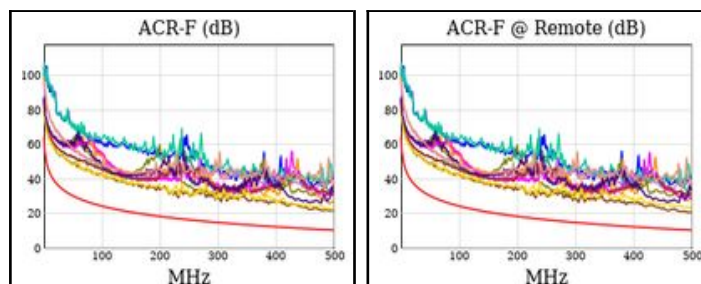
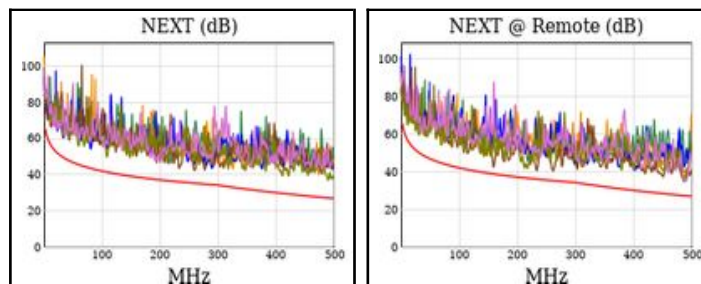
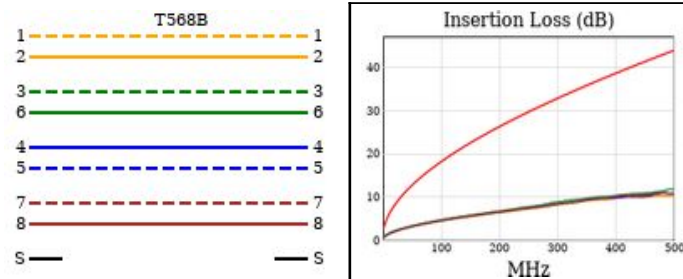
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	3,6	4,5
RL (dB)	9.7	6.4	9.7	8.4
Freq. (MHz)	488.0	71.0	488.0	450.0
Limit (dB)	8.0	15.5	8.0	8.0

Compliant Network Standards:

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



PASS





Cable ID: 002

Date / Time: 10/05/2023 05:29:57 PM Operator: MURAT
 Headroom: 2.4 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: SECURITAS - Denver

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 3,6]	75
Prop. Delay (ns), Limit 555	[Pair 1,2]	116
Delay Skew (ns), Limit 50	[Pair 1,2]	6
Resistance (ohms)	[Pair 3,6]	5.2
Insertion Loss Margin (dB)	[Pair 3,6]	28.0
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	3,6-4,5	1,2-4,5	3,6-7,8	3,6-7,8
NEXT (dB)	2.4	4.4	9.6	7.1
Freq. (MHz)	4.3	7.9	250.0	249.5
Limit (dB)	62.6	58.3	33.1	33.1
Worst Pair	3,6	4,5	7,8	7,8
PS NEXT (dB)	4.0	5.6	10.4	8.3
Freq. (MHz)	3.9	8.9	250.0	250.0
Limit (dB)	60.8	54.9	30.2	30.2

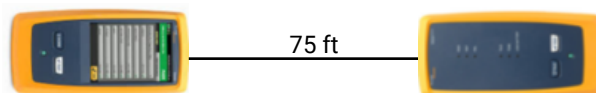
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-1,2	1,2-3,6	3,6-1,2
ACR-F (dB)	14.3	15.0	14.7	15.3
Freq. (MHz)	172.0	172.0	200.5	200.5
Limit (dB)	18.5	18.5	17.2	17.2
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.5	16.6	14.5	16.7
Freq. (MHz)	171.5	167.5	171.5	195.5
Limit (dB)	15.6	15.8	15.6	14.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-4,5	3,6-7,8	3,6-7,8
ACR-N (dB)	5.5	8.8	37.6	35.1
Freq. (MHz)	3.5	7.9	250.0	249.5
Limit (dB)	60.2	52.7	-2.8	-2.8
Worst Pair	3,6	4,5	7,8	7,8
PS ACR-N (dB)	6.9	9.1	38.5	36.4
Freq. (MHz)	3.5	3.5	250.0	250.0
Limit (dB)	57.7	57.7	-5.8	-5.8

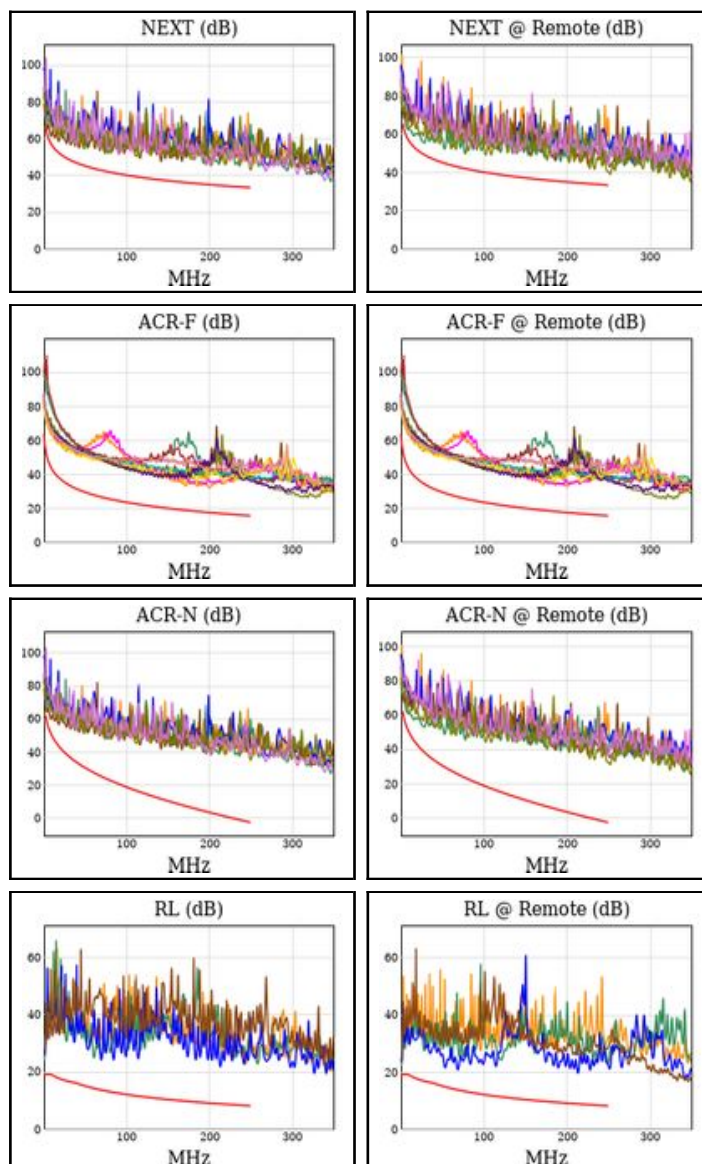
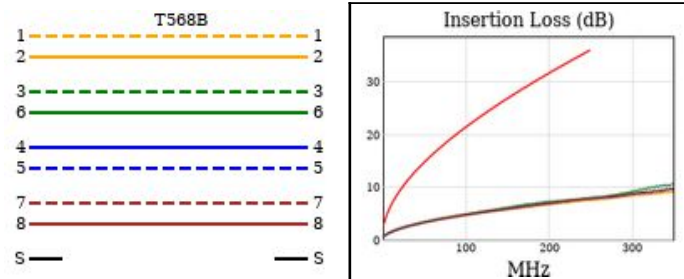
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	10.6	6.7	12.9	10.7
Freq. (MHz)	70.3	54.3	213.5	213.5
Limit (dB)	13.5	14.7	8.7	8.7

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: 003

Date / Time: 10/05/2023 05:20:32 PM Operator: MURAT
 Headroom: 3.9 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	75
Prop. Delay (ns), Limit 555	[Pair 7,8]	117
Delay Skew (ns), Limit 50	[Pair 7,8]	7
Resistance (ohms)	[Pair 3,6]	7.8
Insertion Loss Margin (dB)	[Pair 3,6]	27.9
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	3,6-4,5	1,2-4,5	3,6-4,5	1,2-4,5
NEXT (dB)	3.9	5.4	9.1	10.3
Freq. (MHz)	3.6	13.6	221.0	242.0
Limit (dB)	63.7	54.4	34.0	33.4
Worst Pair	3,6	4,5	3,6	1,2
PS NEXT (dB)	4.4	6.2	11.4	10.5
Freq. (MHz)	3.6	4.6	221.0	232.0
Limit (dB)	61.2	59.5	31.1	30.7

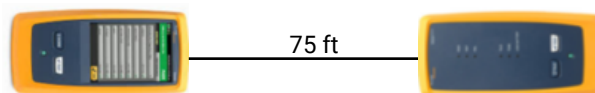
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	4,5-3,6	7,8-3,6
ACR-F (dB)	14.5	14.3	16.1	15.2
Freq. (MHz)	2.8	2.8	212.5	199.5
Limit (dB)	54.5	54.5	16.7	17.3
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	13.9	14.3	15.7	15.5
Freq. (MHz)	1.0	3.1	212.5	194.5
Limit (dB)	60.3	50.4	13.7	14.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-4,5	3,6-4,5	1,2-4,5
ACR-N (dB)	6.9	9.5	35.1	37.9
Freq. (MHz)	3.6	5.1	221.0	242.0
Limit (dB)	59.9	56.8	0.6	-1.9
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-N (dB)	7.2	9.6	37.2	38.6
Freq. (MHz)	3.6	4.6	221.0	242.0
Limit (dB)	57.4	55.2	-2.3	-4.9

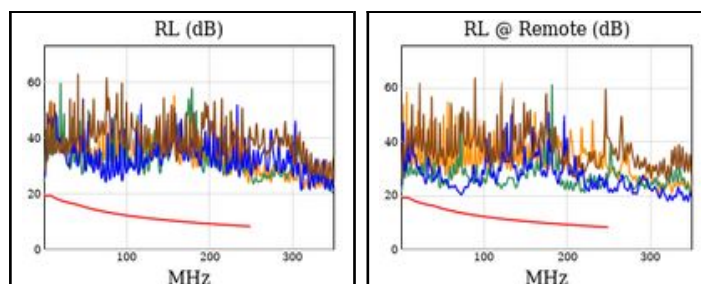
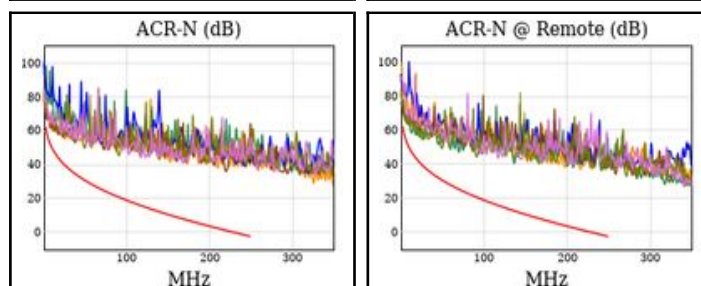
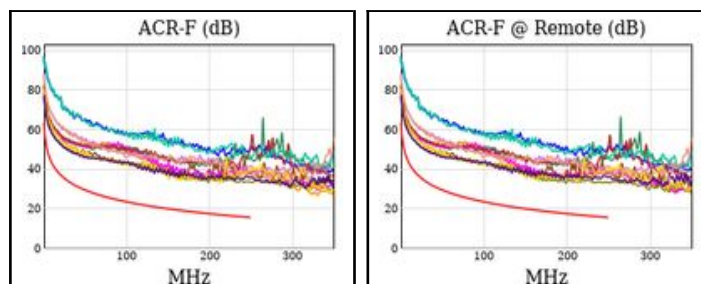
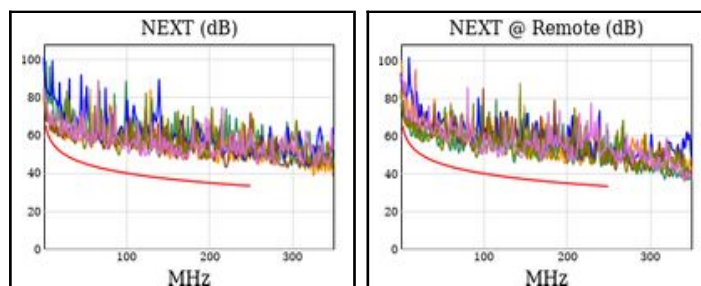
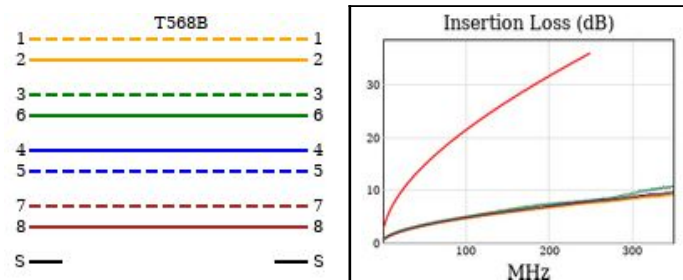
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	1,2	4,5
RL (dB)	10.7	6.7	15.5	6.8
Freq. (MHz)	75.5	73.3	247.5	73.5
Limit (dB)	13.2	13.4	8.1	13.3

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



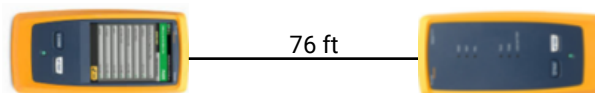


Cable ID: 004

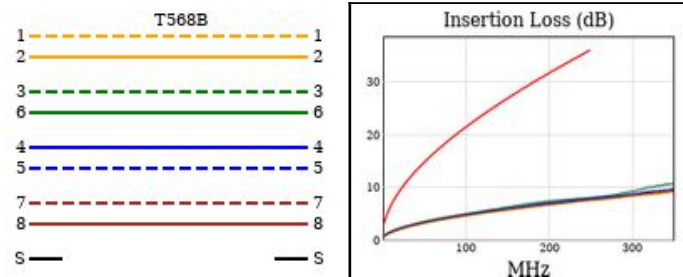
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 Headroom: 3.3 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 1,2]	76
Prop. Delay (ns), Limit 555	[Pair 3,6]	117
Delay Skew (ns), Limit 50	[Pair 3,6]	5
Resistance (ohms)	[Pair 3,6]	7.7
Insertion Loss Margin (dB)	[Pair 3,6]	27.9
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	3,6-4,5	3,6-4,5
NEXT (dB)	4.4	3.3	10.5	7.9
Freq. (MHz)	8.0	14.6	221.5	214.5
Limit (dB)	58.2	53.9	34.0	34.3
Worst Pair	3,6	7,8	3,6	3,6
PS NEXT (dB)	5.0	5.3	12.5	10.4
Freq. (MHz)	8.3	14.4	250.0	215.0
Limit (dB)	55.4	51.4	30.2	31.3

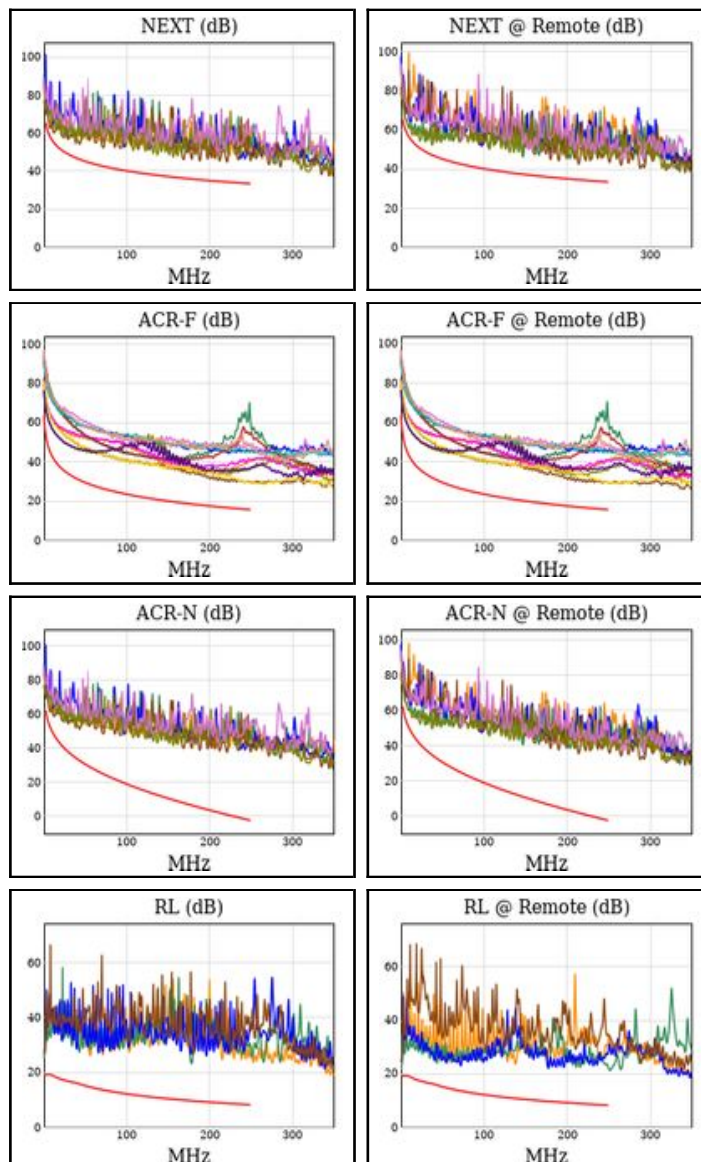
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	13.2	12.9	13.8	13.5
Freq. (MHz)	224.0	224.0	250.0	243.0
Limit (dB)	16.3	16.3	15.3	15.5
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	13.6	13.6	15.7	14.2
Freq. (MHz)	1.4	211.0	249.5	224.5
Limit (dB)	57.5	13.8	12.3	13.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-7,8	3,6-4,5	3,6-4,5
ACR-N (dB)	8.6	9.0	36.6	33.6
Freq. (MHz)	3.0	5.8	221.5	214.5
Limit (dB)	61.5	55.7	0.6	1.4
Worst Pair	3,6	7,8	3,6	3,6
PS ACR-N (dB)	8.8	10.3	40.5	35.7
Freq. (MHz)	3.3	6.1	250.0	215.0
Limit (dB)	58.4	52.6	-5.8	-1.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	3,6	3,6
RL (dB)	11.4	8.3	13.4	12.3
Freq. (MHz)	56.8	44.5	179.0	177.5
Limit (dB)	14.5	15.5	9.5	9.5

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		





Cable ID: 005

Date / Time: 10/05/2023 05:21:32 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	115
Prop. Delay (ns), Limit 555	[Pair 7,8]	181
Delay Skew (ns), Limit 50	[Pair 7,8]	11
Resistance (ohms)	[Pair 3,6]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
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	3,6-4,5	1,2-4,5	1,2-3,6	3,6-4,5
NEXT (dB)	5.1	6.1	10.3	6.7
Freq. (MHz)	5.8	31.0	244.5	232.5
Limit (dB)	60.5	48.5	33.3	33.7
Worst Pair	3,6	4,5	1,2	4,5
PS NEXT (dB)	6.3	6.4	10.2	9.2
Freq. (MHz)	5.5	5.0	245.0	232.5
Limit (dB)	58.3	59.0	30.3	30.7

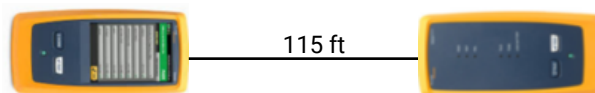
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-1,2	1,2-3,6	3,6-1,2
ACR-F (dB)	14.6	15.2	14.6	15.3
Freq. (MHz)	213.0	204.0	213.0	213.0
Limit (dB)	16.7	17.1	16.7	16.7
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.0	16.1	15.0	16.4
Freq. (MHz)	212.5	201.0	212.5	216.0
Limit (dB)	13.7	14.2	13.7	13.6

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-4,5	1,2-3,6	3,6-4,5
ACR-N (dB)	7.5	8.9	33.8	29.5
Freq. (MHz)	2.6	4.3	244.5	232.5
Limit (dB)	61.7	58.5	-2.2	-0.8
Worst Pair	3,6	4,5	1,2	4,5
PS ACR-N (dB)	9.3	9.4	34.2	31.9
Freq. (MHz)	5.3	5.0	245.0	232.5
Limit (dB)	54.0	54.5	-5.2	-3.7

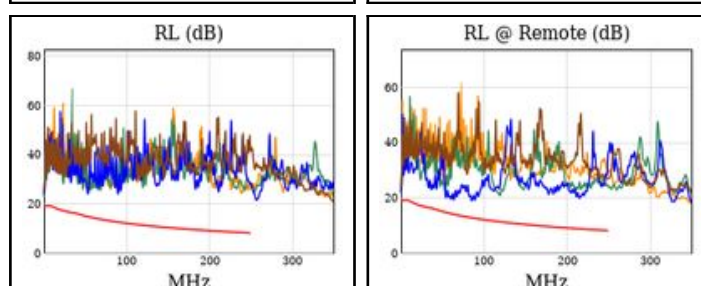
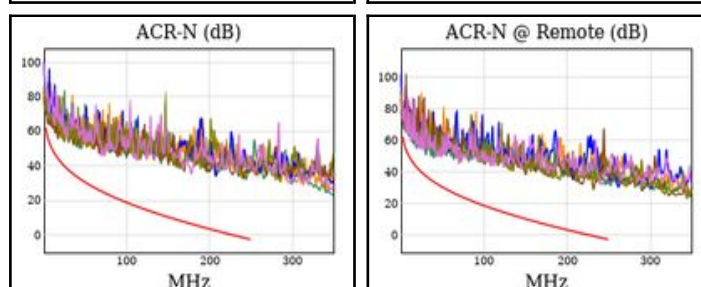
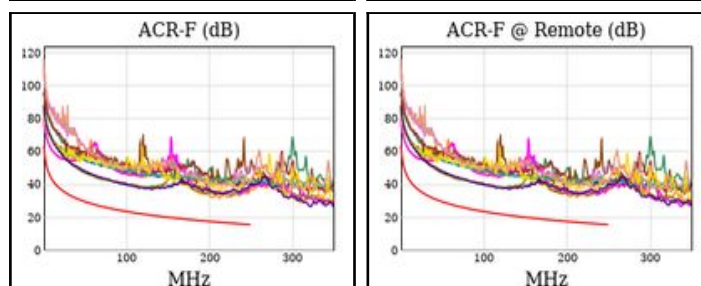
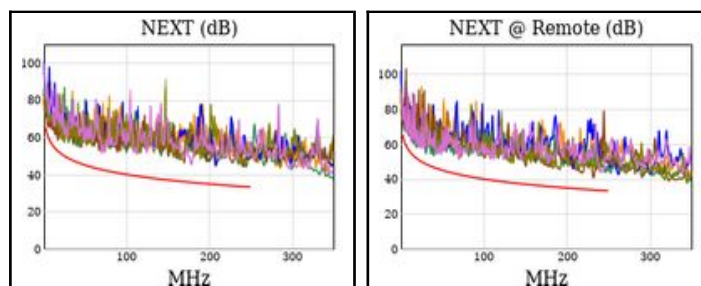
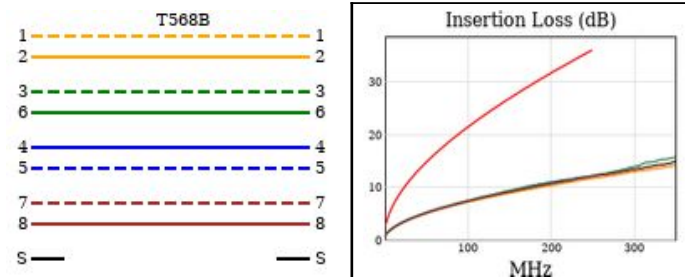
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	9.2	5.3	11.4	6.1
Freq. (MHz)	54.0	64.8	90.3	86.0
Limit (dB)	14.7	13.9	12.4	12.7

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: 006

Date / Time: 10/05/2023 05:21:54 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	115
Prop. Delay (ns), Limit 555	[Pair 7,8]	180
Delay Skew (ns), Limit 50	[Pair 7,8]	11
Resistance (ohms)	[Pair 3,6]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
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	1,2-3,6	3,6-7,8	1,2-4,5	3,6-4,5
NEXT (dB)	5.0	9.1	11.4	9.8
Freq. (MHz)	8.4	85.3	228.5	233.5
Limit (dB)	57.8	41.1	33.8	33.6
Worst Pair	3,6	4,5	1,2	3,6
PS NEXT (dB)	5.0	8.6	12.1	11.1
Freq. (MHz)	8.4	7.9	228.0	233.0
Limit (dB)	55.3	55.7	30.9	30.7

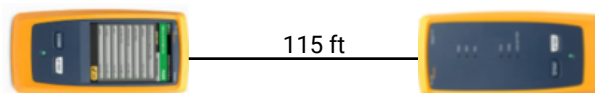
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	1,2-3,6	7,8-3,6
ACR-F (dB)	15.2	15.5	15.8	17.1
Freq. (MHz)	144.5	144.5	206.0	236.0
Limit (dB)	20.1	20.1	17.0	15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.7	15.7	15.8	17.4
Freq. (MHz)	2.0	2.4	226.5	234.5
Limit (dB)	54.2	52.7	13.2	12.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-4,5	1,2-4,5	3,6-4,5
ACR-N (dB)	8.8	12.2	34.3	32.7
Freq. (MHz)	8.4	2.8	229.0	233.5
Limit (dB)	52.0	61.6	-0.4	-0.9
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	8.8	11.7	37.1	34.0
Freq. (MHz)	8.4	3.3	244.0	233.0
Limit (dB)	49.5	58.4	-5.1	-3.8

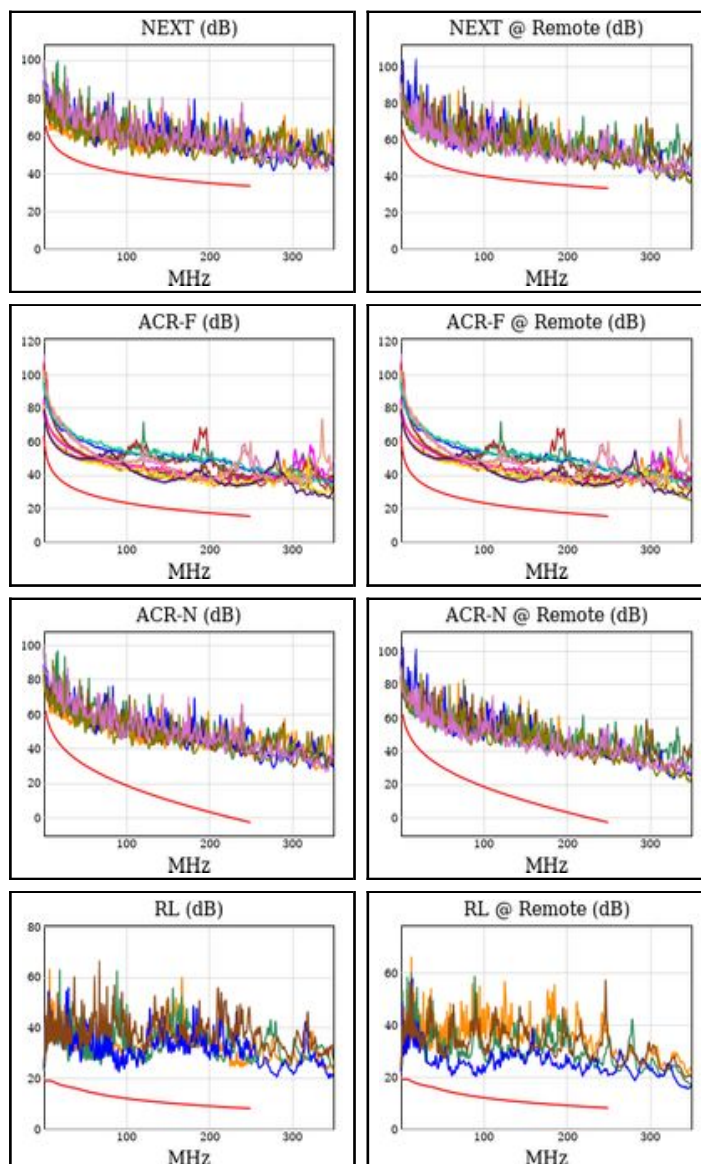
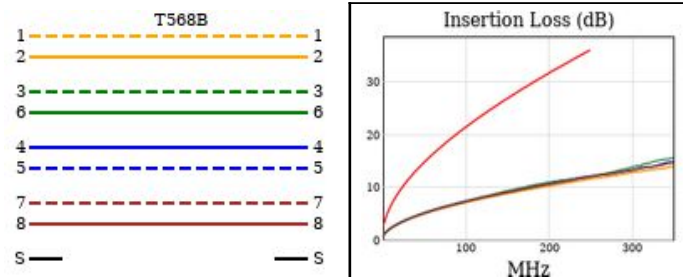
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	10.1	6.3	10.1	7.8
Freq. (MHz)	91.5	62.3	91.5	91.3
Limit (dB)	12.4	14.1	12.4	12.4

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: 007

Date / Time: 10/05/2023 05:22:11 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	115
Prop. Delay (ns), Limit 555	[Pair 7,8]	181
Delay Skew (ns), Limit 50	[Pair 7,8]	11
Resistance (ohms)	[Pair 3,6]	6.0
Insertion Loss Margin (dB)	[Pair 3,6]	23.8
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	3,6-4,5	1,2-4,5	1,2-3,6	3,6-4,5
NEXT (dB)	6.8	7.2	10.6	7.5
Freq. (MHz)	5.1	7.0	219.5	227.0
Limit (dB)	61.3	59.1	34.1	33.8
Worst Pair	3,6	4,5	3,6	4,5
PS NEXT (dB)	7.3	7.8	13.0	9.6
Freq. (MHz)	5.1	5.8	246.5	227.0
Limit (dB)	58.8	58.0	30.3	30.9

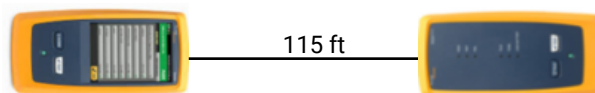
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	7,8-3,6	1,2-3,6	7,8-3,6
ACR-F (dB)	14.6	14.2	15.5	14.8
Freq. (MHz)	180.0	180.0	206.5	192.0
Limit (dB)	18.2	18.2	17.0	17.6
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.9	15.0	16.0	15.6
Freq. (MHz)	1.4	180.0	216.0	201.0
Limit (dB)	57.5	15.2	13.6	14.2

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	1,2-4,5	1,2-3,6	3,6-4,5
ACR-N (dB)	9.8	10.4	35.7	30.0
Freq. (MHz)	5.1	3.0	247.0	227.0
Limit (dB)	56.8	61.5	-2.5	-0.1
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-N (dB)	10.4	10.8	36.7	32.2
Freq. (MHz)	5.1	5.4	246.5	227.0
Limit (dB)	54.2	53.8	-5.4	-3.1

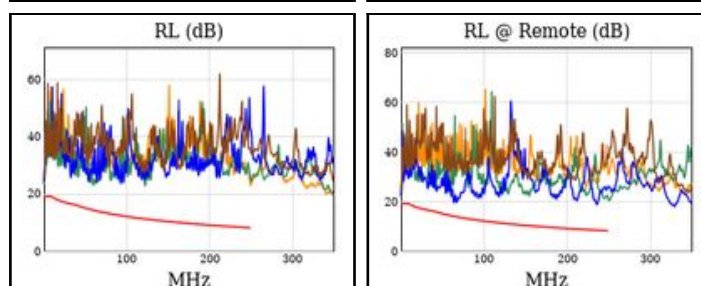
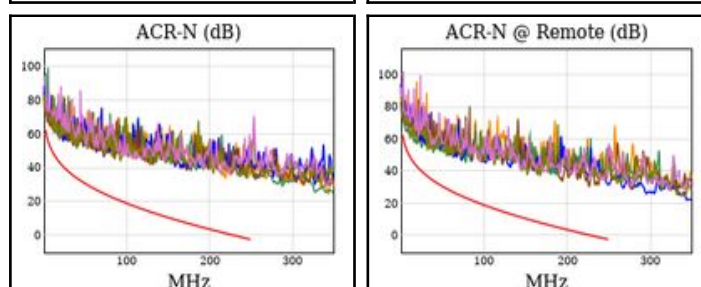
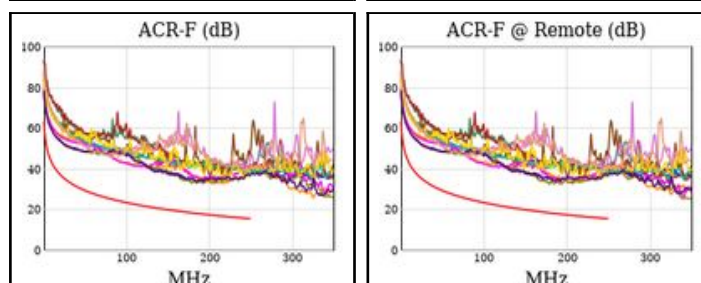
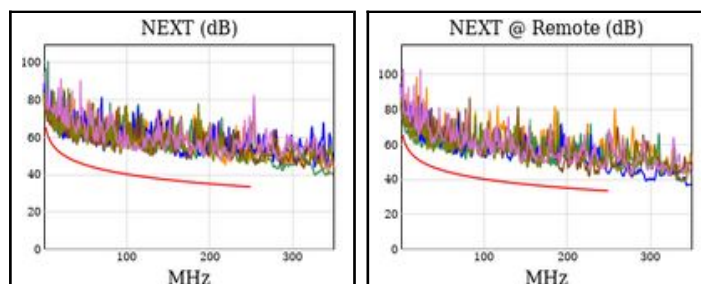
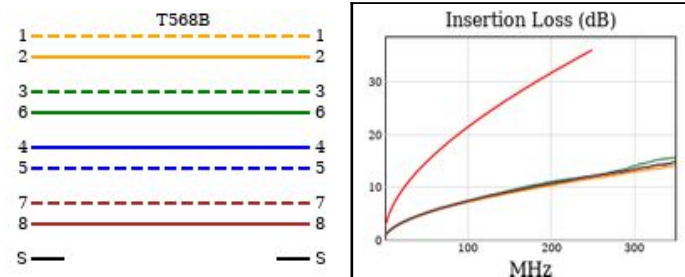
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	3,6	4,5
RL (dB)	8.6	5.4	11.4	10.3
Freq. (MHz)	60.5	64.8	123.0	236.5
Limit (dB)	14.2	13.9	11.1	8.3

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





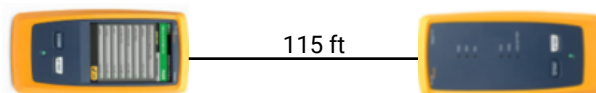
Cable ID: 008

Date / Time: 10/05/2023 05:22:28 PM Operator: MURAT
 Headroom: 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: SECURITAS - Denver

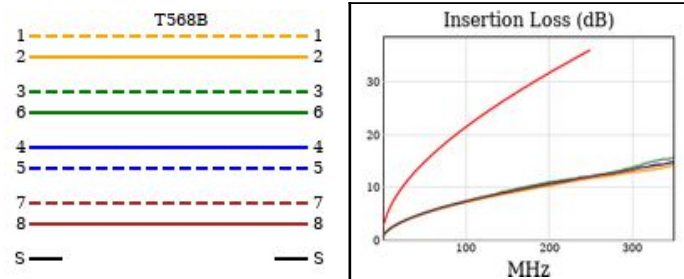
Test Summary: PASS

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

Length (ft), Limit 328	[Pair 3,6]	115
Prop. Delay (ns), Limit 555	[Pair 7,8]	180
Delay Skew (ns), Limit 50	[Pair 7,8]	11
Resistance (ohms)	[Pair 3,6]	5.9
Insertion Loss Margin (dB)	[Pair 3,6]	23.9
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	4,5-7,8	1,2-7,8	3,6-4,5
NEXT (dB)	4.0	5.5	9.6	6.7
Freq. (MHz)	3.0	9.0	241.0	242.0
Limit (dB)	65.0	57.3	33.4	33.4
Worst Pair	3,6	4,5	1,2	3,6
PS NEXT (dB)	4.8	5.3	10.7	7.6
Freq. (MHz)	5.0	5.5	241.0	238.5
Limit (dB)	59.0	58.3	30.4	30.5

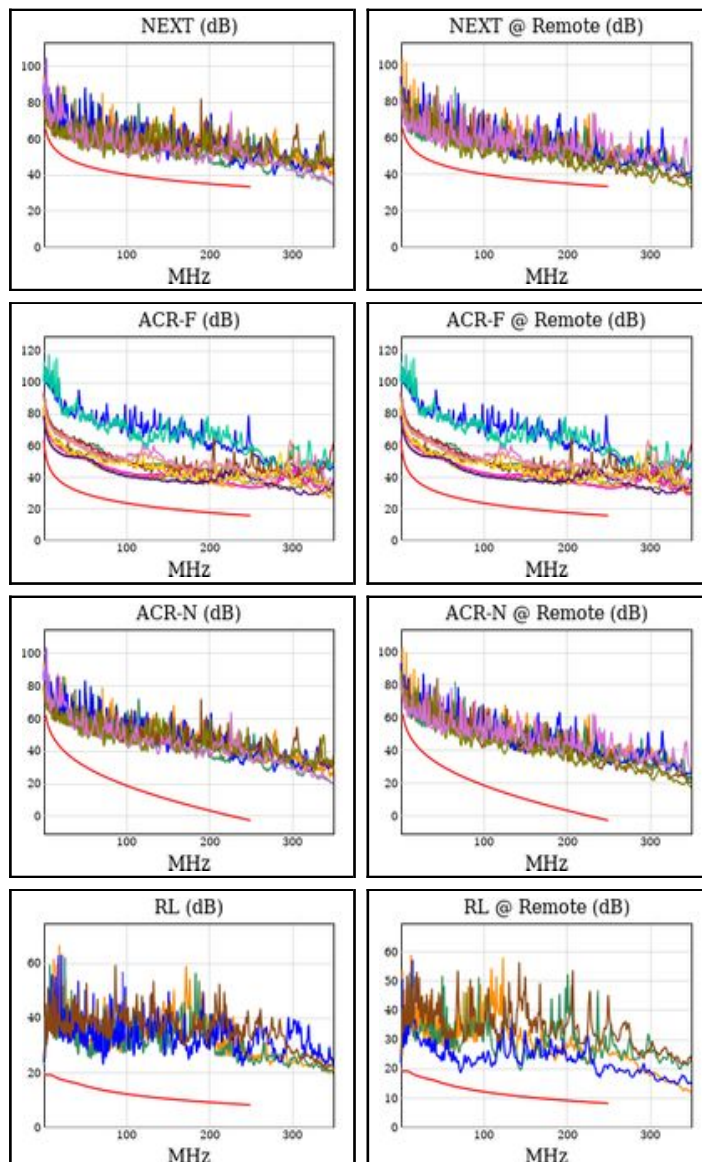
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	3,6-7,8	3,6-1,2	1,2-3,6
ACR-F (dB)	16.0	16.0	17.4	17.0
Freq. (MHz)	5.3	5.0	247.5	247.5
Limit (dB)	48.9	49.3	15.4	15.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.7	15.5	17.3	18.2
Freq. (MHz)	2.3	2.1	216.5	247.0
Limit (dB)	53.2	53.7	13.5	12.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-7,8	3,6-4,5
ACR-N (dB)	6.3	8.4	33.1	30.2
Freq. (MHz)	3.0	3.0	241.0	242.0
Limit (dB)	61.5	61.5	-1.8	-1.9
Worst Pair	3,6	4,5	1,2	3,6
PS ACR-N (dB)	7.8	8.3	34.4	30.7
Freq. (MHz)	5.0	5.4	241.0	238.5
Limit (dB)	54.5	53.8	-4.7	-4.4

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	9.5	5.2	14.0	8.7
Freq. (MHz)	72.3	72.8	240.5	240.0
Limit (dB)	13.4	13.4	8.2	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		



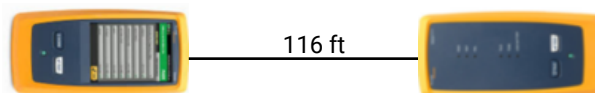


Cable ID: 009

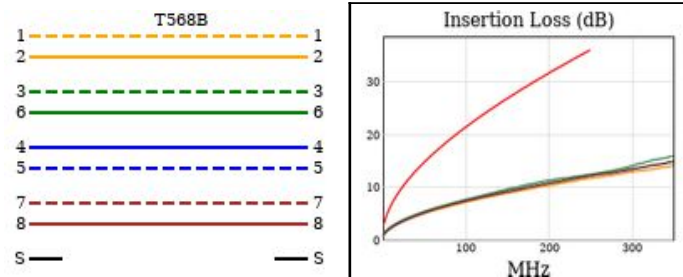
Date / Time: 10/05/2023 05:30:48 PM Operator: MURAT
 Headroom: 5.4 dB (NEXT) Software Version: V6.7 Build 1
 Test Limit: TIA Cat 6 Channel Calibration Date:
 Cable Type: Cat 6 U/UTP Main (Module): 10/31/2022
 NVP: 69.0% Remote (Module): 10/31/2022
 Project: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	116
Prop. Delay (ns), Limit 555	[Pair 7,8]	182
Delay Skew (ns), Limit 50	[Pair 7,8]	11
Resistance (ohms)	[Pair 3,6]	6.8
Insertion Loss Margin (dB)	[Pair 3,6]	23.5
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	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	5.4	6.7	10.4	6.7
Freq. (MHz)	5.4	212.5	243.5	212.5
Limit (dB)	61.0	34.3	33.3	34.3
Worst Pair	3,6	4,5	4,5	4,5
PS NEXT (dB)	6.8	7.5	11.4	8.9
Freq. (MHz)	5.5	5.5	222.0	212.5
Limit (dB)	58.3	58.3	31.1	31.4

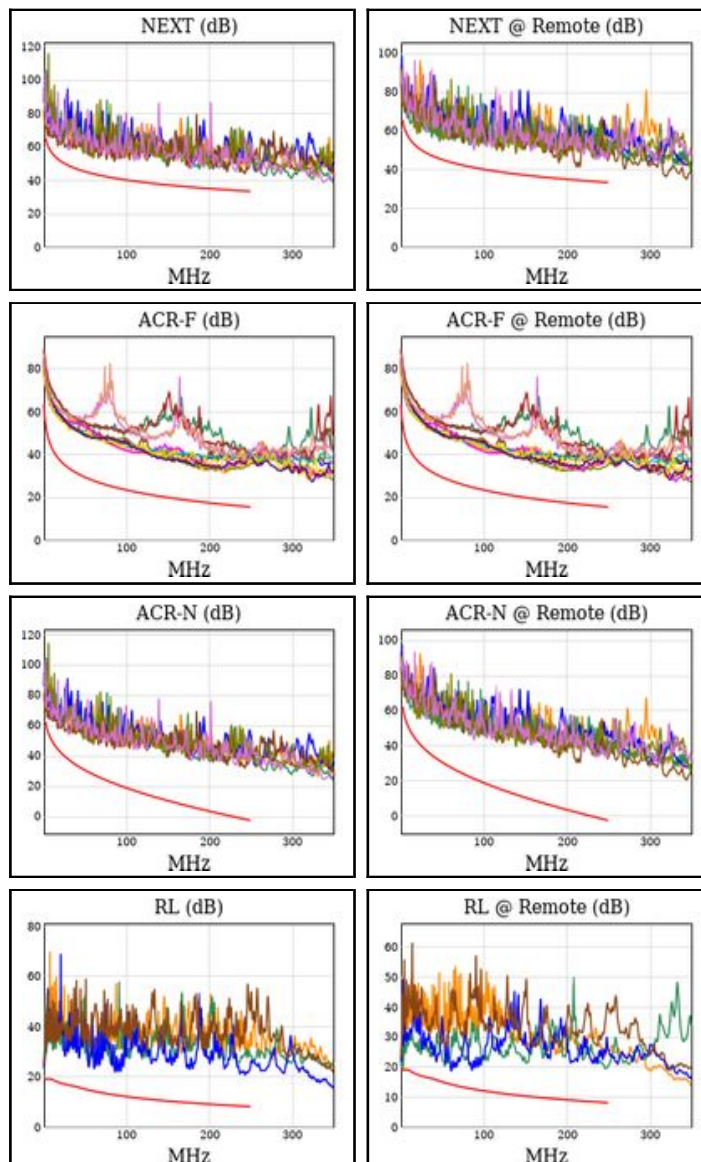
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	7,8-3,6	1,2-3,6	7,8-3,6
ACR-F (dB)	14.8	14.5	15.0	15.4
Freq. (MHz)	192.0	194.0	220.0	220.0
Limit (dB)	17.6	17.5	16.4	16.4
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	14.2	14.0	14.5	15.4
Freq. (MHz)	192.0	188.0	214.0	220.0
Limit (dB)	14.6	14.8	13.6	13.4

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)	7.9	10.0	33.8	28.2
Freq. (MHz)	3.0	2.8	243.5	212.5
Limit (dB)	61.5	61.6	-2.1	1.7
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	9.4	10.6	35.7	30.3
Freq. (MHz)	3.0	5.5	244.0	212.5
Limit (dB)	58.5	53.6	-5.1	-1.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	8.9	4.5	12.4	4.5
Freq. (MHz)	61.5	61.3	243.5	61.3
Limit (dB)	14.1	14.1	8.1	14.1

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: 010

Date / Time: 10/23/2023 05:34:03 PM Operator: MURAT
 Headroom: 7.4 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	71
Prop. Delay (ns), Limit 555	[Pair 7,8]	112
Delay Skew (ns), Limit 50	[Pair 7,8]	7
Resistance (ohms)	[Pair 3,6]	3.9
Insertion Loss Margin (dB)	[Pair 3,6]	28.2
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	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	8.9	7.4	8.9	8.6
Freq. (MHz)	234.0	160.0	234.0	233.5
Limit (dB)	33.6	36.4	33.6	33.6
Worst Pair	3,6	4,5	3,6	3,6
PS NEXT (dB)	10.9	10.0	10.9	10.1
Freq. (MHz)	233.5	160.0	233.5	234.0
Limit (dB)	30.7	33.5	30.7	30.7

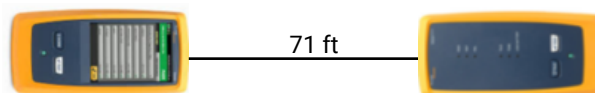
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	13.4	13.2	13.4	13.2
Freq. (MHz)	232.5	232.5	232.5	232.5
Limit (dB)	15.9	15.9	15.9	15.9
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.2	15.5	16.2	15.5
Freq. (MHz)	232.5	232.5	232.5	232.5
Limit (dB)	12.9	12.9	12.9	12.9

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)	17.3	18.0	36.3	35.9
Freq. (MHz)	4.5	3.1	234.0	233.5
Limit (dB)	58.0	61.2	-1.0	-0.9
Worst Pair	3,6	4,5	3,6	3,6
PS ACR-N (dB)	17.8	18.7	38.1	37.4
Freq. (MHz)	6.6	3.1	233.5	234.0
Limit (dB)	51.8	58.4	-3.8	-3.9

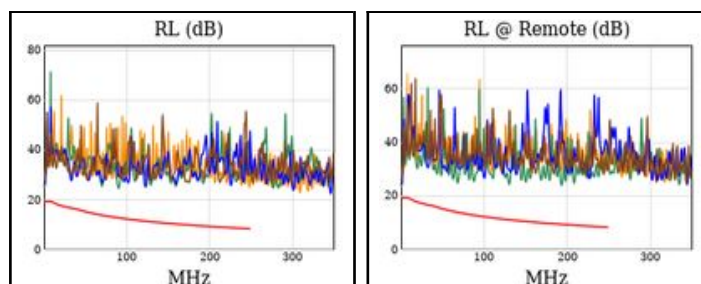
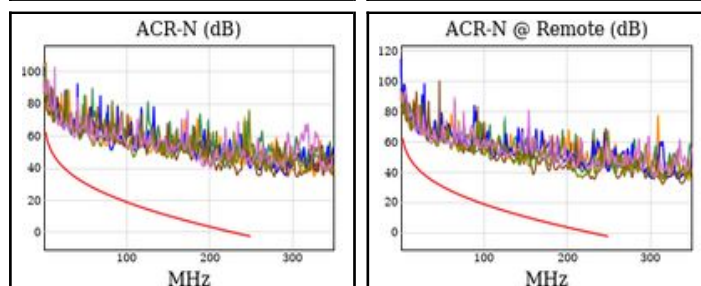
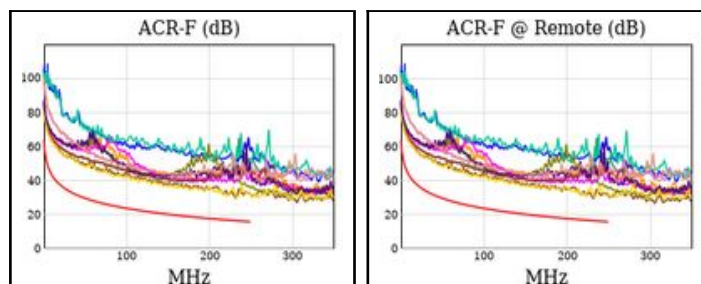
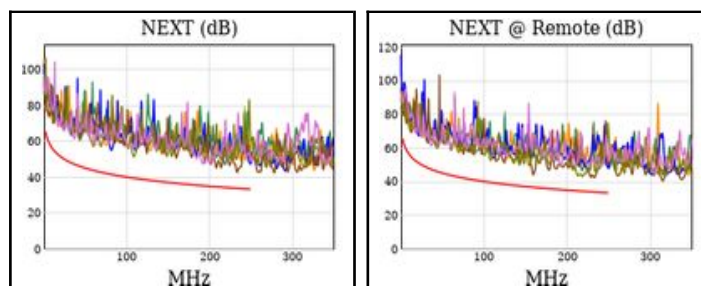
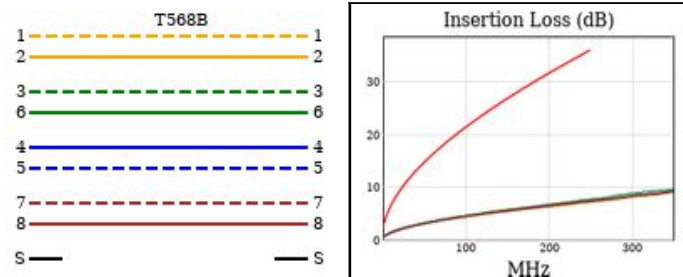
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	3,6	3,6
RL (dB)	11.7	11.0	11.9	14.5
Freq. (MHz)	71.0	69.0	91.0	194.0
Limit (dB)	13.5	13.6	12.4	9.1

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: 011

Date / Time: 10/05/2023 05:28:03 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	128
Prop. Delay (ns), Limit 555	[Pair 7,8]	202
Delay Skew (ns), Limit 50	[Pair 7,8]	13
Resistance (ohms)	[Pair 3,6]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	22.5
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	3,6-4,5	4,5-7,8	3,6-4,5	4,5-7,8
NEXT (dB)	5.7	7.1	8.5	7.6
Freq. (MHz)	4.6	150.0	199.5	236.0
Limit (dB)	62.0	36.9	34.8	33.5
Worst Pair	3,6	3,6	3,6	4,5
PS NEXT (dB)	5.7	8.5	10.9	8.7
Freq. (MHz)	4.6	4.8	199.5	235.5
Limit (dB)	59.5	59.3	31.9	30.6

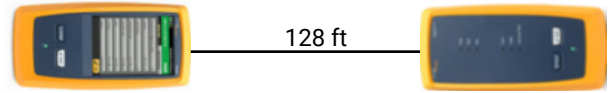
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	15.1	15.1	15.3	15.1
Freq. (MHz)	95.5	229.0	229.0	229.0
Limit (dB)	23.7	16.1	16.1	16.1
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.4	15.5	15.4	16.1
Freq. (MHz)	198.5	2.3	198.5	228.5
Limit (dB)	14.3	53.2	14.3	13.1

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	4,5-7,8	4,5-7,8
ACR-N (dB)	8.4	10.6	33.7	29.4
Freq. (MHz)	4.6	4.9	249.0	236.0
Limit (dB)	57.7	57.2	-2.7	-1.2
Worst Pair	3,6	3,6	7,8	4,5
PS ACR-N (dB)	8.3	11.2	35.5	30.5
Freq. (MHz)	4.6	4.8	246.0	235.5
Limit (dB)	55.2	54.9	-5.3	-4.1

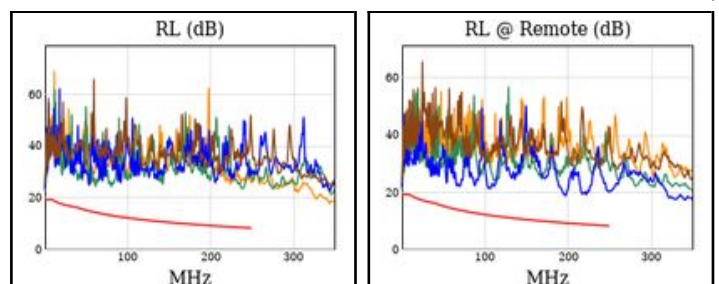
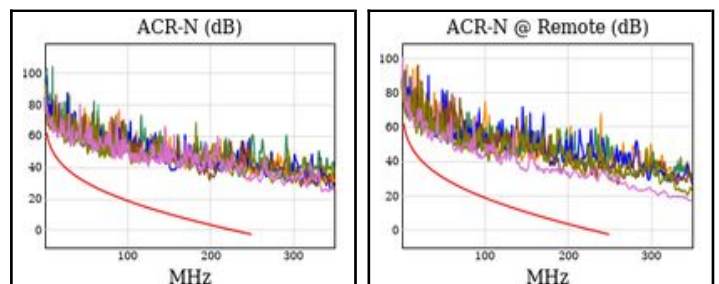
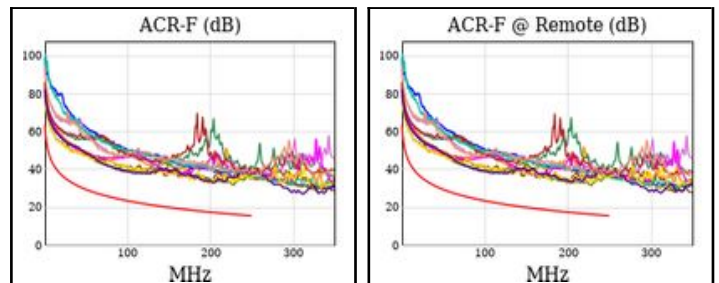
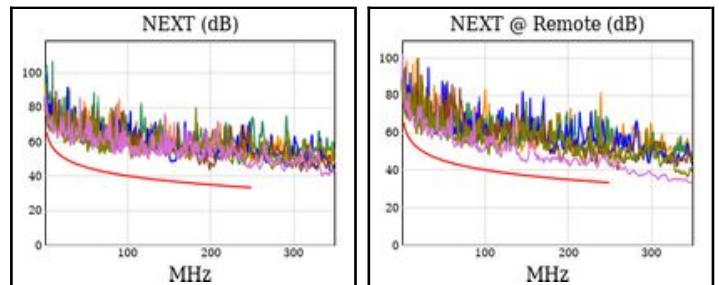
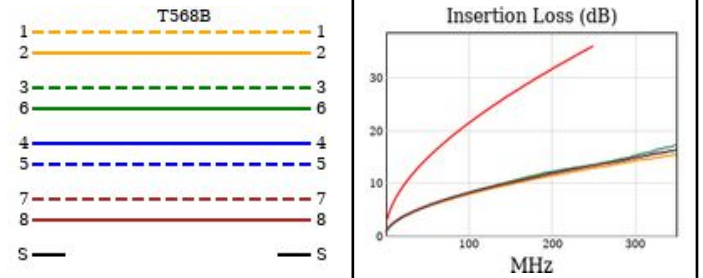
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	3,6	4,5
RL (dB)	10.0	8.2	15.2	9.5
Freq. (MHz)	54.3	66.8	238.5	197.5
Limit (dB)	14.7	13.8	8.2	9.0

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		



PASS





Cable ID: 012

Date / Time: 10/05/2023 05:29:13 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: SECURITAS - Denver

Test Summary: PASS

Length (ft), Limit 328	[Pair 3,6]	129
Prop. Delay (ns), Limit 555	[Pair 7,8]	202
Delay Skew (ns), Limit 50	[Pair 7,8]	12
Resistance (ohms)	[Pair 3,6]	7.5
Insertion Loss Margin (dB)	[Pair 3,6]	22.3
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	3,6-4,5	3,6-7,8	4,5-7,8	3,6-7,8
NEXT (dB)	6.9	5.2	10.0	5.2
Freq. (MHz)	4.6	228.5	237.0	228.5
Limit (dB)	62.0	33.8	33.5	33.8
Worst Pair	3,6	3,6	4,5	3,6
PS NEXT (dB)	7.1	7.2	11.4	7.2
Freq. (MHz)	4.6	228.5	234.5	228.5
Limit (dB)	59.5	30.8	30.6	30.8

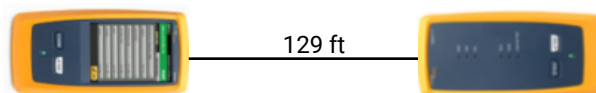
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8-3,6	7,8-3,6	3,6-7,8	7,8-3,6
ACR-F (dB)	15.2	15.3	15.6	15.4
Freq. (MHz)	5.1	3.9	237.0	237.0
Limit (dB)	49.1	51.5	15.8	15.8
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-F (dB)	15.3	15.5	18.0	16.8
Freq. (MHz)	1.9	2.1	250.0	237.0
Limit (dB)	54.8	53.7	12.3	12.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	4,5-7,8	3,6-7,8
ACR-N (dB)	9.6	10.7	31.8	26.5
Freq. (MHz)	4.6	4.8	237.0	228.5
Limit (dB)	57.7	57.5	-1.3	-0.3
Worst Pair	3,6	3,6	4,5	3,6
PS ACR-N (dB)	9.7	11.1	33.0	28.2
Freq. (MHz)	4.6	4.6	234.5	228.5
Limit (dB)	55.2	55.2	-4.0	-3.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	4,5	3,6	4,5
RL (dB)	8.8	7.7	14.4	10.7
Freq. (MHz)	66.8	69.5	248.5	194.5
Limit (dB)	13.8	13.6	8.0	9.1

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

