

Cable ID	Summary	Test Limit	Length	Headroom	Date / Time
COPPER 001	PASS	ISO11801 PL2 Class Fa (1 GHz)	178 ft	7.1 dB (NEXT)	05/10/2013 08:47 AM
COPPER 002	PASS	TIA Cat 5e Channel	6 ft	7.0 dB (NEXT)	04/30/2013 08:35 AM
COPPER 006	PASS	ISO11801 Channel Class Ea	15 ft	4.7 dB (NEXT)	04/30/2013 08:43 AM
COPPER 007	PASS	TIA Cat 6A Channel	15 ft	5.1 dB (NEXT)	04/30/2013 08:44 AM
COPPER 022	PASS	TIA Cat 6A Channel (+TCL)	14 ft	7.3 dB (NEXT)	04/30/2013 09:28 AM
COPPER 023	PASS	ISO11801 Channel Class Ea (+All)	14 ft	7.0 dB (NEXT)	04/30/2013 09:29 AM

Total Length:	242 ft
Number of Reports:	6
Number of Passing Reports:	6
Number of Failing Reports:	0
Number of Warning Reports:	0
Documentation Only:	0



Cable ID: COPPER 001

Date / Time: 05/10/2013 08:47:34 AM

Headroom 7.1 dB (NEXT 12-78)

Test Limit: ISO11801 PL2 Class Fa (1 GHz)

Cable Type: Cat 6 U/UTP

NVP: 69.0%

Operator: CHRIS

Software Version: V2.0 Build 4

Limits Version: V2.0

Calibration Date:

Main (Module): 04/03/2013

Remote (Module): 02/22/2013

Test Summary: PASS

Model: DSX-5000

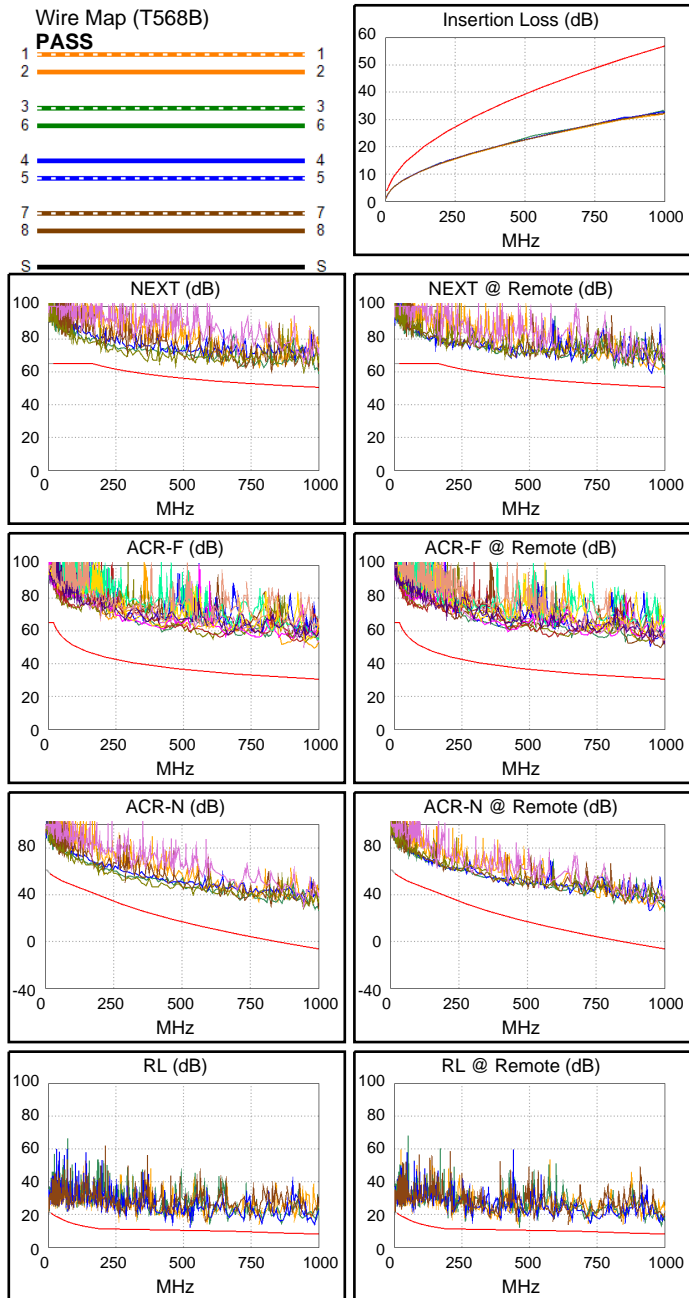
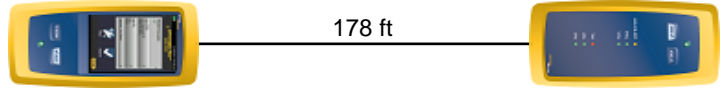
Main S/N: 2139624

Remote S/N: 2139622

Main Adapter: DSX-PLA011

Remote Adapter: DSX-PLA011

Length (ft), Limit 295	[Pair 36]	178
Prop. Delay (ns), Limit 496	[Pair 78]	270
Delay Skew (ns), Limit 25	[Pair 78]	7
Resistance (ohms), Limit 20.6	[Pair 12]	6.9
Insertion Loss Margin (dB)	[Pair 78]	21.2
Frequency (MHz)	[Pair 78]	945.0
Limit (dB)	[Pair 78]	55.3



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	12-78	12-45	12-78
NEXT (dB)	7.4	7.1	8.1	7.1
Freq. (MHz)	470.0	954.0	1000.	954.0
Limit (dB)	56.7	51.0	50.6	51.0
Worst Pair	45	78	45	78
PS NEXT (dB)	8.7	8.9	8.7	8.9
Freq. (MHz)	1000.	954.0	1000.	954.0
Limit (dB)	47.6	48.0	47.6	48.0

N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-36	12-36	36-12
ACR-F (dB)	18.3	18.6	18.3	19.1
Freq. (MHz)	986.0	47.8	986.0	986.0
Limit (dB)	30.6	56.9	30.6	30.6
Worst Pair	45	36	36	12
PS ACR-F (dB)	20.5	20.5	20.6	21.8
Freq. (MHz)	47.8	47.8	986.0	986.0
Limit (dB)	53.9	53.9	27.6	27.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	12-78	36-78	12-78
ACR-N (dB)	18.3	19.6	29.5	28.7
Freq. (MHz)	217.5	152.0	945.0	946.0
Limit (dB)	37.4	43.8	-4.2	-4.3
Worst Pair	36	36	45	78
PS ACR-N (dB)	19.2	19.4	32.8	30.3
Freq. (MHz)	193.0	193.0	1000.	946.0
Limit (dB)	36.9	36.9	-9.4	-7.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	36	12	45	36
RL (dB)	4.5	4.7	5.5	5.2
Freq. (MHz)	596.0	456.0	985.0	987.0
Limit (dB)	10.0	10.0	8.1	8.1

Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 10GBASE-T ATM-25
 ATM-51 ATM-155 100VG-AnyLan
 TR-4 TR-16 Active TR-16 Passive



Cable ID: COPPER 002

Date / Time: 04/30/2013 08:35:57 AM

Headroom 7.0 dB (NEXT 36-45)

Test Limit: TIA Cat 5e Channel

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

Main S/N: 223344

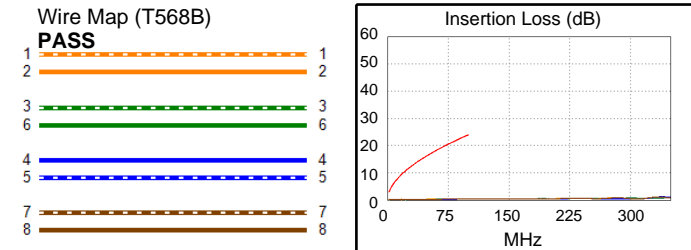
Remote S/N: 1234567

Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

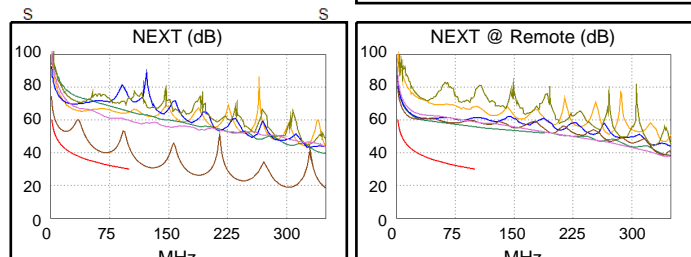
Length (ft), Limit 328	[Pair 12]	6
Prop. Delay (ns), Limit 555	[Pair 12]	9
Delay Skew (ns), Limit 50	[Pair 12]	0
Resistance (ohms), Limit 25.0	[Pair 12]	0.6
Insertion Loss Margin (dB)	[Pair 12]	23.7
Frequency (MHz)	[Pair 12]	100.0
Limit (dB)	[Pair 12]	24.0

Patch Cable BAD or Patch Cable too short

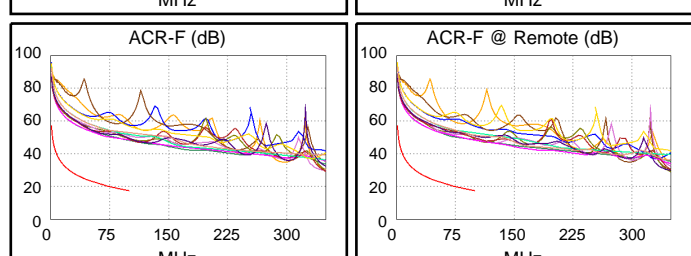


Worst Case Margin Worst Case Value

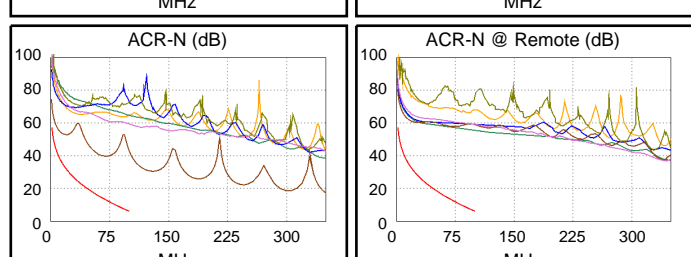
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	12-45
NEXT (dB)	7.0	17.3	7.4	26.1
Freq. (MHz)	66.3	7.8	71.0	100.0
Limit (dB)	33.2	48.8	32.6	30.1
Worst Pair	36	45	36	45
PS NEXT (dB)	10.0	18.1	10.4	26.2
Freq. (MHz)	66.3	7.8	71.0	99.8
Limit (dB)	30.2	45.8	29.6	27.1



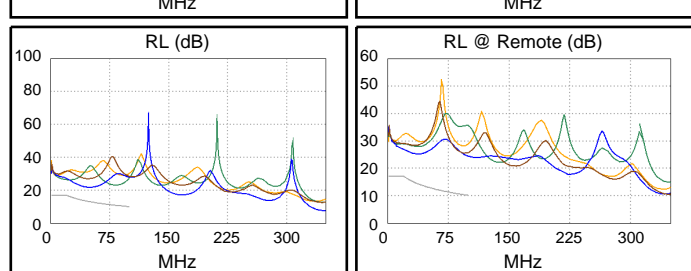
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-12	12-45	12-45	45-12
ACR-F (dB)	30.0	30.0	30.5	30.5
Freq. (MHz)	68.8	68.8	100.0	100.0
Limit (dB)	20.7	20.7	17.4	17.4
Worst Pair	45	36	45	45
PS ACR-F (dB)	28.3	28.4	30.1	30.2
Freq. (MHz)	1.0	1.1	100.0	100.0
Limit (dB)	54.4	53.4	14.4	14.4



N/A	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	12-45
ACR-N (dB)	13.2	21.4	27.0	49.8
Freq. (MHz)	2.1	2.3	71.0	100.0
Limit (dB)	54.8	54.3	12.7	6.1
Worst Pair	36	45	36	45
PS ACR-N (dB)	16.2	22.3	30.0	49.9
Freq. (MHz)	2.1	2.3	71.0	99.8
Limit (dB)	51.8	51.3	9.7	3.1



N/A	MAIN	SR	MAIN	SR
Worst Pair	45	45	45	45
RL (dB)	8.4	9.8	9.0	14.4
Freq. (MHz)	44.3	21.1	52.5	100.0
Limit (dB)	13.6	16.8	12.8	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: COPPER 006

Date / Time: 04/30/2013 08:43:56 AM

Headroom 4.7 dB (NEXT 12-36)

Test Limit: ISO11801 Channel Class Ea

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

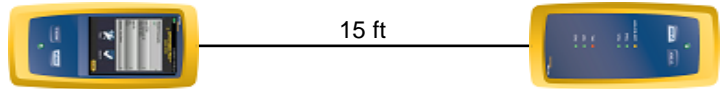
Main S/N: 223344

Remote S/N: 1234567

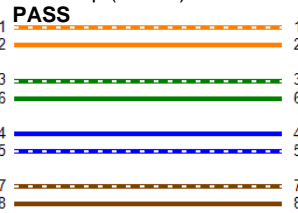
Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

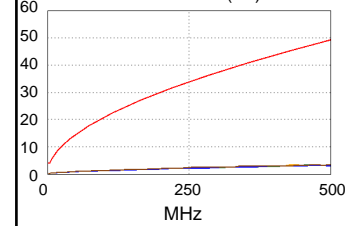
Length (ft), Limit 328	[Pair 45]	15
Prop. Delay (ns), Limit 555	[Pair 78]	23
Delay Skew (ns), Limit 50	[Pair 78]	1
Resistance (ohms), Limit 25.0	[Pair 12]	0.7
Insertion Loss Margin (dB)	[Pair 12]	42.2
Frequency (MHz)	[Pair 12]	433.0
Limit (dB)	[Pair 12]	45.6



Wire Map (T568B)

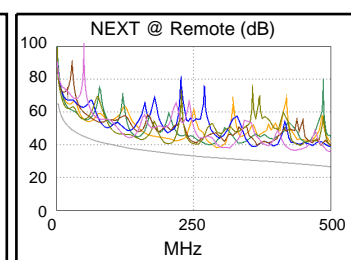
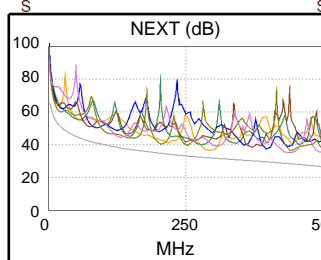


Insertion Loss (dB)

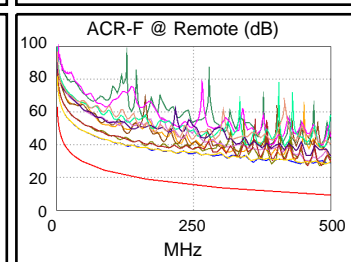
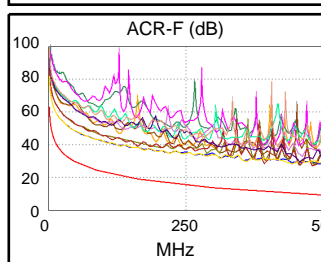


Worst Case Margin Worst Case Value

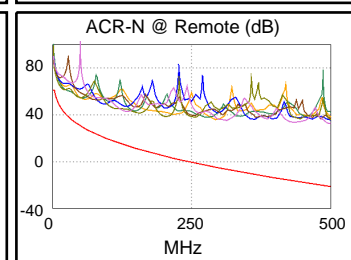
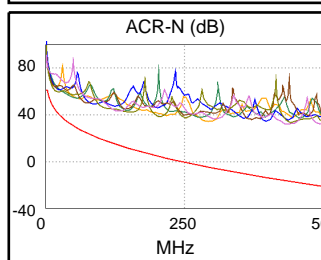
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-78	45-78	45-78
NEXT (dB)	4.7	5.9	6.2	9.4
Freq. (MHz)	295.0	203.5	435.0	498.0
Limit (dB)	31.9	34.7	28.9	26.6
Worst Pair	78	78	78	78
PS NEXT (dB)	5.9	6.3	5.9	9.7
Freq. (MHz)	440.0	134.0	440.0	500.0
Limit (dB)	25.8	34.9	25.8	23.4



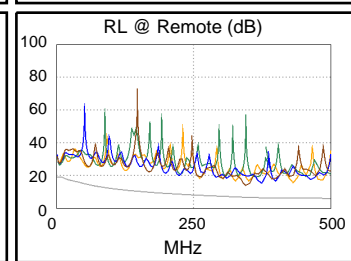
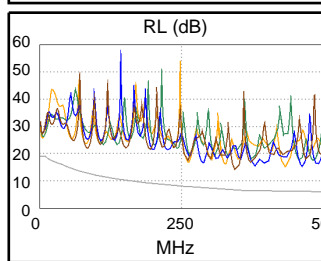
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-36	36-45	45-36	36-45
ACR-F (dB)	16.9	16.8	17.0	17.1
Freq. (MHz)	393.0	395.0	483.0	483.0
Limit (dB)	11.4	11.3	9.6	9.6
Worst Pair	36	36	36	36
PS ACR-F (dB)	18.0	18.9	18.0	19.0
Freq. (MHz)	457.0	457.0	457.0	459.0
Limit (dB)	7.1	7.1	7.1	7.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	45-78	45-78
ACR-N (dB)	15.7	17.1	48.8	54.0
Freq. (MHz)	12.3	11.4	435.0	498.0
Limit (dB)	48.0	48.8	-16.8	-21.3
Worst Pair	36	36	78	78
PS ACR-N (dB)	14.9	17.2	48.9	54.3
Freq. (MHz)	12.0	3.9	440.0	500.0
Limit (dB)	45.6	56.7	-20.2	-24.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	78	78
RL (dB)	7.1	7.1	7.1	7.1
Freq. (MHz)	346.0	346.0	346.0	346.0
Limit (dB)	6.6	6.6	6.6	6.6



Compliant Network Standards:

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



Cable ID: COPPER 007

Date / Time: 04/30/2013 08:44:27 AM

Headroom 5.1 dB (NEXT 36-78)

Test Limit: TIA Cat 6A Channel

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

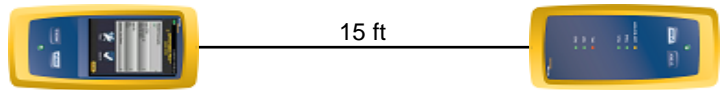
Main S/N: 223344

Remote S/N: 1234567

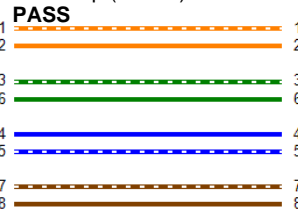
Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

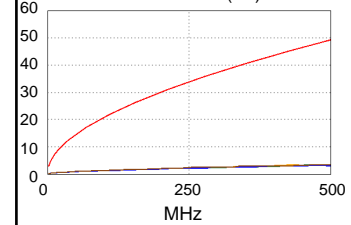
Length (ft), Limit 328	[Pair 45]	15
Prop. Delay (ns), Limit 555	[Pair 78]	23
Delay Skew (ns), Limit 50	[Pair 78]	1
Resistance (ohms), Limit 25.0	[Pair 12]	0.7
Insertion Loss Margin (dB)	[Pair 12]	42.2
Frequency (MHz)	[Pair 12]	433.0
Limit (dB)	[Pair 12]	45.6



Wire Map (T568B)

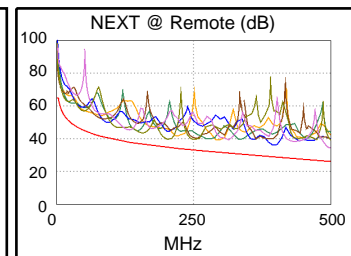
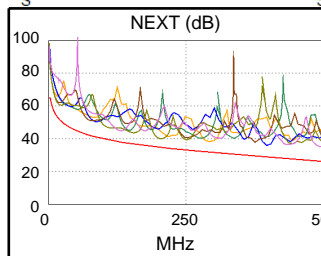


Insertion Loss (dB)

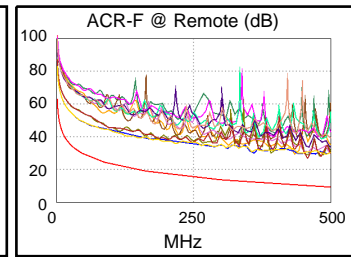
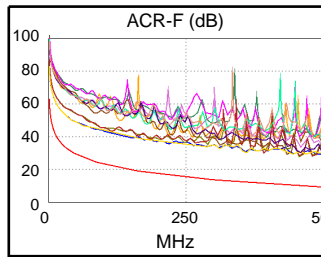


Worst Case Margin Worst Case Value

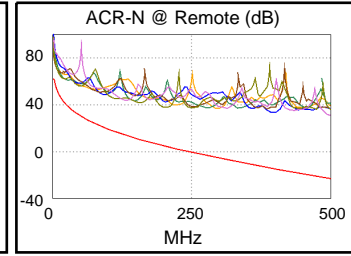
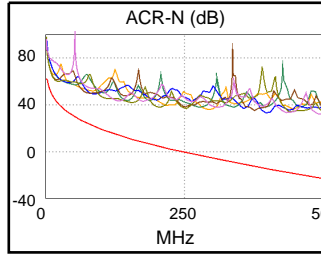
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	45-78	45-78
NEXT (dB)	5.4	5.1	9.1	8.4
Freq. (MHz)	206.0	201.5	495.0	498.0
Limit (dB)	34.6	34.7	26.2	26.1
Worst Pair	36	36	78	78
PS NEXT (dB)	6.4	6.3	7.8	9.2
Freq. (MHz)	252.0	209.5	442.0	500.0
Limit (dB)	30.1	31.5	24.6	23.2



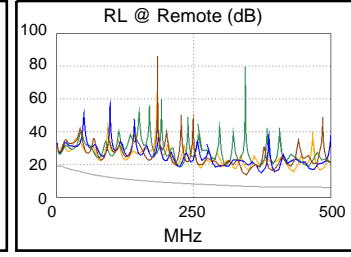
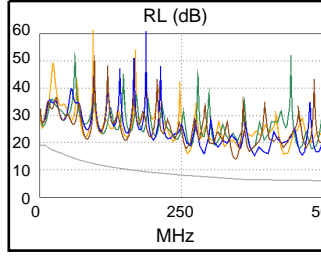
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	36-45	45-36
ACR-F (dB)	17.2	16.9	17.3	17.0
Freq. (MHz)	457.0	457.0	458.0	458.0
Limit (dB)	10.1	10.1	10.0	10.0
Worst Pair	36	36	36	36
PS ACR-F (dB)	18.6	18.8	18.6	18.8
Freq. (MHz)	457.0	458.0	457.0	458.0
Limit (dB)	7.1	7.0	7.1	7.0



N/A	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-45	45-78	45-78
ACR-N (dB)	16.2	16.1	54.8	54.3
Freq. (MHz)	12.3	3.1	495.0	498.0
Limit (dB)	48.0	61.1	-22.8	-23.1
Worst Pair	36	36	78	78
PS ACR-N (dB)	14.9	16.3	50.8	55.2
Freq. (MHz)	12.3	4.0	442.0	500.0
Limit (dB)	45.4	56.4	-21.4	-26.1



PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	78	78
RL (dB)	7.3	6.9	7.3	6.9
Freq. (MHz)	346.0	345.0	346.0	345.0
Limit (dB)	6.6	6.6	6.6	6.6



Compliant Network Standards:

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



Cable ID: COPPER 022

Date / Time: 04/30/2013 09:28:28 AM

Headroom 7.3 dB (NEXT 12-36)

Test Limit: TIA Cat 6A Channel (+TCL)

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

Main S/N: 223344

Remote S/N: 1234567

Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

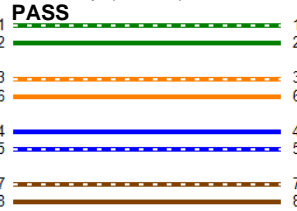
Length (ft), Limit 328	[Pair 36]	14
Prop. Delay (ns), Limit 555	[Pair 78]	22
Delay Skew (ns), Limit 50	[Pair 78]	1
Resistance (ohms), Limit 25.0	[Pair 12]	0.8
Insertion Loss Margin (dB)	[Pair 78]	44.4
Frequency (MHz)	[Pair 78]	468.0
Limit (dB)	[Pair 78]	47.6



14 ft

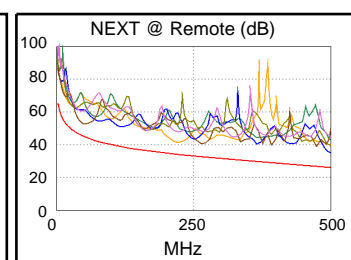
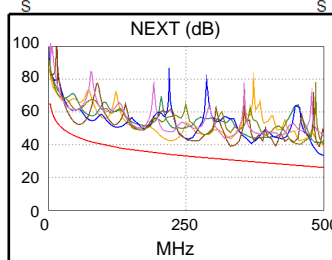


Wire Map (T568A)

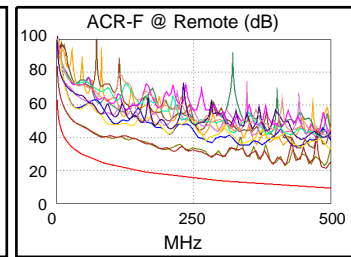
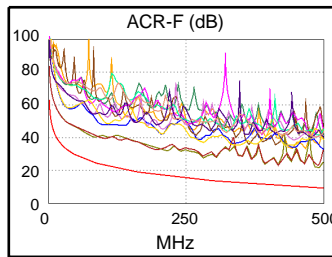


Worst Case Margin Worst Case Value

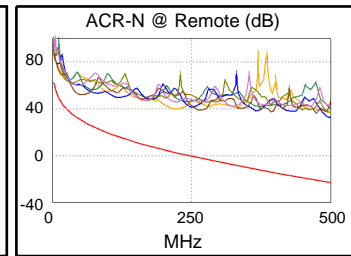
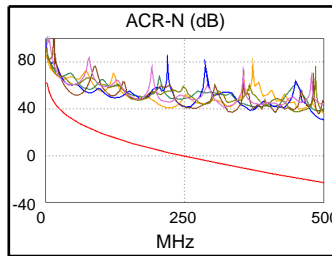
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-36	12-78	12-78
NEXT (dB)	7.5	7.3	7.5	9.2
Freq. (MHz)	500.0	220.5	500.0	500.0
Limit (dB)	26.1	34.1	26.1	26.1
Worst Pair	12	36	12	78
PS NEXT (dB)	8.9	9.6	9.0	10.3
Freq. (MHz)	499.0	273.0	500.0	500.0
Limit (dB)	23.3	29.5	23.2	23.2



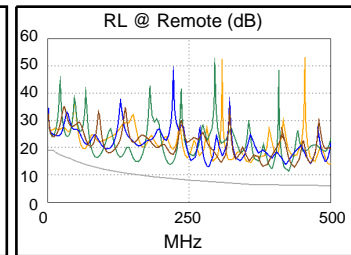
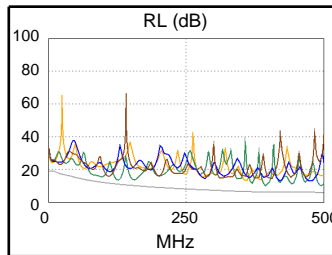
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	36-45	45-36
ACR-F (dB)	11.7	11.5	11.7	11.5
Freq. (MHz)	489.0	489.0	489.0	489.0
Limit (dB)	9.5	9.5	9.5	9.5
Worst Pair	45	36	45	36
PS ACR-F (dB)	14.6	14.4	14.6	14.4
Freq. (MHz)	488.0	488.0	488.0	488.0
Limit (dB)	6.5	6.5	6.5	6.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-45	12-78	12-78
ACR-N (dB)	20.7	20.9	53.9	55.6
Freq. (MHz)	3.3	44.0	500.0	500.0
Limit (dB)	60.7	32.3	-23.2	-23.2
Worst Pair	12	12	12	78
PS ACR-N (dB)	20.7	21.5	55.5	56.7
Freq. (MHz)	3.3	3.4	500.0	500.0
Limit (dB)	58.2	57.9	-26.1	-26.1



PASS	MAIN	SR	MAIN	SR
Worst Pair	36	78	36	78
RL (dB)	4.1	6.8	4.1	6.8
Freq. (MHz)	495.0	436.0	495.0	436.0
Limit (dB)	6.0	6.0	6.0	6.0



Compliant Network Standards:

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



Cable ID: COPPER 022

Date / Time: 04/30/2013 09:28:28 AM

Headroom 7.3 dB (NEXT 12-36)

Test Limit: TIA Cat 6A Channel (+TCL)

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

Main S/N: 223344

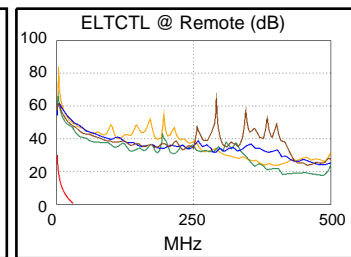
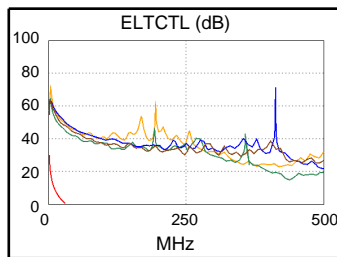
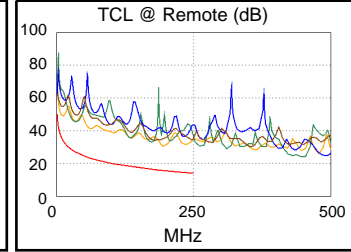
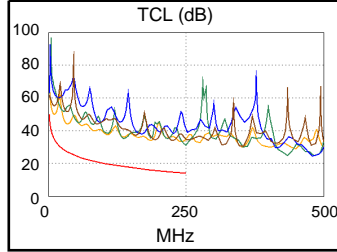
Remote S/N: 1234567

Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	78	45	36	12
TCL (dB)	10.5	11.3	17.2	14.7
Freq. (MHz)	1.0	1.0	250.0	193.5
Limit (dB)	50.0	50.0	14.0	15.7

	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	78	45	36	36
ELTCTL (dB)	24.6	24.1	44.6	45.7
Freq. (MHz)	1.0	1.0	30.0	29.9
Limit (dB)	30.0	30.0	0.5	0.5





Cable ID: COPPER 023

Date / Time: 04/30/2013 09:29:32 AM

Headroom 7.0 dB (NEXT 12-78)

Test Limit: ISO11801 Channel Class Ea (+All)

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

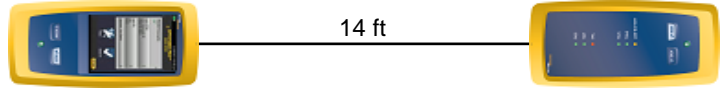
Main S/N: 223344

Remote S/N: 1234567

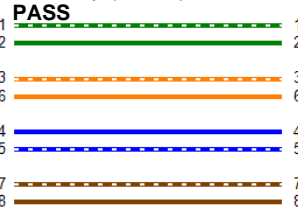
Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

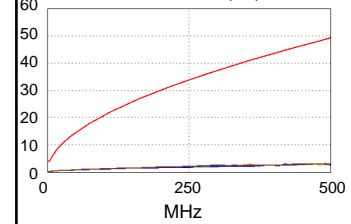
Length (ft), Limit 328	[Pair 36]	14
Prop. Delay (ns), Limit 555	[Pair 78]	22
Delay Skew (ns), Limit 50	[Pair 78]	1
Resistance (ohms), Limit 25.0	[Pair 78]	0.7
Insertion Loss Margin (dB)	[Pair 78]	44.4
Frequency (MHz)	[Pair 78]	468.0
Limit (dB)	[Pair 78]	47.6



Wire Map (T568A)

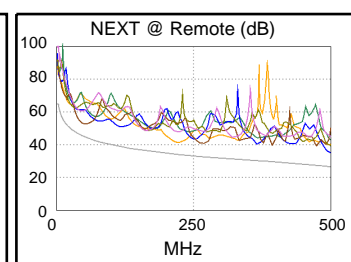
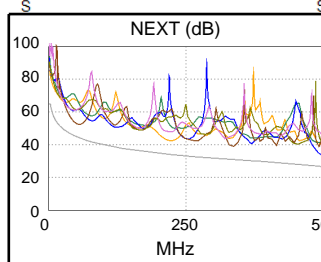


Insertion Loss (dB)

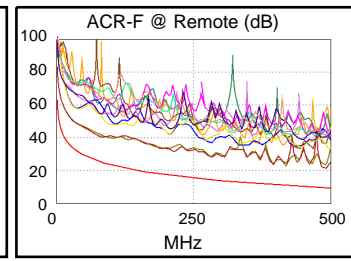
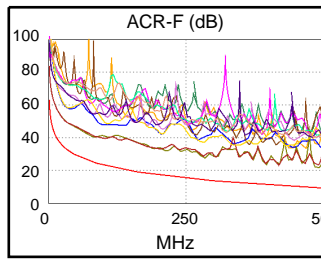


Worst Case Margin Worst Case Value

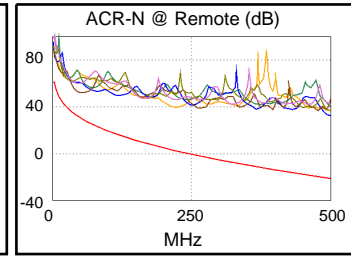
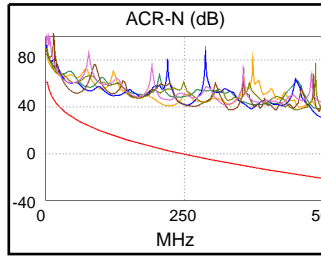
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-36	12-78	12-78
NEXT (dB)	7.0	7.3	7.1	8.8
Freq. (MHz)	498.0	220.5	500.0	500.0
Limit (dB)	26.6	34.1	26.5	26.5
Worst Pair	12	36	12	78
PS NEXT (dB)	8.7	9.6	8.8	10.1
Freq. (MHz)	499.0	274.0	500.0	500.0
Limit (dB)	23.5	29.5	23.4	23.4



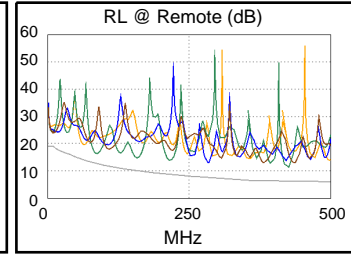
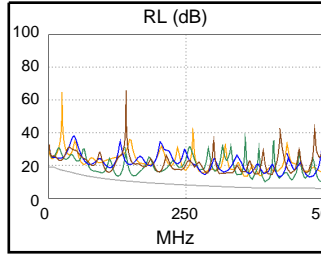
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	36-45	45-36
ACR-F (dB)	11.7	11.5	11.7	11.5
Freq. (MHz)	489.0	489.0	489.0	489.0
Limit (dB)	9.5	9.5	9.5	9.5
Worst Pair	45	36	45	36
PS ACR-F (dB)	14.6	14.4	14.6	14.4
Freq. (MHz)	488.0	488.0	488.0	488.0
Limit (dB)	6.5	6.5	6.5	6.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-45	12-78	12-78
ACR-N (dB)	20.8	20.9	52.1	53.8
Freq. (MHz)	3.4	44.0	500.0	500.0
Limit (dB)	60.2	32.3	-21.4	-21.4
Worst Pair	36	12	12	78
PS ACR-N (dB)	20.8	21.5	53.9	55.1
Freq. (MHz)	3.4	3.3	500.0	500.0
Limit (dB)	57.7	58.0	-24.5	-24.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	36	78	36	78
RL (dB)	4.2	6.9	4.2	6.9
Freq. (MHz)	496.0	437.0	496.0	437.0
Limit (dB)	6.0	6.0	6.0	6.0



Compliant Network Standards:

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



Cable ID: COPPER 023

Date / Time: 04/30/2013 09:29:32 AM

Headroom 7.0 dB (NEXT 12-78)

Test Limit: ISO11801 Channel Class Ea (+All)

Cable Type: Cat 6A U/UTP

NVP: 68.2%

Operator: JOE

Software Version: V2.0 Build 1

Limits Version: V1.8

Calibration Date:

Main (Module): 02/07/2013

Remote (Module): 02/07/2013

Test Summary: PASS

Model: DSX-5000

Main S/N: 223344

Remote S/N: 1234567

Main Adapter: DSX-CHA004

Remote Adapter: DSX-CHA004

	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12	12	36	12
TCL (dB)	11.1	10.6	18.9	15.9
Freq. (MHz)	8.0	8.3	250.0	194.0
Limit (dB)	39.5	39.3	12.3	14.5
N/A				
Worst Pair			12-45	12-45
CDNEXT (dB)			21.5	21.6
Freq. (MHz)			483.0	484.0
Limit (dB)				
N/A				
Worst Pair			36	36
CMRL (dB)			5.3	4.8
Freq. (MHz)			258.0	232.5
Limit (dB)				
N/A				
Worst Pair	78	45	36	36
ELTCTL (dB)	24.6	24.1	44.6	45.7
Freq. (MHz)	1.0	1.0	30.0	30.0
Limit (dB)	30.0	30.0	0.5	0.5

