

## CAT7-UTHN-xx-GRAY CAT7 Ultra Thin SSTP Patch Cables

- Tested to pass 600 MHz data transmission rates
- Meet all Cat7 ANSI/TIA-568-C.2 standards
- Compliant with CE, RoHS, REACH standards

### Applications:

- Supports 10G bandwidth
- Adapters, Hubs, Switches, Routers, DSL/Cable Modems, Patch Panels etc.

Description: 4-Pair, SSTP, 36AWG, Stranded Conductors

Available lengths: 1/2/3/5/7/10/15/25/50 feet.

### Electronic Specifications

Conductor DC Resistance: 153Ω/100m  
 Impedance: 100Ω  
 Capacitance: 5600 pf/100m  
 Propagation Delay: 545ns/100m(Maximum)  
 Delay Skew: 45ns/100m(Maximum)

### Physical Specifications

Wiring Scheme: T568B  
 Temperature Rating: -20°C to +75°C  
 Voltage Rating: 30V

### Conductor(4 twisted pair):

Conductor: 36AWG(7/0.05mm BC)  
 Insulation: HD-PE:Ø0.5±0.05mm  
 Twisted Pair: Pair1=Orange, Orange-White  
                   Pair2=Blue, Blue-White  
                   Pair3=Green, Green-White  
                   Pair4=Brown, Brown-White

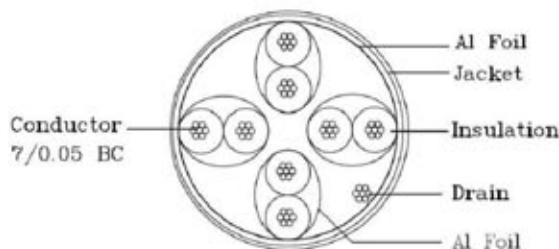
Shield: Al-Foil

### Connector Type (Qty. 2):

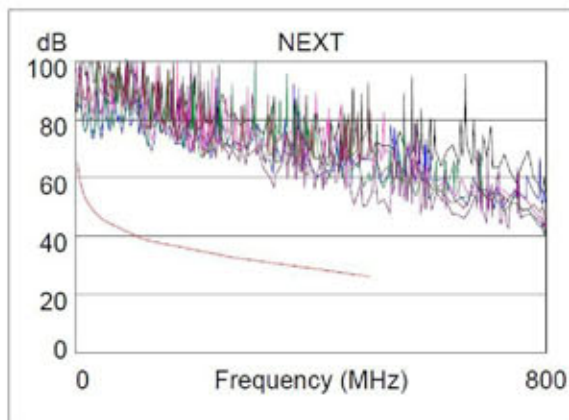
Connector Type: Shielded 8P8C (RJ45)  
 Gender: Male  
 Connector Material: Polycarbonate  
 Contact Material: Copper Alloy, Gold Plating  
 Hood Material: Molded PVC

### Overall Cable:

Jacket: TPE/GRAY  
 Minimum Average Thickness: 0.5mm  
 Outer Diameter: 4.0±0.2mm



### Fluke Performance Test:





**Cable ID: CAT7SSTP-4.0-1M-1**

Date / Time: 05/19/2016 03:15:31 PM

Headroom 19.4 dB (NEXT 36-78)

Test Limit: TIA Cat 6A Channel

Cable Type: Cat 7 SSTP

Calibration Date: 02/02/2010

Operator: NAME

Software Version: 2.7400

Limits Version: 1.9300

NVP: 76.0%

**Test Summary: PASS**

Model: DTX-1800

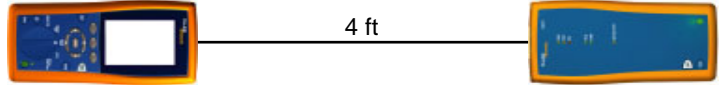
Main S/N: 1216007

Remote S/N: 1216008

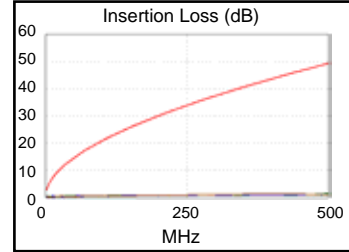
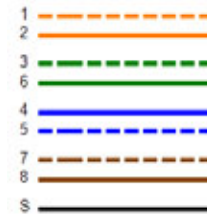
Main Adapter: DTX-CHA001

Remote Adapter: DTX-CHA001

Length (ft), Limit 328	[Pair 12]	4
Prop. Delay (ns), Limit 555	[Pair 12]	5
Delay Skew (ns), Limit 50	[Pair 12]	0
Resistance (ohms)	[Pair 36]	6.3
Insertion Loss Margin (dB)	[Pair 36]	47.9
Frequency (MHz)	[Pair 36]	500.0
Limit (dB)	[Pair 36]	49.3

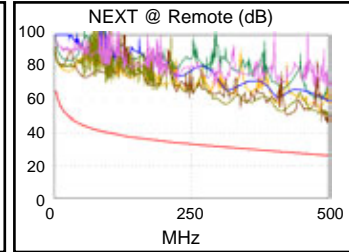
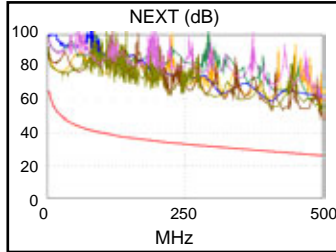


Wire Map (T568B)  
**PASS**

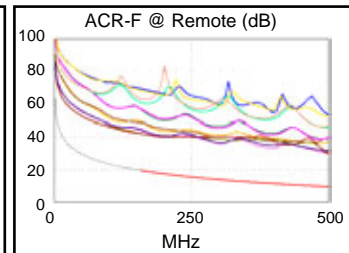
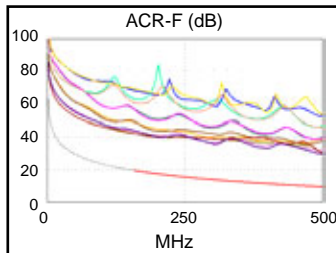


Worst Case Margin Worst Case Value

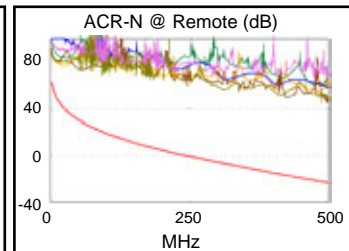
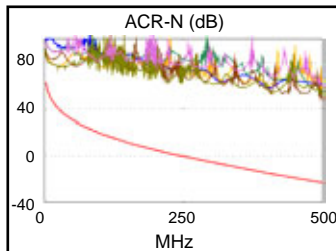
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-45	36-45	36-45
<b>NEXT (dB)</b>	19.4	20.3	22.8	20.3
Freq. (MHz)	3.3	497.0	499.0	497.0
Limit (dB)	64.5	26.2	26.1	26.2
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	18.7	19.1	23.9	21.7
Freq. (MHz)	3.3	3.3	499.0	497.0
Limit (dB)	62.0	62.0	23.3	23.3



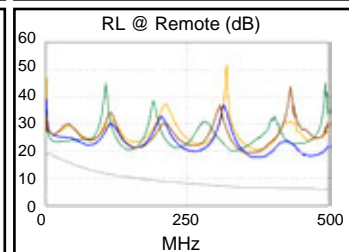
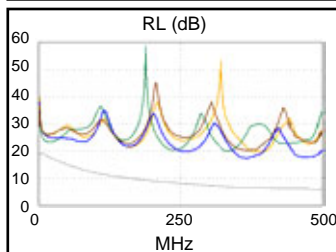
PASS	MAIN	SR	MAIN	SR
Worst Pair	78-36	45-36	78-36	45-36
<b>ACR-F (dB)</b>	20.3	20.1	20.3	20.1
Freq. (MHz)	492.0	500.0	496.0	500.0
Limit (dB)	9.4	9.3	9.3	9.3
Worst Pair	36	36	36	36
<b>PS ACR-F (dB)</b>	20.2	21.1	20.2	21.1
Freq. (MHz)	499.0	500.0	499.0	500.0
Limit (dB)	6.3	6.3	6.3	6.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-45	36-45
<b>ACR-N (dB)</b>	22.8	23.6	71.1	68.6
Freq. (MHz)	2.9	3.0	499.0	497.0
Limit (dB)	61.4	61.4	-23.1	-23.0
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	22.2	22.6	71.8	69.4
Freq. (MHz)	3.3	3.3	499.0	497.0
Limit (dB)	58.2	58.2	-26.0	-25.8



N/A	MAIN	SR	MAIN	SR
Worst Pair	36	36	45	45
<b>RL (dB)</b>	4.9	5.0	10.9	11.2
Freq. (MHz)	10.0	9.9	372.0	377.0
Limit (dB)	19.0	19.0	6.3	6.2



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: CAT7SSTP-4.0-3M-1**

Date / Time: 05/19/2016 03:18:01 PM

Headroom 15.8 dB (NEXT 12-36)

Test Limit: TIA Cat 6A Channel

Cable Type: Cat 7 SSTP

Calibration Date: 02/02/2010

Operator: NAME

Software Version: 2.7400

Limits Version: 1.9300

NVP: 76.0%

**Test Summary: PASS**

Model: DTX-1800

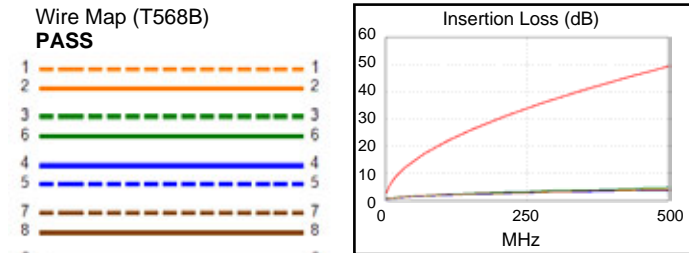
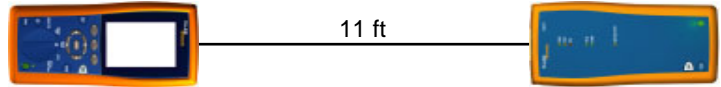
Main S/N: 1216007

Remote S/N: 1216008

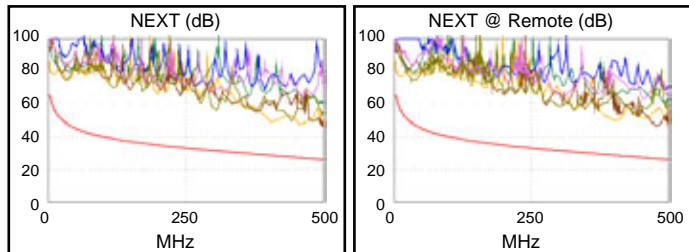
Main Adapter: DTX-CHA001

Remote Adapter: DTX-CHA001

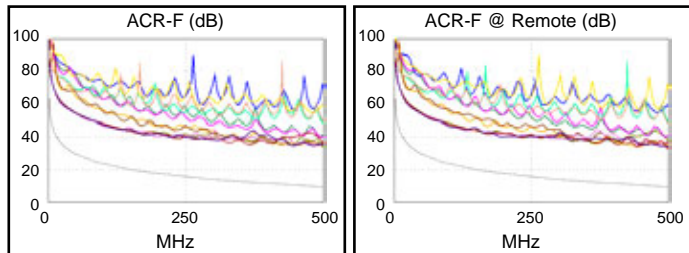
Length (ft), Limit 328	[Pair 12]	11
Prop. Delay (ns), Limit 555	[Pair 12]	15
Delay Skew (ns), Limit 50	[Pair 12]	0
Resistance (ohms)	[Pair 36]	11.4
Insertion Loss Margin (dB)	[Pair 36]	44.5
Frequency (MHz)	[Pair 36]	500.0
Limit (dB)	[Pair 36]	49.3



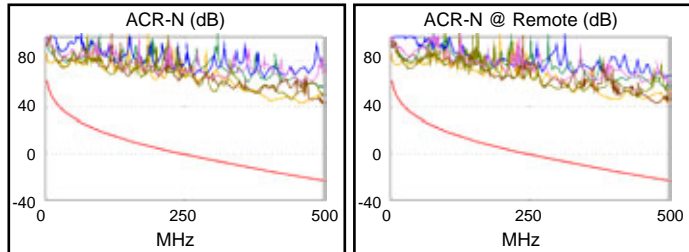
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	36-45	36-45
<b>NEXT (dB)</b>	15.8	15.8	20.2	19.7
Freq. (MHz)	3.0	3.1	499.0	478.0
Limit (dB)	65.0	64.8	26.1	26.6
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	18.1	18.2	20.5	22.0
Freq. (MHz)	3.3	3.1	499.0	478.0
Limit (dB)	62.0	62.0	23.3	23.7



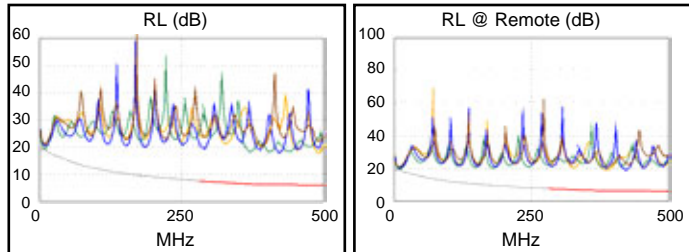
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-78	78-36	36-45	45-36
<b>ACR-F (dB)</b>	22.7	22.3	24.0	22.8
Freq. (MHz)	192.5	194.5	500.0	500.0
Limit (dB)	17.6	17.5	9.3	9.3
Worst Pair	36	36	36	36
<b>PS ACR-F (dB)</b>	22.6	23.0	24.9	23.8
Freq. (MHz)	166.0	164.0	499.0	500.0
Limit (dB)	15.9	16.0	6.3	6.3



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	12-36	36-45
<b>ACR-N (dB)</b>	18.7	18.8	62.4	64.2
Freq. (MHz)	3.0	3.1	459.0	478.0
Limit (dB)	61.4	61.1	-19.9	-21.5
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	21.2	21.2	65.0	66.8
Freq. (MHz)	3.0	3.1	499.0	498.0
Limit (dB)	58.4	58.3	-26.0	-25.9



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45	12	45	12
<b>RL (dB)</b>	11.4	12.7	11.4	12.7
Freq. (MHz)	423.0	387.0	423.0	387.0
Limit (dB)	6.0	6.1	6.0	6.1



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: CAT7SSTP-4.0-5M-1**

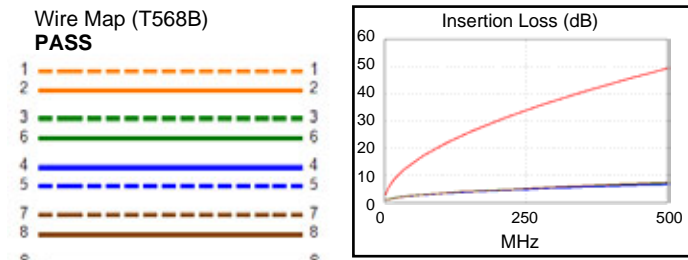
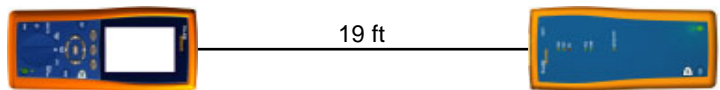
Date / Time: 05/19/2016 03:19:21 PM  
**Headroom 17.4 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 6A Channel**  
 Cable Type: Cat 7 SSTP  
 Calibration Date: 02/02/2010

Operator: NAME  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 76.0%

**Test Summary: PASS**

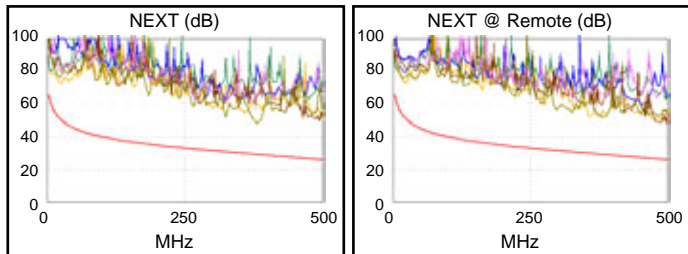
Model: DTX-1800  
 Main S/N: 1216007  
 Remote S/N: 1216008  
 Main Adapter: DTX-CHA001  
 Remote Adapter: DTX-CHA001

Length (ft), Limit 328	[Pair 12]	19
Prop. Delay (ns), Limit 555	[Pair 12]	25
Delay Skew (ns), Limit 50	[Pair 12]	0
Resistance (ohms)	[Pair 36]	20.2
Insertion Loss Margin (dB)	[Pair 78]	41.9
Frequency (MHz)	[Pair 78]	500.0
Limit (dB)	[Pair 78]	49.3

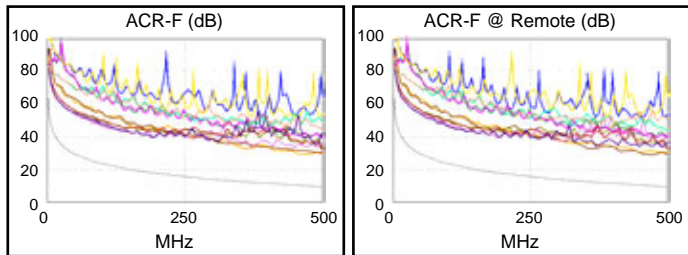


Worst Case Margin Worst Case Value

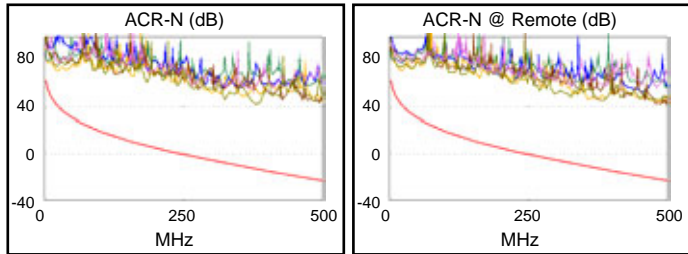
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-45	36-78	36-45
<b>NEXT (dB)</b>	17.4	17.9	18.5	20.6
Freq. (MHz)	3.1	3.1	378.0	486.0
Limit (dB)	64.8	64.8	29.4	26.4
Worst Pair	12	12	36	36
<b>PS NEXT (dB)</b>	17.1	18.1	22.1	21.2
Freq. (MHz)	3.3	3.3	485.0	486.0
Limit (dB)	62.0	62.0	23.6	23.6



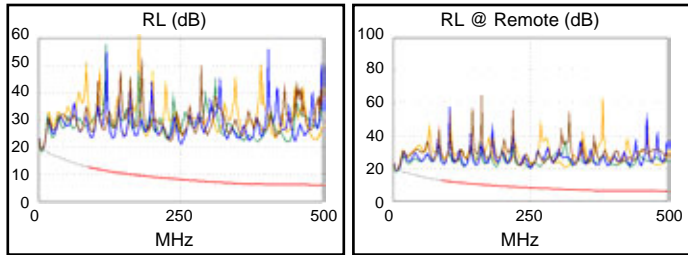
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-12	12-36	36-12
<b>ACR-F (dB)</b>	19.3	19.2	19.4	19.2
Freq. (MHz)	457.0	455.0	476.0	472.0
Limit (dB)	10.1	10.1	9.7	9.8
Worst Pair	36	36	36	36
<b>PS ACR-F (dB)</b>	21.2	20.8	21.2	20.8
Freq. (MHz)	500.0	447.0	500.0	448.0
Limit (dB)	6.3	7.3	6.3	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-45	36-78	36-45
<b>ACR-N (dB)</b>	20.0	20.6	54.4	62.7
Freq. (MHz)	3.0	3.0	378.0	486.0
Limit (dB)	61.4	61.4	-12.9	-22.1
Worst Pair	12	12	36	36
<b>PS ACR-N (dB)</b>	19.9	20.9	63.7	62.9
Freq. (MHz)	3.3	3.3	485.0	486.0
Limit (dB)	58.2	58.2	-24.9	-25.0



PASS	MAIN	SR	MAIN	SR
Worst Pair	45	36	45	45
<b>RL (dB)</b>	11.1	10.1	13.0	12.0
Freq. (MHz)	92.3	128.5	252.0	250.0
Limit (dB)	12.4	10.9	8.0	8.0



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: CAT7SSTP-4.0-15M-1**

Date / Time: 05/19/2016 03:21:03 PM

Headroom 14.4 dB (NEXT 12-45)

Test Limit: TIA Cat 6A Channel

Cable Type: Cat 7 SSTP

Calibration Date: 02/02/2010

Operator: NAME

Software Version: 2.7400

Limits Version: 1.9300

NVP: 76.0%

**Test Summary: PASS**

Model: DTX-1800

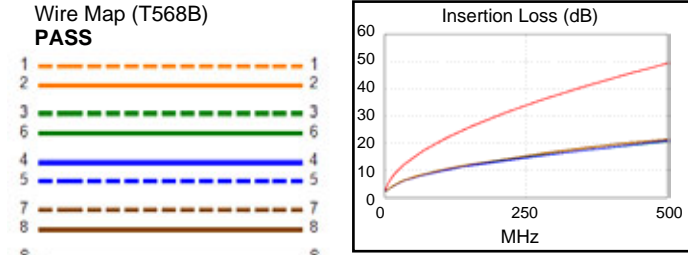
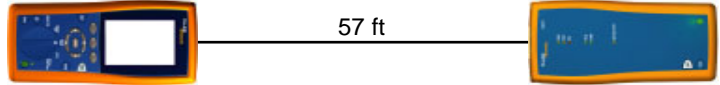
Main S/N: 1216007

Remote S/N: 1216008

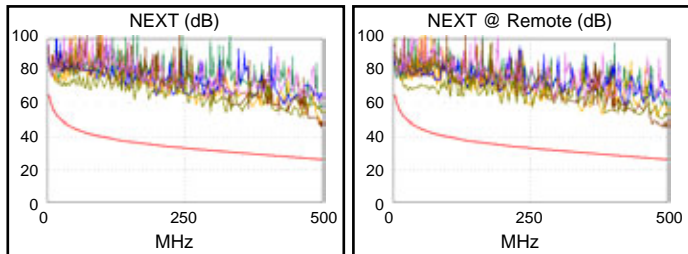
Main Adapter: DTX-CHA001

Remote Adapter: DTX-CHA001

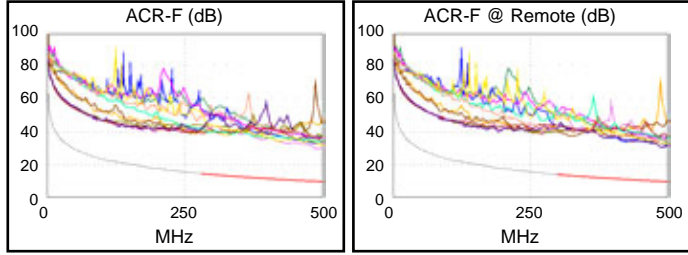
Length (ft), Limit 328	[Pair 12]	57
Prop. Delay (ns), Limit 555	[Pair 36]	77
Delay Skew (ns), Limit 50	[Pair 36]	1
Resistance (ohms)	[Pair 45]	47.8
Insertion Loss Margin (dB)	[Pair 78]	27.9
Frequency (MHz)	[Pair 78]	500.0
Limit (dB)	[Pair 78]	49.3



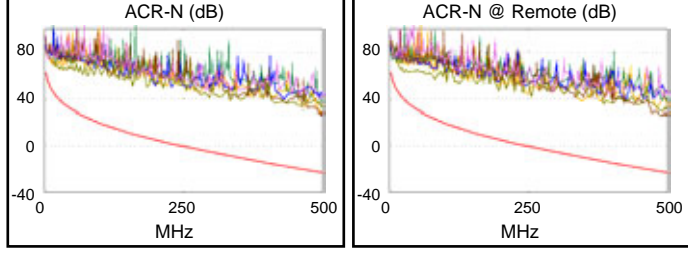
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	12-45	36-45	36-45
<b>NEXT (dB)</b>	17.5	14.4	20.6	17.8
Freq. (MHz)	3.8	3.9	496.0	486.0
Limit (dB)	63.5	63.3	26.2	26.4
Worst Pair	36	12	36	36
<b>PS NEXT (dB)</b>	17.1	14.6	21.1	19.8
Freq. (MHz)	5.3	3.3	498.0	486.0
Limit (dB)	58.6	62.0	23.3	23.6



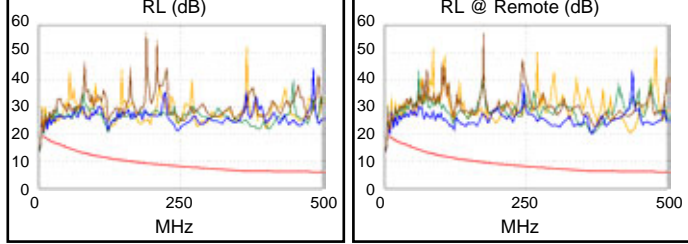
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-78	78-36	36-78	78-36
<b>ACR-F (dB)</b>	20.0	21.0	20.0	21.0
Freq. (MHz)	489.0	488.0	489.0	488.0
Limit (dB)	9.5	9.5	9.5	9.5
Worst Pair	78	36	78	36
<b>PS ACR-F (dB)</b>	20.4	22.2	20.4	22.5
Freq. (MHz)	489.0	1.0	489.0	487.0
Limit (dB)	6.5	60.3	6.5	6.5



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	12-45	36-45	36-45
<b>ACR-N (dB)</b>	19.0	15.8	49.1	45.8
Freq. (MHz)	3.8	3.0	496.0	486.0
Limit (dB)	59.5	61.4	-22.9	-22.1
Worst Pair	12	12	36	36
<b>PS ACR-N (dB)</b>	18.7	16.0	49.8	48.2
Freq. (MHz)	3.3	3.3	498.0	486.0
Limit (dB)	58.2	58.2	-25.9	-25.0



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36	45	36	36
<b>RL (dB)</b>	1.0	1.1	1.0	13.2
Freq. (MHz)	8.6	8.6	8.6	366.0
Limit (dB)	19.0	19.0	19.0	6.4



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: CAT7SSTP-4.0-10M-1**

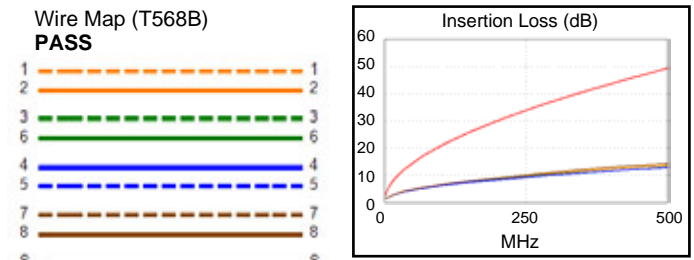
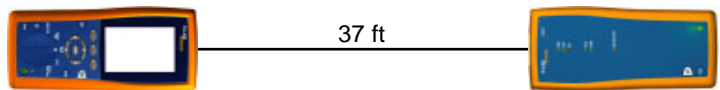
Date / Time: 05/19/2016 04:09:35 PM  
**Headroom 16.0 dB (NEXT 45-78)**  
**Test Limit: TIA Cat 6A Channel**  
 Cable Type: Cat 7 SSTP  
 Calibration Date: 02/02/2010

Operator: NAME  
 Software Version: 2.7400  
 Limits Version: 1.9300  
 NVP: 76.0%

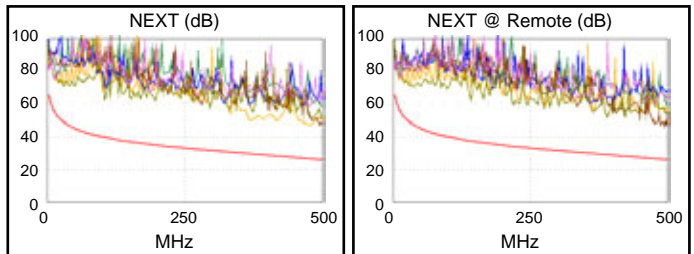
**Test Summary: PASS**

Model: DTX-1800  
 Main S/N: 1216007  
 Remote S/N: 1216008  
 Main Adapter: DTX-CHA001  
 Remote Adapter: DTX-CHA001

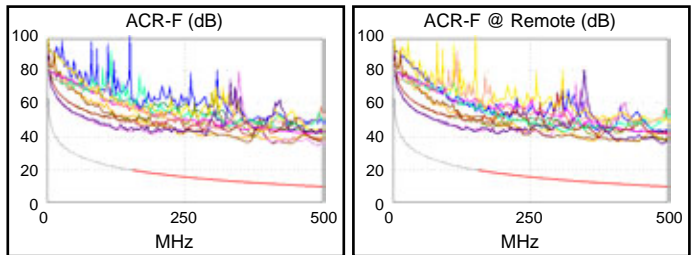
Length (ft), Limit 328	[Pair 78]	37
Prop. Delay (ns), Limit 555	[Pair 12]	51
Delay Skew (ns), Limit 50	[Pair 12]	1
Resistance (ohms)	[Pair 12]	29.6
Insertion Loss Margin (dB)	[Pair 78]	35.1
Frequency (MHz)	[Pair 78]	500.0
Limit (dB)	[Pair 78]	49.3



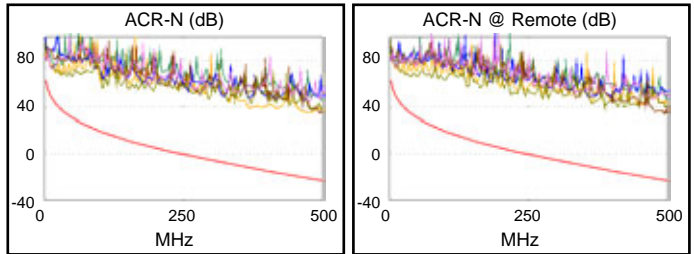
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45-78	45-78	12-36	36-45
<b>NEXT (dB)</b>	16.2	16.0	20.2	20.2
Freq. (MHz)	2.6	2.4	475.0	493.0
Limit (dB)	65.0	65.0	26.7	26.3
Worst Pair	78	45	36	36
<b>PS NEXT (dB)</b>	18.3	17.7	20.8	22.3
Freq. (MHz)	2.9	2.6	479.0	493.0
Limit (dB)	62.0	62.0	23.7	23.4



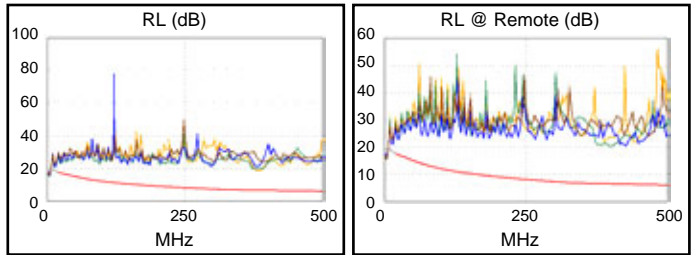
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-78	78-36
<b>ACR-F (dB)</b>	22.8	22.9	25.0	26.3
Freq. (MHz)	146.0	124.5	491.0	491.0
Limit (dB)	20.0	21.4	9.4	9.4
Worst Pair	45	45	78	36
<b>PS ACR-F (dB)</b>	22.9	22.9	27.7	25.9
Freq. (MHz)	1.0	1.0	491.0	491.0
Limit (dB)	60.3	60.3	6.4	6.4



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	45-78	45-78	12-36	36-45
<b>ACR-N (dB)</b>	18.0	17.7	55.5	56.5
Freq. (MHz)	2.3	2.4	475.0	493.0
Limit (dB)	61.8	61.7	-21.2	-22.7
Worst Pair	45	45	36	36
<b>PS ACR-N (dB)</b>	20.1	19.5	56.2	58.4
Freq. (MHz)	2.1	2.6	479.0	493.0
Limit (dB)	58.9	58.6	-24.4	-25.5



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36	45	12	36
<b>RL (dB)</b>	5.8	5.7	12.2	13.2
Freq. (MHz)	23.1	23.3	388.0	403.0
Limit (dB)	17.2	17.2	6.1	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