



Cable ID: Category 6

Test Summary: PASS

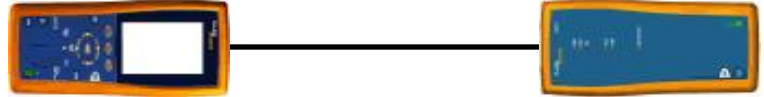
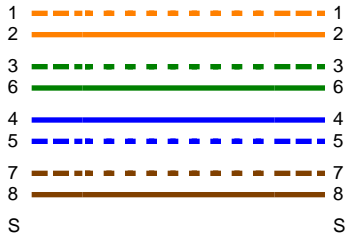
Date / Time: 04/21/2006 02:07:00pm
Headroom: 3.2 dB (NEXT 36-78)
Test Limit: TIA Cat 6 Perm. Link
 Cable Type: Berk-Tek LM-1000 PL

Operator: TCS Group
 Software Version: 1.3100
 Limits Version: 1.0200
 NVP: 72.0%

Model: DTX-1800
 Main S/N: 8743023
 Remote S/N: 8743024
 Main Adapter: DTX-PLA001
 Remote Adapter: DTX-PLA001

Wire Map (T568B)

PASS



Length (ft), Limit 295	[Pair 12]	148
Prop. Delay (ns), Limit 498	[Pair 45]	219
Delay Skew (ns), Limit 44	[Pair 45]	10
Resistance (ohms)	[Pair 78]	6.8
Insertion Loss Margin (dB)	[Pair 36]	15.8
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	31.1

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-78	36-78	36-78	36-78
NEXT (dB)	8.2	3.2	8.2	3.2
Freq. (MHz)	213.5	249.0	213.5	249.0
Limit (dB)	36.5	35.4	36.5	35.4
Worst Pair	36	36	36	36
PSNEXT (dB)	8.8	4.9	8.8	4.9
Freq. (MHz)	223.5	249.0	223.5	249.0
Limit (dB)	33.5	32.7	33.5	32.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-12	12-36	36-12
ELFEXT (dB)	16.8	16.8	17.7	18.3
Freq. (MHz)	1.0	1.0	230.5	230.5
Limit (dB)	64.2	64.2	16.9	16.9
Worst Pair	36	36	36	12
PSELFEXT (dB)	17.7	18.0	18.6	19.0
Freq. (MHz)	1.0	1.0	230.5	245.5
Limit (dB)	61.2	61.2	13.9	13.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	36-78	36-78	36-78
ACR (dB)	12.9	11.6	24.0	19.1
Freq. (MHz)	3.8	58.3	230.5	249.0
Limit (dB)	61.1	31.8	6.2	4.3
Worst Pair	78	36	36	36
PSACR (dB)	13.6	13.3	23.5	20.6
Freq. (MHz)	3.4	58.3	223.5	249.0
Limit (dB)	58.8	29.3	4.4	1.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	78	36
RL (dB)	6.4	4.1	8.9	4.8
Freq. (MHz)	70.0	80.5	228.0	214.5
Limit (dB)	15.5	14.9	10.4	10.7

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



Cable ID: Category 5e

Test Summary: PASS

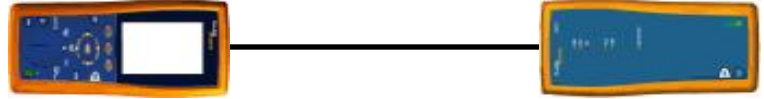
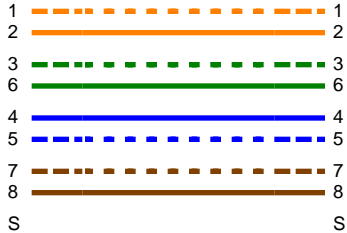
Date / Time: 11/22/2006 04:30:57pm
Headroom: 9.8 dB (NEXT 36-45)
Test Limit: TIA Cat 5e Perm. Link
 Cable Type: Cat 5e UTP

Operator: TCS Group
 Software Version: 1.3100
 Limits Version: 1.0200
 NVP: 72.0%

Model: DTX-1800
 Main S/N: 8797055
 Remote S/N: 8797047
 Main Adapter: DTX-PLA001
 Remote Adapter: DTX-PLA001

Wire Map (T568B)

PASS



Length (ft), Limit 295	[Pair 36]	185
Prop. Delay (ns), Limit 498	[Pair 78]	268
Delay Skew (ns), Limit 44	[Pair 78]	7
Resistance (ohms)	[Pair 78]	9.6
Insertion Loss Margin (dB)	[Pair 78]	9.7
Frequency (MHz)	[Pair 78]	100.0
Limit (dB)	[Pair 78]	21.0

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-45	36-45
NEXT (dB)	9.8	10.3	11.4	10.3
Freq. (MHz)	28.6	96.3	95.0	96.3
Limit (dB)	41.2	32.6	32.7	32.6
Worst Pair	36	36	12	36
PSNEXT (dB)	11.9	12.4	13.4	12.4
Freq. (MHz)	28.5	96.3	94.8	96.3
Limit (dB)	38.2	29.6	29.7	29.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	78-12	12-78	12-78	12-78
ELFEXT (dB)	15.7	15.6	16.7	16.6
Freq. (MHz)	1.0	1.0	99.3	99.3
Limit (dB)	58.6	58.6	18.7	18.7
Worst Pair	12	12	12	12
PSELFEXT (dB)	17.1	17.1	18.5	18.6
Freq. (MHz)	1.0	1.0	98.8	99.3
Limit (dB)	55.6	55.6	15.7	15.7

N/A	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-45	36-45
ACR (dB)	14.1	14.3	21.1	20.3
Freq. (MHz)	5.5	5.5	95.0	98.3
Limit (dB)	48.0	48.0	12.3	11.7
Worst Pair	45	36	12	36
PSACR (dB)	16.0	16.7	23.0	22.3
Freq. (MHz)	10.8	5.5	94.8	96.3
Limit (dB)	38.6	45.0	9.3	9.0

PASS	MAIN	SR	MAIN	SR
Worst Pair	45	36	36	36
RL (dB)	7.6	6.8	9.9	6.8
Freq. (MHz)	11.1	73.0	65.0	73.0
Limit (dB)	19.0	13.4	13.9	13.4

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



Cable ID: Single Mode Fiber

Test Summary: PASS

Date / Time: 08/28/2006 11:29:25am
Headroom: 0.92 dB (Loss)
Test Limit: TIA568B Backbone SM ISP
 Cable Type: Singlemode

Operator: TCS Group
 Software Version: 1.3100
 Limits Version: 1.0200

Model: DTX-1800
 Main S/N: 8797055
 Remote S/N: 8797047
 Main Adapter: DTX-SFM
 Remote Adapter: DTX-SFM

n = 1.4660
 Number of Adapters: 2
 Number of Splices: 0
 Patch Type: Singlemode
 Patch Length1 (ft): 3.3
 Patch Length2 (ft): 3.3
 Patch Length3 (ft): 1.0

Propagation Delay (ns) 1073
 Length (ft), Limit 16404.2 719.8 PASS

Direction	Remote->Main	Remote->Main
Wavelength (nm)	1310	1550
Result	PASS	PASS
Loss (dB)	0.35	0.80
Loss Limit (dB)	1.72	1.72
Loss Margin (dB)	1.37	0.92
Reference (dBm)	-7.29	-7.01
08/28/2006 11:02:33am		
Method B		

Direction	Main->Remote	Main->Remote
Wavelength (nm)	1310	1550
Result	PASS	PASS
Loss (dB)	0.36	0.80
Loss Limit (dB)	1.72	1.72
Loss Margin (dB)	1.36	0.92
Reference (dBm)	-6.71	-6.56
08/28/2006 11:02:33am		
Method B		

Near End Adapter S/N: 8744018
 Calibration Date: 12/14/2005 10:37:35am

Far End Adapter S/N: 8744019
 Calibration Date: 12/14/2005 10:30:33am

Compliant Network Standards:
 FDDI 1000BASE-LX 10GBASE-LX4
 ATM 52 Fiber Optic ATM 155 Fiber Optic ATM 622 Fiber Optic
 Fibre Channel 266



Cable ID: Multi Mode Fiber

Test Summary: PASS

Date / Time: 09/07/2006 10:11:35am
Headroom: 0.64 dB (Loss)
Test Limit: TIA568B Backbone MM
 Cable Type: Multimode 62.5

Operator: TCS Group
 Software Version: 1.3100
 Limits Version: 1.0200

Model: DTX-1800
 Main S/N: 8797055
 Remote S/N: 8797047
 Main Adapter: DTX-MFM
 Remote Adapter: DTX-MFM

n = 1.4910
 Number of Adapters: 2
 Number of Splices: 0
 Patch Type: Multimode 62.5
 Patch Length1 (ft): 3.3
 Patch Length2 (ft): 3.3
 Patch Length3 (ft): 1.0

Propagation Delay (ns) 1101
 Length (ft), Limit 6561.7 726.4 PASS

Direction	Remote->Main	Remote->Main
Wavelength (nm)	850	1300
Result	PASS	PASS
Loss (dB)	1.52	0.90
Loss Limit (dB)	2.27	1.83
Loss Margin (dB)	0.75	0.93
Reference (dBm)	-20.69	-20.58
09/07/2006 09:18:56am		
Method B		

Direction	Main->Remote	Main->Remote
Wavelength (nm)	850	1300
Result	PASS	PASS
Loss (dB)	1.63	0.85
Loss Limit (dB)	2.27	1.83
Loss Margin (dB)	0.64	0.98
Reference (dBm)	-19.60	-19.56
09/07/2006 09:18:56am		
Method B		

Near End Adapter S/N: 8742009
 Calibration Date: 12/13/2005 06:55:20pm

Far End Adapter S/N: 8742010
 Calibration Date: 12/13/2005 07:07:50pm

Compliant Network Standards:		
FDDI	10BASE-FL	100BASE-FX
1000BASE-SX	1000BASE-LX	10GBASE-LX4
TokenRing 4 Fiber Optic	ATM 52 Fiber Optic	ATM 155 Fiber Optic
ATM 155SWL Fiber Optic	ATM 622 Fiber Optic	ATM 622SWL Fiber Optic
Fibre Channel 133	Fibre Channel 266	Fibre Channel 266SWL