

CAT6 U/UTP 23AWG 4 Pair Copper Lan Cable

Model No: PFT-6

Application

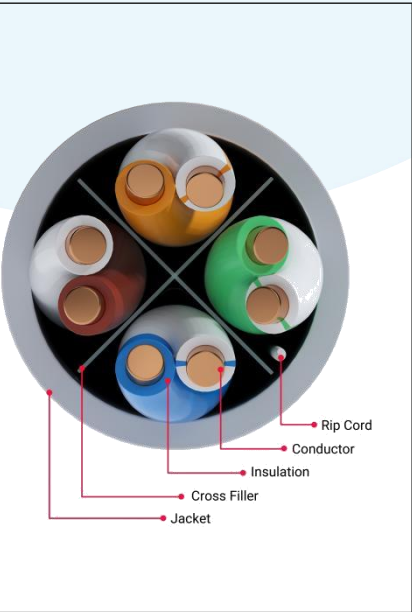
IEEE 802.3:1000BASE-T,100BASE-TX,10BASE-T
IEEE 802.5: 4/6Mbps Token Ring
ANSI X3.263: 1000 Mb/s
Gigabit Ethernet

Standard Compliance

TIA /EIA-568-B.2 -1
ISO/IEC 11801
EN50173



Construction Characteristics ▼

Conductor	Material	Bare copper	
	AWG	23	
	Diameter(±0.01mm)	0.57	
Insulation	Material	HD-PE	
	Average Thickness(mm)	0.22	
	Diameter(±0.02mm)	1.01	
	Min.Point Thickness(mm)	0.20	
Jacket	Material	PVC	
	Outer Diameter (±0.2mm)	6.20	
	Min Thickness (±0.1mm)	0.55	
	AVG.Thickness (mm)	0.60	
	Rip Cord	Nylon	
	Color	Blue RAL 5015	

Wire Color:

- A.Blue, White-Blue
- B.Orange, White-Orange
- C.Green, White-Green
- D.Brown, White-Brown

Physical & Electrical Properties

Impedance(ohms): 100 ± 15
Rated Temperature°C: 75
Delay Skew(ns/100m): <=45
DC Resistance 20°C: 9.8
Insulation Resistance: >5000MΩ*Km
Dielectric Strength: DC 2500V 2S

Pair-to-Ground Capacitance Unbalance (pF/100m): <=330
Max. Conductor DC Resistance 20°C(ohms/km): 72.2
Resistance Unbalance (%) : <=5

Mechanical Characteristics

Test Object: Jacket

Test Material: PVC

Before Tensile Strength (Mpa): >=13.8

Aging Elongation (%): >=100

Aging Condition (°Cxhrs): 100×168

After Tensile Strength (Mpa): >=85% of unaged

Aging Elongation (%): >=50% of unaged

Cold Bend(-20±2°Cx4hrs): No crack

Bending Radius: ≥ 4*OD (without load)

Temperature Range: -40°C ~ 75°C

during operation: -20°C-75°C

during installation: -0°C--60°C

Voltage Rating: 30V

Performance ▼

Frequency	Return loss	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFEXT	Delay Max
(MHz)	(Min dB)	Max (dB/100m)	(Min dB)	Min (dB)	Min (dB/100m)	Min (dB/100m)	(ns/100m)
1	20.0	2.0	65.3	62.3	63.8	60.8	570.0
4	23.0	4.1	56.3	53.3	51.7	48.7	552.0
8	24.5	5.8	51.8	48.8	45.7	42.7	546.7
16	26.0	8.2	47.3	44.3	39.7	36.7	543.0
20	26.5	9.3	45.8	42.8	37.7	34.7	542.0
62.5	25.0	17.0	38.4	35.4	27.8	24.8	538.6
100	25.0	17.0	38.4	32.3	23.8	20.8	537.6
200	18.0	32.4	30.8	27.8	17.7	14.7	536.5
250	17.3	36.9	29.3	26.3	15.8	12.8	536.3

Packing ▼

-Inner Box: 305M/Box

-Outer Box: 2 Boxes in Brown Carton

-Approx.Weight (KG): 24

-Approx. Dimension(CM): 48*38*38

Jacket Color ▼





Cable ID: FYTEC CAT6

Date / Time: 04/29/2024 22:50:40

Headroom 3.0 dB (NEXT 12-45)

Test Limit: TIA Cat 6 Channel

Cable Type: Cat 6 U/UTP

NVP: 69.0%

Operator: Your Name

Software Version: 2.7800

Limits Version: 1.9500

Calibration Date:

Main (Tester): 07/12/2016

Remote (Tester): 07/12/2016

Test Summary: PASS

Model: DTX-1800

Main S/N: 8923015

Remote S/N: 8923016

Main Adapter: DTX-CHA002

Remote Adapter: DTX-CHA002

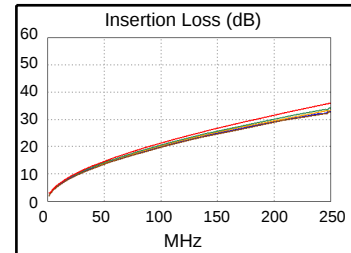
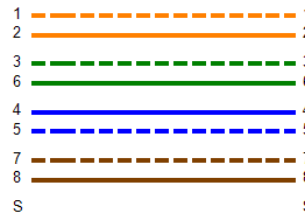
Length (m), Limit 100.0	[Pair 78]	100.7
Prop. Delay (ns), Limit 555	[Pair 36]	504
Delay Skew (ns), Limit 50	[Pair 36]	17
Resistance (ohms)	[Pair 78]	15.0
Insertion Loss Margin (dB)	[Pair 36]	1.7
Frequency (MHz)	[Pair 36]	249.0
Limit (dB)	[Pair 36]	35.9



100.7 m

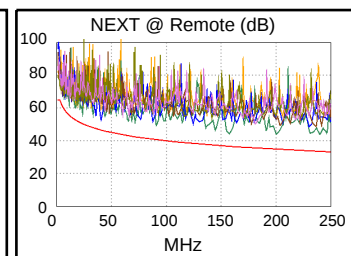
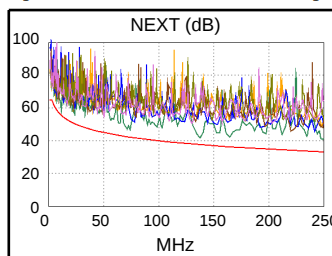


Wire Map (T568B)
PASS

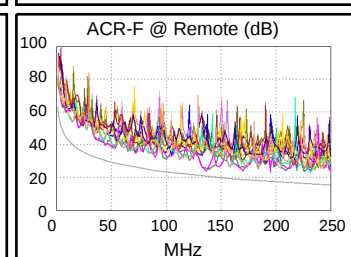
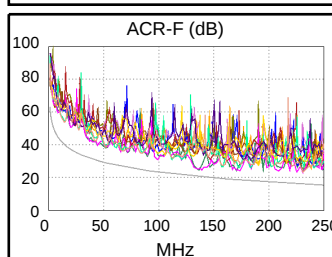


Worst Case Margin Worst Case Value

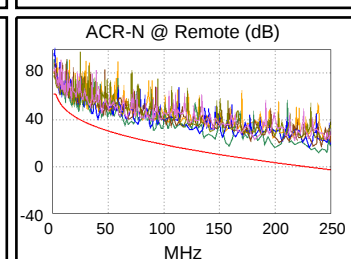
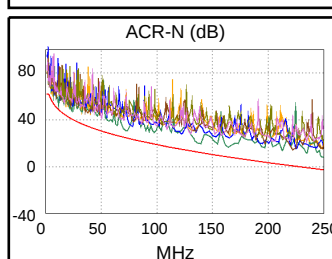
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-45	12-45	12-45	12-45
NEXT (dB)	3.0	5.9	7.8	6.4
Freq. (MHz)	11.6	23.4	249.0	158.5
Limit (dB)	55.5	50.5	33.1	36.5
Worst Pair	45	36	45	12
PS NEXT (dB)	5.1	7.0	9.9	9.0
Freq. (MHz)	11.6	5.0	249.0	158.5
Limit (dB)	52.9	59.0	30.2	33.6



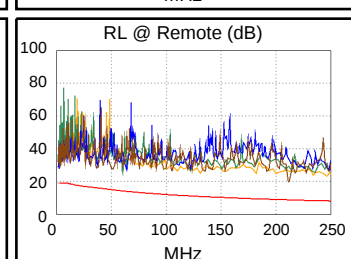
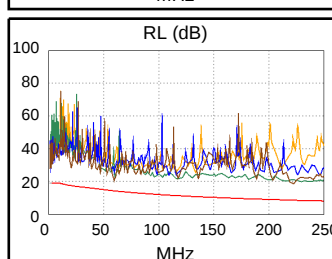
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-45	45-12	45-12	12-45
ACR-F (dB)	3.8	3.2	5.5	6.0
Freq. (MHz)	136.0	136.0	227.0	226.5
Limit (dB)	20.6	20.6	16.1	16.2
Worst Pair	45	12	45	12
PS ACR-F (dB)	6.5	6.6	7.3	7.9
Freq. (MHz)	136.0	136.0	231.0	231.0
Limit (dB)	17.6	17.6	13.0	13.0



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-45	12-45	12-45	12-45
ACR-N (dB)	3.6	6.7	10.7	13.4
Freq. (MHz)	11.6	23.4	250.0	240.0
Limit (dB)	48.7	40.7	-2.8	-1.7
Worst Pair	45	36	12	12
PS ACR-N (dB)	5.7	7.4	12.6	16.0
Freq. (MHz)	11.6	5.0	250.0	246.0
Limit (dB)	46.1	54.5	-5.8	-5.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	78	78
RL (dB)	6.1	11.1	9.7	11.1
Freq. (MHz)	59.8	211.5	221.0	211.5
Limit (dB)	14.2	8.7	8.6	8.7



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	