

Outdoor CAT5E FTP 24AWG 4 Pair Lan Cable

Model No: NFT-5EX

Application

IEEE 802.3:1000BASE-T,100BASE-TX,10BASE-T

IEEE 802.5: 4/6Mbps Token Ring

ANSI X3.263: 100 Mb/s

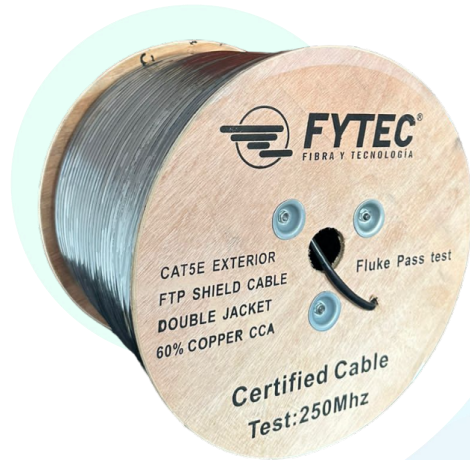
Gigabit Ethernet

Standard Compliance

ANSI/TIA 568-B

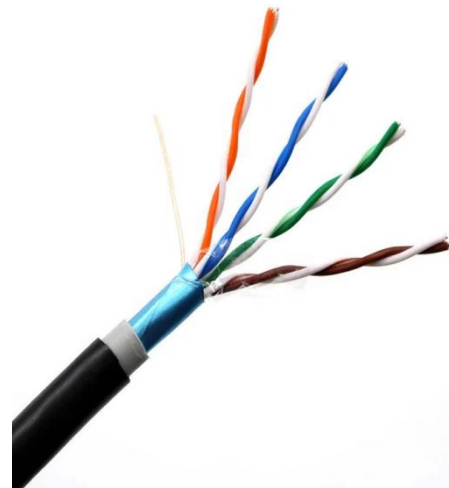
ISO/IEC 11801

ANSI/TIA/EIA-568-B



Construction Characteristics ▼

Conductor	Material	CCA
	AWG	24
	Diameter($\pm 0.01\text{mm}$)	0.50
Insulation	Material	HD-PE
	Average Thickness(mm)	0.21
	Diameter($\pm 0.02\text{mm}$)	1.02
	Min.Point Thickness(mm)	0.19
Jacket	Material	PVC+PE
	Outer Diameter ($\pm 0.2\text{mm}$)	6.10
	Min Thickness ($\pm 0.1\text{mm}$)	0.55
	AVG.Thickness (mm)	0.58
	Color	Black RAL 9017
Rip Cord	Material	Nylon
Mylar	Material	PE
Cross filler	Material	PE
Shielded	Material	AL-Foil
Drain wire	Material	0.40mm CCA



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 Pair-to-Ground Capacitance Unbalance (pF/100m): ≤ 330
Rated Temperature°C: 75 Max. Conductor DC Resistance 20°C (ohms/km): 93.8
Delay Skew(ns/100m): ≤ 45 Resistance Unbalance(%) : ≤ 5
DC Resistance 20°C: 22
Insulation Resistance: $>5000\text{M}\Omega\cdot\text{Km}$
Dielectric Strength: DC 2500V 2S

Mechanical Characteristics

Test Object: Jacket Bending Radius: $\geq 4\cdot\text{OD}$ (without load)
Test Material: PE Temperature Range: -40°C ~ 75°C
Before Tensile Strength (Mpa): ≥ 13.8 during operation: -20°C-75°C
Aging Elongation (%): ≥ 100 during installation: -0°C--60°C
Aging Condition (°C×hrs): 100×168 Delay Skew: ≤ 45
After Tensile Strength (Mpa): $\geq 85\%$ of unaged
Aging Elongation (%): $\geq 50\%$ of unaged
Cold Bend(-20±2°C×4hrs): No crack

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)
0.772	19.4	1.8	67.0	64.0	66.0	63.0	575.0
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
10	25.0	6.5	50.3	47.3	43.8	40.8	545.4
16	25.0	8.2	47.3	44.3	39.7	36.7	543.0
20	25.0	9.3	45.8	42.8	37.7	34.7	542.0
25	24.3	10.4	44.3	41.3	35.8	32.8	541.0
31.25	23.6	11.7	42.9	39.9	33.9	30.9	540.4
62.5	21.5	17.0	38.4	35.4	27.8	24.8	538.6
100	20.1	22.0	35.3	32.3	23.8	20.8	537.6

Packing ▼

- Wooden Reel 305 Meter,2 reel/carton
- Approx.Weight (KG): 21.5
- Approx. Dimension(CM): 57.5*29.5*25

Jacket Color ▼

		
RAL 5015	RAL 3020	RAL 1023
		
RAL 7036	RAL 1016	RAL 9017
		
RAL 6024	RAL 4005	RAL 9003



Cable ID: FYTEC CAT5E FTP

Date / Time: 04/29/2024 21:35:42

Headroom 8.2 dB (NEXT 12-78)

Test Limit: TIA Cat 5e Channel

Cable Type: Cat 5e 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

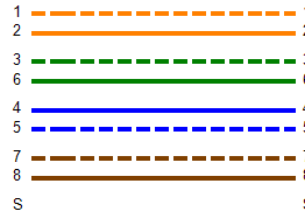
Length (m), Limit 100.0	[Pair 78]	50.1
Prop. Delay (ns), Limit 555	[Pair 45]	247
Delay Skew (ns), Limit 50	[Pair 45]	5
Resistance (ohms)	[Pair 78]	25.4
Insertion Loss Margin (dB)	[Pair 45]	8.5
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	24.0



50.1 m

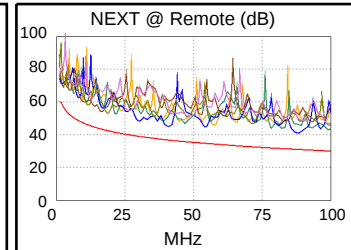
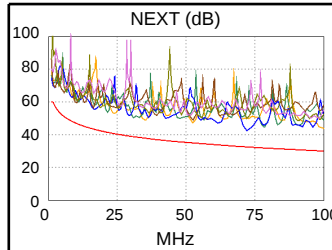


Wire Map (T568B)
PASS

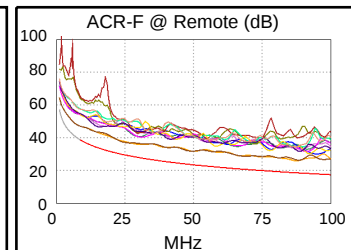
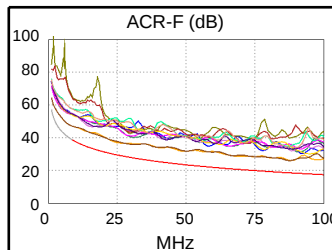


Worst Case Margin Worst Case Value

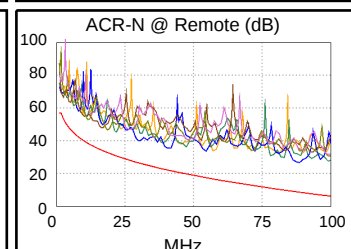
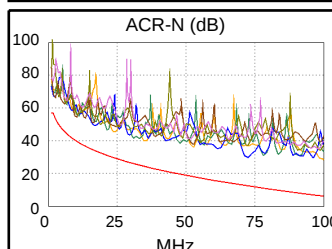
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-78	12-78	12-78
NEXT (dB)	10.0	8.2	10.0	9.9
Freq. (MHz)	1.6	40.8	72.0	88.0
Limit (dB)	59.9	36.8	32.5	31.0
Worst Pair	12	12	12	12
PS NEXT (dB)	9.7	9.5	13.5	11.5
Freq. (MHz)	1.6	39.5	91.8	88.5
Limit (dB)	56.9	34.0	27.7	28.0



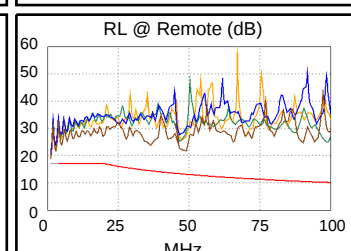
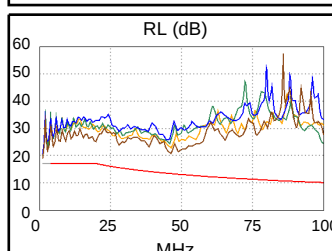
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	36-12	12-36
ACR-F (dB)	7.2	7.1	7.3	7.1
Freq. (MHz)	1.0	1.0	87.3	87.5
Limit (dB)	57.4	57.4	18.6	18.6
Worst Pair	12	12	12	12
PS ACR-F (dB)	9.0	9.0	9.5	9.2
Freq. (MHz)	1.3	1.0	88.0	88.3
Limit (dB)	52.5	54.4	15.5	15.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	36-45	12-36	12-78
ACR-N (dB)	11.0	12.3	22.2	18.1
Freq. (MHz)	1.8	2.1	100.0	88.5
Limit (dB)	56.4	54.8	6.1	8.5
Worst Pair	12	12	12	12
PS ACR-N (dB)	10.8	11.5	21.9	19.7
Freq. (MHz)	1.6	1.6	91.8	88.5
Limit (dB)	53.9	53.9	4.8	5.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	78	78
RL (dB)	6.2	6.9	7.3	8.2
Freq. (MHz)	4.9	4.9	46.3	47.0
Limit (dB)	17.0	17.0	13.4	13.3



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	