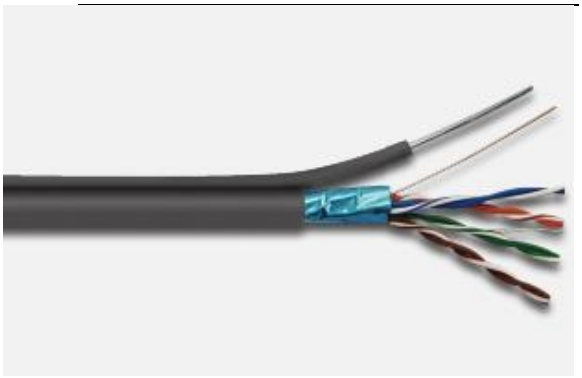
STABLE
CABLING SYSTEM

CAT5e Outdoor Shielded FTP Cable W/Messenger

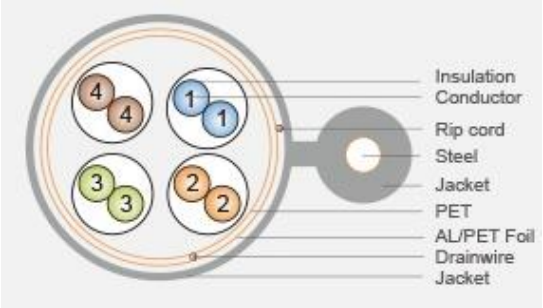
24AWG · 4 Twisted Pairs · Solid Copper · F/UTP · 200 MHz · 10Gbps upto 20m tested



Key Features:

- ✓ UV resistant PE Jacket designed to withstand sunlight, snow and ice
- ✓ Perfect for above ground applications
- ✓ Built-in steel messenger makes this cable ideal for aerial applications
- ✓ Suitable for gigabit speeds –2.5Gbps up to 100m, Suitable for 10Gbps up to 20m
- ✓ In compliance with ANSI/TIA 568.2-D
- ✓ Supports PoE and PoE+ (IEEE 802.3af/at) upto 30W and 300V DC
- ✓ Installation temperature: -30°C - +50°C

Technical Data:

Category	F/UTP CAT5e – 4P-PVC			
Test Standard	ISO/IEC 11801, TIA-568			
Conductor	Material	Solid Bare copper		
	Nom. O.D (mm)	0.51 ± 0.005		
Insulation	Material	HDPE		
	Diameter	1.00 ± 0.03 mm		
Sheath	Thickness	0.55 ± 0.05 mm	Sheath Physical Properties	Before Aging: Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 350
	External O.D.	(6.4/2.6) ±0.4 mm		
	Surface	Clean, Frap, Satiation		Aging Period (°C x hrs): 100 °C x 24hrs x 7d
	Material	HDPE		After Aging: Elongation (%) ≥ 300
	Color	Black		Cold bend (20 ± 2 °C x4h) 8xcable O.D. No visible cracks
Surface Printing	Letter height	3.0 ± 0.3 mm	Electrical Characteristics (20 °C)	1.0 – 100.0MHz: Impedance (Ω) 100 ± 15
	Color	White		1.0 – 100.0MHz: Delay Skew (ns/100m) ≤ 45
	Print Error & Space	≤ ±0.5%, 1 mm		NVP: 69%
Core Color	1 White-Blue /Blue	2 White-Orange /Orange		Capacitance (nF/100m) max: 5.6
	3 White-Green /Green	4 White-Brown /Brown		DC Resistance (Ω/100m) max: 9.5
Packing	Wooden Tray			DC Conductor Resistance Unbalance (%) max: 5.0
Carton Dimension	35cm x 35cm x 20cm			
Packing Lenght	(500 ± 1.5)m			
Rip Cord	Yes			
Drain Wire	0.45mmTC			

Technical Performance (100m):

Frequency (MHz)	**Return Loss** ≥dB	**Attenuation** ≤dB	**NEXT** ≥dB	**Phase Delay** ≤ns
1	20.0	2.0	65.3	570.00
4	23.0	4.1	56.3	552.00
8	24.5	5.8	51.8	516.73
10	25.0	6.5	50.3	545.38
16	25.0	8.2	47.2	543.00
20	25.0	9.3	45.8	542.05
25	24.3	10.4	44.3	541.2
31.25	23.6	11.7	42.9	540.44
62.5	21.5	17.0	38.4	538.55
100	20.1	22.0	35.3	537.60
200	18.00	32.4	30.8	536.50

Frequency (MHz)	**PSNEXT** ≥dB	**ELFEXT** ≥dB	**PSELFEXT** ≥dB
1	62.3	63.8	60.8
4	53.3	51.8	48.8
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.4	39.7	36.7
20	42.8	37.8	34.8
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.9	24.9
100	32.3	23.8	20.8
200	27.8	17.7	14.7

STABLE

CABLING SYSTEM

LINKWARE™PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: CAT5E-STAND

Test Limit: TIA Cat 5e Perm. Link
Limits Version: 1.9500
Date / Time: 04/13/2021 09:15:28 AM
Operator: M.G.G
Headroom 6.5 dB (NEXT 1,2-7,8)
Cable Type: Cat 5e F/UTP
NVP: 69.0%

Main: DTX CableAnalyzer
S/N: 8991028
Software Version: 2.7800
Calibration Date: 02/14/2017
Adapter: DTX-PLA002
S/N: MC4T52L

Test Summary: PASS

Remote: DTX CableAnalyzer
S/N: 8991027
Software Version: 2.7800

Adapter: DTX-PLA002
S/N: MC4T50L

Length (ft), Limit 295	[Pair 7,8]	284
Prop. Delay (ns), Limit 498	[Pair 3,6]	444
Delay Skew (ns), Limit 44	[Pair 3,6]	25
Resistance (ohms)	[Pair 3,6]	15.9
Insertion Loss Margin (dB)	[Pair 3,6]	4.5
Frequency (MHz)	[Pair 3,6]	100.0
Limit (dB)	[Pair 3,6]	21.0

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	1,2-7,8	1,2-4,5
NEXT (dB)	7.3	6.5	8.8	12.6
Freq. (MHz)	35.5	8.8	98.0	99.0
Limit (dB)	39.6	49.4	32.4	32.4
Worst Pair	7,8	1,2	1,2	1,2
PS NEXT (dB)	9.2	8.9	9.8	12.4
Freq. (MHz)	35.5	8.8	98.3	85.5
Limit (dB)	36.6	46.4	29.4	30.4

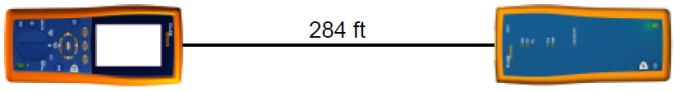
PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	7,8-4,5	1,2-3,6
ACR-F (dB)	17.7	17.5	21.2	22.5
Freq. (MHz)	4.4	4.4	99.3	99.8
Limit (dB)	45.8	45.8	18.7	18.6
Worst Pair	1,2	1,2	4,5	7,8
PS ACR-F (dB)	18.4	18.4	22.3	22.6
Freq. (MHz)	1.6	1.8	99.0	99.3
Limit (dB)	51.4	50.8	15.7	15.7

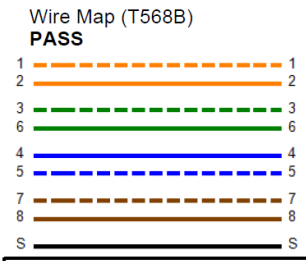
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-7,8	1,2-7,8	1,2-4,5
ACR-N (dB)	9.5	8.0	14.6	17.0
Freq. (MHz)	8.6	8.8	98.0	99.0
Limit (dB)	43.8	43.6	11.7	11.5
Worst Pair	7,8	1,2	1,2	4,5
PS ACR-N (dB)	11.5	10.1	14.6	18.3
Freq. (MHz)	5.1	8.8	98.3	99.0
Limit (dB)	45.7	40.6	8.7	8.5

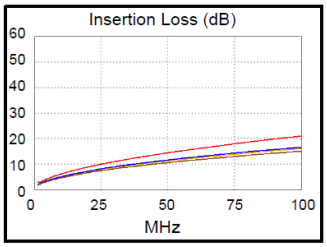
PASS	MAIN	SR	MAIN	SR
Worst Pair	7,8	7,8	7,8	1,2
RL (dB)	3.6	3.4	7.0	6.0
Freq. (MHz)	4.0	7.6	80.8	65.3
Limit (dB)	19.0	19.0	12.9	13.9

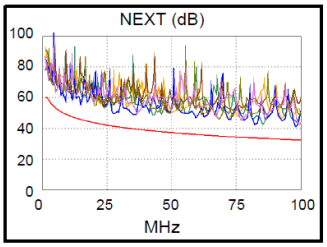
Compliant Network Standards:

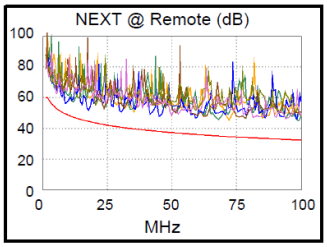
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	ATM-25
ATM-51	ATM-155	100VG-AnyLan
TR-4	TR-16 Active	TR-16 Passive

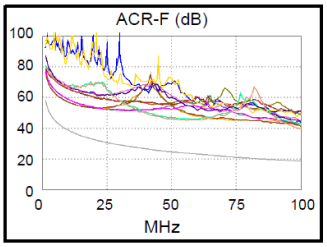


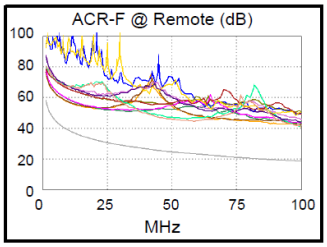


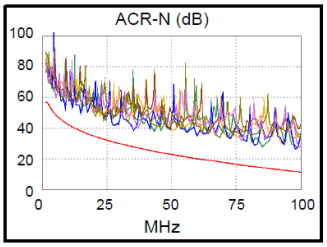


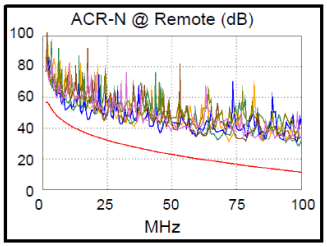


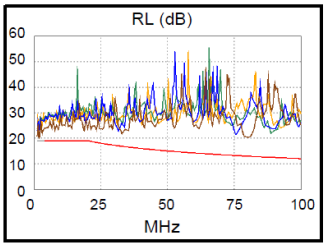


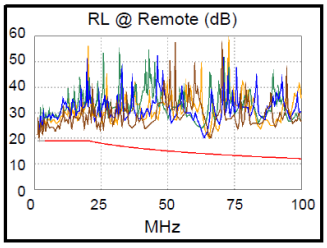












LinkWare™ PC Version 10.7