



Description

24 AWG Shielded Plenum Twisted Pair, High-Performance Data Cable

Applicable Standards

- ETL Listed Type CMP
- C(ETL) listed CMP FT6
- ETL Verified to TIA - 568-C.2, and ISO/IEC 11801
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4,
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

Physical Characteristics

Number of Conductor Pairs	4
Size	24 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Al Foil Shield
Rip Cord	Yes
Insulation Material	FEP
Insulation Overall Diameter	0.0374 in. ± 0.001 in.
Insulation Average Thickness	0.0086 in.
Jacket	Flame Retardant PVC
Outer Jacket Average Wall Thickness	0.020 in.
Outer Jacket Nom. O.D.	0.233 in.
Nominal Weight	29 lbs.

Mechanical Characteristics

Temperature Rating	Installation	0 to + 60°C
	Operating	-20°C to + 75°C
Min. Ben Radius		2.2 in.
Max. Pulling Force		25 lbs
Tensile Strength	Before	> = 13.8 Mpa
Elongation	Aging	> = 100%
Aging Condition		100°C x 168 hours
	After	> = 85% of unaged
	Aging	> = 50% of unaged

Color Code

Pair 1	White/Blue	Blue
Pair 2	White/Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

Cable Marking

ETL VERIFIED CAT5E TO TIA-568C.2 XXXXXX 24AWG 4PR FTP
CMP C(ETL)US CAT5E SWEPT TO 350MHZ ****FT

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	Min.
1	2.0	20.0	68.3	66.3
4	4.1	23.0	59.3	57.3
8	5.8	24.5	54.8	52.8
10	6.5	25.0	53.3	51.3
16	8.2	25.0	50.3	48.3
20	9.3	25.0	48.8	46.8
25	10.4	24.3	47.3	45.3
31.25	11.7	23.6	45.9	43.6
62.5	17.0	21.5	41.4	39.4
100	22.0	20.1	38.3	36.3
155	28.1	18.8	35.5	33.5
200	32.4	18.0	33.8	31.8
240	36.0	17.4	32.6	30.6
300	41.0	16.8	31.2	29.2
350	44.9	16.3	30.1	28.1
Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Delay (ns/100m)	
	Min.	Min.	Max.	
1	63.8	60.8	570.0	
4	51.7	48.7	552.0	
8	45.7	42.7	546.7	
10	43.8	40.8	545.4	
16	39.7	36.7	543.0	
20	37.8	34.8	542.0	
25	35.8	32.8	541.2	
31.25	33.9	30.9	540.4	
62.5	27.8	24.8	538.6	
100	24.0	21.0	537.6	
155	20.0	17.0		
200	17.7	14.7		
240	16.2	13.2		
300	14.2	11.2		
350	12.9	9.9		

* Values above 100MHz are information only

Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	9.38 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Maximum Pair-to-Pair Ground Capacitance Unbalance	330 pF / 100 Meters
Characteristic Impedance (1 ~ 350 MHz)	100 ± 15 Ω
Mutual Capacitance	5.6 nF / 100 Meters
Maximum Delay Skew	40 nS / 100 Meters

Part Numbers

Part Numbers	Color	Put-up
	Blue	1,000' Reel in Box
	White	1,000' Reel in Box