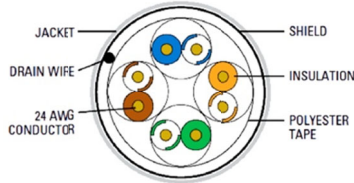


Category 5E 350MHz FTP Plenum (CMP) Cable



Product Specification

Cable Detail



Description

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

Applicable Standards

- ETL Listed CMP
- C(ETL) listed CMP FT6
- ETL Verified to TIA-568-C.2
- 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

Conductor Material	Solid Annealed Bare Copper
Number of Conductor Pairs	4
Size	24 AWG
Stranding	Solid
Insulation Material	FEP
Overall Diameter	0.0374 in. ± 0.0001 in
Average Thickness	0.0086 in
Jacket Material	Flame Retardant PVC
Average Wall Thickness	0.020 in.
Nominal Outer Diameter	0.233 in.
Nominal Weight	29 lbs.
Shield Material	Al Foil Shield
Ripcord	Yes

Mechanical Characteristics

Temperature Rating	Installation	0°C 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%
		100°C x 168 hours
	After	>= 85% of unaged
Aging Condition	Aging	>= 50% of unaged

Insulation Colors

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

Part Numbers

Jacket Color

Package

C5E-931xx

Blue, White

1000FT / RIB

Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	9.38 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Max. 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
Max. Delay Skew	40 nS / 100 Meters

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) 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
250	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) Min.	PS-ELFEXT (dB) Min.	Delay (ns/100m) 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	
250	16.2	13.2	
300	14.2	11.2	
350	12.9	9.9	

* Values above 100MHz are information only.

Cable Marking

CATEGORY 5E 350MHZ TO 24AWG 4 PR FTP XXXXXXXX CMP C(ETL)US TO TIA-568-C.2 ****FT