Category 6A FTP 10G Plenum (CMP) Cable

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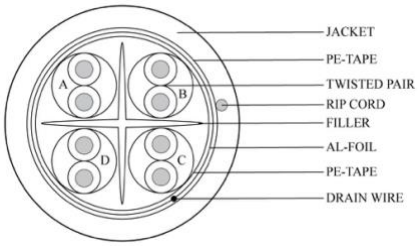
Cable Detail



Description

23 AWG CAT 6A 4-Pairs FTP CMR, High-Performance Data Cable

Applicable Standards

- ETL Listed Type CMP
- C(ETL) listed FT6
- ANSI/TIA-568-C.2
- ISO/IEC 11801
- RoHS Compliant
- ATM 155 Mbps
- 10/100/1000/10G Base-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps TP-PMD
- ISDN, ADSL
- ATM LAN 1.2G
- Horizontal Distribution & Backbone Cabling

TIA 568-C.2

Physical Characteristics

Conductor Material	Solid Bare Copper
Number of Conductor Pairs	4
Size	23 AWG
Shield Material	Aluminum Tape
Insulation Material	FEP
Overall Diameter	0.041 in
Jacket Material	Plenum Rated PVC
Jacket Diameter	0.3153 in.
Spacer Thickness	0.0393 in.
Outer Sheath Thickness	0.0177 in.
Nominal Weight	53 lbs.
Ripcord	Yes

Mechanical Characteristics

Temperature Rating	Installation	0°C to + 60°C
	Operating	-20°C to + 80°C
Tensile Strength	Before	>= 13.8 Mpa
Elongation	Aging	>= 100%
Aging Condition		100°C x 168 hours
	After	>= 85% of unaged
	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
6A04FPBL2	Blue	1000FT / Reel

Electrical Characteristics

Maximum 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	≤ 45 nS / 100 Meters

Electrical Performance

Frequency (MHz)	**Attenuation** (dB/100m) Max.	**Return loss** (dB) Min.	**NEXT** (dB) Min.	**PS-NEXT** (dB) Min.
1	2.1	20.0	74.3	72.3
4	3.8	23.0	65.3	63.3
8	5.3	24.5	60.8	58.8
10	5.9	25.0	59.3	57.3
16	7.5	25.0	56.2	54.2
20	8.4	25.0	54.8	52.8
25	9.4	24.3	53.3	51.3
31.25	10.5	23.6	51.9	49.9
62.5	15.0	21.5	47.4	45.4
100	19.1	20.1	44.3	42.3
200	27.6	18.0	39.8	37.8
250	31.1	17.3	38.3	36.3
300	34.3	16.8	37.1	35.1
400	40.1	15.9	35.3	33.3
500	45.3	15.2	33.8	31.8

Frequency (MHz)	**ELFEXT** (dB/100m) Min.	**PS-ELFEXT** (dB) Min.	**PS-ANEXT** (dB/100m)	**PS-AELFEXT** (dB/100m)
1	67.8	64.8	67.0	67.0
4	55.8	52.8	67.0	66.2
8	49.7	46.7	67.0	60.1
10	47.8	44.8	67.0	56.2
16	43.7	40.7	67.0	54.1
20	41.8	38.8	67.0	52.2
25	39.8	36.8	67.0	50.2
31.25	37.9	34.9	67.0	48.3
62.5	31.9	28.9	65.6	42.3
100	27.8	24.8	62.5	38.2
200	21.8	18.8	58.0	32.2
250	19.8	16.8	56.5	30.2
300	18.3	15.3	55.3	28.7
400	15.8	12.8	53.5	26.2
500	13.8	10.8	52.0	24.2

* Values above provided are for information only.

Cable Marking

XXXXXX 23AWG 4 PR FTP CMP FT6 75C C(ETL)US VERIFIED CATEGORY 6A 10GIG ANSI/TIA-568-C.2 ****FT