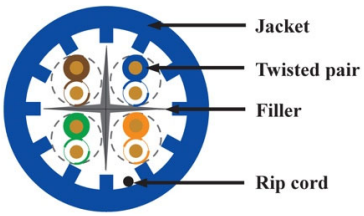
Category 6A UTP 10G Riser (CMR) Cable

Cable Detail



Description

23 AWG CAT6A CMR, High-Performance Data Cable

Applicable Standards

- UL Verified Type CMR
- C(UL) listed FT4
- 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

VERIFIED TIA 568-C.2

Physical Characteristics

Conductor Material	Solid Annealed Bare Copper
Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Insulation Material	HDPE
Overall Diameter	0.04 in. ± 0.0002 in
Average Thickness	0.0086 in
Jacket Material	Flame Retardant PVC
Average Wall Thickness	0.022 in.
Nominal Outer Diameter	0.3 in. ± 0.008 in.
Nominal Weight	38 lbs.
Shield Material	Unshielded
Ripcord	Yes

Mechanical Characteristics

Temperature Rating	Installation	0°C to + 60°C
	Operating	-20°C to + 75°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
6A04URXX2	Blue, White, Green, Grey, Yellow, Red	1000FT / Reel

Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	6.85 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
Nominal Velocity of Propagation	65%

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.08	20.00	74.30	72.30
4	3.80	23.01	65.27	63.27
8	5.31	24.52	60.75	58.75
10	5.93	25.00	59.30	57.30
16	7.49	25.00	56.24	54.24
20	8.38	25.00	54.78	52.78
25	9.38	24.32	53.33	51.33
31.25	10.50	23.64	51.88	49.88
62.5	14.99	21.54	47.36	45.36
100	19.14	20.11	44.30	42.30
200	27.58	18.00	39.78	37.78
250	31.07	17.32	38.33	36.33
300	34.27	16.77	37.14	35.14
400	40.05	15.89	35.27	33.27
500	45.26	15.21	33.82	31.82
600	50.05	14.66	32.63	30.63
625	51.20	14.54	32.36	30.36
650	52.33	14.42	32.11	30.11
700	54.53	14.19	31.62	29.62
750	56.68	13.98	31.17	29.17

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	PS-ANEXT (dB/100m)	PS-AELFEXT (dB/100m)
1	67.80	64.80	67.00	67.00
4	55.76	52.76	67.00	66.16
8	49.74	46.74	67.00	60.14
10	47.80	44.80	67.00	58.20
16	43.72	40.72	67.00	54.12
20	41.78	38.78	67.00	52.18
25	39.84	36.84	67.00	50.24
31.25	37.90	34.90	67.00	48.30
62.5	31.88	28.88	65.56	42.28
100	27.80	24.80	62.50	38.20
200	21.78	18.78	57.98	32.18
250	19.84	16.84	56.53	30.24
300	18.26	15.26	55.34	28.66
400	15.76	12.76	53.47	26.16
500	13.82	10.82	52.02	24.22
600	12.24	9.24	50.83	22.64
625	11.88	8.88	50.56	22.28
650	11.54	8.54	50.31	21.94
700	10.90	7.90	49.82	21.30
750	10.30	7.30	49.37	20.70

*Values above are for reference only.

Cable Marking

EXXXXXXX 23AWG 4 PR UTP CMR 75C FT4 C(UL)US VERIFIED (UL) CATEGORY 6A ANSI/TIA-568.C.2 ****FT

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