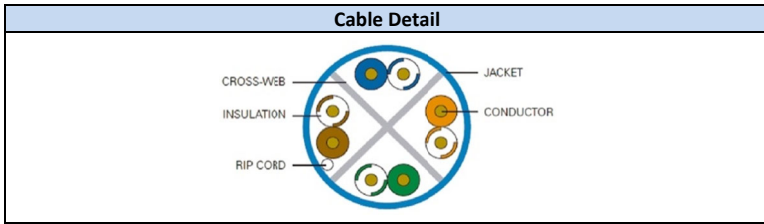


Category 6E 600MHz UTP Riser (CMR) Cable



Description

23 AWG Cat 6E CMR, High-Performance Data Cable

Applicable Standards

- UTP CAT6, 23 AWG 4 Pair w/ HDPE Insulation & Flame-Retardant PVC Jacket
- UL Listed Type CMR
- C(UL) listed CMG FT4
- TIA/EIA-568-C.2, UL 1666 CMR RATED
- IEC 61156 AND ANSI/TIA-568-C.2
- 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	23 AWG
Stranding	Solid
Insulation Material	Polyethylene
Overall Diameter	0.040 in. ± 0.0002 in
Average Thickness	0.0088 in
Jacket Material	Flame Retardant PVC
Average Wall Thickness	0.023 in.
Nominal Outer Diameter	0.244 in. ± 0.008 in.
Nominal Weight	30 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
	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
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6E04URXX3	Black, Blue, Green, Grey, Red, White, Yellow	1000FT / RIB
6E04URXX4	Black, Blue, Green, Grey, Red, White, Yellow	1000FT / Reelex II

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
NVP Nominal Velocity Propagation	0.7

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.0	20.0	77.3	75.3
4	3.8	23.6	68.3	66.3
8	5.3	25.4	63.8	61.8
10	5.9	26.0	62.3	30.3
16	7.4	26.0	59.3	57.3
20	8.3	26.0	57.8	55.8
25	9.3	25.5	56.3	54.3
31.25	10.4	25.0	54.9	52.9
62.5	14.9	23.5	50.4	48.4
100	19.0	22.5	47.3	45.3
155	23.9	21.6	45.8	43.5
200	27.4	21.0	42.8	40.8
250	30.8	20.5	41.3	39.3
300	34.0	20.1	40.2	38.2
350	37.0	19.8	39.2	37.2
400	39.7	19.5	38.3	36.3
450	42.1	19.2	37.5	35.5
500	44.9	19.0	36.8	34.8
550	47.3	18.8	36.2	34.2
600	50.7	15.7	44.2	42.2

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	ACR (dB) Min.	PS-ACR (dB) Min.
1	70.8	67.8	75.0	73.0
4	58.7	55.7	64.0	62.0
8	52.7	49.7	57.7	55.7
10	50.8	47.8	55.6	53.6
16	46.7	43.7	50.7	48.7
20	44.7	41.7	48.2	16.2
25	42.8	39.8	45.6	13.6
31.25	40.9	37.9	42.8	40.8
62.5	34.8	31.8	32.9	30.9
100	30.8	27.8	24.9	22.9
155	27.0	23.6	21.0	21.5
200	24.7	21.7	18.4	16.4
250	22.8	19.8	13.5	11.5
300	21.2	18.2	9.6	5.0
350	19.9	16.9	5.2	3.2
400	18.7	15.7	1.5	-
450	17.7	14.7	-	-
500	16.8	13.8	-	-
550	15.9	12.9	-	-
600	N/A	N/A	N/A	N/A

* Values above 250MHz are information only.

Cable Marking

EXXXXXX 23AWG 4 PR UTP CMR C(UL)US 75C FT4 C(ETL)US FT4
TESTED TO 600 MHz CATEGORY 6E ANSI/TIA-568C.2 ETL VERIFIED TO
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