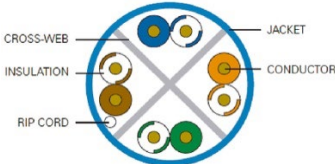


Category 6E 600MHz UTP Plenum (CMP) Cable

Cable Detail			
			
Description			
23 AWG Cat 6E CMP, High-Performance Data Cable			
Applicable Standards			
• UTP CAT6, 23 AWG x 4 Pair w/HDPE Insulation & Flame-Retardant PVC Jacket • UL Listed Type CMP • C(UL) listed FT6 • ETL Listed Type CMP • TIA/EIA-568-C.2, UL 1666 CMP 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	28 lbs. (RIB) / 31 lbs. (Reelex II)	
	Shield Material	Shielded	
	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
6E04UPXX3		Black, Blue, Green, Grey, Red, White, Yellow, Orange	1000FT / RIB
6E04UPXX4		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 CATEGORY 6E 600MHZ 23AWG 4 PR UTP CMP 75C FT6
C(UL)US VERIFIED (ETL) CAT6 ANSI/TIA-568-C.2 ****FT