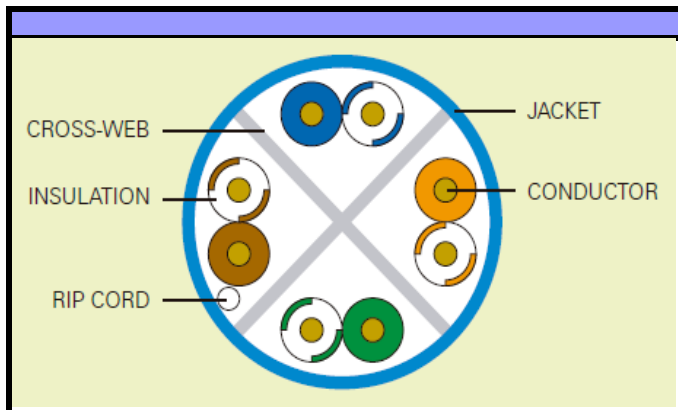


# Category 6 Enhanced UTP Plenum Cable



### Description

**23 AWG Cat6E Plenum, High-Performance Data Cable**

### Applicable Standards

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

Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	Polymer Alloy(FEP)
Insulation Overall Diameter	0.038 in. ± 0.0002 in.
Insulation Average Thickness	0.0078 in.
Jacket	Flame Retardant PVC
Outer Jacket Average Wall Thickness	0.020 in.
Outer Jacket Nominal O.D.	0.236 in. ± 0.008 in.
Nominal Weight	31 lbs.

### Mechanical Characteristics

Temperature Rating	Installation	0 to +60°C
	Operating	-20°C to +75°C
Tensile Strength	Before	> = 13.8 Mpa
	Aging	> = 100%
Elongation	Before	> = 100%
	Aging	> = 100%
Aging Condition	100°C x 168 hours	
	After	> = 85% of unaged
Voltage Rating	After	> = 50% of unaged
		300V

### Color Code

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

### Cable Marking

XXXXXX CATEGORY 6E 600MHZ 23AWG 4 PR UTP CMP 75C  
FT6 C(UL)US VERIFIED (ETL) CAT6 ANSI/TIA-568-C.2 \*\*\*\*FT

### Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	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

Frequency (MHz)	ELFEXT (Min. dB)	PS-ELFEXT (Min. dB)	ACR (Min. dB)	PS-ACR (Min. dB)
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	-	-

\* Values above 250MHz are information only

### Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	9.38 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	5%
Maximum Pair-to-Pair Ground Capacitance Unbalance	330 pF / 100 Meters
Characteristic Impedance	100 ± 15 Ω
Mutual Capacitance	5.6 nF / 100 Meters
Maximum Delay Skew	40 nS / 100 Meters

### Part Numbers

Part Numbers	Color	Put-up
	Black	1,000' RIB
	Blue	1,000' RIB
	Green	1,000' RIB
	Grey	1,000' RIB
	Red	1,000' RIB
	White	1,000' RIB
	Yellow	1,000' RIB