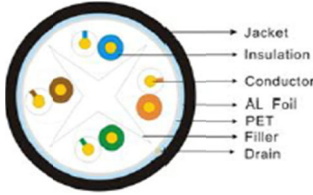


# Category 6E 600MHz FTP Riser (CMR) Cable

### Cable Detail



### Description

23 AWG Shielded Twisted Pair, High-Performance Data Cable

### Applicable Standards

- ETL Listed CMR Type FTP
- (ETL) listed FT4 FTP
- 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

Conductor Material	Solid Annealed Bare Copper
Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Insulation Material	Polyethylene
Overall Diameter	0.045 in. ± 0.0002 in
Average Thickness	0.0106 in
Jacket Material	Flame Retardant PVC
Average Wall Thickness	0.0236 in.
Nominal Outer Diameter	0.2992 in. ± 0.008 in.
Nominal Weight	38 lbs.
Shield Material	Al Foil Shield
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%
		100°C x 168 hours
	After	≥ 85% of unaged
Aging Condition	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

Black, Blue, Green, Grey, Red, White, Yellow

1000FT / Spool

### Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	9.38 Ω / 100 Meters
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	2.03	20.0	74.3	72.3
4	3.87	23.0	65.3	63.3
10	5.95	25.0	59.3	57.3
16	7.55	25.0	56.2	54.2
20	8.47	25.0	54.8	52.8
25	9.51	24.3	53.3	51.3
31.25	10.67	23.6	51.9	49.9
62.5	15.38	21.5	50.4	45.4
100	19.80	20.1	47.4	51.3
200	28.98	18.0	44.3	37.8
250	32.85	17.3	39.8	36.3
300	34.00	20.1	38.3	38.2
350	37.00	19.8	40.2	37.2
400	39.70	19.5	38.3	36.3
450	42.10	19.2	37.5	35.5
500	44.90	19.0	36.8	34.8
550	47.30	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.	Delay (ns/100m) Max.	ACR (dB)
1	67.80	64.80	570.00	72.70
4	55.76	52.76	552.00	61.40
10	47.80	44.80	545.38	53.35
16	43.72	40.72	543.00	48.69
20	41.78	38.78	542.05	46.31
25	39.84	36.84	541.20	43.82
31.25	37.90	34.90	540.44	41.21
62.5	31.88	28.88	538.55	31.98
100	27.80	24.80	537.60	24.50
200	21.78	18.78	536.55	10.80
250	19.84	16.84	536.28	5.40
300	21.20	18.20	-	-
350	19.90	16.90	-	-
400	18.70	15.70	-	-
450	17.70	14.70	-	-
500	16.80	13.80	-	-
550	15.90	12.90	-	-
600	N/A	N/A	N/A	N/A

\* Values above 250MHz are information only.

### Cable Marking

CATEGORY 6E 600MHZ 23AWG 4 PR FTP XXXXXX CMR C(ETL)US ETL LISTED & VERIFIED TO TIA- 568-C.2 \*\*\*\*FT