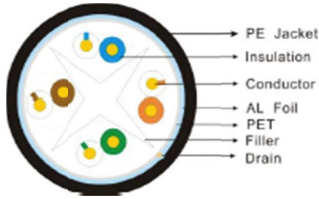


# Category 6E 600MHz FTP

## Direct Burial Shielded Outdoor Cable

### Cable Detail



### Description

23 AWG Direct Burial Shielded Outdoor, High-Performance Data Cable

### Applicable Standards

- Meets or exceeds 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	HDPE
Overall Diameter	0.040 in. ± 0.0002 in
Average Thickness	0.0088 in
Jacket Material	LDPE
Average Wall Thickness	0.023 in.
Nominal Outer Diameter	0.296 in. ± 0.008 in.
Nominal Weight	38 lbs.
Shield Material	Al Foil Shield
Ripcord	Yes

### Mechanical Characteristics

Temperature Rating	Installation	-40°C to + 75°C
	Operating	-40°C to + 75°C
Tensile Strength	Before	≥ 19 Mpa
Elongation	Aging	≥ 300%
		100°C x 96 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

**6ESOSPBK2**

Black

1000FT / Reel

### Electrical Characteristics

Max. Conductor DC Resistance @ 20°C	9.5 Ω / 100 Meters
Maximum DC Resistance Unbalanced @ 20°C	≤ 2.5%
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	20.00	74.30	72.30
4	3.78	23.01	65.27	63.27
10	5.95	25.00	59.30	57.30
16	7.55	25.00	56.24	54.24
20	8.47	25.00	54.78	52.78
25	9.51	24.32	53.33	51.33
31.25	10.67	23.64	51.88	49.88
62.5	15.38	21.54	47.36	45.36
100	19.80	20.11	44.30	51.30
200	28.98	18.00	39.78	37.78
250	32.85	17.32	38.33	36.33
350	39.79	16.30	36.14	34.14
550	51.76	14.92	33.19	31.19
600	50.7	15.7	36.2	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
350	16.92	13.92	535.92	-3.65
550	12.99	9.99	535.54	-18.57
600	N/A	N/A	N/A	N/A

\* Values above 250MHz are information only.

### Cable Marking

CATEGORY 6E 600MHZ 23AWG 4 PR FTP UV RATED OUTDOOR DIRECT BURIAL \*\*\*\*FT