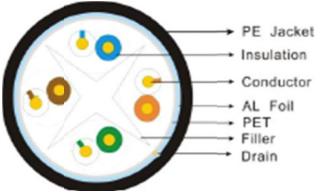



Category 6E 600MHz FTP

Direct Burial Shielded Outdoor Cable

Product Specification

Cable Detail			
			
Description			
23 AWG Direct Burial Shielded Outdoor, High-Performance Data Cable			
Applicable Standards			
<ul style="list-style-type: none"> • 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	
Aging Condition	Elongation	Aging	≥ 300%
			100°C x 96 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	
C6-018BK	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