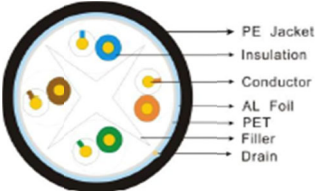



Category 6E 600MHz FTP

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
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
Jacket Color		Package
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