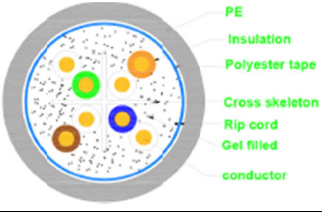



Category 6E 600MHz UTP

Direct Burial Outdoor (Gel Filled) Cable

Product Specification

Cable Detail		
		
Description		
23 AWG High-Performance Cable		
Applicable Standards		
<ul style="list-style-type: none"> • ETL Verified to TIA/EIA 568-B.2, UL 444, 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	BC Copper	
Number of Conductor Pairs	4	
Size	23 AWG	
Conductor Diameter	0.570 ± 0.003 mm	
Stranding	Solid	
Insulation Material	HDPE	
Overall Diameter	1.070/1.090 ± 0.005	
Average Thickness	0.270-0.250mm	
Jacket Material	PE (UV)	
Average Wall Thickness	0.8 ± 0.03 mm	
Nominal Outer Diameter	7.0 ± 0.5 mm	
Shield Material	Unshielded	
Ripcord	Yes	
Sheath color, wall thickness, flame retardant grade according to your needs		
Mechanical Characteristics		
Temperature Rating	Installation	-40°C to + 60°C
	Operating	-40°C to + 60°C
Tensile Strength	Before	>= 19 Mpa
Elongation	Aging	>= 300%
		100°C x 96 hours
Aging Condition	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
C6-017BK	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	2.0	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
600	50.7	15.7	44.2	42.2

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	ACR (dB) Min.	PS-ACR (dB) Min.
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	-	-
600	N/A	N/A	N/A	N/A

* Values above 250MHz are information only.

Cable Marking

CATEGORY 6E 600MHZ 23AWG 4PR UTP UV RATED OUTDOOR DIRECT BURIAL GEL FILLED *****FT