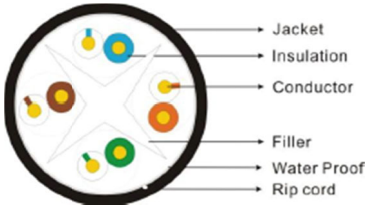



Category 6E 600MHz UTP

Direct Burial Outdoor (Waterblock Tape) Cable

Product Specification

Cable Detail		
		
Description		
23 AWG Direct Burial Outdoor, High-Performance 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	
UV Rated	Sunlight Resistant	
Average Wall Thickness	0.031 in.	
Nominal Outer Diameter	0.318 in. ± 0.008 in.	
Nominal Weight	30 lbs.	
Shield Material	Unshielded	
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	≥ 300%
	Aging	100°C x 96 hours
		After
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
C6-007BK	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
Nom. Velocity of Propagation	70%

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	36.20	31.19
600	54.50	18.80	37.60	35.60
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	15.90	12.90	17.20	14.20

* Values above 250MHz are information only.

Cable Marking

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