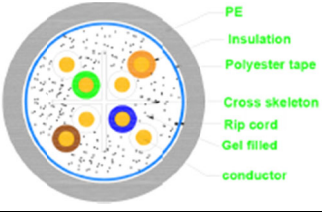



# Category 6E 600MHz UTP Direct Burial Outdoor (Gel Filled) Cable

Cable Detail			
			
Description			
23 AWG High-Performance Cable			
Applicable Standards			
<ul style="list-style-type: none"> <li>• ETL Verified to TIA/EIA 568-B.2, UL 444, and ISO/IEC 11801</li> <li>• RoHS Compliant</li> <li>• ATM 155 Mbps</li> <li>• Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4</li> <li>• 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)</li> <li>• 16 Mbps Token Ring™ (IEEE 802.5)</li> </ul>			
			
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	
<b>6EOSPGBK2N</b>	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