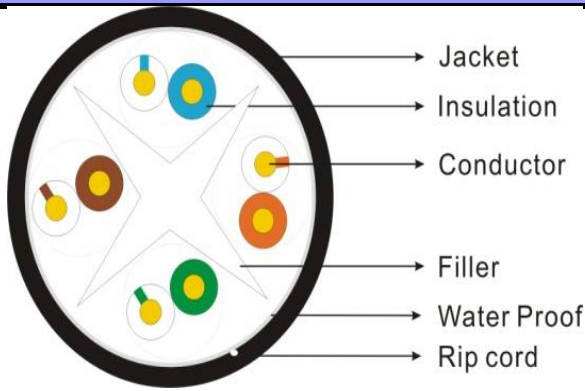


Category 6E Direct Burial Outdoor Cable



Description

23 AWG Direct Burial Outdoor High Performance Cable

Applicable Standards

- 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

Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	HDPE
Insulation Overall Diameter	0.040 in. ± 0.0002 in.
Insulation Average Thickness	0.0088 in.
Jacket	LDPE
Outer Jacket Average Wall Thickness	0.031 in
Outer Jacket Nom. O.D.	0.318 in. ± 0.008 in.
Nominal Weight	30 lbs.

Mechanical Characteristics

Temperature Rating	Installation	-40° to + 75°C
	Operating	-40° to + 75°C
Tensile Strength	Before	≥ 19 Mpa
Elongation	Aging	≥ 300%
Aging Condition		100°C x 96 hours
	After	≥ 80% of unaged
	Aging	≥ 50% of unaged

Color Code

Pair 1	White/Blue	Blue
Pair 2	White/Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

Cable Marking

XXXXXXXX-X CATEGORY 6E 600MHZ 23AWG 4PR UTP UV RATED
OUTDOOR DIRECT BURIAL XXXXFT

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	Min.
1	2.03	20.00	74.30	72.30
4	3.87	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)	PS-ELFEXT (dB/100m)	Delay (ns/100m)	ACR (dB)
	Min.	Min.	Max.	
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	5.48
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

Electrical Characteristics

Maximum Conductor DC Resistance @ 20°C	≤ 9.5 Ω/100 Meters
Maximum DC Resistance Unbalanced @ 20°C	≤ 2.5%
Maximum Pair-to-Pair Ground Capacitance Unbalanced	≤ 330 pF/100 Meters
Characteristic Impedance (1 ~ 350 MHz)	100 ± 15 Ω
Mutual Capacitance	≤ 5.6 nF/100 Meters
Maximum Delay Skew	≤ 45 nS/100 Meters
Nom. Velocity of Propagation	70%

Part Numbers

Part #	Color	Put-up
6EOSP BK -2	Black	1,000' Reel