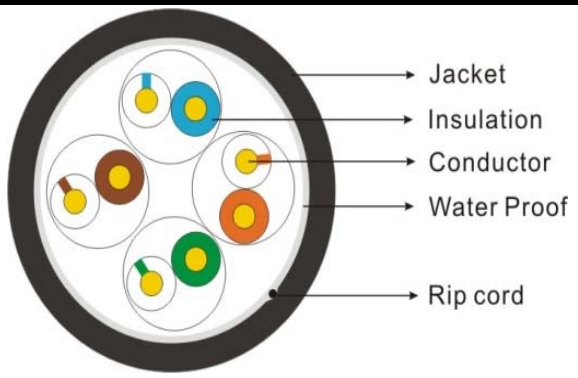
Category 5E Direct Burial Outdoor Cable



Description

24 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	24 AWG
Stranding	Solid
Conductor Material	Solid Annealed Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	HDPE
Insulation Overall Diameter	0.0341 in. ± 0.0002 in.
Insulation Average Thickness	0.0078 in.
Jacket	LDPE (UV)
Flammability Test	IEC-332-1
Outer Jacket Average Wall Thickness	0.020 in.
Outer Jacket Nom. O.D.	0.205 in. ± 0.008 in.
Nominal Weight	25 lbs.

Mechanical Characteristics

Temperature Rating	Installation	-40° to + 75°C
	Operating	-40° to + 75°C
Tensile Strenth	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

XXXXXX CATEGORY 5E 350MHz 24AWG 4PR UTP UV RATED OUTDOOR DIRECT BURIAL ****FT

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB)	NEXT (dB)	PS-NEXT (dB)
	Max.	Min.	Min.	Min.
1	2.04	20.00	65.30	61.00
4	4.05	23.01	56.27	48.96
10	6.47	25.00	50.30	41.00
16	8.25	25.00	47.24	36.92
20	9.27	25.00	45.78	34.98
25	10.42	24.32	44.33	33.04
31.25	11.72	23.64	42.88	31.10
62.5	16.99	21.54	38.36	25.08
100	21.98	20.11	35.30	21.00
350	44.85	16.30	27.14	10.12

Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Delay (ns/100m)	ACR (dB)
	Min.	Min.	Max.	
1	64.00	61.00	570.00	63.26
4	51.96	48.96	552.00	52.22
10	44.00	41.00	545.38	43.83
16	39.92	36.92	543.00	38.99
20	37.98	34.98	542.05	36.52
25	36.04	33.04	541.20	33.91
31.25	34.10	31.10	540.44	31.16
62.5	28.08	25.08	538.55	21.37
100	24.00	21.00	537.60	13.33
350	13.12	10.12	535.92	

* Values above 100MHz 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 Unbalance	≤ 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

Part Numbers

Part Number	Color	Put- up	
	Black	1,000'	Reel