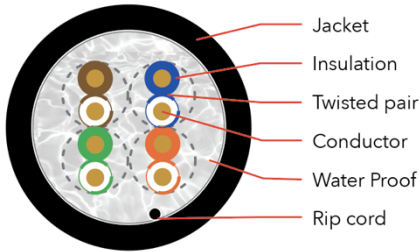


CAT 5E 350MHz UTP CABLE

DIRECT BURIAL OUTDOOR (WATERBLOCK PE)

Cable Detail



Applicable Standards

- UL444 (Mechanical Properties only)
- TIA-568-C.2
- RoHS Compliant



Physical Characteristics

Conductor Material	Solid Bare Copper
Number of Conductors	4
AWG	24 AWG
Stranding	Solid
Fill Type	WaterBlock
Insulation Material	HDPE
Insulation Overall Diameter	0.0341 in. $\pm$ 0.0002 in
Insulation Average Thickness	0.0078 in
Jacket Material	LLDPE, Sunlight Resistant
Average Wall Thickness	0.020 in.
Nominal Outer Diameter	0.205 in. $\pm$ 0.008 in
Nominal Weight	22 lbs.
Shielding (Y/N)	No
Ripcord (Y/N)	Yes
Separator (Y/N)	No

Mechanical Characteristics

Temperature Range	Installation	0°C to + 75°C
	Operating	-20°C to + 75°C
Tensile Strength	Before	$\geq$ 19 Mpa
Elongation	Aging	$\geq$ 300%
Aging Condition		100°C x 96 hours
	After	$\geq$ 85% of unaged
	Aging	$\geq$ 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
5EOSPBK2	Black	1000FT / Reel

Electrical Characteristics

DC Resistance	9.38 Ω / 100m Max. @ 20°C
Resistance Unbalanced	5% Max. @ 20°C
Capacitance Unbalance	330 pF / 100m Max. @ 20°C
Mutual Capacitance	5.6 nF / 100m Max. @ 20°C
Delay Skew	45 nS / 100m Max. @ 20°C
Nominal Velocity of Propagation (NVP)	69%

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.04	20.00	65.30	61.00
4	4.05	23.01	56.27	48.96
10	6.47	25.0	50.30	41.00
16	8.25	25.0	47.24	36.92
20	9.27	25.0	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) Min.	PS-ELFEXT (dB) Min.	Delay (ns/100m) Max.	ACR (dB)
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	21.47
100	24.00	21.00	537.60	13.33
350	13.12	10.12	535.92	-

* Values above 100MHz are information only.

Cable Marking

CATEGORY 5E 350MHZ 24AWG 4PR UTP DIRECT BURIAL OUTDOOR
WATERBLOCK TIA-568-C.2 ****FT

