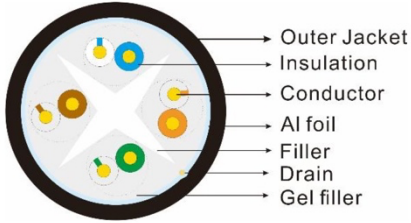


CAT 6 600MHz FTP UV RATED CABLE

OUTDOOR DB (GEL FILLED) WATER PROOF

Cable Detail



Applicable Standards

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



Physical Characteristics

Conductor Material	BC - Bare Copper
Number of Conductors	4
AWG	23 AWG
Conductor Standard	0.570 ± 0.005mm
Fill Type	GEL
Insulation Material	HDPE
Twisting (Lay Length)	30mm underneath
Cabling (Lay Length)	200mm underneath
Jacket Material	LDPE
Average Wall Thickness	0.6 ± 0.05mm
Nominal Outer Diameter	7.8 ± 0.5mm
Nominal Weight	lbs.
Shielding	Al foil / 25*0.065mm
Drain	TC-Bare Copper / 0.40 ± 0.01mm
Separator (Y/N)	Yes

Mechanical Characteristics

Temperature Range	Installation	0°C to + 75°C
	Operating	-20°C to + 75°C
Tensile Strength	Before	>= 19 Mpa
Elongation	Aging	>= 300%
Cold Bend	No Crack	-20 ± 2°C x 4 hours
Aging Condition		100°C x 96 hours
	After	>= 85% of unaged
	Aging	>= 50% of unaged

Insulation Colors

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

Part Numbers	Jacket Color	Package
6ESOSPGBK2N	Black	1000FT / Reel

Electrical Characteristics

1.0-100.0MHz Impedance (ohms)	100 ± 15
100-250MHz Impedance (ohms)	100 ± 22
1.0-250.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C(ohms/km)	<=75
Resistance Unbalance (%)	<=5

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	33.19	31.19
600	50.7	15.7	36.2	42.2
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	N/A	N/A	N/A	N/A

* Values above 250MHz are information only.

Cable Marking

CATEGORY 6 600MHZ 23AWG 4PR FTP UV RATED OUTDOOR DIRECT BURIAL GEL FILLED *****T

