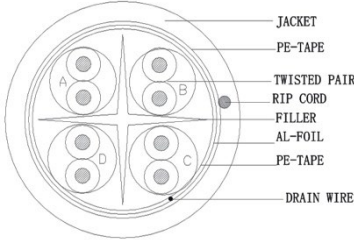


CAT 6A FTP SHIELDED CABLE 23/4 DIRECT BURIAL OUTDOOR



Cable Detail



Applicable Standards

- Horizontal Wiring in LAN
- UL444 (Mechanical Properties only), TIA-568-C.2 & ISO/IEC 1180
- RoHS Compliant



Physical Characteristics

Conductor Material	Solid Bare Copper
Number of Conductors	4
Conductor Diameter	0.585 mm
AWG	23 AWG
Stranding	Solid
Insulation Material	HDPE
Insulation Diameter	1.08 mm ± 0.03 mm
Twisted Pair Diameter	2.16 mm ± 0.02 mm
Average Thickness	0.267 mm
Min. Point Thickness	0.240 mm
PE-TAPE	Overlapping rate ≥ 15%
Al-Foil (Shielding)	Overlapping rate ≥ 25%
Drain Wire	0.4 mm TC
Jacket Material	LLDPE
Average Thickness	0.60 mm
Min. Point Thickness	0.5 mm
Outer Diameter	7.80 mm ± 0.3 mm
Assembly Diameter	7 mm ± 0.2 mm
Ripcord (Y/N)	Yes
Separator (Y/N)	Yes

Mechanical Characteristics

Temperature Range	Installation	0°C to +75°C
	Operating	-40°C to +75°C
Tensile Strength	Before	≥ 10.8 Mpa
Elongation	Aging	≥ 200%
		100°C x 168 hours
	After	≥ 85% of unaged
Aging Condition	Aging	≥ 50% of unaged
	Cold Bend	(-40±20Cx4hrs) No Crack

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
	Black	1000FT / Reel

Electrical Characteristics

1.0 - 250.0 MHz Impedance	100 ± 15 Ω
250.0 - 550.0 MHz Impedance	100 ± 20 Ω
Pair-to-Ground Capacitance Unbalance	330 pF / 100m Max. @ 20°C
Delay Skew	45 nS / 100m Max. @ 20°C
DC Resistance	9.5 Ω / 100m Max. @ 20°C
Resistance Unbalanced	5% Max. @ 20°C

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m) Max.	Return loss (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.1	20.0	75.3	72.3
4	3.8	23.0	66.3	63.3
8	5.3	24.5	61.8	58.8
10	5.9	25.0	60.3	57.3
16	7.5	25.0	57.2	54.2
20	8.4	25.0	55.8	52.8
25	9.4	25.0	54.3	51.3
31.25	10.5	25.0	52.9	49.9
62.5	15.0	24.3	48.4	45.4
100	15.0	23.6	45.3	42.3
200	19.1	20.1	40.8	37.8
250	27.6	18.0	38.1	36.6
300	31.1	15.6	39.3	35.1
400	34.3	16.8	38.1	31.5
500	40.1	15.2	34.8	31.5
625	51.2	14.5	32.4	30.4
750	56.7	14.0	31.2	29.2

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	PS-ANEXT (dB/100m)	PS-AELFEXT (dB/100m)
1	68.0	65.0	67.0	67.0
4	56.0	53.0	67.0	66.2
8	49.9	46.9	67.0	60.1
10	48.0	45.00	67.0	58.2
16	43.9	40.9	67.0	54.1
20	42.0	40.9	67.0	52.2
25	40.0	39.0	67.0	50.2
31.25	38.1	37.0	67.0	48.3
62.5	32.1	35.1	65.6	42.3
100	32.1	29.1	62.5	38.2
200	28.0	25.0	58.0	32.2
250	22.0	19.0	56.5	30.2
300	20.0	17.0	55.3	28.7
400	18.5	15.5	53.5	26.2
500	14.0	11.0	52.0	24.2
625	-	-	-	-
750	-	-	-	-

* Values above provided are for information only.

Cable Marking To Be Determined (TBD)

