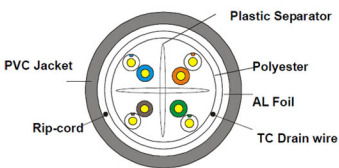


CAT6 F/UTP 4Pairs PVC/LSZH Cable



FEATURES

- 23 AWG conductor - solid bare copper cable
- PVC, LSZH and PE options
- Supplied in 305m boxes or 500 reels
- Printed metre marks

DIAGRAM & DESCRIPTION

OPTiLite Category 6 Foiled Twisted Pair (FTP) cable is produced using 4x2x23 AWG copper to a class E standard. An aluminium tape is used to shield all 4 pairs; this gives a screened protection against external interference such as EMI. Capable of supporting protocol's up to 250 MHz for horizontal and backbone installations.

Sheath Printing	It will be printed as customer's requirement with batch produce.					
Category	FTP/CAT6-4P-PVC/LSZH					
Test Standard	ISO/IEC11801, TIA/EIA 568B, EN 50173, YD/T1019-2001					
Conductor	Material	SOLID-Bare Copper				
	Nom.O.D.(mm)	0.565	<table border="1"> <tr> <td>up</td> <td>+0.005</td> </tr> <tr> <td>down</td> <td>-0.005</td> </tr> </table>	up	+0.005	down
up	+0.005					
down	-0.005					
Insulation	Material	HDPE				
	Diameter	1.08 ± 0.02 mm				
Separator	Plastic Separator	Drain wire	0.45mmTC			
Shielded	AL Foil					
Sheath	Thickness	0.60 ± 0.05 mm				
	External O.D.	7.4±0.4 mm				
	Surface	Clean, Frap, Satiation				
	Material	PVC/LSZH				
Surface Printing	Color	Multiple				
	Letter height	3.0±0.3mm				
	Color	Black				
Core Color	Print error & Space	≤±0.5%, 1m				
	Blue, White-Blue	Orange, White-Orange				
Packing	Green, White-Green	Brown, White-Brown				
	Plywood drum, pallet					
Carton Dimension	37*25*16cm					
Packing length	305±1.5m					
Rip-cord	Yes					
Sheath Physical Properties (C1038)	Before Aging Tensile Strength (Mpa)	≥13.5				
	Elongation (%)	≥150				
	Aging Period (°C×hrs)	100°C×24h×7d				
	After Aging Tensile Strength (Mpa)	≥12.5				
Sheath Physical Properties (C1238)	Elongation (%)	≥125				
	Cold bend (-20±2°C×4h), No visible cracks					
	Before Aging Tensile Strength (Mpa)	≥10.0				
	Elongation (%)	≥125				
Electrical Characteristics (20°C)	Aging Period (°C×hrs)	100°C×24h×7d				
	After Aging Tensile Strength (Mpa)	≥8				
	Elongation (%)	≥100				
	Cold bend (-20±2°C×4h), No visible cracks					
Electrical Characteristics (20°C)	1.0-250.0MHz, Characteristic impedance (Ω) 100±15					
	1.0-250.0MHz, Delay Shew 20 °C(ns/100m) ≤ 45					
	Capacitance unbalance to earth (pf/100m) max 330					
	DC Resistance 20 °C (Ω/100m) max 9.5					
	DC Conductor Resistance Unbalance (%)max 5.0					

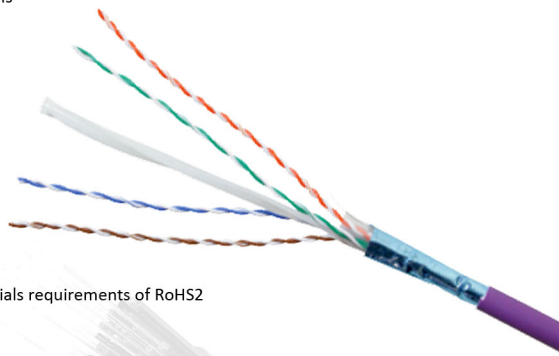
TRANSMISSION PERFORMANCE (20°C, 100M)							
Frequency (MHz)	Attenuation (dB/100m)	ReturnLoss (dB)	Next (dB)	PS-NEXT (dB)	ELFEXT	PS-ELFEXT (dB/100m)	Propagation Delay (ns/100m)
1.0	1.9	20.0	74.0	72.3	68.0	65.0	570.0
4.0	3.7	23.0	65.0	63.3	56.0	53.0	552.0
8.0	5.3	24.5	60.7	48.8	49.9	46.9	546.73
10.0	5.9	25.0	59.0	57.3	48.0	45.0	545.38
16.0	7.5	25.0	56.0	54.2	43.9	40.9	543.0
20.0	8.4	25.0	55.0	52.8	42.0	39.0	542.05
25.0	9.5	24.3	53.3	41.3	40.0	37.0	541.2
31.25	10.6	23.6	52.0	49.9	38.1	35.1	540.44
62.5	15.4	21.5	47.0	45.4	32.1	29.1	538.55
100.0	19.8	20.1	44.0	42.3	28.0	25.0	537.6
200.0	29.0	18.0	40.0	37.8	22.0	19.0	536.54
250.0	32.8	17.3	38.0	36.3	20.0	17.0	536.27

Applications

- Supports category 6 (class E) networks running up to 250 MHz applications
- Backwards compatible with category 5e distribution systems
- Horizontal and backbone installations
- 10 Base T (IEEE 802.3)
- 100 Base T (IEEE 802.3U)
- 1000 Base T (IEEE 802.3ab)
- 100 VG any LAN (IEEE 802.12)
- Token ring (IEEE 805.5)

Conformance

- Category 6
- ANSI/EIA/TIA 568B.2 : 2002
- ISO/IEC 11801 : 2002
- This product conforms to the materials requirements of RoHS2
- REACH
- ETL/UL approved



System Warranty:

The OPTiLite Cabling System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited OPTiLite Partner who has designed, supplied and installed the said system.

