



Construction

Conductor	23AWG Solid Copper
Insulation	Polyethylene
Assembly	Two twisted insulated conductors forming a pair
General assembly	4 twisted pairs wired together Star-shaped central filler
Outer sheath	Halogen-free compound Standard colour: Violet

Technical characteristics

Outer diameter	6.2 ± 0.3mm
Operating T^a	Fixed installation: -20°C to +75°C During installation: 0°C to +60°C
Velocity of propagation	69%
Min. bending radius	Fixed: 4 x D During installation: 8 x D
Weight	4.10 Kg/100m

Application

The UTP Cat6 structured cabling system allows a generic telecommunications infrastructure to be set up within a building, creating a local area network (LAN). Category 6 is described in the TIA/EIA 568B.2-1, ISO/IEC 11801 and EN 50173-1 standards and can work at speeds of up to 1000Mbps within an Ethernet environment, and can also carry other signals such as basic telephony, TokenRing and ATM services. Designed for transmission at frequencies up to 250MHz. The complete Cat6 UTP cabling system includes LSHF cable, female modules, 24 or 48 port panels, 50 port telephone panels, management panels, and multicolored, customizable hoses. With star-shaped center fill to maintain and increase cable performance.

Typical applications: 155 Mbps ATM, 100BASE-TX Fast Ethernet, 622 Mbps ATM, 1000BASE-T Gigabit Ethernet, Composite Video.

Standards / Properties

Ref. standard for drawing	TIA/EIA 568-B.2-1, EN50173-1, ISO/IEC 11801
Flame Retardant	IEC 60332-1-[1,2] (2004-07), IEC 60754-(1,2)
Halogen free	UNE-EN 60754 (IEC 60754)
Low smoke emission	EN50399, IEC 61034-(1,2)
CPR Classification (Euroclass)	EN 50575:2014 A1:2016 Dca s2,d2,a1



Cabling System Elements

Code	Description
14650021	Cable UTP Cat6 LSHF (305 MTS) color violet
14650158	Cable UTP Cat6 LSHF (305 MTS) color white
14650018	Module Keystone UTP Cat6 White
14650036	Module Keystone UTP Cat6 Black, type AMP
2014650008	Patch Panel UTP Cat6 24 ports
14650000	Patch Panel 19 50p RJ45 telephone
14650002	Horizontal Ordering Panel
14650019	Patch cord UTP Cat6 1 mts grey
14650017	Patch cord UTP Cat6 2 mts grey
14650020	Patch cord UTP Cat6 3 mts grey
14650033	Pacth cord UTP Cat6 5 mts grey

Colour Table

N° de PAIR	Conductor A	Conductor B
1	Blue	White/Blue
2	Orange	White/Orange
3	Green	White/Green
4	Brown	White/Brown

Electrical Data

Frec.(MHz)	IL (dB)	*NEXT	RL(**)	ACR-F(**)	PSNEXT(**)	PS ACR-F(*)
1	2.8	66.0	20	66	65	64
4	3.8	66.3	23	56	63.3	53
10	6	60.3	25	48	57.3	45
16	7.6	57.2	25	43.9	54.3	40.9
20	8.5	55.8	25	42	52.8	39
31.25	10.7	52.9	23.6	38.1	49.9	35.1
62.5	15.5	48.4	21.5	32.1	45.4	29.1
100	19.9	45.3	20.1	28	42.3	25
200	29.1	40.8	18	22	37.8	19
250	33	39.3	17.3	20	36.3	17

Unities: * = dB / ** = dB/100m

Frec.(MHz) Frequency
 IL (dB) Insertion Loss
 RL(**) Return loss
 ACR-F(**)
 PSNEXT(**)
 PS ACR-F(*)