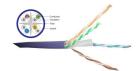
Cabling system UTP Cat.6 Communication cables





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 ± 0.3 mm

Operating Ta Fixed installation: -20°C to +75°C

During installation: 0°C to +60°C

69% Velocity of propagation

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















Code: **Family:** 1465 Revision: Date: 13/07/2018 Realized:

Approved:

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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 Ordening 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(*)

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