Cabling System FTP Cat.6
Communitaction cables

Construction

Conductor	23AWG solid bare copper
Insulation	Polyethylene
Assembly	Two twisted insulated conductors forming a pair
General assembly	4 twisted pairs wired together
	Star-shaped central filler
Screen	Transparent Mylar tape
	Aluminium tape screen
	Drain wire AWG24
Outer sheath	Halogen-free
	IEC 62321, US EPA 3540C, BS EN 14582
	Colour standard: Violet

Technical characteristics

Outer diameter	7.2mm
Operating Tª	Fixed installation: -10°C to +60°C
	During installation: 0°C to +50°C
Velocity of propagation	72%
Min. bending radius	Fixed; 4 x D
	During installation: 8 x D
Weight	5.08 Kg/100m

Application

The Cat6 F/UTP 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 FTP cabling system includes LSHF cable, female modules, 24-panel panels, patch panels, and various sized and colored hoses. With star-shaped center fill to maintain and increase cable performance. A clear Mylar tape wraps around the assembly and there is an aluminum tape screen with 24AWG drain wire. The aluminum display provides protection against electromagnetic interference (EMI) that can affect when transmitting data at high frequencies.

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

Standards / Properties

Ref. standard for drawing	Category 6: TIA/EIA 568?B.2-1, EN50173-1 and ISO/ IEC 11801
Flame Retardant	EN 60332-1-2 and EN 50399
Halogen free	EN 60754-1/2
Low smoke emission	EN 61034-2
CPR Classification (Euroclass)	EN 50575:2014 A1:2016
	Dca s2 d2 a2

flame retardant   halogen free   low corrosivity   low smoke opacity

Code:
Family: 1465
Revision: 1
Date: 16/07/2018

Realized:

Approved:

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Cabling System Elements

Code	Description
14650059	Cable FTP Cat6 LSHF (305 mts) colour violet
14650039	Module keystone FTP Cat6
14650047	Patch Panel FTP Cat6 24p
14650002	Horizontal Ordenation panel
14650060	Patch cord FTP Cat6 1 mt
14650056	Patch cord FTP Cat6 2 mt
14650061	Patch cord FTP Cat6 3 mt
14650062	Patch cord FTP Cat6 5 mts

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(*)
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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