



Construction

| | |
|-------------------------|--|
| Conductor | 24AWG Solid copper |
| Insulation | Polyethylene |
| Assembly | 2 conductors insulated and twisted together forming a pair |
| General assembly | 4 twisted pairs wired together |
| Outer sheath | Halogen-free compound Standard colour: Violet |

Technical characteristics

| | |
|---------------------------------|--|
| Outer diameter | 5,2 mm |
| Operating T^a | Fixed installation: -20°C to +60°C |
| Velocity of propagation | 70% |
| Dielectric strength | 1.0 kV d.c. o 0.7 kV a.c. during 1 min 2.5 kV d.c. o 1.7 kV a.c. during 2 s |
| Characteristic Impedance | 100±15 Ohm (1-100 MHz) |

Application

The UTP Cat5e structured cabling system allows you to set up a generic telecommunications infrastructure within a building, creating a local area network (LAN). Category 5e is described within the TIA/EIA 568A, ISO/IEC 11801, EN 50173 and EN 50288-3-1 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 100MHz. The complete Cat5e UTP cabling system includes LSHF cable, female modules, 24 or 48 port panels, 50-port telephone panels, management panels, and colorful and different length patch cords.

Typical Applications: 10Base-T Ethernet, 155 Mbps ATM, 100BASE-TX Fast Ethernet, 622 Mbps ATM, 1000BASE-T Gigabit Ethernet, Token Ring

Standards / Properties

| | |
|---------------------------------------|--|
| Ref. standard for drawing | ISO/IEC 11801:2011 (Ed. 2.2), IEC 61156-5:2009 (EEEd. 2.0), EN 50173-1:2011, EN 50173-2:2007 A1:2010, EN 50173-2:2007 A1:2010, ANSI/TIA-568-C.2:2009 |
| Flame Retardant | IEC 60332-1-[1,2]:2004 |
| Halogen free | UNE-EN 60754 (IEC 60754) |
| Low smoke emission | UNE-EN 61034 (IEC 61034) |
| CPR Classification (Euroclass) | Dca |



Cabling system components

| Code | Description |
|----------|--|
| 14650037 | Cable UTP Cat5e LSHF (305 mts) colour violet |
| 14650025 | Module keystone UTP Cat5e |
| 14650038 | Patch Panel UTP Cat5e 24 ports |
| 14650000 | Patch Panel 19 50p. RJ45 telephone |
| 14650002 | Horizontal Ordenation Panel |
| 14650013 | Patch cord UTP Cat5e 1 mt grey |
| 14650014 | Patch cord UTP Cat5e 2 mt grey |
| 14650015 | Patch cord UTP Cat5e 3 mt grey |
| 14650022 | Patch cord UTP Cat5e 5 mt grey |
| 14650023 | Patch cord UTP Cat5e 10 mt 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-N(*) | ACR-F(**) | PSNEXT(**) | PS ACR-F(*) |
|------------|---------|-------|--------|----------|-----------|------------|-------------|
| 1 | 2 | 62 | 20 | 60 | 64 | 62 | 64 |
| 4 | 3.8 | 53 | 23 | 49.2 | 52 | 53 | 51 |
| 10 | 6.5 | 47 | 25 | 40.5 | 44 | 47.3 | 44 |
| 16 | 8.2 | 44 | 25 | 35.8 | 39.9 | 44.2 | 40.9 |
| 20 | 9.2 | 43 | 25 | 33.8 | 38 | 42.8 | 39 |
| 31.25 | 11.7 | 40 | 23.6 | 38.3 | 34.1 | 39.9 | 35.1 |
| 62.5 | 17 | 35 | 21.5 | 18 | 28.1 | 35.4 | 29.1 |
| 100 | 22 | 32 | 20.1 | 10 | 24 | 32.3 | 25 |

Units: * = dB / ** = dB/100m

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