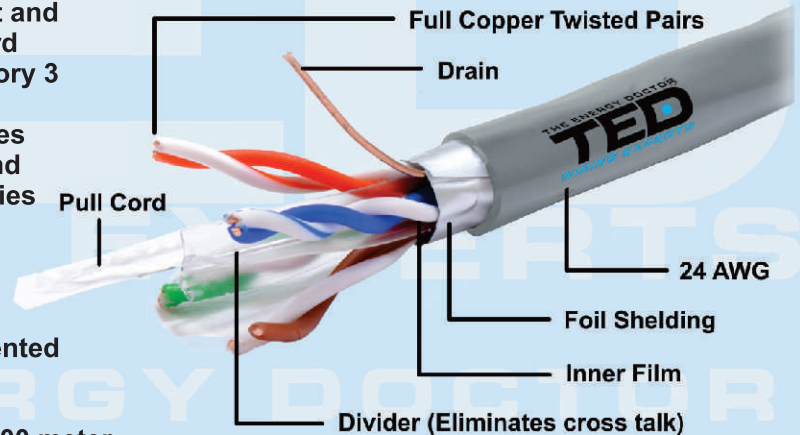


3CORE FTP cat.6 Copper Cable

Category 6 cable, commonly referred to as Cat 6, is a standardized twisted pair cable for Ethernet and other network physical layers that is backward compatible with the Category 5/5e and Category 3 cable standards.

Compared with Cat 5 and Cat 5e, Cat 6 features more stringent specifications for crosstalk and system noise. The cable standard also specifies performance of up to 250 MHz compared to 100 MHz for Cat 5 and Cat 5e.[1]

Whereas Category 6 cable has a reduced maximum length of 55 meters when used for 10GBASE-T, Category 6A cable (or Augmented Category 6) is characterized to 500 MHz and has improved alien crosstalk characteristics, allowing 10GBASE-T to be run for the same 100 meter maximum distance as previous Ethernet variants.



Construction	
Conductor	Foil Screened 4 x 2 x 0.51 mm Full Copper 24 AWG
Additional Components	Drain Wire 0.5 mm CCA, Pull Cord Stranded Nylon
Insulation	0.9 mm HDPE (High-Density Polyethylene)
Diameter Over Insulation / Nominal Outer Diameter	1 mm / 6 mm
Mechanical Characteristics	
Sheath Tensile Strength	20.2 MPa
Minimum Bending Radius	40 mm
Normal Weight	38 kg/km
Operating Temperature	-10°C +60°C
Installation Temperature	-5°C +40°C
Product Length	305m in Carton Box
Electrical Performance	
Conductor Resistance	89 Ohms/km
Transmission Frequency (MHz)	8 10 16 20 25 31.25 62.5 100 150 200 250
Attenuation (dB/100m)	5.2 5.9 7.5 8 9 10.4 14.8 19.3 24.5 28 31.8
Near End Crosstalk NEXT (dB/100m)	75 70 66 63 60 58 56 53 48 46 44
Powersum Near End Crosstalk PS NEXT (dB/100m)	72 68 64 63 61 57 55 49 44 42 40
Return Loss (dB/100m)	35 33 37 39 41 35 43 37 32 32 33
Equal Level Far End Crosstalk ELFEXT (dB/100m)	70 64 71 71.3 85 65 65.5 66 59 59 55
Powersum Equal Level Far End Crosstalk (dB/100m)	63 63.2 66 69 66 66.2 61 64 59 59 57
Characteristic Impedance (Ohms)	100+/-15
Screw (ns/100m)	45
Nominal Velocity of Propagation (%)	68
Propagation Delay, max. 100 MHz (ns/100m)	536
Coupling Attenuation at 30 MHz	68

Due to continuous product improvements, program specifications are subject to change without notice

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