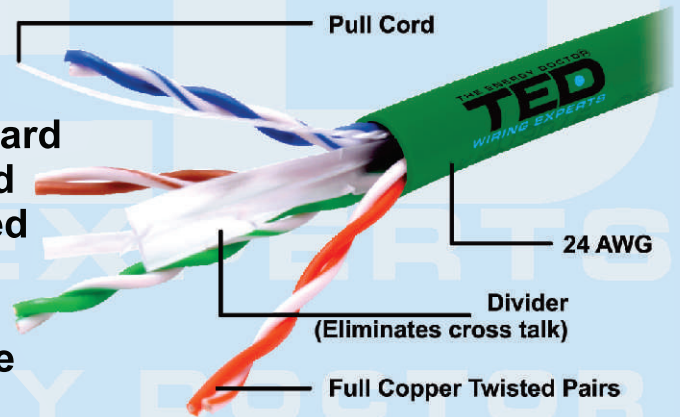


# TED UTP cat.6 Copper Cable

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 specifies performance of up to 250 MHz.



Construction									
Conductor	4 x 2 x 0.51 mm Full Copper 24 AWG								
Insulation	0.9 mm High-density Polyethylene								
Diameter Over Insulation	0.88 mm								
Nominal Outer Diameter	5 mm								
Mechanical Characteristics									
Sheath Tensile Strength	20.2 MPa								
Minimum Bending Radius	34 mm								
Normal Weight	35 kg/km								
Operating Temperature	-15°C +65°C								
Installation Temperature	-5°C +40°C								
Product Length	305m in Carton Box								
Electrical Performance									
Conductor Resistance	89 Ohms/km								
Transmission Frequency (MHz)	4	8	10	16	20	25	31.25	62.5	100
Attenuation (dB/100m)	3.8	5.4	6	7.7	8.7	9.8	11	15.9	20.6
Near End Crosstalk NEXT (dB/100m)	68.9	66	62.7	63.4	59.6	56.4	56.9	49	48
Powersum Near End Crosstalk PS NEXT (dB/100m)	64.8	61.3	59.4	61.5	56.5	54.1	55.1	47.3	45.5
Return Loss (dB/100m)	33	33	33	32	33	34	28	29	24
Equal Level Far End Crosstalk ELFEXT (dB/100m)	62	56	54	50	48	46	44	43	42
Powersum Equal Level Far End Crosstalk (dB/100m)	61	55	53	49	47	46	44	40	39
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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