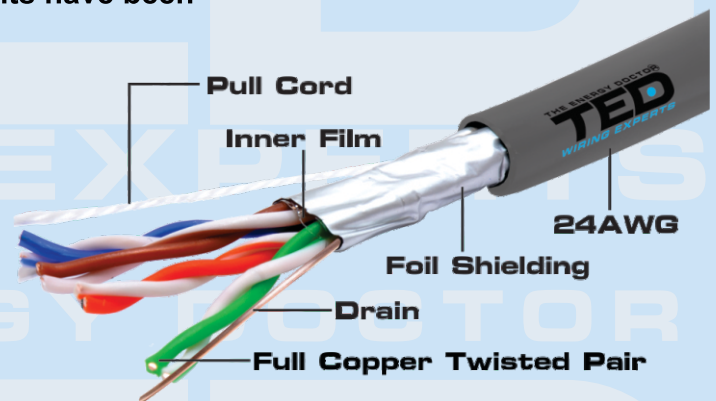


TED FTP cat.5e Copper Cable

FLUKE
 TEST PASSED

Category 5e (cat.5e) cable, also known as Enhanced Category 5, is designed to support full-duplex Fast Ethernet operation and Gigabit Ethernet. The performance requirements have been raised slightly in the new standard.

Cat.5e has stricter specifications for Power Sum Equal-Level Far-End Crosstalk (PS-ELFEXT), Near-End Crosstalk (NEXT), Attenuation, and Return Loss (RL) than those for cat.5. Like cat.5, cat.5e is 100 MHz standard, but it has the capacity to handle bandwidth superior to that of cat.5. Cat.5 cable is typically used for Ethernet networks running at 100 Mbps.



Construction									
Conductor	4 x 2 x 0.52 mm Full Copper 24 AWG								
Insulation	0.8 mm High-density Polyethylene								
Diameter Over Insulation	0.9 mm								
Nominal Outer Diameter	5.6 mm								
Mechanical Characteristics									
Sheath Tensile Strength	21 MPa								
Minimum Bending Radius	32 mm								
Normal Weight	36 kg/km								
Operating Temperature	-20°C +70°C								
Installation Temperature	-5°C +40°C								
Product Length	305m in Carton Box								
Electrical Performance									
Conductor Resistance	90 Ohms/km								
Transmission Frequency (MHz)	4	8	10	16	20	25	31.25	62.5	100
Attenuation (dB/100m)	3.9	5.5	6.1	7.8	8.5	9.5	10.3	15	16
Near End Crosstalk NEXT (dB/100m)	56.3	51.8	50.3	47.2	45.8	44.3	42.9	38.4	35.3
Powersum Near End Crosstalk PS NEXT (dB/100m)	53.3	48.8	47.3	44.2	42.8	41.3	39.9	35.4	32.3
Return Loss (dB/100m)	31	31	31	30	31	32	26	27	21
Equal Level Far End Crosstalk ELFEXT (dB/100m)	51.8	45.7	43.8	39.7	37.8	35.8	33.8	27.9	23.8
Powersum Equal Level Far End Crosstalk (dB/100m)	48.8	42.7	40.8	36.7	34.8	32.8	30.9	24.9	20.8
Characteristic Impedance (Ohms)	100+/-15								
Screw (ns/100m)	45								
Nominal Velocity of Propagation (%)	69								
Propagation Delay, max. 100 MHz (ns/100m)	550								
Coupling Attenuation at 30 MHz (dB)	68								

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