THE ENERGY DOCTOR®
TED
WIRING EXPERTS

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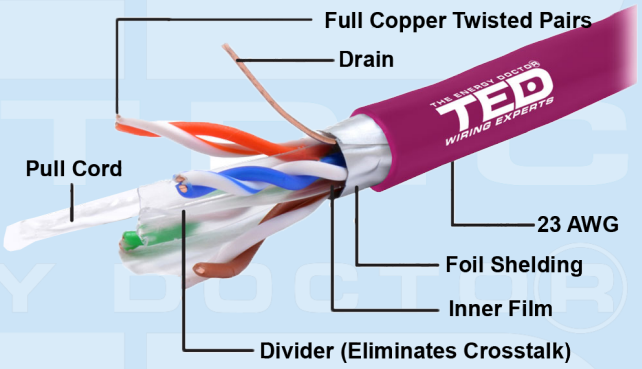
TED FTP LSZH cat.6 Copper

FLUKE
TEST PASSED

- Category 6 cable LSZH (Low Smoke Zero Halogen) commonly referred to as Cat. 6, is a standardized twisted pair cable for Ethernet and other network physical layers that is backward compatible with Category 5/5e and Category 3 cable standards. Compared with Cat 5 and Cat 5e, Cat 6 LSZH features more stringent specifications for crosstalk and system noise.
- The cable standard also specifies performance of up to 500 MHz compared to 100 MHz for Cat 5 and Cat 5e. 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 characterised to 550 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 0.57 mm Full Copper 23 AWG										
Insulation	1 mm High-density Polyethylene										
Diameter Over Insulation	1.1 mm										
Nominal Outer Diameter	6.3 mm										
Mechanical Characteristics											
Sheath Tensile Strength	25 MPa										
Minimum Bending Radius	50 mm										
Normal Weight	40 kg/km										
Operating Temperature	-10°C ~ +60°C										
Installation Temperature	-5°C ~ +40°C										
Product Length	305 m in Carton Box										
Electrical Performances											
Conductor Resistance	68 Ohms/km										
Transmission Frequency (MHz)	4	8	10	16	20	25	31.25	62.5	100	200	250
Attenuation (dB/100m)	3.9	5.6	6.2	7.9	8.9	10	11.2	16	21	27.4	31.1
Near End Crosstalk NEXT (dB/100m)	56.3	51.8	50.3	47.2	45.8	44.3	42.9	38.4	35.3	36.9	35.3
Powersum Near End Crosstalk PS NEXT (dB/100m)	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3	37.8	36.3
Return Loss (dB/100m)	22	23.5	24	24	24	23.3	22.6	20.5	19.1	18	17.3
Equal Level Far End Crosstalk ELFEXT (dB/100m)	52.7	46.7	44.8	40.7	38.7	36.8	34.9	28.8	24.8	21.8	19.8
Powersum Equal Level Far End Crosstalk (dB/100m)	49.7	43.7	41.8	37.7	35.7	33.8	31.9	25.8	21.8	18.8	16.8
Characteristic Impedance (Ohms)	100 +/-15										
Screw (ns/100m)	45										
Nominal Velocity of Propagation (%)	68										
Propagation Delay, max. 100MHz (ns/100m)	536										
Coupling Attenuation at 30 MHz (dB)	65										