

CAT6 UTP Cable



- 305 m (1000 ft) CAT6 UTP Cable
- 23 AWG Thickness (0.57mm Conductor Diameter)
- 99.97% Oxygen-free Copper Conductor
- Customized PVC Outer Sheath
- CMR Flame-Retardant: ETL Certified

Technical Specification

Conductor	
Material	Oxygen-free Copper (99.97% Purity)
Diameter	0.57 mm ± 0.01 mm
American Wire Gauge	23AWG
Insulation	
Material	HDPE
Minimum Average Thickness	0.21 mm
Diameter	1.0 mm ± 0.1mm
Colors	<ul style="list-style-type: none"> • Blue, White/Blue • Orange, White/Orange • Green, White/Green • Brown, White/Brown
Separator	
Material	PE
Specification	Ivory, 4.5 mm x 0.4 mm
Rip Cord	
Material	Polyester
Specification	500D
Sheath	
Material	PVC
Minimum Average Thickness	0.5 mm
Diameter	6.3 mm ± 0.3 mm
Color	White
Electrical	
Maximum DC Resistance (Single Conductor)	7.5Ω/100 m
Minimum Insulation Resistance	5000MΩ km
Maximum DC Resistance Unbalance	5% (Pair Intra)
Dielectric Strength	No breakdown with 2.5KV DC for two (2) seconds
Transmission	
Characteristic Impedance	100 ± 15Ω
Near End Cross Talk	≥ 36.1 dB/100 m at 350 MHz
Maximum Attenuation	39.8 dB/100 m at 350 MHz
Return Loss	≥ 16.3 dB/100 m at 350 MHz

Mechanical

Tensile Strength	Sheath	≥ 13.8 MPa,
	Insulation	≥ 16.0 MPa
Elongation at Break	Sheath	≥ 100%
	Insulation	≥ 300%
Installation Bending Radius	> Eight (8) times the outer cable diameter	
Conductor Elongation at Break	≥ 20%	

Environmental

Shrinkage of Insulation	≤ 6%
Color Migration Resistance of Insulation	None
Sheath Tensile Strength and Elongation at Break after Aging	≥ 11.73 MPa, ≥ 50%
Low Temperature Bending Test	No cracking after test
Heat Shock Test	No cracking after test
Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Installation Temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage Temperature and Humidity	-10 °C to 40 °C (14 °F to 104 °F), < 60% (RH)

Security

Vertical Fire Propagation Test	Compliant with UL1666 standard
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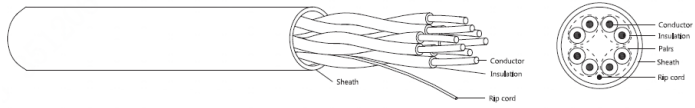
Packaging

Cable Length	305.0 m (1000.66 ft) ± 1.5 m (4.92 ft)
Inner Carton Dimensions (L x W x H)	416.0 mm × 412.0 mm × 220.0 mm (16.38 in. × 16.22 in. × 8.66 in.)
Packaging Method	305.0 m (1000.66 ft) per carton Two (2) cartons in a protective box
Net Weight	≥ 11.90 kg (26.24 lb)
Gross Weight	≥ 12.90 kg (28.44 lb)

Compliance

Executive Standards	ANSI/TIA 568-C.2-2009
Certifications	ETL CMR

Cable Detail



Dimensions

mm [in.]

