

CAT6 UTP Cable



- 305 m (1000 ft) CAT6 UTP Cable
- 0.53mm 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	0.53 mm \pm 0.01 mm
Insulation	
Material	HDPE
Minimum Average Thickness	0.21 mm
Diameter	0.95 mm \pm 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	6.0 mm \pm 0.3 mm
Color	White
Electrical	
Maximum DC Resistance (Single Conductor)	8.7 Ω /100 m
Minimum Insulation Resistance	5000M Ω km
Maximum DC Resistance Unbalance	2% (Pair Intra), 4% (Pairs Inter)
Dielectric Strength	No breakdown with 1KV DC for one (1) minute
Transmission	
Characteristic Impedance	100 \pm 15 Ω
Near End Cross Talk	\geq 36.1 dB/100 m at 350 MHz
Maximum Attenuation	39.8 dB/100 m at 350 MHz
Return Loss	\geq 16.3 dB/100 m at 350 MHz

Mechanical

Tensile Strength	Sheath	\geq 13.5 MPa,
	Insulation	\geq 16.0 MPa
Elongation at Break	Sheath	\geq 150%
	Insulation	\geq 300%
Installation Bending Radius	> Eight (8) times the outer cable diameter	
Conductor Elongation at Break	\geq 10%	

Environmental

Shrinkage of Insulation	\leq 5%
Color Migration Resistance of Insulation	None
Sheath Tensile Strength and Elongation at Break after Aging	\geq 12.50 MPa, \geq 100%
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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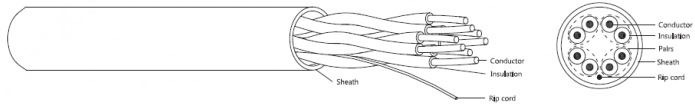
Packaging

Cable Length	305.0 m (1000.66 ft) \pm 1.5 m (4.92 ft)
Inner Carton Dimensions (L x W x H)	416.0 mm \times 412.0 mm \times 2000. mm (16.38 in. \times 16.22 in. \times 8.66 in.)
Packaging Method	305.0 m (1000.66 ft) per carton Two (2) cartons in a protective box
Net Weight	\geq 10.50 kg (23.15 lb)
Gross Weight	\geq 11.50 kg (25.35 lb)

Compliance

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

Cable Detail



Dimensions

mm [in.]

