

CAT5e UTP Cable



- 305 m (1000 ft) CAT5e UTP Cable
- 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	0.50 mm ± 0.01 mm	
American Wire Gauge	24AWG	
Insulation		
Material	HDPE	
Minimum Average Thickness	0.18 mm	
Diameter	0.90mm ± 0.1mm	
Colors	<ul style="list-style-type: none"> • Blue, White/Blue • Orange, White/Orange • Green, White/Green • Brown, White/Brown 	
Rip Cord		
Material	Polyester	
Specification	500D	
Sheath		
Material	PVC	
Minimum Average Thickness	0.5 mm	
Diameter	5.1 mm ± 0.3 mm	
Color	White	
Electrical		
Maximum DC Resistance (Single Conductor)	9.38Ω/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	≥27.1 dB/100 m at 350 MHz	
Maximum Attenuation	44.9 dB/100 m at 350 MHz	
Return Loss	≥16.3 dB/100 m at 350 MHz	
Mechanical		
Tensile Strength	Sheath	≥ 13.8 MPa,
	Insulation	≥ 16.5 MPa

Elongation at Break	Sheath	≥ 100%
	Insulation	≥ 300%
Installation Bending Radius	> Eight (8) times the outer cable diameter	
Conductor Elongation at Break	≥ 10%	

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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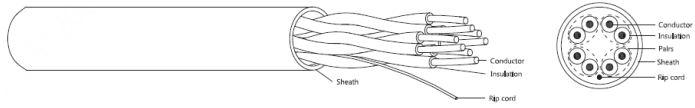
Packaging

Cable Length	305.0 m (1000.66 ft) ± 1.5 m (4.92 ft)
Inner Carton Dimensions (L x W x H)	364.0 mm × 364.0 mm × 216.0 mm (14.33 in. × 14.33 in. × 8.50 in.)
Packaging Method	305.0 m (1000.66 ft) per carton Two (2) cartons in a protective box
Net Weight	≥ 8.0 kg (17.64 lb)
Gross Weight	≥ 9.0 kg (19.84 lb)

Compliance

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

Cable Detail



Dimensions

mm [in.]

