

CAT5e UTP Cable



- 305 m (1000 ft) CAT5e UTP Cable
- 99.97% Oxygen-free Copper Conductor
- Customized PVC Outer Sheath
- Certified to the UL 1685 Flame Resistance Standard

Technical Specifications

Conductor	
Material	Oxygen-free Copper (99.97% purity)
Diameter	0.50 mm ± 0.01 mm
Gauge	24 AWG
Insulation	
Material	HDPE
Minimum Average Thickness	0.18 mm
Diameter	0.92 mm ± 0.06 mm
Color (4 pairs)	Blue, White/Blue, Orange, White/Orange, Green, White/Green, Brown, White/Brown
Rip Cord	
Material	Polyester
Specification	500D
Sheath	
Material	PVC
Minimum Average Thickness	0.50 mm
Diameter	5.40 mm ± 0.30 mm
Color	White
Electrical	
Maximum DC Resistance, Single Conductor	9.38 Ω/100 m
Minimum Insulation Resistance	5000 MΩ·km
Maximum Mutual Capacitance	5.6 nF/100 m
Maximum DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Dielectric Strength	No breakdown with 1 KV DC for 1 m
Transmission	
Characteristic Impedance	100 ± 15 Ω
Near End Cross Talk	≥ 35.30 dB/100 m at 100 MHz
Maximum Attenuation	22 dB/100 m at 100 MHz
Return Loss	≥ 20.1 dB/100 m at 100 MHz

Certification

Cable Standard	ANSI/TIA 568 C.2
Flame Resistance	<ul style="list-style-type: none"> • UL 1685 Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables • CM (UL certification) Pass a standardized flammability test certified by UL

Mechanical

Tensile Strength	Sheath: ≥ 13.5 MPa Insulation: ≥ 16 MPa
Elongation at Break	Sheath: ≥ 150% Insulation: ≥ 300%
Installation Bending Radius	> 8 times of outer cable diameter
Conductor Elongation at Break	≥ 10%

Environmental

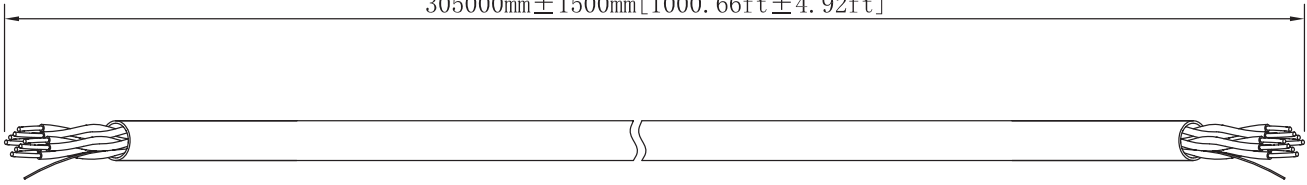
Shrinkage of Insulation	≤ 5%
Color Migration Resistance of Insulation	No Migration
Sheath Tensile Strength and Elongation at Break after Aging	≥ 12.5 MPa, ≥ 100%
Low Temperature Bending Test	No cracking evident
Heat Shock Test	No cracking evident
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Installation 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)

Packaging

Length	305.0 m (1000.66 ft) ± 1.5 m (4.92 ft)
Dimensions (L x W x H)	342.0 mm x 342.0 mm x 220.0 mm (13.47 in. x 13.47 in. x 8.67 in.)
Packaging Method	305.0 m (1000.66 ft) carton, one protection carton with 2 cartons inside
Net Weight	≥ 8.9 kg (19.62 lb)
Gross Weight	≥ 9.7 kg (21.38 lb)

Dimensions

305000mm ± 1500mm [1000.66ft ± 4.92ft]



Cable Detail

