

CAT5e UTP Cable



- 305 m (1000 ft) CAT5e UTP Cable
- 99.97% Oxygen-free Copper
- Customized PVC Outer Sheath; Certified to the CE CPR Eca Flame Retardant Standard

Technical Specifications

Conductor

Material	Oxygen-free Copper (99.97% purity)
Diameter	0.45 mm ± 0.01 mm

Insulation

Material	HDPE
Minimum Average Thickness	0.18 mm
Diameter	0.83 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	5.0 mm ± 0.3 mm
Color	White

Electrical

Max. DC Resistance of a Single Conductor	12Ω/100 m
Min. Insulation Resistance	5000 MΩ·km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Dielectric Strength	No breakdown with 1KV DC for 1 m

Transmission

Characteristic Impedance	100 ± 15Ω
Near End Cross Talk	≥ 35.30 dB/100 m at 100 MHz
Max. Attenuation	24.2 dB/100 m at 100 MHz
Return Loss	≥ 20.1 dB/100 m at 100 MHz

Certification

CE	50575:2014+A1:2016 Power, control and communication cables. Cables for general applications in construction works subject to reaction to fire requirements
Flame Resistance	CPR Eca
Testing Standard	EN 60332-1-2

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%

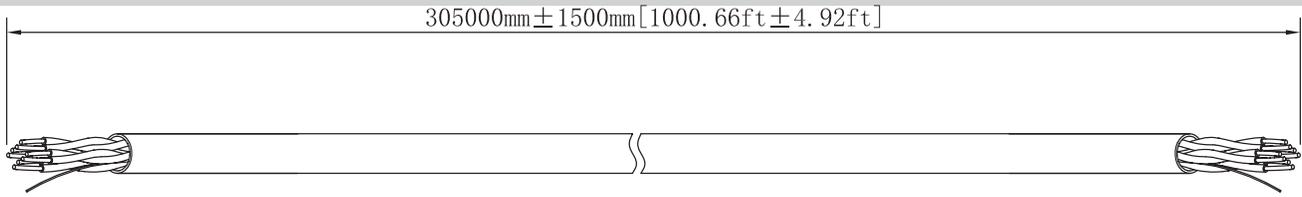
Environmental

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	342.0 mm × 342.0 mm × 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	≥ 7.4 kg (16.31 lb)
Gross Weight	≥ 8.4 kg (18.51 lb)

Dimensions



Cable Detail

