

DH-PFM922I-6UN-C-100

UTP CAT6 Cable



- 100 m (328 ft)/carton UTP CAT6, power over Ethernet, compatible with one cable
- Manufacturing excellence
- Customized PVC outer sheath; CE CPR Eca flame retardant class certified
- Top-notch Quality Commitment for 10 Years

System Overview

Network cables are the most commonly used transmission mediums in generic cabling system. It is usually composed of 4 pairs of twisted wires, and is generally applied in system cabling within 100 meters.

Technical Specification

Conductor

Material	CCA (Copper content 8%–12%)
Diameter	0.57 mm ± 0.01 mm (0.0224"±0.0004")
Wire Gauge	23AWG

Insulation

Material	HDPE
Thickness	0.21 mm (0.0083")
Diameter	1.02 mm±0.1 mm (0.0402"±0.004")
Color	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Separator

Material	PE
Specification	Translucent 4.5 mm × 0.4 mm (0.1772"±0.0157")

Rip Cord

Material	Polyester
Specification	500D

Sheath

Material	PVC
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Min. Average Thickness	0.5 mm (0.0197")
Diameter	6.5 mm±0.3 mm (0.2559"±0.0118")
Color	Orange

Electrical

Max. DC Resistance of a Single Conductor	11.5 Ω/100 m
Min. Insulation Resistance	5000MΩ·km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Dielectric Strength	No breakdown with 1kV DC for 1 min

Transmission

Characteristic Impedance	100 Ω ± 15 Ω
Near End Cross Talk	≥39.30 dB/100 m @250 MHz
Max. Attenuation	34.8 dB/100 m @250 MHz
Return Loss	≥17.3 dB/100 m @250 MHz

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 after the test
Heat Shock Test	No cracking after the test
Operation 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	Comply with IEC 60332-1-2
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Packaging

Cable Length	100.0 m (328.08 ft)±1 m (3.28 ft)
Inner Carton Dimensions	286 mm × 119 mm × 289 mm (11.26" × 4.69" × 11.38") (L × W × H)
Net Weight	3.2 kg ±0.3 kg (7.05 lb±0.66 lb)
Gross Weight	3.5 kg ±0.3 kg (7.72 lb±0.66 lb)
Packaging Dimensions	595 mm × 310 mm × 270 mm (23.43" × 12.20" × 10.62") (L × W × H)
Packaging Method	100 m/carton, 4 inner cartons in one package

Compliance

Executive Standards	Q/DXJ 067-2019
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Certification

Certification	CPR Eca
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Ordering Information

Type	Model	Description
Cable Series	DH-PFM922I-6UN-C-100	UTP CAT6 Cable

Dimensions (mm/inch)

