

DH-PFM920I-6UN1-C

UTP CAT6 Cable



- 305 m (1000 ft)/carton UTP CAT6, power over Ethernet, compatible with one cable
- High-purity oxygen-free copper conductor
- Customized flame retardant PVC outer sheath
- 10-year warranty

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	Oxygen free copper (99.97% purity)
Diameter	0.52 mm \pm 0.02 mm
American Wire Gauge	24 AWG

Insulation

Material	HDPE
Diameter	0.92 mm \pm 0.02 mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Separator

Material	PE
Specification	Translucent 4.3 \times 0.35 mm

Rip Cord

Material	Nylon
Specification	450D

Sheath

Material	FR-PVC
Min. Average Thickness	0.5 mm

Diameter	5.8 mm \pm 0.2 mm
Color	Blue

Electrical

Max. DC Resistance of a Single Conductor(+20 C)	9 Ω /100 m
Min. Insulation Resistance	5000M Ω -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 \pm 15 Ω
Near End Cross Talk	\geq 39.30 dB/100 m@250 MHz
Max. Attenuation	34.8 dB/100 m@250 MHz
Return Loss	\geq 17.3 dB/100 m@250 MHz

Mechanical

Tensile Strength	Sheath \geq 13.5 MPa, insulation \geq 16 MPa
Elongation at Break	Sheath \geq 150%, insulation \geq 300%
Installation Bending Radius	>8 times of outer cable diameter
Conductor Elongation at Break	\geq 10%

Environmental

Shrinkage of Insulation	\leq 5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	\geq 12.5 MPa, \geq 100%

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

Cable Length	305.0 m ± 1.5 m
Inner Carton Dimensions	416*412*220mm(L × W × H)
Protective Box Dimensions	467*437*441mm(L × W × H)
Packaging Method	305.0 m per carton, 2 cartons in 1 protective box
Net Weight	10.8 kg
Gross Weight	11.6 kg

Compliance

Executive Standards	Q/DXJ 067-2019, EN50575-2014
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920I-6UN1-C	UTP CAT6 Cable

Dimensions (mm/inch)

