

DH-PFM920I-6U-U

305m U/UTP CAT6 Network cable (White, UL CM)



- 305 m (1,000 ft)/carton U/UTP CAT6, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor.
- Customized PVC outer sheath;UL CM flame retardant class certified.
- 10-year warranty.

Series 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)
Conductor Structure	0.57 mm \pm 0.01 mm (0.0224" \pm 0.0004")
American Wire Gauge	23AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	1.0 mm \pm 0.1 mm (0.04" \pm 0.0004")
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown

Rip Cord

Material	Polyester
Specification	500D

Separator

Material	PE
Specification	Translucent 4.5 mm \times 0.4 mm (0.18" \times 0.0157")

Sheath

Min. Average Thickness	0.5 mm (0.02")
Sheath Material	PVC

Sheath Diameter	6.3 mm \pm 0.50 mm (0.25" \pm 0.0197")
Sheath Color	White

Electrical

Max. DC Resistance of a Single Conductor	7.5 Ω /100 m (328.08 ft)
Min. Insulation Resistance	5000 M 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 Ω \pm 15 Ω
Near-end Crosstalk	\geq 39.3 dB/100 m@250 MHz
Max. Attenuation	32.8 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 125%

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	−10 °C to +40 °C (+14 °F to +104 °F)
Storage Humidity	<60% (RH)

Security

Vertical Flame Test	Comply with IEC 60332-1-2
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Packaging

Cable Length	305.0 m ± 2 m (1,000.66 ft ± 6.56 ft)
Packaging Method	305 m (1,000 ft) a carton, one carton with 2 inner cartons
Packaging Dimensions	416 mm × 412 mm × 220 mm (16.38" × 16.22" × 8.66") (L × W × H)
Transport Package Dimensions	467 mm × 437 mm × 441 mm (18.39" × 17.20" × 17.36") (L × W × H)
Net Weight	12.4 kg ± 0.5 kg (27.34 lb ± 1.10 lb)
Gross Weight	13.4 kg ± 0.5 kg (29.54 lb ± 1.10 lb)

Compliance Standard

Compliance Standard	ANSI/TIA 568.2-D
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Certifications

Certifications	UL CM
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Flame-retardant Standard

Compliance Standard	CM UL 1685
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920I-6U-U	305m U/UTP CAT6 Network cable (White, UL CM)

Dimensions (mm[inch])

