

DH-PFM920I-5EU-U

305m U/UTP CAT5E Network Cable (White, UL CM)



- 305 m (1000 ft)/carton U/UTP CAT5E, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- 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	0.5 mm $\pm$ 0.01 mm (0.02" $\pm$ 0.0004")
American Wire Gauge	24AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.18 mm (0.01")
Insulation Diameter	0.90 mm $\pm$ 0.10 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

Sheath

Min. Average Thickness	0.5 mm (0.02")
Sheath Material	PVC
Sheath Diameter	5.1 mm $\pm$ 0.30 mm (0.20" $\pm$ 0.01")
Sheath Color	White

Electrical

Max. DC Resistance of a Single Conductor	9.5 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	$\geq$ 35.3 dB/100 m@100 MHz
Max. Attenuation	22 dB/100 m@100 MHz
Return Loss	$\geq$ 20.1 dB/100 m@100 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	364 mm × 364 mm × 216 mm (14.33" × 14.33" × 8.50") (L × W × H)
Transport Package Dimensions	447 mm × 382 mm × 386 mm (17.60" × 15.04" × 15.20") (L × W × H)
Net Weight	8.9 kg ± 0.4 kg (19.62 lb ± 0.88 lb)
Gross Weight	9.5 kg ± 0.4 kg (20.94 lb ± 0.88 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-5EU-U	305m U/UTP CAT5E Network Cable (White, UL CM)

Dimensions (mm[inch])

