

DH-PFM920-5EU

305m Outdoor U/UTP CAT5E Network Cable (Black, PE sheath)



- 305 m (1000 ft)/carton outdoor U/UTP CAT5E, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- Customized MDPE outer sheath, certain degree of waterproof. Environmentally friendly and all materials used are RoHS compliant. 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 ± 0.01 mm (0.02" ± 0.0004")
American Wire Gauge	24AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	0.89 mm ± 0.06 mm (0.0350" ± 0.0024")
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown

Rip Cord

Material	Polyester
Specification	500D

Wrapping Tape

Material	Polyester tape (transparent)
Thickness	W: 20 mm ± 2 mm × T: 0.026 mm ± 0.02 mm (W: 0.79" ± 0.08" × T: 0.0010" ± 0.0008")

Sheath

Min. Average Thickness	0.7 mm (0.0276")
Sheath Material	MDPE

Sheath Diameter	5.2 mm ± 0.4 mm (0.20" ± 0.0157")
Sheath Color	Black

Electrical

Max. DC Resistance of a Single Conductor	9.5 Ω@100 m (328.08 ft)
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 min

Transmission

Characteristic Impedance	100 Ω ± 15 Ω
Near-end Crosstalk	≥35.3 dB/100 m@100 MHz
Max. Attenuation	22 dB/100 m@100 MHz
Return Loss	≥20.1 dB/100 m@100 MHz

Mechanical

Tensile Strength	Sheath≥13.5 MPa, insulation≥16 Mpa
Elongation at Break	Sheath≥150%, insulation≥300%
Installation Bending Radius	>15 times of outer cable diameter
Conductor Elongation at Break	≥15%

Environmental

Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥9.6 MPa, rate of changes≤20%

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)

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	406 mm × 404 mm × 216 mm (15.98" × 15.91" × 8.50") (L × W × H)
Transport Package Dimensions	455 mm × 435 mm × 436 mm (17.91" × 17.13" × 17.17") (L × W × H)
Net Weight	8.5 kg ± 0.6 kg (18.74 lb ± 1.32 lb)
Gross Weight	9.3 kg ± 0.6 kg (20.50 lb ± 1.32 lb)

Compliance Standard

Compliance Standard	YD/T 3296.2-2018 ANSI/TIA 568.2-D
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920-5EU	305m Outdoor U/UTP CAT5E Network Cable (Black, PE sheath)

Dimensions (mm[inch])

