

DH-PFM920-6F

305m Outdoor F/UTP CAT6 Network Cable (Black, PE sheath)



- 305 m (1000 ft)/carton outdoor F/UTP CAT6, 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	0.57 mm $\pm$ 0.02 mm (0.0224" $\pm$ 0.0008")
American Wire Gauge	23AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	1.02 mm $\pm$ 0.06 mm (0.04" $\pm$ 0.0024")
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown

Rip Cord

Material	Polyester
Specification	500D

Drain Wire

Material	Tinned copper
Specification	7/0.16 mm (0.006")

Separator

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

Wrapping Tape

Material	Polyester tape (transparent)
Thickness	W: 20 mm $\pm$ 2 mm $\times$ T: 0.026 mm $\pm$ 0.02 mm (W: 0.79" $\pm$ 0.08" $\times$ T: 0.0010" $\pm$ 0.0008")

Outer Shield

Material	Aluminum foil
Specification	0.063 mm $\times$ 25 mm (0.002" $\times$ 0.98")

Sheath

Min. Average Thickness	0.7 mm (0.0276")
Sheath Material	MDPE
Sheath Diameter	6.2 mm $\pm$ 0.4 mm (0.24" $\pm$ 0.0157")
Sheath Color	Black

Electrical

Max. DC Resistance of a Single Conductor	7.35 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≥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 change≤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	436 mm × 436 mm × 222 mm (17.17" × 17.17" × 8.74") (L × W × H)
Transport Package Dimensions	470 mm × 470 mm × 470 mm (18.50" × 18.50" × 18.50") (L × W × H)
Net Weight	11.7 kg ± 0.6 kg (25.79 lb ± 1.32 lb)
Gross Weight	12.7 kg ± 0.6 kg (28.00 lb ± 1.32 lb)

Compliance Standard

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

Type	Model	Description
Network Cable	DH-PFM920-6F	305m Outdoor F/UTP CAT6 Network Cable (Black, PE sheath)

Dimensions (mm[inch])

