

DH-PFM920-6AU

305m Outdoor U/UTP CAT6A Network Cable (Black)



- 305 m (1000 ft)/carton Outdoor U/UTP CAT6A, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- Customized PE 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 0.01 mm (0.0224" \pm 0.0004")
American Wire Gauge	23AWG

Insulation

Insulating Material	Foaming PE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	1.1 mm \pm 0.1 mm (0.0433" \pm 0.004")
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown

Rip Cord

Material	Polyester
Specification	150D \times 3

Separator

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

Wrapping Tape

Material	Plastic-aluminum-plastic
Thickness	0.07 mm \times 24 mm (0.0028" \times 0.9449")

Sheath

Sheath Material	MDPE
Min. Average Thickness	0.7 mm (0.0276")
Sheath Diameter	7 mm \pm 0.3 mm (0.2756" \pm 0.0118")
Sheath Color	Black

Electrical

Max. DC Resistance of a Single Conductor	7.35 Ω /100 m
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 34.8 dB/100 m@500 MHz
Max. Attenuation	\geq 45.3 dB/100 m@500 MHz
Return Loss	\geq 17.3 dB/100 m@500 MHz

Mechanical

Tensile Strength	Sheath \geq 12 MPa, insulation \geq 10 Mpa
Elongation at Break	Sheath \geq 350%, insulation \geq 200%
Installation Bending Radius	>15 times of outer cable diameter
Conductor Elongation at Break	\geq 15%

Environmental

Shrinkage of Insulation	\leq 5%
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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	305.0 m (1000.66 ft) a roll, plywood wooden shaft
Packaging Dimensions	300 mm × 300 mm × 320 mm (11.81" × 11.81" × 12.60") (L × W × H)
Net Weight	15 kg ± 0.60 kg (33.07 lb ± 1.32 lb)
Gross Weight	16.50 kg ± 0.60 kg (36.38 lb ± 1.32 lb)

Compliance Standard

Compliance Standard	YD/T 3296.2-2018
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920-6AU	305m Outdoor U/UTP CAT6A Network Cable (Black)

Dimensions (mm[inch])

mm[ft]

