

DH-PFM920-6AU

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



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

Min. Average Thickness	0.7 mm (0.0276")
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- 305 m (1000 ft)/roll 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.

Sheath Material	MDPE
Sheath Diameter	7 mm $\pm$ 0.3 mm (0.2756" $\pm$ 0.0118")
Sheath Color	Black

Electrical

Max. DC Resistance of a Single Conductor	7.9 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%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	$\geq$ 9.6 MPa, rate of changes $\leq$ 20%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	-20 $^{\circ}$ C to +60 $^{\circ}$ C (-4 $^{\circ}$ F to +140 $^{\circ}$ 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])

