

DH-PFM920-6UN

305m Outdoor UTP CAT6 Cable (Black)



- 305 m (1000 ft)/carton Outdoor UTP CAT6, 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)
Diameter	0.53 mm $\pm$ 0.02 mm (0.02" $\pm$ 0.0008")
American Wire Gauge	24AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.21 mm (0.01")
Diameter	0.95 mm $\pm$ 0.06 mm (0.04" $\pm$ 0.0024")
Color	Orange, white/orange; Green, white/green; Blue, white/blue; Brown, white/brown

Rip Cord

Material	Polyester
Specification	3 $\times$ 150D

Separator

Material	PE
Specification	Translucent 4.3 $\times$ 0.35 mm

Inner Sheath

Material	PVC
Min. Average Thickness	0.45mm(0.02")

Diameter	5.6 mm $\pm$ 0.4 mm (0.22" $\pm$ 0.02")
Color	White

Sheath

Material	MDPE
Min. Average Thickness	0.5 mm (0.02")
Diameter	6.8 mm $\pm$ 0.4 mm (0.27" $\pm$ 0.02")
Color	Black

Electrical

Max. DC Resistance of a Single Conductor	9.5 Ω /100 m (328.08 ft)
Min. Insulation Resistance	5,000MQ·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	$\geq$ 39.30 dB/100 m@250 MHz
Max. Attenuation	34.8 dB/100 m@250 MHz
Return Loss	$\geq$ 17.3 dB/100 m@250 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	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5 MPa, ≥100%
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	
Verticle Flame Test	Comply with IEC 60332-1-2

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	436.0 mm × 436.0 mm × 236.0 mm (17.17" × 17.17" × 9.29") (L × W × H)
Transport Package Dimensions	495.0 mm × 457.0 mm × 466.0 mm (19.49" × 18.00" × 18.35")(L × W × H)
Net Weight	12.4 kg ± 0.6 kg (27.34 lb ± 1.32 lb)
Gross Weight	13.4 kg ± 0.6 kg (29.54 lb ± 1.32 lb)

Compliance Standard	
Compliance Standard	Q/DXJ 067-2019, EN50575

Ordering Information

Type	Model	Description
Network Cable	DH-PFM920-6UN	305m Outdoor UTP CAT6 Cable (Black)

Dimensions (mm[inch])

