DH-PFM920-6U

305m Outdoor UTP CAT6 Cable



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.

Features

- 305.0 m (1000 ft)/carton outdoor UTP CAT6, power over Ethernet, compatible with one cable.
- High-purity Oxygen-Free Copper conductor material.
- Customized MDPE outer sheath; meet ANSI/TIA 568-C.2 flame retardant class certified
- Environmentally friendly and all materials used are RoHS compliant.

Technical Specification

Conductor

Material	Oxygen free copper (99.97% purity)
Diameter	0.57 mm ± 0.02 mm(0.02"± 0.0007")
American Wire Gauge	23AWG

Insulation

Material	HDPE
Min. Average Thickness	0.21 mm(0.0082")
Diameter	1.02 mm ± 0.06 mm(0.04"± 0.0023")
Color	8-core, Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Rip Cord

Material	Polyester
Specification	500D

Separator

Material	PE
Dimension	Translucent 4.5 × 0.4 mm(0.03")

Wrap

Material	Polyester tape (transparent)
Dimension	W: 25mm±2mm*T: 0.026mm±0.02mm(W: 0.98"±0.07"*T: 0.0010"±0.0007")

Sheath

Material	MDPE
Min. Average Thickness	0.7 mm(0.03")
Diameter	6.2 mm ± 0.4 mm(0.2441"± 0.0157")
Color	Black

Electrical

Max. DC Resistance of a Single Conductor	7.35Ω/100 m
Min. Insulation Resistance	5000MΩ·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 ± 15Ω
Near End Cross Talk	≥39.30 dB/100 m@250 MHz
Max. Attenuation	32.8 dB/100 m@250 MHz
Return Loss	≥17.3 dB/100 m@250 MHz

Mechanical

Tensile Strength	Sheath≥12 MPa, insulation≥16 MPa
Elongation at Break	Sheath≥350%, insulation≥300%
Installation Bending Radius	>8 times of outer cable diameter
Conductor Elongation at Break	≥15%

Environmental

Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operation 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 and Humidity	–10°C to +40°C (14°F to 104°F), <60% (RH)

Packaging

Length	305m (1000.66 ft) ± 2 m (6.56ft)
Packaging Dimensions	476mm × 476 mm × 222 mm (18.74" × 18.74" ×8.74") (L × W × H)
Packaging Method	305 m (1000.66 ft) a carton, one protection carton with 2 cartons inside
Net Weight	11.7kg±0.6kg (25.79 lb±1.32lb)
Gross Weight	12.7kg±0.6kg (27.99 lb±1.32lb)

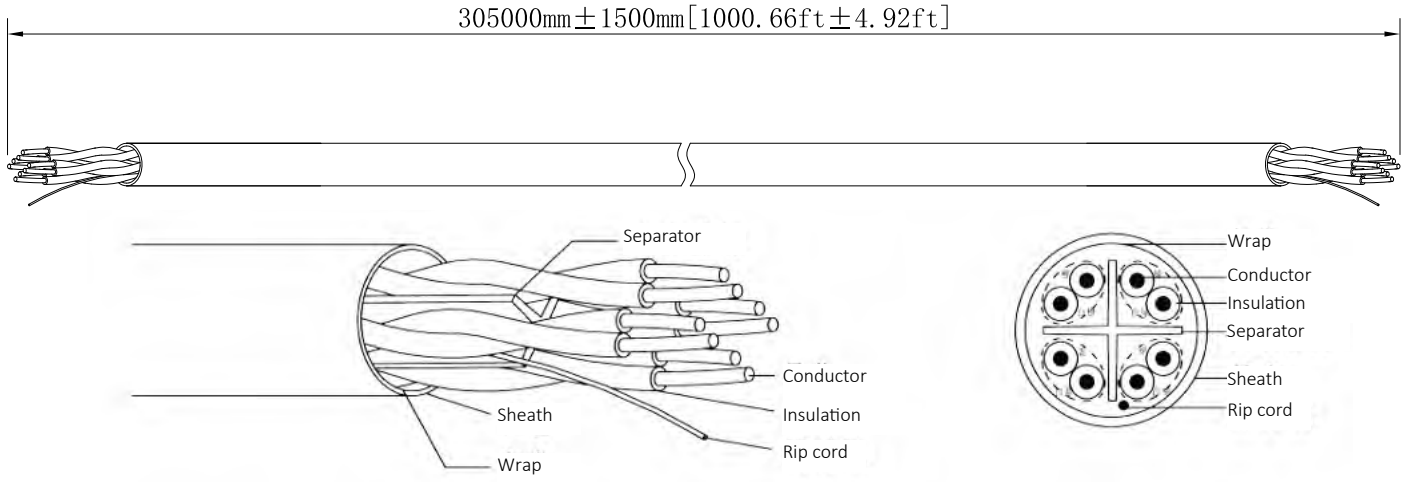
Executive Standard

Executive Standard	ANSI/TIA 568-C.2

Ordering Information

Type	Model	Description
Network Cable	DH-PFM920-6U	Outdoor UTP CAT6 Cable

Dimensions (mm/inch)



Package Information

· 305m Outdoor UTP CAT6 cable *1

Rev 001.001 © 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice.
Pictures in the document are for reference only, and the actual product shall prevail.