

DH-PFM923I-6FN-CD

305m F/UTP CAT6 Network Cable (White,LSZH,CPR Dca)



- 305 m (1000 ft)/carton F/UTP CAT6, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- Customized LSZH outer sheath; CE CPR Dca flame retardant class certified.
- 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	0.53 mm ± 0.01 mm (0.021" ± 0.0004")
American Wire Gauge	24AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	1.02 mm ± 0.1 mm (0.040" ± 0.004")
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	Tin-plated copper
Specification	0.4mm±0.01mm (0.016" × 0.0004")

Separator

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

Outer Shield

Material	Composite aluminum foil (Conductive side facing inward)
Specification	0.04 mm × 22 mm (0.002" × 0.867")

Sheath

Sheath Material	LSZH
Min. Average Thickness	0.5 mm (0.02")
Sheath Diameter	6.4 mm ± 0.3 mm (0.252" ± 0.012")
Sheath Color	White

Electrical

Max. DC Resistance of a Single Conductor	8.7 Ω/100 m
Min. Insulation Resistance	5000 MΩ·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 ± 15 Ω
Near-end Crosstalk	≥39.30 dB/100 m@250 MHz
Max. Attenuation	34.8 dB/100 m@250 MHz
Return Loss	≥17.3 dB/100 m@250 MHz

Mechanical

Tensile Strength	Sheath≥10 MPa, insulation≥16 Mpa
Elongation at Break	Sheath≥125%, insulation≥300%
Installation Bending Radius	>8 times of outer cable diameter

Conductor Elongation at Break	≥10%
Environmental	
Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥8 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

Vertical Flame Test	EN 50399; EN 60332-1-2; EN 61034-2; EN 60754-2
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Packaging

Cable Length	305.0 m± 2 m (1,000.66 ft ± 6.56 ft)
Packaging Method	305 m/box
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 (18.5" × 118.5" × 18.5") (L × W × H)
Net Weight	12.00 kg ± 0.50 kg (26.46 lb ± 1.10 lb)
Gross Weight	13.00 kg ± 0.50 kg (28.66 lb ± 1.10 lb)

Compliance Standard

Compliance Standard	Q / DXJ 067-2024,EN50575
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Certifications

Certifications	CPR Dca
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Flame-retardant Standard

Compliance Standard	EN50575
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM923I-6FN-CD	305m F/UTP CAT6 Network Cable (White,LSZH,CPR Dca)

Dimensions (mm[inch])

