DH-PFM923I-6AU-CD

305m U/UTP CAT6A Network Cable (White,LSZH,CPR Dca)

- 305 m (1000 ft)/roll U/UTP CAT6A, 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	0.57 mm ± 0.01 mm (0.0224" ± 0.0004")
American Wire Gauge	23AWG

Insulation

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

Rip Cord

Material	Polyester
Specification	150D × 3

Separator

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

Wrapping Tape

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

Sheath

Min. Average Thickness	0.5 mm (0.02")
Sheath Material	LSZH
Sheath Diameter	6.6 mm ± 0.3 mm (0.2598" ± 0.0118")
Sheath Color	White

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 Ω ± 15 Ω
Near-end Crosstalk	≥33.8 dB/100 m@500 MHz
Max. Attenuation	≥45.3 dB/100 m@500 MHz
Return Loss	≥15.2 dB/100 m@500 MHz

Mechanical

Tensile Strength	Sheath≥10 MPa, insulation≥10 Mpa
Elongation at Break	Sheath≥125%, insulation≥200%
Installation Bending Radius	>15 times of outer cable diameter
Conductor Elongation at Break	≥15%

Environmental

Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥8 MPa,≥125%
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

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	12 kg ± 0.50 kg (26.46 lb ± 1.10 lb)
Gross Weight	13.50 kg ± 0.50 kg (29.76 lb ± 1.10 lb)

Compliance Standard

Compliance Standard	ANSI/TIA-568.2-D

Certifications

Certifications	CPR Dca

Flame-retardant Standard

Compliance Standard	EN50575

Ordering Information

Type	Model	Description
Network Cable	DH-PFM923I-6AU-CD	305m U/UTP CAT6A Network Cable (White,LSZH,CPR Dca)

Dimensions (mm[inch])

mm[ft]