

DH-PFM923I-7SF-CD

305m S/FTP CAT7 Network Cable (White, CPR Dca)



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 (0.02" $\pm$ 0.0004")
American Wire Gauge	23AWG

Insulation

Insulating Material	Foaming PE
Min. Average Thickness	0.21 mm (0.008")
Insulation Diameter	1.35 mm $\pm$ 0.1 mm (0.05" $\pm$ 0.004")
Insulation Color	8 cores. Blue, white and blue; Orange, white and orange; Green, white and green; Brown, white and brown

Inner Shield

Material	Composite aluminum foil (Conductive side facing inward)
Specification	13 mm $\times$ 0.07 mm (0.51" $\times$ 0.003") (W $\times$ T)

Rip Cord

Material	Polyester
Specification	500D

Drain Wire

Material	Copper
Specification	7 cores, each with a diameter of 0.127 mm (0.005")

Outer Shield

- 305 m a roll, S/FTP CAT7, 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.
- Environmentally friendly and all materials used are RoHS 2.0 compliant.
- Meets FLUKE test.
- 10-year warranty.

Material	Tinned copper
Specification	16 strands, each strand consisting of 4 cores, each core with a diameter of 0.1 mm (0.004")
Shield Coverage	> 30%

Sheath

Min. Average Thickness	0.5 mm (0.02")
Sheath Material	LSZH
Sheath Diameter	8.0 mm $\pm$ 0.4 mm (0.31" $\pm$ 0.02")
Sheath Color	White

Electrical

Max. DC Resistance of a Single Conductor	7.35 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	$\geq$ 60.7 dB/100 m@600 MHz
Max. Attenuation	50.1 dB/100 m@600 MHz
Return Loss	$\geq$ 17.3 dB/100 m@600 MHz

Mechanical

Tensile Strength	Sheath $\geq$ 9 MPa, insulation $\geq$ 9 MPa
Elongation at Break	Sheath $\geq$ 100%, insulation $\geq$ 100%
Installation Bending Radius	> 15 times of outer cable diameter
Conductor Elongation at Break	$\geq$ 8%

Environmental

Shrinkage of Insulation	$\leq$ 5%
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Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	After a 7-day +100 °C (+212 °F) test, the tensile strength remained above 70%, and the elongation at break remained above 50%
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)

Packaging

Cable Length	305 m ± 2 m (1,000.66 ft ± 6.56 ft)
Packaging Method	305 m (1,000.66 ft) a roll
Packaging Dimensions	380 mm × 380 mm × 350 mm (14.96" × 14.96" × 13.78") (L × W × H)
Net Weight	21.5 kg ± 0.7 kg (47.40 lb ± 1.54 lb)
Gross Weight	24.5 kg ± 0.7 kg (54.01 lb ± 1.54 lb)

Compliance Standard

Compliance Standard	ISO/IEC 11801, 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-7SF-CD	305m S/FTP CAT7 Network Cable (White, CPR Dca)

Dimensions (mm[inch])

