

DH-PFM920-7SF

305m S/FTP CAT7 Network Cable (Black, FR-PE sheath)



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 (0.02" ± 0.0004")
American Wire Gauge	23AWG

Insulation

Insulating Material	Foaming PE
Min. Average Thickness	0.21 mm (0.008")
Insulation Diameter	1.35 mm ± 0.1 mm (0.05" ± 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 × 0.07 mm (0.51" × 0.003") (W × 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, outdoor S/FTP CAT7, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- Customized FR-PE outer sheath, certain degree of waterproof.
- Environmentally friendly and all materials used are RoHS2.0 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	> 65%

Sheath

Min. Average Thickness	0.7 mm (0.03")
Sheath Material	FR-PE
Sheath Diameter	8.0 mm ± 0.4 mm (0.31" ± 0.02")
Sheath Color	Black

Electrical

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

Mechanical

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

Environmental

Shrinkage of Insulation	≤ 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 kg ± 0.7 kg (46.30 lb ± 1.54 lb)
Gross Weight	24 kg ± 0.7 kg (52.91 lb ± 1.54 lb)

Compliance Standard

Compliance Standard	IEC 61156, IEC 62255-1
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920-7SF	305m S/FTP CAT7 Network Cable (Black, FR-PE sheath)

Dimensions (mm[inch])

