

# DH-PFM920I-5EF-C

305m FTP CAT5E Network Cable



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 FTP CAT5E, power over Ethernet, compatible with one cable
- High-purity Oxygen-Free Copper conductor material
- Customized PVC outer sheath; meet CE CPR Eca and ANSI/TIA 568-C.2 flame retardant class certified
- 10-year warranty

**Technical Specification****Conductor**

Material	Oxygen free copper (99.95% purity)
Diameter	0.52 mm $\pm$ 0.02mm(0.0204" $\pm$ 0.0007")
American Wire Gauge	24AWG

**Insulation**

Material	HDPE
Min. Average Thickness	0.25 mm(0.0098")
Diameter	1.04 mm $\pm$ 0.05 mm(0.0409" $\pm$ 0.0019")
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

**Rip Cord**

Material	Polyester
Specification	500D

**Drain Wire**

Material	Solid tinned copper
Specification	0.50 mm $\pm$ 0.10 mm(0.0196" $\pm$ 0.0039")

**Shielding**

Material	Polyester aluminum foil
Specification	19 $\times$ 0.065mm (19 $\times$ 0.0025")

**Sheath**

Material	PVC
Min. Average Thickness	0.40 mm(0.0157")
Diameter	6.2 mm $\pm$ 0.5 mm(0.2440" $\pm$ 0.0196")
Color	Gray

**Electrical**

Max. DC Resistance of a Single Conductor(20 C)	9.5 $\Omega$ /100 m
Insulation Resistance	5000M $\Omega$ ·km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Unbalanced line-to-ground capacitance	160pF/100m
Working Capacitance	56pF/100m

**Transmission**

Characteristic Impedance	100 $\pm$ 15 $\Omega$
Near End Cross Talk	$\geq$ 35.30 dB/100 m@100 MHz
Max. Attenuation	$\leq$ 22.0 dB/100 m@100 MHz
Return Loss	$\geq$ 20.1 dB/100 m@100 MHz

**Mechanical**

Tensile Strength	Sheath $\geq$ 13.5 MPa, insulation $\geq$ 16 MPa
Elongation at Break	Sheath $\geq$ 150%, insulation $\geq$ 300%
Installation Bending Radius	>8 times of outer cable diameter

**Environmental**

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 +75°C (-4°F to 167°F)
Installation Temperature	0°C to +60°C (32°F to 140°F)
Storage Temperature	-15°C to +75°C (5°F to 167°F)

**Packaging**

Length	305.0 m (1000.66 ft) ± 2.0 m (6.56ft)
Packaging Dimensions	350mm×350mm×300mm (13.77"x13.77"x11.81") (L × W × H)
Packaging Method	305.0 m (1000.66 ft) a roll, plywood wooden shaft
Gross Weight	14kg±0.5kg (30.86 lb±1.10lb)
Net Weight	11.5kg±0.5kg ( 25.35lb±1.10lb)

**Executive Standard**

Executive Standard	ANSI/TIA 568-C.2
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**Certification**

Certification	CPR Eca
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**Ordering Information**

Type	Model	Description
Network Cable	DH-PFM920I-5EF-C	305m FTP CAT5E Cable

**Package Information**

· 305m FTP CAT5E cable \*1