

DH-PFM922I-5EUN-C

305m U/UTP CAT5E Network Cable (White,CCA)



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	CCA (copper content 22%–31%)
Conductor Structure	0.5 mm $\pm$ 0.01 mm (0.02" $\pm$ 0.0004")
American Wire Gauge	24AWG

Insulation

Insulating Material	HDPE
Min. Average Thickness	0.18 mm (0.01")
Insulation Diameter	0.9 mm $\pm$ 0.06 mm (0.04" $\pm$ 0.002")
Insulation Color	8 cores. Blue, white and blue; Orange, white and orange; Green, white and green; Brown, white and brown

Rip Cord

Material	Polyester
Specification	500D

Sheath

Min. Average Thickness	0.5 mm (0.02")
Sheath Material	PVC
Sheath Diameter	5.1 mm $\pm$ 0.30 mm (0.20" $\pm$ 0.01")
Sheath Color	White

- 305 m (1,000.66 ft)/carton, U/UTP CAT5E, power over ethernet, compatible with one cable.
- Manufacturing excellence.
- Customized PVC outer sheath, equipped with certain flame retardancy.
- 10-year warranty.

Electrical

Max. DC Resistance of a Single Conductor	14.5 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	$\geq$ 35.3 dB/100 m@100 MHz
Max. Attenuation	$\geq$ 24.2 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
Conductor Elongation at Break	$\geq$ 8%

Environmental

Shrinkage of Insulation	$\leq$ 5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	$\geq$ 12.5 MPa, $\geq$ 125%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	-20 $^{\circ}$ C to +60 $^{\circ}$ C (-4 $^{\circ}$ F to +140 $^{\circ}$ F)
Installation Temperature	0 $^{\circ}$ C to +50 $^{\circ}$ C (+32 $^{\circ}$ F to +122 $^{\circ}$ F)
Storage Temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C (+14 $^{\circ}$ F to +104 $^{\circ}$ F)
Storage Humidity	<60% (RH)

Security

Vertical Flame Test	IEC 60332-2-2
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Packaging

Cable Length	305 m ± 2 m (1,000.66 ft ± 6.56 ft)
Packaging Method	305 m (1,000.66 ft) a carton, one carton with 2 inner cartons
Packaging Dimensions	364 mm × 216 mm × 364 mm (14.33" × 8.50" × 14.33") (L × W × H)
Transport Package Dimensions	447 mm × 382 mm × 386 mm (17.60" × 15.04" × 15.20") (L × W × H)
Net Weight	6.5 kg ± 0.6 kg (14.33 lb ± 1.32 lb)
Gross Weight	7.5 kg ± 0.6 kg (16.53 lb ± 1.32 lb)

Compliance Standard

Compliance Standard	Q/DXJ 067-2024
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM922I-5EUN-C	305m U/UTP CAT5E Network Cable (White,CCA)

Dimensions (mm[inch])

