

DH-PFM920I-6AU-C

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



- 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 Eca flame retardant class certified.
- 10-year warranty.

Sheath Material	PVC
Sheath Diameter	7 mm $\pm$ 0.3 mm (0.276" $\pm$ 0.012")
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	$\geq$ 33.8 dB/100 m@500 MHz
Max. Attenuation	$\geq$ 45.3 dB/100 m@500 MHz
Return Loss	$\geq$ 15.2 dB/100 m@500 MHz

Mechanical

Tensile Strength	Sheath $\geq$ 13.5 MPa, insulation $\geq$ 10 MPa
Elongation at Break	Sheath $\geq$ 150%, insulation $\geq$ 200%
Installation Bending Radius	>15 times of outer cable diameter
Conductor Elongation at Break	$\geq$ 15%

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)

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 (0.0224" $\pm$ 0.0004")
American Wire Gauge	23AWG

Insulation

Insulating Material	Foaming PE
Min. Average Thickness	0.21 mm (0.0083")
Insulation Diameter	1.07 mm $\pm$ 0.1 mm (0.0421" $\pm$ 0.004")
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown

Rip Cord

Material	Polyester
Specification	150D $\times$ 3

Separator

Material	PE
Specification	Translucent 4.7 mm $\times$ 0.6 mm (0.1850" $\times$ 0.0236")

Wrapping Tape

Material	Plastic-aluminum-plastic
Thickness	0.07 mm $\times$ 24 mm (0.0028" $\times$ 0.9449")

Sheath

Min. Average Thickness	0.5 mm (0.02")
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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	Complies with IEC 60332-1-2
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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	13 kg ± 0.50 kg (28.66 lb ± 1.10 lb)
Gross Weight	14.50 kg ± 0.50 kg (31.97 lb ± 1.10 lb)

Compliance Standard

Compliance Standard	ANSI/TIA-568.2-D
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Certifications

Certifications	CPR Eca
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Flame-retardant Standard

Compliance Standard	EN50575
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920I-6AU-C	305m U/UTP CAT6A Network Cable (White, CPR Eca)

Dimensions (mm[inch])

