

DH-PFM920I-6AU-C

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



- 305 m (1000 ft)/carton 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.

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

Sheath Material	PVC
Min. Average Thickness	0.5 mm (0.02")
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%
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Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5 MPa,≥125%
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)
Security	
Vertical Flame Test	Complies with IEC 60332-1-2
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
Certifications	
Certifications	CPR Eca
Flame-retardant Standard	
Compliance Standard	EN50575

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

Dimensions (mm[inch])

