

# 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 ± 0.01 mm (0.0224" ± 0.0004")
American Wire Gauge	23AWG

### Insulation

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

### Rip Cord

Material	Polyester
Specification	150D × 3

### Separator

Material	PE
Specification	Translucent 4.7 mm × 0.6 mm (0.1850" × 0.0236")

### Wrapping Tape

Material	Plastic-aluminum-plastic
Thickness	0.07 mm × 24 mm (0.0028" × 0.9449")

### Sheath

Sheath Material	PVC
Min. Average Thickness	0.5 mm (0.02")
Sheath Diameter	7 mm ± 0.3 mm (0.276" ± 0.012")
Sheath Color	White

### 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	≥33.8 dB/100 m@500 MHz
Max. Attenuation	≥45.3 dB/100 m@500 MHz
Return Loss	≥15.2 dB/100 m@500 MHz

### Mechanical

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

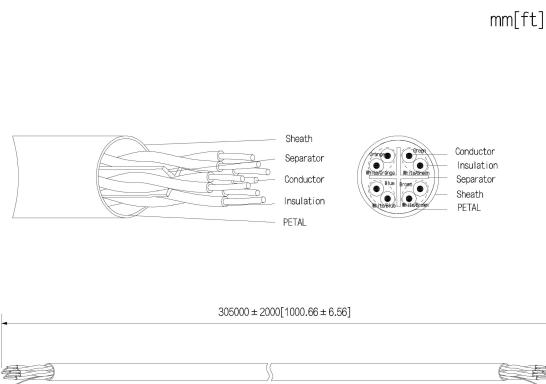
### Environmental

Shrinkage of Insulation	≤5%
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Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	$\geq 12.5 \text{ MPa}$ , $\geq 125\%$
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	$-20^{\circ}\text{C}$ to $+60^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $+140^{\circ}\text{F}$ )
Installation Temperature	$0^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ ( $+32^{\circ}\text{F}$ to $+122^{\circ}\text{F}$ )
Storage Temperature	$-10^{\circ}\text{C}$ to $+40^{\circ}\text{C}$ ( $+14^{\circ}\text{F}$ to $+104^{\circ}\text{F}$ )
Storage Humidity	$<60\%$ (RH)
Security	
Vertical Flame Test	Complies with IEC 60332-1-2

## Dimensions (mm[inch])



## Packaging

Cable Length	$305.0 \text{ m} \pm 2 \text{ m}$ ( $1,000.66 \text{ ft} \pm 6.56 \text{ ft}$ )
Packaging Method	305.0 m (1000.66 ft) a roll, plywood wooden shaft
Packaging Dimensions	$300 \text{ mm} \times 300 \text{ mm} \times 320 \text{ mm}$ ( $11.81^{\prime\prime} \times 11.81^{\prime\prime} \times 12.60^{\prime\prime}$ ) (L × W × H)
Net Weight	$13 \text{ kg} \pm 0.50 \text{ kg}$ ( $28.66 \text{ lb} \pm 1.10 \text{ lb}$ )
Gross Weight	$14.50 \text{ kg} \pm 0.50 \text{ kg}$ ( $31.97 \text{ lb} \pm 1.10 \text{ lb}$ )

## 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)