

DH-PFM923I-6U-C

305m U/UTP CAT6 Network Cable (White,LSZH,CPR Eca)



- 305 m (1,000 ft)/carton U/UTP CAT6, power over Ethernet, compatible with one cable.
- · High-purity oxygen-free copper conductor.
- 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	HDPE	
Min. Average Thickness	0.21 mm (0.0083")	
Insulation Diameter	1.0 mm ± 0.1 mm (0.04" ± 0.0004")	
Insulation Color	8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown	
Rip Cord		
Material	Polyester	
Specification	500D	
Separator		
Material	PE	
Specification	Translucent 4.5 mm × 0.4 mm (0.18" × 0.0157")	
Sheath		
Min. Average Thickness	0.5 mm (0.02")	
Sheath Material	PVC	

Sheath Diameter	6.3 mm ± 0.50 mm (0.25" ± 0.0197")	
Sheath Color	White	
Electrical		
Max. DC Resistance of a Single Conductor	7.5 Ω@100 m (328.08 ft)	
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	≥39.3 dB/100 m@250 MHz	
Max. Attenuation	32.8 dB/100 m@250 MHz	
Return Loss	≥17.3 dB/100 m@250 MHz	
Mechanical		
Tensile Strength	Sheath≥13.5 MPa, insulation≥16 Mpa	
Elongation at Break	Sheath≥150%, insulation≥300%	
Installation Bending Radius	>8 times of outer cable diameter	
Conductor Elongation at Break	≥10%	
Environmental		
Shrinkage of Insulation	≤5%	
Color Migration Resistance of Insulation	No migration	
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5 MPa, ≥125%	

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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	Comply with IEC 60332-1-2	
Packaging		
Cable Length	305.0 m± 2 m (1,000.66 ft ± 6.56 ft)	
Packaging Method	305 m (1,000 ft) a carton, one carton with 2 inner cartons	
Packaging Dimensions	416 mm × 412 mm × 220 mm (16.38" × 16.22" × 8.66") (L × W × H)	
Transport Package Dimensions	467 mm × 437 mm × 441 mm (18.39" × 17.20" × 17.36") (L × W × H)	
Net Weight	12.4 kg ± 0.5 kg (27.34 lb ± 1.10 lb)	
Gross Weight	13.4 kg ± 0.5 kg (29.54 lb ± 1.10 lb)	
Compliance Standard		
Compliance Standard	ISO/IEC 11801, EN50575	
Certifications		
Certifications	CPR Eca	
Flame-retardant Standard		
Compliance Standard	EN50575	

Ordering Information				
Туре	Model	Description		
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Dimensions (mm[inch])

 $\mathsf{mm}[\mathsf{ft}]$





