

DH-PFM922I-5EUN-C-100

100m UTP CAT5e Cable



- 100m (328.08 ft)/carton UTP CAT5e, power over Ethernet, compatible with one cable.
- Manufacturing excellence.
- Customized PVC outer sheath, equipped with certain flame retardancy.
- Top-notch quality commitment for 10 years.

System 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%)
Diameter	0.5 mm ± 0.01 mm
Wire Gauge	24 AWG

Insulation

Material	HDPE
Thickness	0.18 mm
Diameter	0.90 mm ± 0.06 mm
Color	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Rip Cord

Material	Polyester fiber
Specification	500D

Sheath

Material	FR-PVC (ROHS compliant)
Min. Average Thickness	0.5 mm
Diameter	5.1 mm ± 0.3 mm
Color	Orange

Electrical

Max. DC Resistance of a Single Conductor	14.5 Ω/100 m (14.5 Ω/328.08 ft)
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Min. Insulation Resistance	5000 MΩ/km
Max. DC Resistance Unbalance	2% (pair intra), 4% (pairs inter)
Max. Mutual Capacitance	5.6 nF/100 m (5.6 nF/328.08 ft)
Dielectric Strength	No breakdown with 1kV DC for 1 min

Mechanical

Tensile Strength	Sheath ≥13.5 MPa, insulation ≥16 MPa
Elongation at Break	Sheath ≥150%, insulation ≥300%
Installation Bending Radius	>8 times of the outer cable diameter
Conductor Elongation at Break	≥8%

Environmental

Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5 MPa, ≥100%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operation 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 and Humidity	-10 °C to +40 °C (14 °F to 104 °F), <60% (RH)

Security

Vertical Fire Propagation Test	Comply with IEC 60332-2-2
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Packaging

Cable Length	100 m ± 1 m (328.08 ft ± 3.28 ft)
Net Weight	2 kg ± 0.4 kg (4.41 lb ± 0.88 lb)
Gross Weight	10.8 kg ± 0.8 kg (23.81 lb ± 1.76 lb)

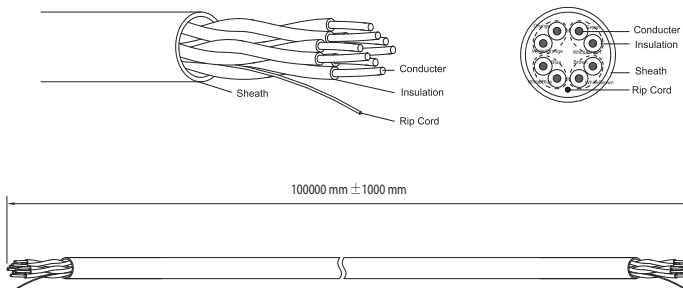
Cable Series | DH-PFM922I-5EUN-C-100

Inner Carton Dimensions	220 mm × 220 mm × 105 mm (8.66" × 8.66" × 4.13") (L × W × H)
Packaging Dimensions	537 mm × 242 mm × 253 mm (21.14" × 9.53" × 9.96") (L × W × H)
Packaging Method	100 m (328.08 ft) per carton, and 5 cartons per transport package
Compliance	
Executive Standards	Q/DXJ 067-2019

Ordering Information

Type	Model	Description
Cable Series	DH-PFM922I-5EUN-C-100	100m UTP CAT5e Cable

Dimensions (mm[inch])



Transmission Characteristics (100 m at 20°C) (328.08 ft at 68°F)					
Frequency (MHz)	Phase delay ≤ ns	IL ≤ dB	TCL ≥ dB*	EL TCTL ≥ dB*	NEXT ≥ dB
1	n/s	n/s	50.0	35.0	n/s
4	552.0	4.9	44.0	23.0	56.3
8	547.0	6.9	41.0	16.9	51.8
10	545.0	7.8	40.0	15.0	50.3
16	543.0	9.9	38.0	10.9	47.2
20	542.0	10.2	37.0	9.0	45.8
25	541.0	11.4	36.0	7.0	44.3
31.25	540.0	12.9	35.1	n/s	42.9
62.5	539.0	18.7	32.0	n/s	38.4
100	538.0	24.2	30.0	n/s	35.3
PS NEXT ≥ dB	EL FEXT ≥ dB	PS EL FEXT ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)
n/s	n/s	n/s	n/s	n/s	n/s
53.3	52.0	49.0	23.0	45.0	100±15
48.8	45.9	42.9	24.5		
47.3	44.0	41.0	25.0		
44.2	39.9	36.9	25.0		
42.8	38.0	35.0	25.0		
41.3	36.0	33.0	24.3		
39.9	34.1	31.1	23.6		
35.4	28.1	25.1	21.5		
32.3	24.0	21.0	20.1		

Note: Executive standard for the above parameters: Q/DXJ 067-2019
"n/s"=Not Specified