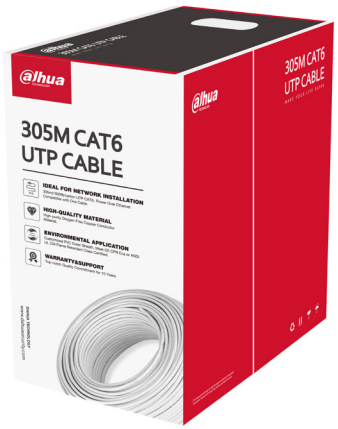
DH-PFM923I-6UN-C

UTP CAT6 Cable



- 305 m (1000 ft)/carton UTP CAT6, power over Ethernet, compatible with one cable
- High-purity oxygen-free copper conductor
- Customized PVC outer sheath; CE CPR Eca flame retardant class certified
- 10-year warranty

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	Oxygen free copper (99.97% purity)
Diameter	0.53mm ± 0.01 mm

Insulation

Material	HDPE
Min. Average Thickness	0.21 mm
Diameter	0.95 mm ± 0.1 mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Separator

Material	PE
Specification	Translucent 4.5 × 0.4 mm

Rip Cord

Material	Polyester
Specification	500D

Sheath

Material	LSZH
Min. Average Thickness	0.5 mm
Diameter	6.0 mm ± 0.3 mm
Color	White

Electrical

Max. DC Resistance of a Single Conductor	8.7 Ω/100 m
Min. Insulation Resistance	5000MΩ·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 ± 15Ω
Near End Cross Talk	
Max. Attenuation	
Return Loss	

Mechanical

Tensile Strength	Sheath≥10 MPa, insulation≥16 MPa
Elongation at Break	Sheath≥125%, 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	≥8 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 60332-1-2

Packaging

Cable Length	305.0 m (1000.66 ft) ± 1.5 m (4.92 ft)
Inner Carton Dimensions	416.0 mm × 412.0 mm × 220.0 mm (16.38" × 16.22" × 8.66") (L × W × H)
Packaging Method	305.0 m (1000.66 ft) a carton, one carton with 2 inner cartons
Net Weight	≥10.5 kg (23.15 lb)
Gross Weight	≥11.5 kg (25.35 lb)

Compliance

Executive Standards	Q/DXJ 067-2019, EN50575-2014

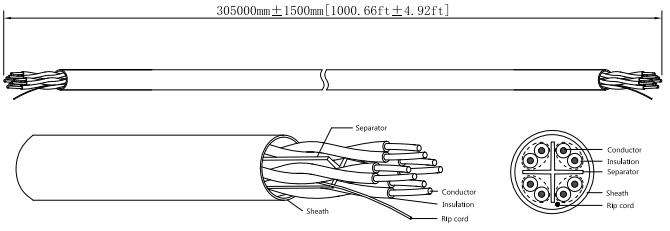
Certification

Certification	CPR Eca

Ordering Information

Type	Model	Description
Network Cable	DH-PFM923I-6UN-C	UTP CAT6 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	PS NEXT ≥ dB
1	n/s	n/s	50.0	35.0	n/s	n/s
4	552.0	4.0	44.0	23.0	66.3	63.3
8	547.0	5.6	41.0	16.9	61.8	58.8
10	545.0	6.4	40.0	15.0	60.3	57.3
16	543.0	8.1	38.0	10.9	57.2	54.2
20	542.0	9.0	37.0	9.0	55.8	52.8
25	541.0	10.1	36.0	7.0	54.3	51.3
30*	540.6	11.0	35.2	5.5	53.1	50.1
31.25	540.0	11.3	35.1	n/s	52.9	49.9
62.5	539.0	16.3	32.0	n/s	48.4	45.4
100	538.0	21.0	30.0	n/s	45.3	42.3
200	537.0	30.7	27.0	n/s	40.8	37.8
250	536.0	34.8	26.0	n/s	39.3	36.3

Frequency (MHz)	EL FEXT ≥ dB	PS EL FEXT ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)
1	n/s	n/s	n/s	n/s	n/s
4	56.0	53.0	23.0	45.0	100±15
8	49.9	46.9	24.5		
10	48.0	45.0	25.0		
16	43.9	40.9	25.0		
20	42.0	39.0	25.0		
25	40.0	37.0	24.3		
30*	38.5	35.5	23.8		
31.25	38.1	35.1	23.6		
62.5	32.1	29.1	21.5		
100	28.0	25.0	20.1		
200	22.0	19.0	18.0		
250	20.0	17.0	17.3		

Note:
Executive standard for the above parameters: Q/DXJ 067-2019
"n/s"=Not Specified
"*"=Unless otherwise customer stated the test results default to not shown in test report but comply with standard

Rev 002.000
© 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice.
The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.