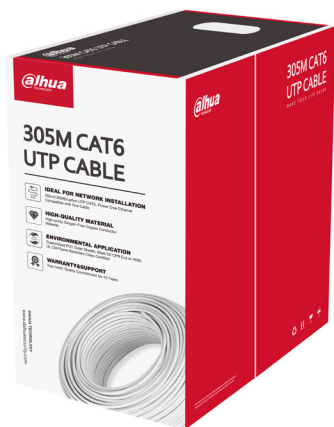


DH-PFM920I-6U-U

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; ANSI UL CM flame retardant class certified
- 10-year warranty
- Remarks: marked on the outer sheath of the cable: the manufacturer's mark and the category

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	0.57mm ± 0.01 mm
American Wire Gauge	23AWG

Insulation

Material	HDPE
Min. Average Thickness	0.21 mm
Diameter	1.0 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	PVC
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Min. Average Thickness	0.5 mm
Diameter	6.3 mm ± 0.3 mm
Color	White

Electrical

Max. DC Resistance of a Single Conductor	7.5Ω/100 m
Min. Insulation Resistance	5000MΩ·km
Max. DC Resistance Unbalance	5% (pair intra)
Dielectric Strength	No breakdown with 2.5KV DC for 2 seconds

Transmission

Characteristic Impedance	100 ± 15Ω
Near End Cross Talk	≥38.3 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≥13.8 MPa, insulation≥16.5 MPa
Elongation at Break	Sheath≥100%, insulation≥300%
Installation Bending Radius	>8 times of outer cable diameter
Conductor Elongation at Break	≥20%

Environmental

Shrinkage of Insulation	≤6%
Color Migration Resistance of Insulation	No migration

Sheath Tensile Strength and Elongation at Break after Aging	≥11.73 MPa, ≥50%
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 UL1685(without smoke measurements)
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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 master carton with 2 inner cartons
Net Weight	≥11.9 kg (26.24 lb)
Gross Weight	≥12.9 kg (28.44 lb)

Compliance

Executive Standards	ANSI/TIA 568-C.2-2009, UL444-2008
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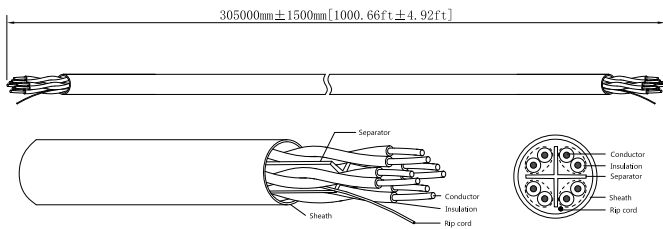
Certification

Certification	UL CM
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Ordering Information

Type	Model	Description
Network Cable	DH-PFM920I-6U-U	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	570	2.0	40.0	35.0	74.3	72.3
4	552	3.8	40.0	23.0	65.3	63.3
8	547	5.3	40.0	16.9	60.8	58.8
10	545	6.0	40.0	15.0	59.3	57.3
16	543	7.6	38.0	10.9	56.2	54.2
20	542	8.5	37.0	9.0	54.8	52.8
25	541	9.5	36.0	7.0	53.3	51.3
30*	540.6	10.4	35.2	5.5	53.1	50.1
31.25	540	10.7	35.1	n/s	51.9	49.9
62.5	539	15.4	32.0	n/s	47.4	45.4
100	538	19.8	30.0	n/s	44.3	42.3
200	537	29.0	27.0	n/s	39.8	37.8
250	536	32.8	26.0	n/s	38.3	36.3
Frequency (MHz)	ACRF ≥ dB	PS ACRF ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)	
1	67.8	64.8	20.0	45.0	100±15	
4	55.8	52.8	23.0			
8	49.7	46.7	24.5			
10	47.8	44.8	25.0			
16	43.7	40.7	25.0			
20	41.8	38.8	25.0			
25	39.8	36.8	24.3			
30*	38.3	35.3	23.8			
31.25	37.9	34.9	23.6			
62.5	31.9	28.9	21.5			
100	27.8	24.8	20.1			
200	21.8	18.8	18.0			
250	19.8	16.8	17.3			

Note:
 Executive standard for the above parameters: ANSI/TIA-568-C.2-2009
 "n/s"=Not Specified
 "*" = Unless otherwise customer stated the test results default to not shown in test report but comply with standard