

# DH-PFM920I-5EU-U

## UTP CAT5e Cable



- 305 m (1000 ft)/carton UTP CAT5e, power over Ethernet, compatible with one cable
- High-purity oxygen-free copper conductor material
- Customized PVC outer sheath; ANSI UL CM 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	0.50 mm ± 0.01 mm
American Wire Gauge	24AWG

#### Insulation

Material	HDPE
Min. Average Thickness	0.18 mm
Diameter	0.90mm±0.1mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

#### Rip Cord

Material	Polyester
Specification	500D

#### Sheath

Material	PVC
Min. Average Thickness	0.5 mm
Diameter	5.1 mm ± 0.3 mm
Color	White

### Electrical

Max. DC Resistance of a Single Conductor	9.38Ω/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	≥35.30 dB/100 m@100 MHz
Max. Attenuation	22.0 dB/100 m@100 MHz
Return Loss	≥20.1 dB/100 m@100 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	≥10%

### 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
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 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	364.0 mm × 364.0 mm × 216.0 mm (14.33" × 14.33" × 8.50") (L × W × H)
Packaging Method	305.0 m (1000.66 ft) a carton, one master carton with 2 inner cartons
Net Weight	≥8.0 kg (17.64 lb)
Gross Weight	≥9.0 kg (19.84 lb)

### Compliance

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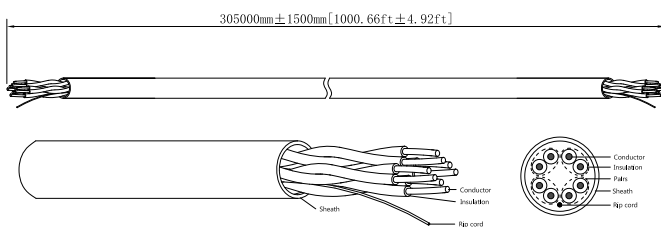
### Certification

Certification	UL CM
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### Ordering Information

Type	Model	Description
Network Cable	DH-PFM920I-5EU-U	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	NEXT ≥ dB	PS NEXT ≥ dB	ACRF ≥ dB
1	570	2.0	65.3	62.3	63.8
4	552	4.1	56.3	53.3	51.8
8	547	5.8	51.8	48.8	45.7
10	545	6.5	50.3	47.3	43.8
16	543	8.2	47.2	44.2	39.7
20	542	9.3	45.8	42.8	37.8
25	541	10.4	44.3	41.3	35.8
31.25	540	11.7	42.9	39.9	33.9
62.5	539	17.0	38.4	35.4	27.9
100	538	22.0	35.3	32.3	23.8
Frequency (MHz)	PS ACRF ≥ dB	RL ≥ dB	Delay skew ≤ ns	Zc(Ω)	
1	60.8	20.0	n/s	n/s	
4	48.8	23.0			
8	42.7	24.5			
10	40.8	25.0			
16	36.7	25.0			
20	34.8	25.0	45.0	100±15	
25	32.8	24.3			
31.25	30.9	23.6			
62.5	24.9	21.5			
100	20.8	20.1			

Note:  
Executive standard for the above parameters: ANSI/TIA-568-C.2-2009