

# DH-PFM920I-6U-100

## UTP CAT6 Cable



- 100m (328ft)/carton UTP CAT6, power over Ethernet, compatible with one cable
- High-purity oxygen-free copper conductor material
- Customized PVC outer sheath
- 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	Oxygen free copper (99.97% purity)
Diameter	0.57 mm ± 0.01 mm (0.0224"±0.0004")

#### Insulation

Material	HDPE
Min. Average Thickness	0.21 mm (0.0083")
Diameter	1 mm±0.1 mm (0.0393"±0.004")
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

#### Separator

Material	PE
Specification	Translucent 4.5 mm × 0.4 mm (0.1772" ± 0.0157")

#### Rip Cord

Material	Polyester
Specification	500D

#### Sheath

Material	PVC
Min. Average Thickness	0.5 mm (0.0197")

Diameter	6.1mm ± 0.3 mm (0.2401"±0.0118")
Color	Orange, grey

#### Electrical

Max. DC Resistance of a Single Conductor	7.35Ω/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	100Ω ± 15Ω
Near End Cross Talk	≥39.30 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	≥15%

#### 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%

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 GB/T 18380.22-2008
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**Packaging**

Cable Length	100.0 m (328.08 ft)±1 m (3.28 ft)
Inner Carton Dimensions	286 mm × 119 mm × 289 mm (11.26" × 4.69" × 11.38") (L × W × H)
Net Weight	4.1 kg ± 0.3 kg (9.03lb±0.66 lb)
Gross Weight	4.5kg ± 0.3 kg (9.92lb±0.66 lb)
Packaging Method	100 m/carton, 4 inner cartons in one package

**Compliance**

Executive Standards	YD/T 1019-2013
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**Ordering Information**

Type	Model	Description
Cable Series	DH-PFM920I-6U-100	UTP CAT6 Cable

**Dimensions (mm/inch)**

