# DH-PFM920-6UN

305m Outdoor U/UTP CAT6 Network Cable (Black, PE sheath)




- 305 m (1000 ft)/carton Outdoor U/UTP CAT6, power over Ethernet, compatible with one cable.
- High-purity oxygen-free copper conductor material.
- Customized PE outer sheath,certain degree of waterproof. Environmentally friendly and all materials used are RoHS compliant.
- 10-year warranty.

## Series 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) |
| Conductor Structure | 0.53 mm ± 0.02 mm (0.02" ± 0.0008") |
| American Wire Gauge | 24AWG |

### Insulation

| | |
|---|---|
| Insulating Material | HDPE |
| Min. Average Thickness | 0.21 mm (0.0083") |
| Insulation Diameter | 0.95 mm ± 0.06 mm (0.04" ± 0.0024") |
| Insulation Color | 8 cores, Blue, white/blue; Orange, white/orange; Green, white/green; Brown, white/brown |

### Rip Cord

| | |
|---|---|
| Material | Polyester |
| Specification | 3 × 150D |

### Separator

| | |
|---|---|
| Material | PE |
| Specification | Translucent 4.3 × 0.35 mm |

### Inner Sheath

| | |
|---|---|
| Material | PVC |
| Min. Average Thickness | 0.45 mm (0.02") |
| Diameter | 5.6 mm ± 0.4 mm (0.22" ± 0.02") |
| Color | White |

### Sheath

| | |
|---|---|
| Min. Average Thickness | 0.5 mm (0.02") |
| Sheath Material | MDPE |
| Sheath Diameter | 6.8 mm ± 0.4 mm (0.27" ± 0.02") |
| Sheath Color | Black |

### Electrical

| | |
|---|---|
| Max. DC Resistance of a Single Conductor | 9.5 Ω@100 m (328.08 ft) |
| Min. Insulation Resistance | 5000 MΩ·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 Ω ± 15 Ω |
| Near-end Crosstalk | ≥39.30 dB/100 m@250 MHz |
| Max. Attenuation | 34.8 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 | ≥10% |

## 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 |
| 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 | –10 °C to +40 °C (+14 °F to +104 °F) |
| Storage Humidity | <60% (RH) |

## Security

| | |
|---|---|
| Vertical Flame Test | Comply with IEC 60332-1-2 |

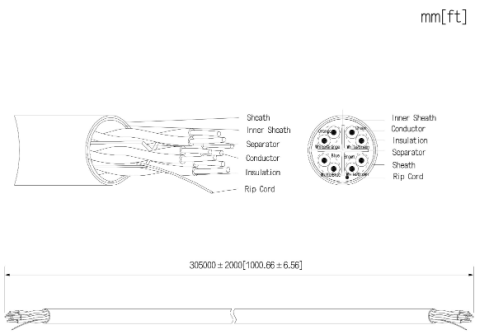
## Packaging

| | |
|---|---|
| Cable Length | 305.0 m± 2 m (1,000.66 ft ± 6.56 ft) |
| Packaging Method | 305 m (1,000 ft) a carton, one carton with 2 inner cartons |
| Packaging Dimensions | 433 mm × 433 mm × 230mm (17.05" × 17.05" ×9.06") (L × W × H) |
| Transport Package Dimensions | 495 mm × 457mm × 466mm (19.49" × 17.99" × 18.35") (L × W × H) |
| Net Weight | 13.5 kg ± 0.6 kg (29.76 lb ± 1.32 lb) |
| Gross Weight | 14.5 kg ± 0.6 kg (31.97 lb ± 1.32 lb) |

## Compliance Standard

| | |
|---|---|
| Compliance Standard | Q/DXJ 067-2024 |

## Dimensions (mm[inch])




## Ordering Information

| Type | Model | Description |
|---|---|---|
| Network Cable | DH-PFM920-6UN | 305m Outdoor U/UTP CAT6 Network Cable (Black, PE sheath) |


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