# DH-PFM920I-6F-C

305m FTP CAT6 Network Cable




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.

## Features

· 305.0 m (1000 ft)/carton FTP CAT6, power over Ethernet, compatible with one cable

· High-purity Oxygen-Free Copper conductor material

· Customized PVC outer sheath; meet CE CPR Eca and ANSI/TIA 568-C.2 flame retardant class certified

· 10-year warranty

## Technical Specification

### Conductor

| | |
|---|---|
| Material | Oxygen free copper (99.97% purity) |
| Diameter | 0.57 mm ± 0.02mm(0.0224"±0.0007") |
| American Wire Gauge | 23AWG |

### Insulation

| | |
|---|---|
| Material | HDPE |
| Min. Average Thickness | 0.27 mm(0.0106") |
| Diameter | 1.12 mm ± 0.06 mm(0.0441"±0.0023") |
| Color (4 Pairs) | Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown |

### Separator

| | |
|---|---|
| Material | PE |
| Specification | Translucent 5.2 mm × 0.7 mm (0.2047"× 0.0275") |

### Rip Cord

| | |
|---|---|
| Material | Polyester |
| Specification | 500D |

### Shielding

| | |
|---|---|
| Material | Aluminum foil |
| Specification | 25×0.063mm (25× 0.0025") |

### Sheath

| | |
|---|---|
| Material | PVC |
| Min. Average Thickness | 0.55 mm(0.0216") |
| Diameter | 7.3 mm ± 0.4 mm(0.2874"±0.0157") |
| Color | Gray |

### Electrical

| | |
|---|---|
| Max. DC Resistance of a Single Conductor | 9.5Ω/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 | ≥33.10 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 | ≥10% |

### Environmental

| | |
|---|---|
| Shrinkage of Insulation | ≤5% |
| Color Migration Resistance of Insulation | No migration |
| Sheath Tensile Strength and Elongation at Break after Aging | ≥13.5 MPa, rate of change≤20% |
| 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) |

### Packaging

| | |
|---|---|
| Length | 305.0 m (1000.66 ft) ± 2.0 m ( ft) |
| Packaging Dimensions | 400mm×400mm×310mm (15.74"x15.74"x12.20") (L × W × H) |
| Packaging Method | 305.0 m (1000.66 ft) a carton |
| Net Weight | 15.6kg±0.6kg ( 34.39lb±1.32lb) |

### Executive Standard

| | |
|---|---|
| Executive Standard | ANSI/TIA 568-C.2 |

### Certification

| | |
|---|---|
| Certification | CPR Eca |

## Ordering Information

| Type | Model | Description |
|---|---|---|
| Network Cable | DH-PFM920I-6F-C | 305m FTP CAT6 Cable |

## Package Information

· 305m FTP CAT6 cable *1


© 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice.
Pictures in the document are for reference only, and the actual product shall prevail.