

DH-PFM922I-5EUN-C

305m UTP CAT5e Cable



- 305 m (1000 ft)/carton UTP CA5e, power over Ethernet, compatible with one cable.
- Manufacturing excellence.
- Customized PVC outer sheath, equipped with certain flame retardancy.
- 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 | CCA (Copper content: 22%–31%) |
| Diameter | 0.5 mm ± 0.01 mm |
| Wire Gauge | 24 AWG |

Insulation

| | |
|-----------|--|
| Material | HDPE |
| Thickness | 0.18 mm |
| Diameter | 0.90 mm ± 0.06 mm |
| Color | Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown |

Rip Cord

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

Sheath

| | |
|------------------------|-------------------------|
| Material | FR-PVC (ROHS compliant) |
| Min. Average Thickness | 0.5 mm |
| Diameter | 5.1 mm ± 0.3 mm |
| Color | Orange |

Electrical

| | |
|--|---------------------------------|
| Max. DC Resistance of a Single Conductor | 14.5 Ω/100 m (14.5 Ω/328.08 ft) |
|--|---------------------------------|

| | |
|------------------------------|------------------------------------|
| Min. Insulation Resistance | 5000 MΩ/km |
| Max. DC Resistance Unbalance | 2% (pair intra), 4% (pairs inter) |
| Max. Mutual Capacitance | 5.6 nF/100 m (5.6 nF/328.08 ft) |
| Dielectric Strength | No breakdown with 1kV DC for 1 min |

Mechanical

| | |
|-------------------------------|--------------------------------------|
| Tensile Strength | Sheath ≥13.5 MPa, insulation ≥16 MPa |
| Elongation at Break | Sheath ≥150%, insulation ≥300% |
| Installation Bending Radius | >8 times of the outer cable diameter |
| Conductor Elongation at Break | ≥8% |

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 |
| 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 IEC 60332-2-2 |
|--------------------------------|---------------------------|

Packaging

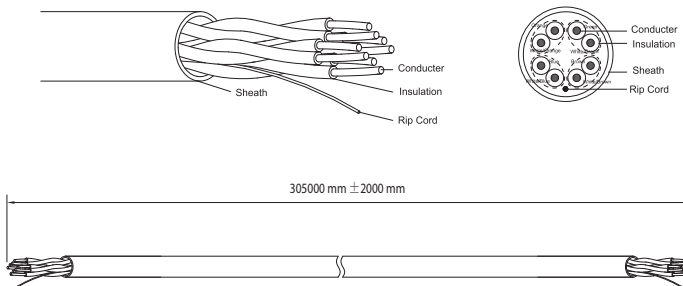
| | |
|--------------|--------------------------------------|
| Cable Length | 305.0 m ± 2 m (1000.66 ft ± 6.56 ft) |
| Net Weight | 6.2 kg ± 0.5 kg (13.67 lb ± 1.1 lb) |
| Gross Weight | 7.0 kg ± 0.5 kg (15.43 lb ± 1.1 lb) |

Cable Series | DH-PFM922I-5EUN-C

| | |
|-------------------------|--|
| Inner Carton Dimensions | 364 mm × 216 mm × 364 mm (14.33" × 8.5" × 14.33") (L × W × H) |
| Packaging Dimensions | 447 mm × 382 mm × 386 mm (17.6" × 15.04" × 15.2") (L × W × H) |
| Packaging Method | 305.0 m (1000.66 ft) per carton, and 2 cartons per transport package |
| Compliance | |
| Executive Standards | Q/DXJ 067-2019 |

| Ordering Information | | |
|----------------------|-------------------|----------------------|
| Type | Model | Description |
| Cable Series | DH-PFM922I-5EUN-C | 305m 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 | TCL ≥ dB* | EL TCTL ≥ dB* | NEXT ≥ dB |
| 1 | n/s | n/s | 50.0 | 35.0 | n/s |
| 4 | 552.0 | 4.9 | 44.0 | 23.0 | 56.3 |
| 8 | 547.0 | 6.9 | 41.0 | 16.9 | 51.8 |
| 10 | 545.0 | 7.8 | 40.0 | 15.0 | 50.3 |
| 16 | 543.0 | 9.9 | 38.0 | 10.9 | 47.2 |
| 20 | 542.0 | 10.2 | 37.0 | 9.0 | 45.8 |
| 25 | 541.0 | 11.4 | 36.0 | 7.0 | 44.3 |
| 31.25 | 540.0 | 12.9 | 35.1 | n/s | 42.9 |
| 62.5 | 539.0 | 18.7 | 32.0 | n/s | 38.4 |
| 100 | 538.0 | 24.2 | 30.0 | n/s | 35.3 |
| PS NEXT ≥ dB | EL FEXT ≥ dB | PS EL FEXT ≥ dB | RL ≥ dB | Delay skew ≤ ns | Zc(Ω) |
| n/s | n/s | n/s | n/s | n/s | n/s |
| 53.3 | 52.0 | 49.0 | 23.0 | 45.0 | 100±15 |
| 48.8 | 45.9 | 42.9 | 24.5 | | |
| 47.3 | 44.0 | 41.0 | 25.0 | | |
| 44.2 | 39.9 | 36.9 | 25.0 | | |
| 42.8 | 38.0 | 35.0 | 25.0 | | |
| 41.3 | 36.0 | 33.0 | 24.3 | | |
| 39.9 | 34.1 | 31.1 | 23.6 | | |
| 35.4 | 28.1 | 25.1 | 21.5 | | |
| 32.3 | 24.0 | 21.0 | 20.1 | | |

Note: Executive standard for the above parameters: Q/DXJ 067-2019
"n/s"=Not Specified