

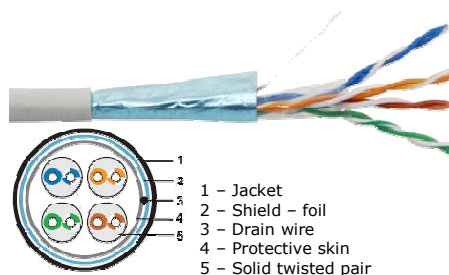
Category5e FTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
 Meets general purpose cable UL-1581 CM rating
 Meets fire retardant low smoke IEC60332-1 rating
 Meets plenum UL-910 rating

Description

Shielded Copper cable, 4 pairs, category 5e, solid
 Shield: Aluminum foil
 Cable is used for indoor installation



Material

Conductive material: wire made of soft annealed electrolytic copper
 Conductor insulation: HDPE
 The cable jacket: PVC / LSZH / Plenum
 An aluminum tape shield is helically applied over the cable core with a minimum overlap of 5 mm (0.19")

Technical Characteristic

Conductor diameter: 0.51 mm (0.02") (24 AWG)
 Insulated conductor diameter: 0.9 ± 0.2 mm ($0.035" \pm 0.008"$)
 Outer cable diameter: 5.4 ± 0.2 mm ($0.21" \pm 0.008"$)
 Jacket thickness: 0.4 mm (0.0157")
 Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
 Conductor elongation: 14% minimum
 Rip cord has a breaking strength of 10 kg (98 N)
 Drain wire diameter: 0.5 mm (0.019")
 Pulling strength: 92 N
 Breaking strength: 400 N
 Installation temperature: $-5^{\circ}\text{C} - +50^{\circ}\text{C}$ ($+23^{\circ}\text{F} - +122^{\circ}\text{F}$)
 Operating temperature: $-20^{\circ}\text{C} - +75^{\circ}\text{C}$ ($-4^{\circ}\text{F} - +167^{\circ}\text{F}$)
 Weight per 1000 ft (304.8 m): 11.5 kg (25.35 lbs)
 Standard package: 304.8 m (1000 ft)

Electrical Characteristic

| Frequency, MHz | RL | Attenuation, dB | NEXT, dB | PSNEXT, dB | ELFEXT, dB | PSELFEXT, dB |
|----------------|------|-----------------|----------|------------|------------|--------------|
| 0.772 | - | 1.8 | 67.0 | 64.0 | - | - |
| 1.0 | 20.0 | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 |
| 4.0 | 23.0 | 4.0 | 56.3 | 53.3 | 51.7 | 48.7 |
| 8.0 | 24.5 | 5.8 | 51.8 | 48.8 | 45.7 | 42.7 |
| 10.0 | 25.0 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 |
| 16.0 | 25.0 | 8.2 | 47.3 | 44.3 | 39.7 | 36.7 |
| 20.0 | 25.0 | 9.3 | 45.8 | 42.8 | 37.7 | 34.7 |
| 25.0 | 24.3 | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 |
| 31.25 | 23.6 | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 |
| 62.5 | 21.5 | 17.0 | 38.4 | 35.4 | 27.8 | 24.8 |
| 100.0 | 20.1 | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 |

| | |
|---|--------------------------|
| Max conductor resistance at 20°C (68°F) | 9.38Ω/100m (2.86Ω/100ft) |
| Max Resistance Unbalance | 5% |
| Max pair-to-ground capacitance unbalance | 330pF/100m (101pF/100ft) |
| Characteristic Impedance at 0.772-100 MHz | 85Ω-115Ω |
| Mutual capacitance | 5.6nF/m (1.7nF/ft) |
| Spark Test | 2.5kV |

Ordering Information

HI5EFSM-**C** i-Net Networks Horizontal Indoor Cable Category5e FTP Solid 24AWG 4Pair Milky Gray CM
C —CM, **L**—LSZH, **P**—Plenum