# i-Net Networks



## Category7 SSTP Solid Indoor Cable

### Specifications

Meets ISO/IEC 11801 & IEC 61156-5, category 7 requirements
Low Smoke Zero Halogen
The cable meets UL VW-1, IEC 60332-1, CM fire safety standard

### Description

Shielded Copper cable, 4 pairs, Category 7, Solid, 600MHz
4 separately foil-shielded pairs
General shield: wire braid
Cable is used for indoor installation

### Materials

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: LSZH
Shield: Separately shielded pairs with polyester aluminum foil
General shield: tin Copper braid – 60% minimum



1 – Jacket
2 – Shield-braid
3 – Drain wire
4 – Shield-foil
5 – Solid twisted pair

### Technical Characteristics

Conductor diameter: 0.64 mm (0.025") (22 AWG)
Outer cable diameter: 8.2 mm (0.32")
Operating temperature: -30°C – +70°C (-22°F – +158°F)
Weight per 1000 ft (304.8 m): 21.3 kg (47.7 lbs)
Standard package: 305m (1000 ft), 500 m (1640 ft)

### Electrical Characteristics

| Frequency , MHz | Pair Attenuation, dB/100m | NEXT losses, dB | RL, dB |
|---|---|---|---|
| 4 | 3.6 (1.10) | 85 | 24 |
| 10 | 5.8 (1.80) | 85 | 27 |
| 16 | 7.4 (2.26) | 85 | 27 |
| 20 | 8.3 (2.53) | 85 | 27 |
| 31.25 | 10.4 (3.2) | 85 | 25 |
| 62.5 | 14.6 (4.45) | 85 | 23 |
| 100 | 18.4 (5.61) | 85 | 23 |
| 200 | 26.2 (7.98) | 83 | 20 |
| 300 | 32.1 (9.78) | 80 | 20 |
| 600 | 49 (14.93) | 80 | 20 |

| | |
|---|---|
| Conductor resistance at 20°C (68°F) | 80.0 Ohm/km (128.75 Ohm/mile) |
| DC Resistance Unbalance | 2% max |
| Resistance at frequency 1-600 MHz | 100 ± 15 Ohm |
| Transfer impedance at frequency 1-10 MHz | 5 MOhm/m (1.52 MOhm/ft) max |
| Capacitive unbalance at frequency 1 kHz | 1.2 pF/m (0.36 pF/ft) max |
| Maximum voltage | 60 V RMS |
| Dielectric rigidity | 700 V/min |
| Insulation resistance at 20°C (68°F) | 152 MOhm/km (244.62 MOhm/mile) min |
| Propagation velocity | 79-80% |
| Max propagation delay at frequency 1 MHz | 5.3 ns/m (1.61 ns/ft) |
| Max propagation delay at frequency 10 MHz | 5.0 ns/m (1.52 ns/ft) |
| Max propagation delay at frequency 100-600 MHz | 5.0 ns/m (1.52 ns/ft) |
| Max derivation of propagation delay at frequency 1-600 MHz | 15 ns/100 m (4.57 ns/100 ft) |

### Ordering Information

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|---|---|
| HI7SSL-**M** | i-Net Networks Horizontal Indoor Cable Category7 SSTP Solid 22AWG 4 Pair LSZH Milky Gray |
| **M** | **M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow |