



- 1 – Jacket
- 2 – Shield-foil
- 3 – Drain wire
- 4 – Protective skin
- 5 – Twisted pair
- 6 – Messenger

SPECIFICATIONS

- Meets ANSI/EIA/TIA 568-B.2 requirements
- Fire protection – CMX
- The cable meets UL 444 UL 1581 fire safety standard

DESCRIPTION

Shielded Copper cable, 4 pairs, category 5e, solid, with messenger Cable is used for outdoor installation

MATERIALS

- Conductive material: wire made of soft annealed electrolytic copper
- Conductor insulation: HDPE
- The cable jacket: black PE
- An aluminum tape shield is helically applied over the cable cor with a minimum overlap of 25% or 5 mm (0.19”), thickness – 0.025 mm (0.001”), width – 20 mm (0.78”)
- Messenger: galvanized steel wire

TECHNICAL CHARACTERISTICS

- Conductor diameter: 0.51 mm (0.02”) (24 AWG)
- Insulated conductor diameter: 0.035” ± 0.001” (0.9 ± 0.02 mm)
- Outer cable diameter: 0.28” ± 0.008” (7 ± 0.2 mm)
- Jacket thickness: 0.65 mm (0.025”)
- Messenger diameter: 0.049” ± 0.004” (1.25 ± 0.1 mm)
- Minimum bend radius: 4 outer cable diameters
- Conductor elongation: 14% minimum
- Operating temperature: -40°C – +50°C (-40°F – +122°F)
- Weight per 1000 ft (304.8 m): 27.7 kg (61.1 lbs)
- Standard package: 305m (1000ft)
- Rip cord has a breaking strength of 22 lbs (98 N)

ELECTRICAL CHARACTERISTICS

| Freq MHz | RL, dB | Attenuation dB/100m 20°C | NEXT dB | PSDNEXT, dB | ELFEXT dB | PS ELFEXT 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 | 17.0 | 17.0 | 38.4 | 35.4 | 27.8 | 24.8 |
| 100.0 | 22.0 | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 |

| | |
|--------------------------------------|------------------------------|
| DC Resistance Unbalance | 5% |
| Pair-to-Ground Capacitance Unbalance | 330 pF/100 m (101 pF/100 ft) |
| Impedance 0.772-100 MHz | 85-115 Ohm |
| Mutual Capacitance | 5.6 nF/m (1.7 nF/ft) |
| Spark Test | 2.5 kV |

ORDERING

| Part Number | Product Description |
|------------------------------|---|
| FTP4-C5E-SOLID-SW-OUTDOOR-40 | Shielded twisted pair cable (FTP), 4 pairs, solid, outdoor, with messenger, category 5e |