

F/FTP cat. 6 450 MHz

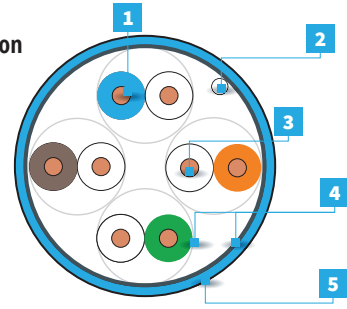
Quick 6



F/FTP cat. 6 450 MHz

Cable construction

1. Insulation
2. Drain wire
3. Conductor
4. Aluminium foil
5. Jacket



FibraINDATA Quick F/FTP Cat.6 Jacket LSZH 450 MHz

| | |
|---------------------------|-----------|
| 500 m drum | XQ100.136 |
| 1000 m drum | XQ100.137 |
| JACKET - LSZH BLUE | |

ELECTRICAL AND CONSTRUCTION PARAMETERS

| | | |
|---|----------------|-----------------|
| Impedance from 10 do 450 MHz [Ohm] | 100±5 | |
| Nominal velocity of propagation NVP (% speed of light) | 74 | |
| Impedance: | | |
| values at | 30 - 100 MHz | 75 dB |
| | 100 - 1000 MHz | 75-20log(f/100) |
| Return loss (RL) dB (min) | | |
| values at | 20 - 100 MHz | 20+5 log(f) |
| | 10 - 20 MHz | 25 |
| | 1.0 - 10 MHz | 25-7 log(f/20) |
| Propagation delay (max) [ns/100 m] | 518 | |
| Delay skew (max) [ns/100 m] | 40 | |
| Dielectric strength during 1 minute (V c.c.) | 1000 | |
| Insulation strength (MΩm*km) | >5000 | |
| Nominal/maximum operating voltage [V] | 125/200 | |
| Maximum operating current [A] | 0.25 | |
| Diameter | 7.5 | |
| Weight | 53.4 | |
| Minimal bending radius | 30 | |
| Operating temperature | -20/+70 | |
| Installation temperature | -20/+70 | |

Applications

- Half and full duplex transmission
- Analog and digital transmission of video signals
- 16 Mbps Token Ring
- 100Mbps TP-PMOD
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM

Norms

- LSZH: PN-EN 61034, PN-EN 50267-2-1
- PN-EN 60332-1, PN-EN 60332-3-24
- ANSI/TIA/EIA 568-C.2 (Cat.6)
- ISO/IEC 11801:2011
- PN-EN 50173:2011

Construction

- Conductor (wire) - 23 AWG (0.574 mm)
- Insulation: polyolefin
- Pair number: 4 twisted pairs
- Jacket: blue LSZH in accordance with IEC 60322-1
- Shield: aluminium/polyester foil around each pair
- Shield: aluminium/polyester foil around all pairs
- Grounding: galvanized copper wire Φ0.4 mm

| Frequency [MHz] | Max. attenuation [dB/100 m] | NEXT | PS-NEXT | ACR-F | PS-ACR-F | ACR-F | PS-ACR-F | Return loss [dB] |
|-----------------|-----------------------------|----------------|---------|-------|----------|-------|----------|------------------|
| | | [dB/100 m] min | | | | | | |
| 1* | 2.1 | 75.3 | 72.3 | 68.0 | 65.0 | 73.2 | 70.2 | 20.0 |
| 4 | 3.8 | 66.3 | 63.3 | 58.0 | 55.0 | 62.5 | 59.5 | 23.0 |
| 8 | 5.2 | 61.8 | 58.8 | 51.9 | 48.9 | 56.5 | 53.5 | 24.5 |
| 10 | 5.9 | 60.3 | 57.3 | 50.0 | 47.0 | 54.4 | 51.4 | 25.0 |
| 16 | 7.4 | 57.2 | 54.2 | 45.9 | 42.9 | 49.9 | 46.9 | 25.0 |
| 25 | 9.2 | 54.3 | 51.3 | 42.0 | 39.0 | 45.0 | 42.0 | 24.3 |
| 31.25 | 10.3 | 52.9 | 49.9 | 40.1 | 37.1 | 42.6 | 39.6 | 23.6 |
| 62.5 | 14.5 | 48.4 | 45.4 | 34.1 | 31.1 | 33.8 | 30.8 | 21.5 |
| 100 | 18.4 | 45.3 | 42.3 | 30.0 | 27.0 | 26.9 | 23.9 | 20.1 |
| 155 | 22.9 | 42.4 | 39.4 | 26.2 | 23.2 | 19.5 | 16.5 | 18.8 |
| 200 | 26.1 | 40.8 | 37.8 | 24.0 | 21.0 | 14.7 | 11.7 | 18.0 |
| 250 | 29.2 | 39.3 | 36.3 | 22.0 | 19.0 | 10.1 | 7.1 | 17.3 |
| 300* | 32.0 | 38.1 | 35.1 | 20.5 | 17.5 | 6.1 | 3.1 | 17.3 |
| 350* | 34.7 | 37.1 | 34.1 | 19.1 | 17.5 | 2.5 | 1.0 | 17.3 |
| 450* | 39.5 | 35.5 | 32.5 | 16.9 | 16.1 | 1.0 | --- | 16.0 |