

S/FTP cat. 8 1800 MHz

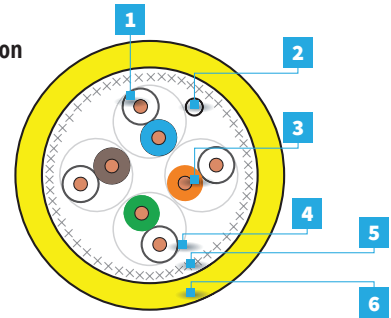
FUTURE 

S/FTP cat. 8 1800 MHz



Cable construction

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



| FibraINDATA UltraA F/FTP Cat.8 1800 MHz | |
|---|-----------|
| 500 m drum | XF100F146 |
| 1000 m drum | XF100F147 |
| JACKET - FR-LSZH YELLOW | |

| ELECTRICAL AND CONSTRUCTION PARAMETERS | | |
|--|----------------|-----------------|
| Impedance from 10 do 1800 MHz [Ohm] | | 100±5 |
| Nominal velocity of propagation NVP (% speed of light) | | 79-80 |
| Return loss (RL) dB (min) | | |
| values at | 30 - 100 MHz | >80 dB |
| | 100 - 1000 MHz | 80-20log(f/100) |
| Delay skew (max) [ns/100 m] | | <40 |
| Dielectric strength during 1 minute (V c.c.) | | 700 |
| Insulation strength (MΩm*km) | | >5000 |
| Nominal/maximum operating voltage [V] | | 45/200 |
| Maximum operating current [A] | | 0.25 |
| Diameter [mm] | | 8.4 |
| Weight [kg/km] | | 64 |
| Fire retardant | | NFC 32070 C2 |
| Installation temperature [°C] | | -20/+70 |
| Operating temperature [°C] | | -20/+70 |

| Frequency [MHz] | Max. attenuation | NEXT | PS-NEXT | Coupling att. | Return loss [dB] |
|-----------------|------------------|----------------|---------|---------------|------------------|
| | | [dB/100 m] min | | | |
| 1 | 1.9 | 90.0 | 87.0 | NS | 27.0 |
| 4 | 3.4 | 90.0 | 87.0 | NS | 27.0 |
| 10 | 5.4 | 90.0 | 87.0 | NS | 27.0 |
| 16 | 6.8 | 90.0 | 87.0 | NS | 27.0 |
| 30 | 9.3 | 90.0 | 87.0 | 90.0 | 27.0 |
| 54.1 | 12.7 | 90.0 | 87.0 | 90.0 | 27.0 |
| 62.5 | 13.7 | 89.1 | 86.1 | 90.0 | 27.0 |
| 100 | 17.5 | 86.0 | 83.0 | 90.0 | 27.0 |
| 200 | 25.3 | 81.5 | 78.5 | 84.0 | 23.0 |
| 300 | 31.5 | 78.8 | 75.8 | 80.5 | 23.0 |
| 600 | 46.3 | 74.3 | 71.3 | 74.4 | 20.0 |
| 900 | 58.4 | 71.7 | 68.7 | 70.9 | 18.2 |
| 1000 | 62.0 | 71.0 | 68.0 | 70.0 | 17.8 |
| 1200 | 69.0 | 69.8 | 66.8 | 68.4 | 17.0 |
| 1500 | 71.0 | 75.0 | 72.0 | 67.3 | 19.0 |

Applications

- Analog and digital transmission of video signals
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM
- 10G BASE-T (10 Gigabit Ethernet)
- Broadband CATV
- 40 i 100 Gigabit Ethernet

Norms

- FR-LSZH: PN-EN 61034, PN-EN 50267-2-1
- PN-EN 60332-1, PN-EN 60332-3-24
- ISO/IEC 11801:2011
- EN 50173:2011

Construction

- Conductor (wire) - 22 AWG (0.644 mm)
- Insulation: polyolefin
- Pair number: 4 twisted pairs
- Jacket: FR-LSZH yellow in accordance with IEC 60322-1
- Shield: aluminium/polyester foil around each pair
- Shield: Braid around all pairs
- Grounding: galvanized copper wire Φ 0.4 mm