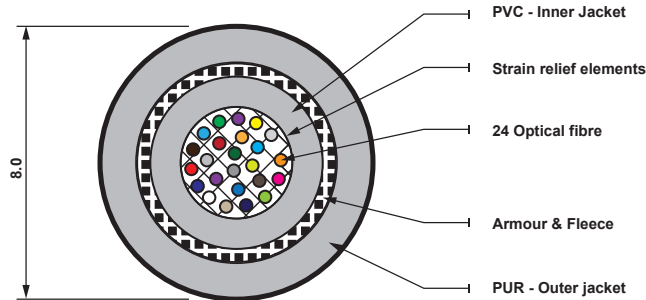




Cable Datasheet

opticalCON® MTP® 24 X-TREME



Technical Data Cables

| | | | | |
|--|--------------------------|-------------------------|--------------------------------|------------|
| Number of Fibers | 24 | 24 | | |
| Fiber Type | Multimode (MM) | Single-mode (SM) | | |
| Fiber standard | OM3 | G.657A2 | | |
| Core Diameter | 50 µm | 9 µm | | |
| Cladding Diameter | 125 µm | 125 µm | | |
| Primary Coating Diameter | 242 µm | 250 µm | | |
| Numerical Aperture | 0.20 | - | | |
| Proof Test Level | 100 kpsi | 100 kpsi | | |
| Wavelength | 850 nm | 1300 nm | 1310 nm | 1550 nm |
| 1 Gigabit Ethernet Distance | 1000 m (1000 BASE-SX) | 550 m (1000 BASE-LX) | - | - |
| 10 Gigabit Ethernet Distance | 300 m (10 GBASE-SX) | 300 m (10 GBASE-LX) | - | - |
| Bandwidth | 1500 MHz-km | 500 MHz-km | - | - |
| Attenuation | 3.0 dB/km | 1.0 dB/km | 0.38 dB/km | 0.29 dB/km |
| Nominal Dispersion Slope | - | - | 0.092 ps/(nm ² -km) | - |
| Refraction index | 1.483 | 1.479 | 1.467 | 1.47 |
| Cable Surface | Black | Black | | |
| Jacket material | Polyurethane | Polyurethane | | |
| Cable Weight | 111 kg/km | 111 kg/km | | |
| Cable Diameter | 8.0 mm | 8.0 mm | | |
| Installation (static): | | | | |
| Max. Tensile Force | 1300 N | 1300 N | | |
| Min. Bend Radius (static) (acc. IEC 60794-1-2 E11A) | 10 x outer diameter | 10 x outer diameter | | |
| Min. Bend Radius (dynamic) (acc. IEC 60794-1-2 E6) | 15 x outer diameter | 15 x outer diameter | | |
| Impact Resistance | - | - | | |
| Max. Crush Resistance (acc. IEC 60794-1-2 E3, short term) | 5000 N/dm | 5000 N/dm | | |
| Operation Temperature | -20°C to +85°C | -20°C to +85°C | | |
| Storage Temperature | -46°C to +85°C | -46°C to +85°C | | |
| Bend optimized | Yes | Yes | | |
| Laser optimized | Yes | No | | |