



✕ 25 Year System Warranty

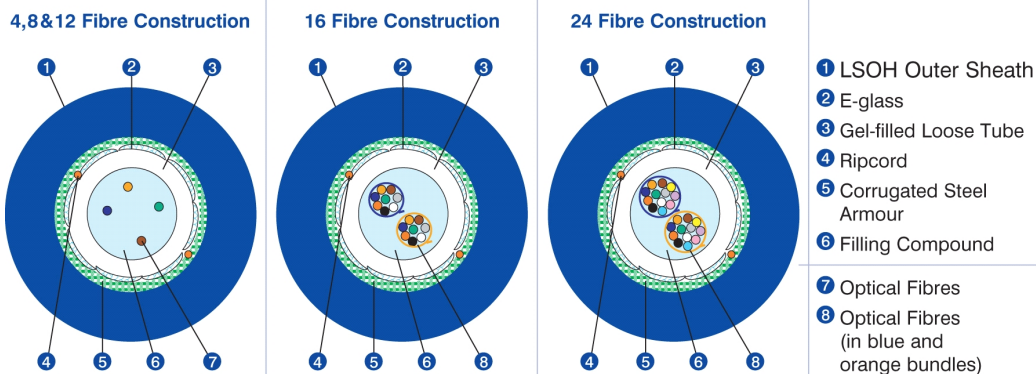
✕ Corrugated Steel Tape Armour

✕ CPR compliant to Eca

Features

- 25 Year System Warranty
- Sequentially Metre Marked
- 62.5/125 Multimode Fibre
- Duct Grade, Rodent Resistant
- Internal External Grade
- Corrugated Steel Tape Armour
- LSOH Blue Sheath
- Cut to length service
- CPR compliant to Eca

Excel corrugated steel tape (CST) armoured loose tube optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection. These compact, lightweight cables are extremely rugged, provide rodent resistance and are quick and easy to install. The cables are constructed around a silica gel filled tube(s) containing up to 12 colour coded 250µm buffered 62.5/125 fibres. This tube is covered with E-glass strength members and a flame retardant, low smoke zero halogen, outer sheath. In 16 and 24 core cables, the twin bundle design provides both extra protection for the fibres but also enables faster and easier installation, whilst retaining a compact outside diameter.



Performance Overview

Excel loose tube fibre optic cables are designed and manufactured to ensure that optimum performance is possible from installed fibre links. Support of protocols such as Gigabit Ethernet over maximum distances - 275 metres at 850nm and 550 metres at 1300nm, are assured, due to improved bandwidth available as standard from Excel fibre cables.

Optical Performance

| | | |
|------------------------------|----------------------------|----------------|
| Modal-Field Diameter | 9.2 ± 0.4 µm 125 ± 1 µm | |
| Numerical Aperture | 0.275 ± 0.015 µm | |
| | 850 nm | 1300 nm |
| Maximum Attenuation | 3.2 dB/km | 1.5 dB/km |
| Bandwidth | ≥200 MHz.km | ≥600 MHz.km |
| Ethernet Performance Gigabit | 275 m | 550 m |
| Refractive Index (n) | 1.497 | 1.493 |

Fibre Colours

| | | | |
|------------|------------|----------|----------|
| 1. Blue | 2. Orange | 3. Green | 4. Brown |
| 5. Natural | 6. White | 7. Red | 8. Black |
| 9. Yellow | 10. Purple | 11. Pink | 12. Aqua |

N.B. In 16 core cables, colours 1-8 are repeated in each loose tube. In 24 core cables, colours 1-12 are repeated in each loose tube.

| Loose Tube CST Cable | | |
|--|----------------------------------|-----------------------------------|
| Outside Diameter | 4-12 Cores 8.3 ± 0.2 mm | 16 & 24 Core 8.5 ± 0.2 mm |
| Outer Sheath | LSOH 1.8 mm thick | |
| Loose Tube Diameter | 2.8 ± 0.1 mm | |
| Loose Tube | Polybutylene Teraphthalate (PBT) | |
| Loose Tube Colour | Natural | |
| Loose Tube Fill | Thixotropic Jelly | |
| Peripheral Strength Members | E-Glass | |
| Weight | 4-12 Cores 90 kg / km (nominal) | 16 & 24 Core 95 kg / km (nominal) |
| Standard maximum length | 2000 m ± 10% | |
| Temperature range | IEC 60794-1-2-F1 | |
| Transport / Storage | -40 to +60°C | |
| Operation | -20 to +70°C | |
| Pulling tension | IEC 60794-1-2-E1 | ≤ 1000 N |
| Long term | ≤ 2000 N | |
| Short term | | |
| Bending radii cable for fibres and tubes | >25 mm | |
| Installation/operation | | |
| Watertightness | IEC 60794-1-2-F5 | Yes |
| Crush load | IEC 60794-1-2-E3 | ≤ 3000 N/m |
| Bending radii cable | IEC 60794-1-2-E11 | 10 x Ø |
| Long term | IEC 60794-1-2-E6 | 20 x Ø |
| Short term | | |
| Flame retardancy | IEC 60332-3C (EN 50266-2-4) | Pass |
| Construction | IEC 60794 | |
| Armour | Corrugated Steel Tape (CST) | |

Typical Applications

- 1000BASE-LX ■ 10GBASE-LX4 ■ 10GBASE-LR/LW ■ 10GBASE-ER/EW ■ 155 Mbps ATM ■ 622 Mbps ATM ■ FDDI
- 531 Mbps Fibre Channel ■ 1062 Mbps Fibre Channel

Part Number Information

| Part No. | Description |
|----------|--|
| 205-270 | Internal/External Grade CST Fibre Cable 4 Core 62.5/125 OM1 |
| 205-271 | Internal/External Grade CST Fibre Cable 8 Core 62.5/125 OM1 |
| 205-272 | Internal/External Grade CST Fibre Cable 12 Core 62.5/125 OM1 |
| 205-273 | Internal/External Grade CST Fibre Cable 16 Core 62.5/125 OM1 |
| 205-274 | Internal/External Grade CST Fibre Cable 24 Core 62.5/125 OM1 |

System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

Contact us at sales@excel-networking.com

