



X G.652.D Compliant

X Corrugated Steel Tape Armour

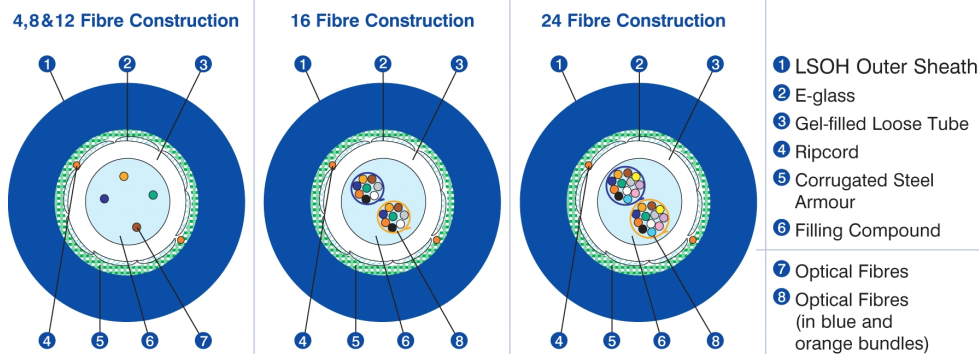
X CPR compliant to Eca

Features

- G.652.D Compliant
- Corrugated Steel Tape Armour
- 9/125 Singlemode Fibre
- Duct Grade
- Sequentially Metre Marked
- UV protected
- Internal External Grade
- Performs to OS1 & Os2
- LSOH Blue Sheath
- Cut to length service
- Rodent Resistant
- CPR compliant to Eca

Product Overview

Excel corrugated steel tape (CST) armoured loose tube optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection. The singlemode fibre is G.652.D compliant low water peak grade offering both OS1 & OS2 performance. 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 primary coated 9/125 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 10 km distances are assured, due to improved bandwidth available as standard from Excel fibre cables.

	1310 nm	1550 nm
Maximum Attenuation	0.40 dB/km	0.25 dB/km
Dispersion	≤3.5 ps.nm ⁻¹ .km ⁻¹	≤18 ps.nm ⁻¹ .km ⁻¹
PMD	≤ 0.2 ps / km	
Cable Cut-off Wavelength	≤ 1260 nm	
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 for fibres and tubes Installation/operation	IEC 60794-1-2-E1	≤ 1000 N ≤2000 N
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
Halogen-free Corrosivity	IEC 60754-2 (EN 50267-2-2)	pH ≥ 3.5 - µS/cm ≤ 100
Construction	ITU G.652.D	
Armour	Corrugated Steel Tape (CST)	
Optical Performance		
Modal-Field Diameter	9.2 ± 0.4 µm 125 ± 1 µm	

Cores 1-12

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.

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
205-305	Internal/External Grade CST Fibre Cable 4 Core 9/125 OS2
205-306	Internal/External Grade CST Fibre Cable 8 Core 9/125 OS2
205-307	Internal/External Grade CST Fibre Cable 12 Core 9/125 OS2
205-308	Internal/External Grade CST Fibre Cable 16 Core 9/125 OS2
205-309	Internal/External Grade CST Fibre Cable 24 Core 9/125 OS2

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

