



X 25 Year System Warranty

X Internal External Grade

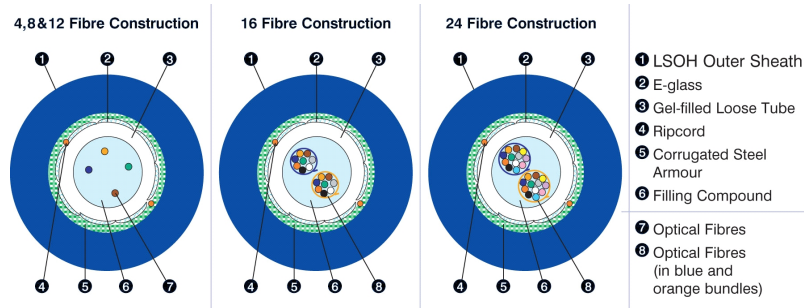
X Corrugated Steel Tape Armour

Features

- 25 Year System Warranty
- Sequentially Metre Marked
- 50/125 Multimode Fibre
- Duct Grade, Rodent Resistant
- Internal External Grade
- Corrugated Steel Tape Armour
- LSOH Blue Sheath
- Cut to length service

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. These compact, lightweight cables are extremely rugged 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 50/125 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 - 550 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	50 ± 2.5 µm 125 ± 1 µm	
Numerical Aperture	0.20 ± 0.015 µm	
	850 nm	1300 nm
Maximum Attenuation	3.2 dB/km	1.5 dB/km
Bandwidth	≥500 MHz.km	≥550 MHz.km
Ethernet Performance		
Gigabit	550 m	5
10 Gigabit	82 m	n/a
Refractive Index (n)	1.483	1.478

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)
Peripheral Strength Members	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	>25 mm	
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 60332-1 (EN 50265-2-1)	Pass
Halogen-free Corrosivity	IEC 60754-2 (EN 50267-2-2)	pH ≥ 3.5 - µS/cm ≤ 100
Construction	IEC 60794	
Armour	Corrugated Steel Tape (CST)	

Cores 1-12

1. Blue	2. Orange	3. Green	4. Brown
5. Natural	6. White	7. Red	8. Black
9. Yellow	10. Violet	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

- 100BASE-FX ■ 1000BASE-SX ■ 1000BASE-LX ■ 10GBASE-LX4 ■ 155 Mbps ATM ■ 622 Mbps ATM ■ FDDI
- 531 Mbps Fibre Channel ■ 1062 Mbps Fibre Channel

Part Number Information

Part No.	Description
205-275	Internal/External Grade CST Fibre Cable 4 Core 50/125 OM2
205-276	Internal/External Grade CST Fibre Cable 8 Core 50/125 OM2
205-277	Internal/External Grade CST Fibre Cable 12 Core 50/125 OM2
205-278	Internal/External Grade CST Fibre Cable 16 Core 50/125 OM2
205-279	Internal/External Grade CST Fibre Cable 24 Core 50/125 OM2

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.



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