



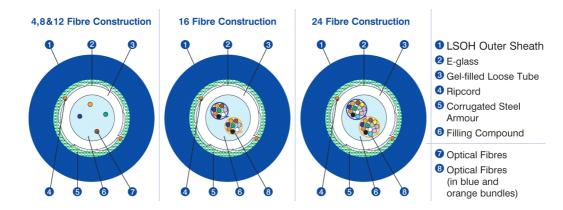


Sequentially Metre Marked

### **Product Overview**

- Cut to length service
- Rodent Resistant

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 $\pm$ 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 tube	es 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	≤ 30000 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 μr	n
Modal-Held Diameter		125 ± 1 μm	
		12J ± 1 μπ	
Cores 1-12			
1. Blue	2. Orange	3. Green	4. Brown
5. Natural	6. White	7. Red	8. Black

9. Yellow10. Purple11. Pink12. AquaN.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.



#### axilan

c.so santorre di santarosa 36, cuneo, Cuneo, 12100, Italia Tel: +390171692038

Email: info@axilan.it Web: www.axilan.it

E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.





www.excel-networking.com

This document is subject to change without notice. The current version is available from our websitehere.