



25 Year System Warranty

Internal External Grade

Sequentially Metre Marked

Corrugated Steel Tape Armour

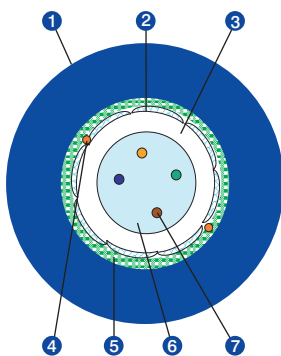
Features

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

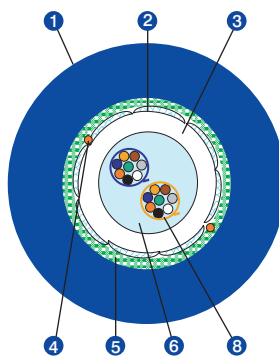
Product Overview

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, 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 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.

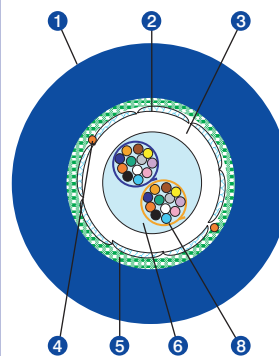
4,8&12 Fibre Construction



16 Fibre Construction



24 Fibre Construction



- 1 LSOH Outer Sheath
- 2 E-glass
- 3 Gel-filled Loose Tube
- 4 Ripcord
- 5 Corrugated Steel Armour
- 6 Filling Compound
- 7 Optical Fibres
- 8 Optical Fibres (in blue and orange bundles)

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.

Performance / Specification Table

Physical Characteristics

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 Transport / Storage Operation	IEC 60794-1-2-F1	-40 to +60°C -20 to +70°C
Pulling tension Long term Short term	IEC 60794-1-2-E1	≤ 1000 N ≤ 2000 N
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 Long term Short term	IEC 60794-1-2-E11 IEC 60794-1-2-E6	10 x Ø 20 x Ø
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)	

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 10 Gigabit	550 m 82 m	550 m n/a
Refractive Index (n)	1.483	1.478

Fibre Colours

Cores 1-12

1. Blue	2. Orange	3. Green
5. Grey	6. White	7. Red
9. Yellow	10. Purple	11. Pink

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.

System Warranty

When installed together with Excel connectivity by an accredited Excel Cabling Partner, this product is supported by a comprehensive 25 year product and applications warranty, underwritten by a unique system liability insurance policy.

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	Excel 4 Core 50/125 OM2 Loose Tube CST Blue Fibre
205-276	Excel 8 Core 50/125 OM2 Loose Tube CST Blue Fibre
205-277	Excel 12 Core 50/125 OM2 Loose Tube CST Blue Fibre
205-278	Excel 16 Core 50/125 OM2 Loose Tube CST Blue Fibre
205-279	Excel 24 Core 50/125 OM2 Loose Tube CST Blue Fibre



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