

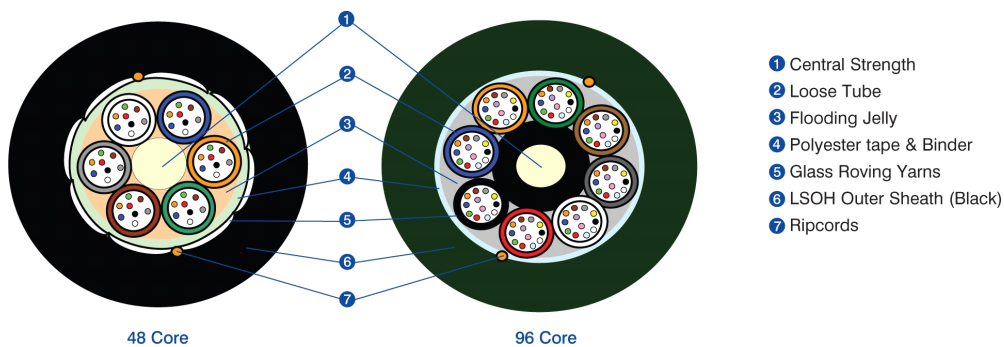
- X Rigid Glass Central Strength Member
- X Internal / External Grade Sheath
- X Offering Up To 96 Fibres
- X G.652D Low Water Peak Glass
- X 9/125 Singlemode Fibre

Features

- Rigid Glass Central Strength Member
- Offering Up To 96 Fibres
- 9/125 Singlemode Fibre
- LSOH Black Sheath
- 25 Year System Warranty
- Internal / External Grade Sheath
- G.652D Low Water Peak Glass
- Sequentially Metre Marked
- Duct Grade
- Cut to length service

Product Overview

For building and campus backbone applications where higher fibre counts are required, the product range offers a compact duct grade cable. The product range consists of multiple loose tubes containing up to 12 fibres and solid fillers where required, stranded around a rigid glass non metallic central strength member. The multi loose tube cable is constructed using G.652D grade glass. Loose tube cabled optical fibre constructed using G.652D grade glass performs to OS2 category of performance. OS2 performance includes the parameters of OS1 as well. A layer of waterblocking tape provides interstitial water blocking.



	1350 nm	1550 nm
Maximum Attenuation	0.4 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	
Optical Performance		
Modal-Field Diameter		9.2 ± 0.4 μm
		125 ± 1 μm

Cores 1-12 plain 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

Loose Tube CST Cable			
Outside Diameter	48 Cores 11 ± 0.5 mm	96 Core 12.5 ± 0.5 mm	
Outer Sheath	LSOH 2mm 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	48 Cores 130 kg / km (nominal)	96 Core 170 kg / km (nominal)	
Standard maximum length	2100 m ± 100 m		
Temperature range	IEC 60794-1-2-F1	-10 to +60°C	
Transport / Storage		-10 to +85°C	
Operation			
Pulling tension	IEC 60794-1-2-E1	≤ 2000 N	
Long term		≤ 4000 N	
Short term			
Bending radii for fibres and tubes Installation/operation	25 mm		
Watertightness	IEC 60794-1-2-F5	Yes	
Crush resistance	IEC 60794-1-2-E3	≤ 4000 N/100mm	
Cable			
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		ITU G.652D	

Typical Applications

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

Part Number Information

Part No.	Description
205-310	Internal/External Grade Fibre Cable 48 Core 9/125 OS2 LSOH Black
205-312	Internal/External Grade Fibre Cable 96 Core 9/125 OS2 LSOH Black

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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