



X 25 Year System Warranty

X G.652.D Compliant

X Internal External Grade

X Steel Wire Armour

X Performs to OS1 & OS2

Features

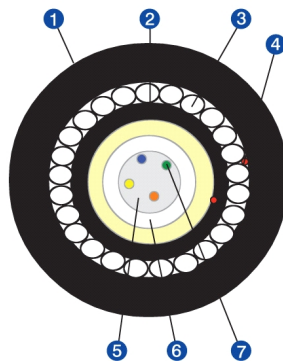
- 25 Year System Warranty
- Internal External Grade
- Performs to OS1 & OS2
- LSZH Black Sheath
- Cut to length service
- Rodent Resistant
- G.652.D Compliant
- Steel Wire Armour
- 9/125 Singlemode Fibre
- Duct Grade
- Sequentially Metre Marked

Product Overview

Excel range steel wire armoured cables suitable for direct burial and the most demanding of installations. The singlemode fibre is G.652.D compliant low water peak grade offering both OS1 and OS2 performance. Available from stock these cables are constructed from standard single loose tube cables which are then packed into a flexible but strong fibreglass waterblocking strength member. An internal sheath of Black Low Smoke Zero Halogen material is then applied, a rip cord is inserted under this sheath to ease cable stripping. Lengths of steel wire armouring are then applied and an oversheath of Black Low Smoke Zero Halogen is added.

The cables shown in the table below are available from stock, if you require core counts or jacket colours not shown please call our sales office for availability details.

4,8&12 Fibre Construction



- 1 LSZH Outer Sheath
- 2 LSZH Inner Sheath
- 3 Steel Wire Armouring
- 4 Ripcord
- 5 Filling Compound
- 6 Gel-filled Loose Tube
- 7 Optical Fibres

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 are assured, due to improved bandwidth available as standard from Excel fibre cables.

Optical Performance

Modal-Field Diameter	9.2 ± 0.4 μm	
Cladding Diameter	125 ± 0.7 μm	
	1350 nm	1550 nm
Average Attenuation	0.32 dB/km	0.21 dB/km
Maximum Attenuation	0.40 dB/km	0.30 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	
PMD	0.20 ± 0.015 μm	
SWA Loose Tube Cable		
Nominal and Maximum Outside Diameter	9.6 / 9.9 mm	
Loose Tube Diameter	2.8 ± 0.1 mm	
Energy of flame	1509 kJ/m	
Weight	237 kg/km	
Reel Size	Ø800 x 475 mm / Ø1000 x 530 mm	
Standard delivery length	2100 ± 100 m / 4100 ± 100 m	
Temperature range	IEC 60794-1-2-F1	-30 to +70°C
Transport / Storage		-5 to +50°C
Installation		-30 to +70°C
Operation		
Pulling tension	IEC 60794-1-2-E1	≤ 700 N
Long term		≤ 1500 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	≤ 30000 N/m
Cable		
Bending radii cable	IEC 60794-1-2-E11	10 x Ø
Static according	IEC 60794-1-2-E6	15 x Ø
Dynamic		
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	IEC 60794	
Steel Wire Armour	Helical stranded galvanized steel wires of Ø 0.6 mm	

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

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. Turquoise

Cores 13-24

13. Blue	14. Orange	15. Green	16. Brown
17. Natural	18. White	19. Red	20. Black
21. Yellow	22. Violet	23. Pink	24. Turquoise

Part Number Information

Part No.	Description
205-356	Internal/External Grade SWA Fibre Cable 4 Core 9/125 OS1
205-368	Internal/External Grade SWA Fibre Cable 8 Core 9/125 OS1
205-360	Internal/External Grade SWA Fibre Cable 12 Core 9/125 OS1
205-370	Internal/External Grade SWA Fibre Cable 16 Core 9/125 OS1
205-362	Internal/External Grade SWA Fibre Cable 24 Core 9/125 OS1

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



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

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