

25 Year System Warranty

G.652.D Compliant

Internal External Grade

Steel Wire Armour

Performs to OS1 & OS2

Features

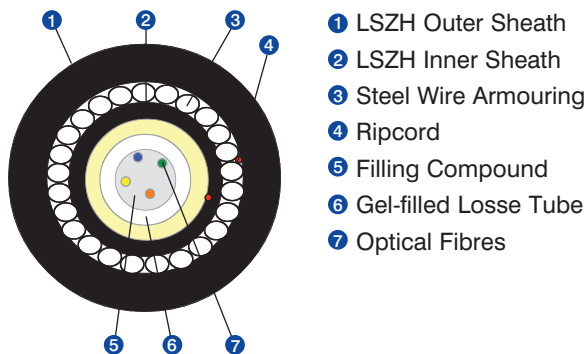
- 9/125 Singlemode Fibre
- LSZH Black Sheath
- Duct Grade
- Cut to length service
- Sequentially Metre Marked
- Rodent Resistant
- Steel Wire Armour construction
- 25 Year System Warranty

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.

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.

Performance / Specification Table

Physical Characteristics

SWA Loose Tube Cable		
Nominal and Maximum Outside Diameter	9.6 / 9.9 mm	
Loose Tube Diameter	3.2 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 Transport / Storage Installation Operation	IEC 60794-1-2-F1	-30 to +70°C -5 to +50°C -30 to +70°C
Pulling tension Long term Short term	IEC 60794-1-2-E1	≤ 700 N ≤ 1500 N
Bending radii for fibres and tubes Installation/operation		>25 mm
Watertightness	IEC 60794-1-2-F5	Yes
Crush resistance Cable	IEC 60794-1-2-E3	≤ 30000 N/m
Bending radii cable Static according Dynamic	IEC 60794-1-2-E11 IEC 60794-1-2-E6	10 x Ø 15 x Ø
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	

Optical Performance

Modal-Field Diameter	9.2 ± 0.4 μm 125 ± 0.7 μm
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	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	
Numerical Aperture	0.20 ± 0.015 μm	

Fibre Colours

Cores 1-12 plain colours

1. Blue	2. Orange	3. Green	4. Brown
5. Natural	6. White	7. Red	8. Black
9. Yellow	10. Violet	11. Pink	12. Turquoise

Fibre Colours

Cores 13-24 with rings

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

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.

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
205-356	Excel 4 Core 9/125 OS1 OS2 Loose Tube SWA Black Fibre
205-368	Excel 8 Core 9/125 OS1 OS2 Loose Tube SWA Black Fibre
205-360	Excel 12 Core 9/125 OS1 OS2 Loose Tube SWA Black Fibre
205-370	Excel 16 Core 9/125 OS1 OS2 Loose Tube SWA Black Fibre
205-362	Excel 24 Core 9/125 OS1 OS2 Loose Tube SWA Black Fibre



Virtware - Sol. Int. Telecomunicações, Lda
Rua dos Canastreiros, 394
4400-404 Canidelo VNG, Portugal

Tel: +351 918205881
Email: info@virtware.pt Web: www.virtware.pt