



X 25 Year System Warranty

X G.652.D Compliant

X Internal External Grade

X Standard Rodent Protection

X Performs to OS1 & OS2

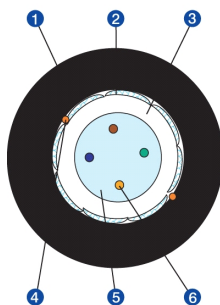
Features

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

Product Overview

Excel loose tube optical fibre cables have been designed specifically for internal and external applications. The singlemode fibre is G.652.D compliant low water peak grade offering both OS1 & OS2 performance. These compact, lightweight cables are extremely flexible and are quick and easy to install. The cables are constructed around a gel filled (non-dripping and silicon free) tube containing up to 24 colour coded 250µm primary coated 9/125µm fibres. This tube is covered with swellable (for the longitudinal watertightness) yarns as strength members and for the standard rodent protection. The outer jacket is Flame Retardant, Low Smoke Zero Halogen.

Fibre Construction



- 1 LSOH Outer Sheath
- 2 Yarn Strength Member
- 3 Loose Tube
- 4 Ripcord
- 5 Gel (non-dripping and silicone free)
- 6 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 10 km distances are assured, due to improved bandwidth available as standard from Excel fibre cables.

Optical Performance

Modal-Field Diameter	9 ± 0.4 µm
	125 ± 0.7 µm
Numerical Aperture	0.20 ± 0.015 µm

	1310 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	
SWA Loose Tube Cable		
Nominal and Maximum Outside Diameter	5.8 / 6.1 mm	
Loose Tube Diameter	3.2 mm	
Energy of flame	550 kJ/m	
Weight	37 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	≤ 10000 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 60332-1 (EN 50265-2-1)	Pass
Halogen-free Corrosivity	IEC 60754-2 (EN 50267-2-2)	pH ≥ 3.5 - µS/cm ≤ 100
Rodent Protection	Standard	

Cores 1-12

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

Cores 13-24

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

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
205-300	Internal/External Grade Loose Tube Fibre Cable 4 Core 9/125 OS1/OS2
205-301	Internal/External Grade Loose Tube Fibre Cable 8 Core 9/125 OS1/OS2
205-302	Internal/External Grade Loose Tube Fibre Cable 12 Core 9/125 OS1/OS2
205-303	Internal/External Grade Loose Tube Fibre Cable 16 Core 9/125 OS1/OS2
205-304	Internal/External Grade Loose Tube Fibre Cable 24 Core 9/125 OS1/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.



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



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