

25 Year System Warranty

Internal External Grade

Sequentially Metre Marked

Standard Rodent Protection

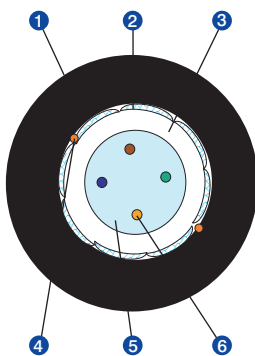
Features

- 50/125 Multimode Fibre
- LSOH Black Sheath
- 600 / 1200 MHz.km Bandwidth
- Duct Grade
- Cut to length service
- Sequentially Metre Marked
- Suitable for Internal & External Use
- 25 Year System Warranty

Product Overview

Excel loose tube optical fibre cables have been designed specifically for internal and external applications. 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 50/125µm 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 maximum distances – 550 metres are assured, due to improved bandwidth available as standard from Excel fibre cables.

Performance / Specification Table

Physical Characteristics

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 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	≤ 10000 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	
Rodent Protection	Standard	

Optical Performance

Modal-Field Diameter	50 ± 2.5 μm 125 ± 1 μm
Numerical Aperture	0.20 ± 0.015 μm

	850 nm	1300 nm
Average Attenuation	2.3 dB/km	0.6 dB/km
Maximum Attenuation	2.8 dB/km	0.9 dB/km
Dispersion	≤600 MHz.km	≤1200 MHz.km
Ethernet Performance Gigabit 10 Gigabit	600 m 82 m	600 m 82m
Refractive Index (n)	1.481	1476

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

- 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
200-049	Excel 4 Core 50/125 OM2 Loose Tube Black Fibre
200-065	Excel 6 Core 50/125 OM2 Loose Tube Black Fibre
200-069	Excel 8 Core 50/125 OM2 Loose Tube Black Fibre
200-089	Excel 12 Core 50/125 OM2 Loose Tube Black Fibre
200-090	Excel 16 Core 50/125 OM2 Loose Tube Black Fibre
200-092	Excel 24 Core 50/125 OM2 Loose Tube 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