

25 Year System Warranty

Internal External Grade

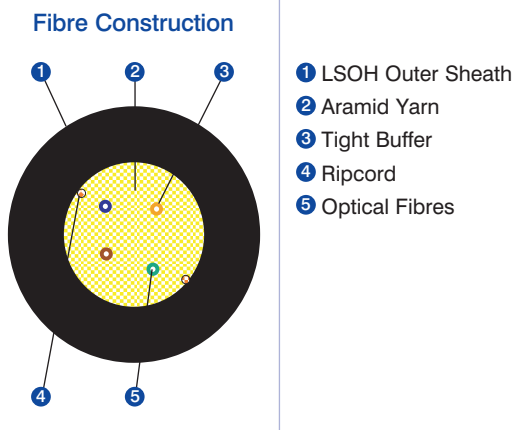
Sequentially Metre Marked

Features

- 50/125 Multimode Fibre
- LSOH Black Sheath
- 1500/500 MHz.km Bandwidth
- Duct Grade
- Cut to length service
- Sequentially Metre Marked
- Suitable for Internal & External Use
- 25 Year System Warranty

Product Overview

Excel tight buffered 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 central aramid yarn strength member containing up to 24 colour coded 900µm tight buffered 50/125µm fibres, covered with a flame retardant, low smoke zero halogen, outer sheath.



Performance Overview

Excel tight buffered fibre optic cables are designed and manufactured to ensure that optimum performance is possible from installed fibre links. Support of protocols such as 10 Gigabit Ethernet over maximum distances – 300 metres is assured, due to improved bandwidth available as standard from Excel fibre cables.

Performance / Specification Table

Physical Characteristics

Tight Buffer Cable						
Number of fibres	4	6	8	12	16	24
Nominal Diameter	5.4 mm	5.9 mm	5.9 mm	7.6 mm	8.6 mm	9.6 mm
Maximum pulling tension						
Long term	400 N	450 N	450 N	500 N	500 N	600 N
Short term	800 N	900 N	900 N	1000 N	1000 N	1200 N
Energy of flame	296 kJ/m	347 kJ/m	371 kJ/m	622 kJ/m	845 kJ/m	1082 kJ/m
Weight	26 kg/km	30 kg/km	32 kg/km	45 kg/km	53 kg/km	65 kg/km
Reel size	Ø 560 x 336 mm	Ø 800 x 475 mm		Ø 1000 x 530 mm		
Standard reel length	2100 ± 100 m					
Temperature range	IEC 60794-1-2-F1					
Transport / Storage	-30 to +70°C					
Installation	-5 to +50°C					
Operation	-30 to +70°C					
Bending radii for fibres and tubes						
Installation/operation	>25 mm					
Strippability						
Secondary coating only	≤ 10 cm					
Secondary + primary coating	≤ 10 mm					
Watertightness	IEC 60794-1-2-F5			Yes		
Crush resistance	IEC 60794-1-2-E3					
Tight buffer	≤ 4000 N/m					
Cable	≤ 4000 N/m					
Bending radii cable						
Static according	IEC 60794-1-2-E11			15 x Ø		
Dynamic	IEC 60794-1-2-E6			20 x Ø		
Flame retardancy	IEC 60332-2 (EN 50265-2-2)			Pass		
Halogen-free	IEC 60754-2 (EN 50267-2-2)					
Corrosivity	pH ≥ 3.5 - µS/cm ≤ 100					
Construction	IEC 60794					

Optical Performance

Core/Cladding Diameter	50 ± 2.5 µm 125 ± 1 µm
Numerical Aperture	0.20 ± 0.015 µm

	850 nm	1300 nm
Average Attenuation	2.5 dB/km	0.5 dB/km
Maximum Attenuation	3.0 dB/km	1.0 dB/km
Dispersion	≤600 MHz.km	≤1200 MHz.km
Ethernet Performance		
Gigabit	900 m	550 m
10 Gigabit	300 m	n/a
Refractive Index (n)	1.481	1.476

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-SR/SW
- 10GBASE-LX4
- 155 Mbps ATM
- 622 Mbps ATM
- FDDI
- 531 Mbps Fibre Channel
- 1062 Mbps Fibre Channel

Part Number Information

Part No.	Description
200-155	Excel 4 Core 50/125 OM3 Tight Buffered Black Fibre
200-118	Excel 6 Core 50/125 OM3 Tight Buffered Black Fibre
200-156	Excel 8 Core 50/125 OM3 Tight Buffered Black Fibre
200-157	Excel 12 Core 50/125 OM3 Tight Buffered Black Fibre
200-158	Excel 16 Core 50/125 OM3 Tight Buffered Black Fibre
200-159	Excel 24 Core 50/125 OM3 Tight Buffered Black Fibre



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