

25 Year System Warranty

G.652.D Construction

Internal External Grade

Sequentially Metre Marked

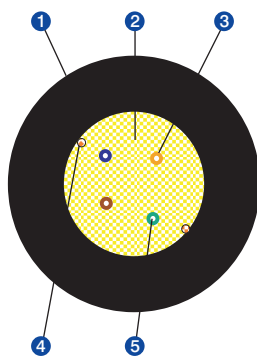
Features

- 9/125 Singlemode Fibre
- LSOH Black Sheath
- Duct Grade
- Cut to length service
- Sequentially Metre Marked
- Suitable for Internal & External Use
- 25 Year System Warranty

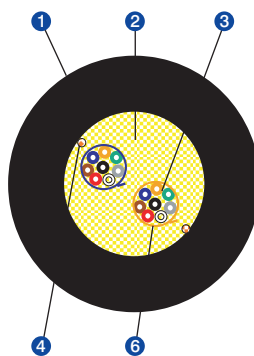
Product Overview

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 12 colour coded 900µm buffered 9/125 fibres, covered with a flame retardant, low smoke zero halogen, outer sheath. In 16 and 24 core cables, the twin bundle design provides both extra protection for the fibres but also enables faster and easier installation, whilst retaining a compact outside diameter.

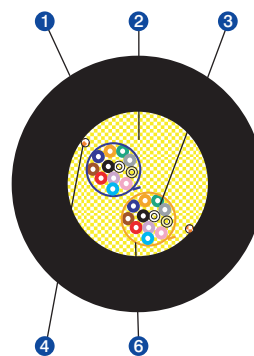
4,8&12 Fibre Construction



16 Fibre Construction



24 Fibre Construction



- ① LSOH Outer Sheath
- ② Aramid Yarn
- ③ Tight Buffer
- ④ Ripcord
- ⑤ Optical Fibres
- ⑥ Optical Fibres (in blue and orange bundles)

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 Gigabit Ethernet over maximum distances are assured, due to improved bandwidth available as standard from Excel fibre cables.

Performance / Specification Table

Physical Characteristics

Number of fibres	4	8	12	16	24
Outside Diameter	5.4 ± 0.3 mm	6.5 ± 0.3 mm	7.5 ± 0.3 mm	8.5 ± 0.3 mm	9.2 ± 0.3 mm
Nominal Thickness of Jacket	1.1 mm	1.1 mm	1.2 mm	1.3 mm	1.3 mm
Maximim pulling tension IEC 60794-1-2-E1	640 N	730 N	1100 N	1500 N	1500 N
Crush Load IEC 60794-1-2-E3 Short Term Long Term	1500 N/100 mm	1500 N/100 mm	1500 N/100 mm	2000 N/100 mm	2000 N/100 mm
	600 N/100 mm	600 N/100 mm	600 N/100 mm	1000 N/100 mm	1000 N/100 mm
Nominal Cable Weight	22 kg/km	31 kg/km	48 kg/km	60 kg/km	68 kg/km
Standard reel length	2000 m ± 10%				

Temperature range Transport / Storage Operation	IEC 60794-1-2-F1	-20 to +85°C -10 to +60°C
Bending radii cable Long Term Short Term	IEC 60794-1-2-E11 IEC 60794-1-2-E6	10 x Ø 20 x Ø
Flame retardancy	IEC 60332-2 (EN 50265-2-2)	Pass
	IEC 60331-25 (EN 50200)	Pass
	IEC 61034 (EN 50268-2)	Pass
Halogen-free Corrosivity	IEC 60754-2 (EN 50267-2-2)	pH ≥ 3.5 - µS/cm ≤ 100
Construction	ITU G652.D	

Optical Performance

Modal-Field Diameter	9.2 ± 0.4 µm
Cladding Diameter	125 ± 0.7 µm

	1310 nm	1550 nm
Average 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 Wave-length	≤ 1260 nm	

Fibre Colours

Cores 1-12 plain colours

1. Blue	2. Orange	3. Green	4. Brown
5. Grey	6. White	7. Red	8. Black
9. Yellow	10. Purple	11. Pink	12. Aqua

N.B. In 16 core cables, colours 1-8 are repeated in each bundle. In 24 core cables, colours 1-12 are repeated in each bundle.

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
205-320	Excel 4 Core 9/125 OS1/OS2 Tight Buffered Black Fibre
205-322	Excel 8 Core 9/125 OS1/OS2 Tight Buffered Black Fibre
205-324	Excel 12 Core 9/125 OS1/OS2 Tight Buffered Black Fibre
205-326	Excel 16 Core 9/125 OS1/OS2 Tight Buffered Black Fibre
205-328	Excel 24 Core 9/125 OS1/OS2 Tight Buffered Black Fibre



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