

X Internal External Grade

X Sequentially Metre Marked

X G.652.D Construction

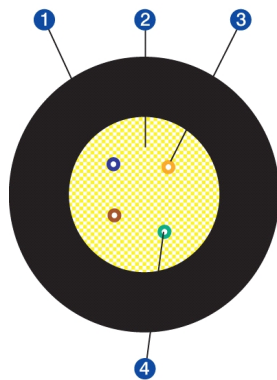
### Features

- Internal External Grade
- G.652.D Construction
- LSOH Black Sheath
- Sequentially Metre Marked
- 9/125 Singlemode Fibre
- Cut to length service

### 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 swellable reinforced yarns as common strength containing buffered 9/125 fibres, covered with a flame retardant, low smoke zero halogen, outer sheath.

#### Fibre Construction



- 1 LSOH Outer Sheath
- 2 Yarn Strength Member
- 3 Tight Buffer
- 4 Optical Fibres

### Performance Overview

Excel tight buffered fibre optic cables are designed and manufactured to ensure that optimum performance is possible from installed fibre links.

#### Optical Performance

Modal-Field Diameter	9.2 ± 0.4 μm
Cladding Diameter	125 ± 0.3 μm

	1310 nm	1550 nm
Average Attenuation	0.34 dB/km	0.21 dB/km
Maximum Attenuation	0.50 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	

Number of fibres	4	8	12	16	24
Nominal Outside Diameter	5.4 mm	5.9 mm	7.6 mm	8.6 mm	9.6 mm
Tight Buffer Diameter	0.9 ± 0.1 mm	0.9 ± 0.1 mm	0.9 ± 0.1 mm	0.9 ± 0.1 mm	0.9 ± 0.1 mm
Maximum pulling tension					
Long Term	400N	450N	500N	500N	600N
Short Term	800N	900N	1000N	1000N	1200N
Crush Load					
IEC 60794-1-2-E3					
Short Term	1500 N/100 mm	1500 N/100 mm	1500 N/100 mm	2000 N/100 mm	2000 N/100 mm
Long Term	600 N/100 mm	600 N/100 mm	600 N/100 mm	1000 N/100 mm	1000 N/100 mm
Weight	34 kg/km	39 kg/km	45 kg/km	53 kg/km	65 kg/km
Standard reel length	Standard reel length				

Temperature range					
Transport / Storage	IEC 60794-1-2-F1			-20 to +70° C	
Installation / Operation	-10 to +60° C				
Temperature range					
Transport / Storage					20 x Ø
Installation / Operation					10 x Ø

Colour Codes			
White	Red	Blue	Yellow
Green	Violet	Brown	Black
Orange	Turquoise	Pink	Grey

High core counts use colours with rings/marks for cores 13 upwards.

### 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	Internal/External Grade Tight Buffered Fibre Cable 4 Core 9/125 OS1
205-322	Internal/External Grade Tight Buffered Fibre Cable 8 Core 9/125 OS1
205-324	Internal/External Grade Tight Buffered Fibre Cable 12 Core 9/125 OS1
205-326	Internal/External Grade Tight Buffered Fibre Cable 16 Core 9/125 OS1
205-328	Internal/External Grade Tight Buffered Fibre Cable 24 Core 9/125 OS1

### 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.

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