

# Fibre Optic Cabling

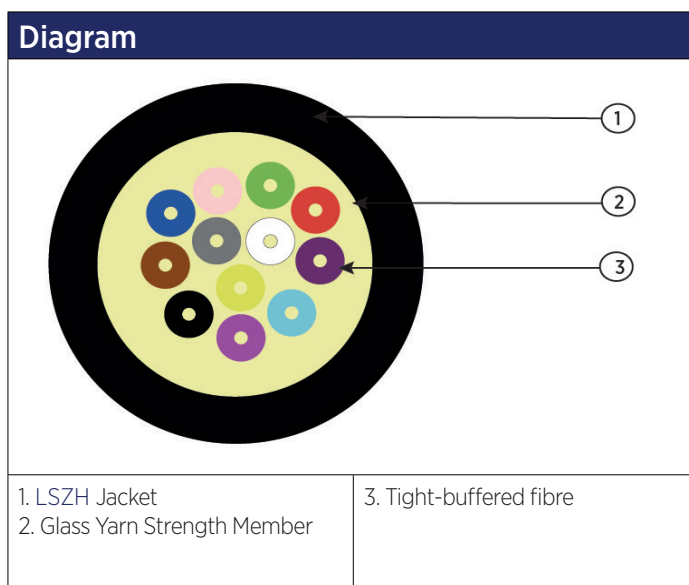
## Singlemode Tight Buffered Fibre Optic Cable

### Cca-s1a-d0-a1

Connectix OS2 9/125 singlemode tight buffered distribution cable can be used for many indoor and outdoor applications. Typical cable applications include: LAN and WAN backbones, tray pathways, backbones in data centres, and rodent resistant within ducts.

The outer sheath features an UV stabilised, water and moisture resistant LSOH jacket making the cable is well suited for shorter outdoor runs. This cable features high flame retardance with a CPR EuroClass rating of Cca-s1a-d0-a1 and exceeds BS6701:A1 minimum requirements.

When installed as part of an end-to-end Connectix Cabling System, a 25-year system warranty is available for projects completed by Connectix Approved Installers.



### Features and Benefits

- Excellent reaction to fire with CPR EuroClass rating of Cca-s1a-d0-a1
- Exceeds requirements of BS6701:A1
- Installer friendly, flexible construction
- Free cut to length service
- Rodent resistant duct grade
- ITU-T G.652.D Singlemode OS2 low water peak grade
- 4, 8, 12, 24-fibre options from stock

Materials	
Fibre	ITU-T G.652.D (from stock), also available G.657.A1 and G.657.A2
Strength member	Glass yarn
Buffer	LSZH
Jacket	LSZH

Fire Performance Test	
Test	Result
Euroclassification to CPR	Cca-s1a-d0-a1

Ordering Information	
Part Number	Description
002-005-011-04	Connectix 4f OS2 Singlemode G.652.D Internal/External Tight buffered LSZH Cca-s1a-d0-a1
002-005-011-08	Connectix 8f OS2 Singlemode G.652.D Internal/External Tight buffered LSZH Cca-s1a-d0-a1
002-005-011-12	Connectix 12f OS2 Singlemode G.652.D Internal/External Tight buffered LSZH Cca-s1a-d0-a1
002-005-011-24	Connectix 24f OS2 Singlemode G.652.D Internal/External Tight buffered LSZH Cca-s1a-d0-a1

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### Cca-s1a-d0-a1

Cable and Fibre Specifications		
Singlemode		G.652.D
Attenuation	@1310nm	≤0.40dB/km
	@1550nm	≤0.30dB/km
Dimension	Cladding Diameter	125 ± 1μm
	Non-circularity	≤ 1%
	Core to cladding concentricity error	≤0.6μm
	Buffer Diameter	0.9±0.05mm
	Cable Diameter	Nominal value
Stripping	Coating Stripping	1.3~8.9N
	Buffer Stripping	≤13.3N

Physical Properties				
Cores	4	8	12	24
Outer Diameter (mm)	6.5 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	8.5 ± 0.2
Thickness (mm)	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1
Approx weight (kg/km)	37	44	47	71
Fibre Colour Code	TIA-568-C			

Mechanical Characteristics							
Singlemode			G.652.D				
Mechanical Characteristics	Tension	Cores	2	8	12	16	24
		Long Term	200N	200N	200N	400N	400N
		Short Term	660N	660N	660N	1320N	1320N
	Crush	Long Term	200N				
		Short Term	1000N				
	Impact	1N.m, fibre not damaged, no cracks to sheathing					
	Repeated Bending	40N,100cycles					
	Torsion	20 N,10cycles, ±180°					
Bending Radius	Load	20D (cable diameter)					
	Unload	10D (cable diameter)					
Additional att (-20°C ~ 60°C)			≤0.4dB/km				
Flame resistance			IEC 60332-1, IEC 60332-3-24 CPR Cca-s1a-d0-a1				
Temperature Range	Storage	-20°C-70°C					
	Installation	-5°C-50°C					
	Operating	-20°C-60°C					