

# Multimode OM4 Tight Buffered Fibre Optic Cable

## Cca-s1a-d0-a1

Connectix OM4 50/125 multimode tight buffered distribution cable can be used for many indoor and outdoor applications. Typical cable applications include: LAN backbones, tray pathways and backbones in data centres.

The outer sheath features an UV stabilised, water and moisture resistant LSZH jacket making the cable well suited for shorter outdoor runs.

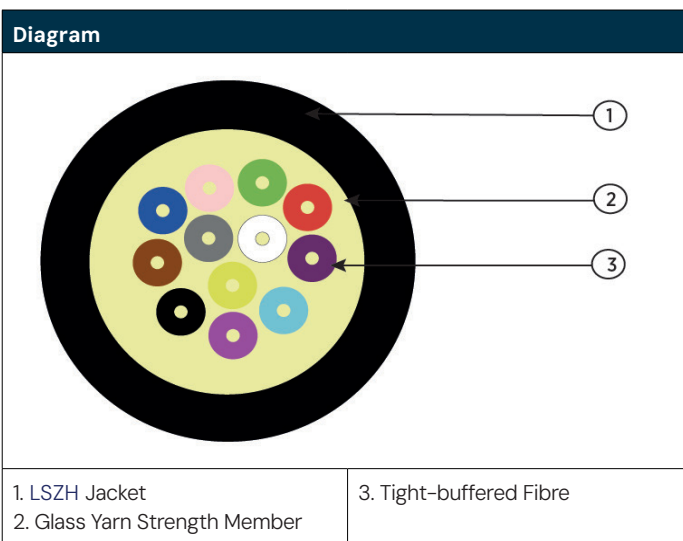
This cable features high flame retardance with a CPR EuroClass rating of Cca-s1a-d0-a1 and exceeds BS6701:A1 minimum requirements.

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
- ITU-T G.651 Multimode OM4
- 4, 8, 12, 24-fibre options from stock



Materials	
Fibre	ITU-T G.651 Multimode OM4 (from stock)
Strength member	Glass yarn
Buffer	LSZH
Jacket	LSZH

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

Ordering Information	
Description	Part Number
Connectix 4f OM4 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1	002-005-009-28
Connectix 8f OM4 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1	002-005-009-32
Connectix 12f OM4 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1	002-005-009-34
Connectix 16f OM4 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1	002-005-009-36
Connectix 24f OM4 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1	002-005-009-38

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## Cca-s1a-d0-a1

Cable and Fibre Specifications		
	Multimode Fibre	OM4
Attenuation (dB/km)	@850nm	≤3.5
	@953nm	-
	@1300nm	≤1.5
BW (MHz.km)	@850nm	≥1500
	@953nm	-
	@1300nm	≥500
Dimension	Core Diameter	50±2.5
	Cladding Diameter	125 ± 2µm
	Non-circularity	≤ 1.5%
	Conc	≤2µm
	Buffer Diameter	0.9±0.05mm
	Cable Diameter	Nominal value
Stripping	Coating Stripping	1.3~8.9N
	Buffer Stripping	≤13.3N

Mechanical Characteristics										
Multimode Fibre										
Mechanical Characteristics	Tension	Cores	2	4	6	8	12	16	24	
		Long Term	200N	200N	200N	200N	200N	400N	400N	
		Short Term	660N	660N	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, fibre not damaged, no cracks to sheathing								
	Torsion	20N, 10cycles, ±180° fibre not damaged, no cracks to sheathing								
Bending Radius	Load	20Ø (cable diameter)								
	Unload	10Ø (cable diameter)								
Additional Att (-20°C ~ 60°C)		≤0.6dB/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								

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Mechanical Characteristics (Cont'd)	
Primary Coating Non-circularity	≤6%
Primary Coating – Cladding Concentricity Error	≤10µm
Group Index of Refraction	1.482@850nm 1.477@1300nm
Proof Stress Level	100kpsi
Typical Average Strip Force	1.5N
Strip Force Peak	min 1.3N,max 8.9N
Numerical Aperture	0.200±0.015
Fibre Bending Loss R-7.5mm	≤0.2dB@850nm ≤0.5dB@1300nm
Fibre Bending Loss R-15.0mm	≤0.1dB@850nm ≤0.3dB@1300nm

Physical Properties							
Cores	2	4	6	8	12	16	24
Outer Diameter (mm)	5.5 ± 0.2	6.5 ± 0.2	6.6 ± 0.2	7.0 ± 0.2	7.0 ± 0.2	8.0 ± 0.2	8.5 ± 0.2
Thickness (mm)	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1	1.1 ± 0.1
Approx Weight (kg/km)	30	37	40	44	47	60	71