

Multimode OM3 Tight Buffered Fibre Optic Cable

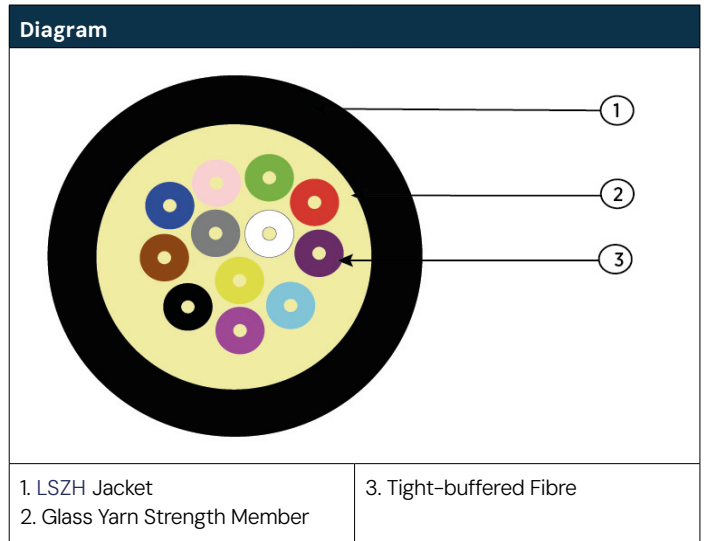
Cca-s1a-d0-a1

Connectix OM3 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.61 Multimode OM3
- 4, 8, 12, 24-fibre options from stock

| Materials | |
|-----------------|---------------------------------------|
| Fibre | ITU-T G.61 Multimode OM3 (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 OM3 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1 | 002-005-004-28 |
| Connectix 8f OM3 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1 | 002-005-004-32 |
| Connectix 12f OM3 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1 | 002-005-004-34 |
| Connectix 16f OM3 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1 | 002-005-004-36 |
| Connectix 24f OM3 Multimode G.651 Internal/External Tight buffered LSZH Cca-s1a-d0-a1 | 002-005-004-38 |

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Cca-s1a-d0-a1

| Cable and Fibre Specifications | | |
|--------------------------------|-------------------|---------------|
| | Multimode Fibre | OM3 |
| 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 | 20 N, 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 |