

## UK DS Indoor 4-24F x 1 SM G.657A2 250u

# FibreFast

## Indoor LSZH Cable 4-24F (4.8mm-8.5mm)

### Product Description

An Indoor rated cable design suitable for installation in buildings. The cable complies with CPR requirements, making it suitable for use in riser spaces and other indoor pathways where fire safety is a priority.

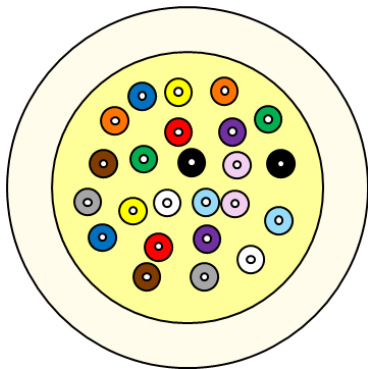
This cable design is ideal for breaking out in vertical riser installations.

Cable Performance Standards IEC 60793-1, IEC 60793-2, IEC 60794-2

Cable CPR rating Cca-s1a,d1,a2

### Marking and Identification

#### Cable Cross section:



- 900µm Tight buffer 4-24 fibers
- Aramid Yarn
- Outer sheath LSZH

#### Fibre colour:

according to EIA 598.



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

Fibres 13-24 ring marked

#### Sheath colour:

Cable sheath is white

#### Cable Marking:

The outer sheath is marked in one meter intervals.

Emtelle FibreFast – Year/week – Fibre Count, Fibre Type – Product Code – Batch ID – Meter Mark

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### Specifications

#### Technical:

Fibre Count	4-24F					
Number of Fibres/Tube	4f	6f	8f	12f	16f	24f
Outer Sheath	low smoke zero halogen (LSZH)					
Cable Diameter – Ø (± 0.5 mm)	4.8mm	5.2mm	5.8mm	6.2mm	7.0mm	8.5mm
Peripheral Strength Member	Aramid Yarns					
Cable Weight (± 20% kg /km)	21.0 kg/km	27.0 kg/km	34.0 kg/km	43.0 kg/km	55.0 kg/km	73.0 kg/km
Minimum Bending Radius	20D					
Temperature Range	Transport & Storage		-20°C → +70°C			
	Installation		-10°C → +60°C			
	Operation		-20°C → +70°C			

#### Performance:

Test	Standard	Specified Value	
Tensile Performance	IEC 60794-1-21-E1	660N (4-12f)	1320N (16-24f)
Crush	IEC 60794-1-21-E3	1000 N/100 mm	
Impact	IEC 60794-1-21-E4	1 Nm	
Torsion	IEC 60794-1-21-E7	±180°	
Temperature Cycling	IEC 60794-1-22-F1	-20 °C to +70 °C	
Minimum Bend Radius	IEC-60794-1-21-E11	20xD	

#### Optical Parameters:

Description	G657A2	
Cladding diameter	125.0 ± 0.7 µm	
Cladding non-circularity	≤ 1.0 %	
Coating diameter	245 ± 10 µm (Before Colored)	
	250 ± 15 µm (Colored)	
Fiber curl (Radius)	≥ 4 m	
Core concentricity error	≤ 0.5 µm	
Mode field diameter at 1310 nm	8.6-9.5 ± 0.5 µm	
Point discontinuity	≤ 0.05dB	
Attenuation	1310 nm	≤ 0.36 dB/km
	1383 nm	≤ 0.36 dB/km
	1550 nm	≤ 0.22 dB/km
	1625 nm	≤ 0.26 dB/km
Dispersion	1288 – 1339 nm	≤ 3.5 ps/(nm·km)
	1271 – 1360 nm	≤ 5.3 ps/(nm·km)
	1550 nm	≤ 18 ps/(nm·km)
Zero dispersion wavelength	1300 – 1324 nm	
Zero dispersion slope	≤ 0.092 ps/(nm <sup>2</sup> ·km)	
Cable cut-off wavelength	≤ 1260 nm	
Polarization mode dispersion individual fiber	≤ 0.2 ps/√km	
Polarization mode dispersion design link value (M=20, Q=0.01%)	≤ 0.1 ps/√km	
Macro-bend loss (10 turns, 15mm radius,)	≤ 0.03 dB at 1550nm	
	≤ 0.1 dB at 1625nm	
Macro-bend loss (1 turns, 10mm radius,)	≤ 0.1 dB at 1550nm	
	≤ 0.2 dB at 1625nm	

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Macro-bend loss (1 turns, 7.5mm radius,)	≤ 0.5 dB at 1550nm
	≤ 1.0 dB at 1625nm
Proof stress level	≥100kpsi (0.69 GPa)

### Packaging and Labelling

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All products suitably packaged in recyclable materials and clearly labelled with Emtelle Product Code and Description where possible.

Wooden drums with protection.

### END OF SPECIFICATION