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THE FIBRE OPTIC BRAND
REL 1 - EN - JUN22

Connectorized Cable

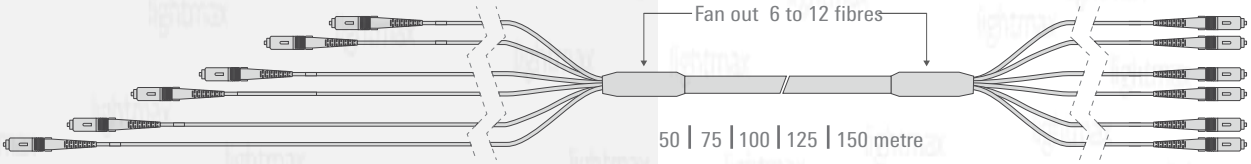
Several termination configurations

OM3 | OM4 | G.652.D - 6 | 12 | 24 Fibres

Dca

LightMax® connectorised cables are terminated with 2 mm diameter cable ends and protection. Suitable for indoor/outdoor installation and operation, they integrate resistant LSZH outer sheath. Inside, a central loose tube filled with a waterproof protective compound contains the fibres. They can be available in various termination configurations and fibre types.

[Pictures only for reference purposes]



*SC terminated **staggered** strips*

*SC terminated **aligned** strips*

Example drawing with SC termination, but other types of connectors are available.

Features:

- LSZH outer jacket
- Loose tube with gelly water blocking compound
- Glass fibre as strengthening member
- Expandable mesh and corrugated plastic tube on both ends for connector protection
- LC, SC, FC, ST connectors availability

G.652.D FIBRE SPECIFICATIONS			
Fibre type			Single mode
Diametre		µm	9
DCM	@1310 nm	µm	9.2 ±0.4
	@1550 nm	µm	10.4 ±0.5
Attenuation	@1310 nm	dB/km	≤ 0.35
	@1383 nm		≤ 0.35
	@1550 nm		≤ 0.20
	@1625 nm		≤ 0.24
Chromatic Dispersion	@1285nm ~ 1340nm	ps / nm.km	-3.0 ~ 3.0
	@1550nm		≤18
	@1625nm		≤22
Zero dispersion wavelength		nm	1302 ~ 1322
Zero dispersion slope		ps/(nm².km)	≤0.092
Cut-off wavelength λcc		nm	≤1260
Cladding diameter		µm	124.8±0.7
Non-circularity of cladding		%	≤0.7
Core/cladding concentricity error		µm	≤0.5
Coating diameter (uncoloured)		µm	245±10
Standard			
ITU-T			G.652.D

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MULTIMODE OM3 [50µm] FIBRE SPECIFICATIONS		
Fibre type		OM3
Attenuation	@850 nm	≤ 3.0 dB/km
	@1300 nm	≤ 1.0 dB/km
Bandwidth (Overfilled)	@850 nm	≥ 1500 MHz.km
	@1300 nm	≥ 500 MHz.km
Bandwidth (EMB)	@850 nm	≥ 2000 MHz.km
	@1300 nm	–
Cladding diameter		124.5 ±1 µm
Core diameter		50 ±2.5 µm
Non-circularity of cladding		≤ 2.0 %
Non-circularity of the core		≤ 6.0 %
Core/cladding concentricity error		≤ 1.5 µm
Fibre diameter with colourless coating		245 ±10 µm
Cladding/coating concentricity error		≤ 12.5 µm
Macro curvature Loss	100 turns, 37.5mm radio @850 nm	≤ 0.5 dB
	100 turns, 37.5mm radio @1300 nm	≤ 0.5 dB
Standards		
		ISO/IEC 11801 IEC 60793-2-10

MULTIMODE OM4 [50µm] FIBRE SPECIFICATIONS		
Fibre type		OM4
Attenuation	@850 nm	≤ 3.0 dB/km
	@1300 nm	≤ 1.0 dB/km
Bandwidth (Overfilled)	@850 nm	≥ 3500 MHz.km
	@1300 nm	≥ 500 MHz.km
Bandwidth (EMB)	@850 nm	≥ 4700 MHz.km
	@1300 nm	–
Cladding diameter		124.5 ±1.0 µm
Core diameter		50 ±2.5 µm
Non-circularity of cladding		≤ 2.0 %
Non-circularity of the core		≤ 6.0 %
Core/cladding concentricity error		≤ 1.5 µm
Fibre diameter with colourless coating		245 ±10 µm
Cladding/coating concentricity error		≤ 12.5 µm
Macro curvature Loss	100 turns, 37.5mm radio @850 nm	≤ 0.5 dB
	100 turns, 37.5mm radio @1300 nm	≤ 0.5 dB
Standards		
		ISO/IEC 11801 IEC 60793-2-10

CABLE SPECIFICATIONS			
Cable type		–	Indoor / Outdoor
Fibre count		–	6, 12, 24
Nominal cable diameter (D)		mm	6.8
Loose tube	Diameter	mm	3.6
	Material	–	PBT
	Water blocking	–	Gelly filling compound
Outer jacket	Material	–	LSZH
	Colour	–	Black
Nominal cable weight		kg/km	50
Strength member		–	Glass yarns
Temperature	Operation	°C	-30 ~ 60
	Storage	°C	-40 ~ 70
	Installation	°C	-30 ~ 60
Bend radius	Dynamic	–	20 x D
	Static	–	10 x D
Crush resistance		N/10 cm	1500
Tensile		N	1000
Standards			
IEC 60794-1-2			E1 - Tensile E3 - Crush E4 - Impact E6 - Repetitive bending E7 - Torsion F1 - Temperature cycle
EN 50575			Dca

Availability
Multimode - OM3
LC/PC - LC/PC | LC/PC - SC/PC | SC/PC - LC/PC
Multimode - OM4
LC / PC - LC/PC | LC / PC - SC/PC | SC / PC - LC/PC
Single Mode - G.652.D
LC/UPC - LC/UPC | LC/UPC - SC/UPC | SC/UPC - SC/UPC | LC/UPC - SC/APC | SC/APC - SC/APC

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