



Connectorized Cable

Several termination configurations

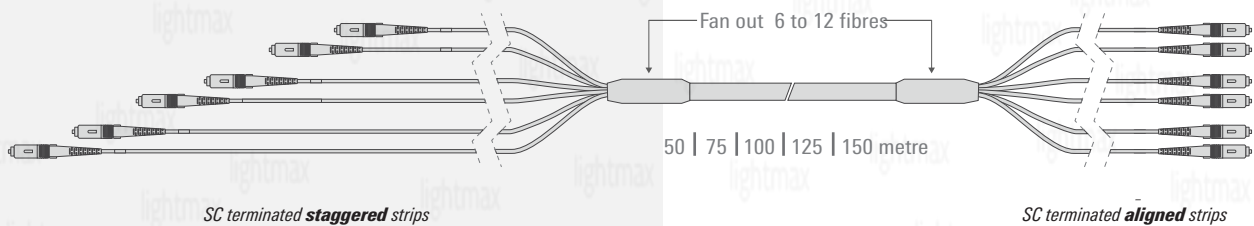
OM3 | OM4 | G.652.D - 6 | 12 | 24 Fibres

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]



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/(nm ² .km)	≤ 0.092
Cut-off wavelength λ_{cc}		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



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
	Diameter	mm	3.6
Loose tube	Material	-	
	Water blocking	-	
Outer jacket	Material	-	
	Colour	-	
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	-	
	Static	-	
Crush resistance	N/10 cm	1500	
Tensile	N	1000	
Standards			E1 - Tensile E3 - Crush E4 - Impact E6 - Repetitive bending E7 - Torsion F1 - Temperature cycle
IEC 60794-1-2			
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 - LC/UPC - SC/APC SC/APC - SC/APC

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