



Dielectric Indoor/Outdoor Cable

12 Fibres per Loose tube

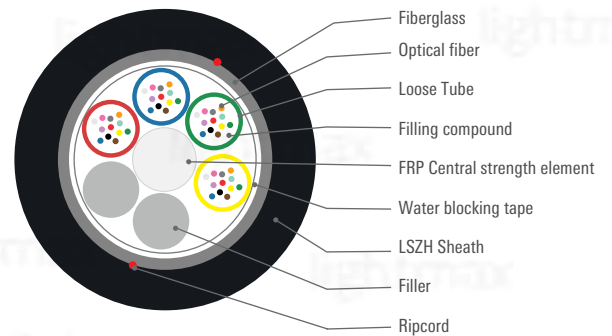
G.652.D | 48 Fibres

Eca

Dielectric indoor / outdoor loose tube cable, with a glass fibre reinforced plastic rod (FRP) as CSE (central strength element). BT loose tubes hold 12 fibres and are filled with a suitable water tightness compound. As fillers the cable contains plastic rods. The loose tubes are SZ stranded around CSM. A water swellable elements dry core, and a glass yarns armour add additional tensile strength and anti-rodent protection.



[Picture only for reference purposes]



Applications:

- Indoor and in-duct outdoor installations

G.652.D FIBRE OPTIC SPECIFICATIONS		
Fibre type		Single Mode
Core diameter		9 µm
MFD	@1310 nm	9.2 ±0.4 µm
	@1550 nm	10.4 ±0.5 µm
Cladding diameter		125 ±0.7 µm
Coating diameter	Before colour	242 ±10 µm
Cladding non circularity		≤ 0.7 %
Core/Cladding concentricity error		≤ 0.5 µm
Chromatic Dispersion	@1310 +30/-15 nm	≤ 3.5 ps/(nm.km)
	@1550 nm	≤ 18 ps/(nm.km)
	@1625 nm	≤ 22 ps/(nm.km)
Zero-Dispersion wavelength		1300 nm - 1324 nm
Zero-Dispersion slope		≤ 0.092 ps/(nm ² .km)
PMD	Max. (fibre on the reel)	0.20 ps/√km
	Max. (link designed value)	0.10 ps/√km
Attenuation	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Proof test		≥ 0.69GPa (100kpsi)
Dynamic Fatigue		≥ 20
Standard		
	ITU-T	G.652.D



Fibres and Tubes colours

[FOTAG - TIA 598]

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

Features:

- Dielectric cable
- LSZH outer sheath
- 48 fibres (12F tubes)
- PBT loose tubes
- FRP central strength element
- Longitudinal water tightness
- 2 ripcords
- SM - G.652.D fibre
- CPR Euroclass: Eca

CABLE SPECIFICATIONS			
Fibres count			48
Tubes count		-	4
Fillers count			2
Nominal cable diameter (D)		mm	10.4 ±0.5
Cable weight		kg/km	110 ±15
Outer sheath	Material Colour		LSZH Black
Water protection		-	Swellable elements dry core
Strength member			FRP
Temperature	Storage	°C	-25 ~ 60
	Operating	°C	-25 ~ 60
Bend radius	Load	-	20 x D
	Unload	-	10 x D
Crush resistance		N/10 cm	1500
Max. Tensile		N	2700
Standards			
			E1 - Tensile
			E3 - Crush
			E4 - Impact
IEC 60794-1-2			E6 - Repeated bending
			E7 - Torsion
			F1 - Temperature cycling
			F5 - Water penetration
EN 60332-1-2			Eca

Part number	LMCAIQ2DDM048FM12ZHPBE
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Rel. 10-EN/NOV23