



Dielectric Indoor/Outdoor Cable

Loose tube - 12 Fibres per tube

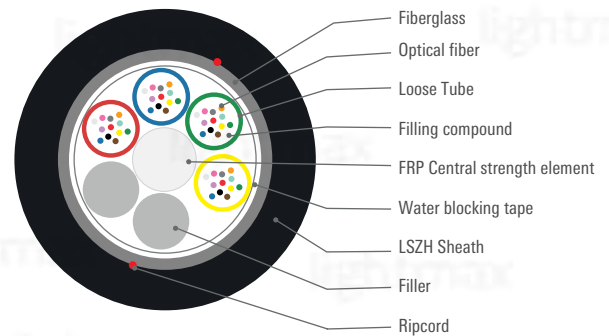
OM3 - OM4 | 48 fibres

Eca

LightMax[®] dielectric indoor/outdoor loose tube cable, with a glass fibre reinforced plastic rod [FRP] as CSE (central strength element). PBT loose tubes hold 12 fibres each and are filled with a suitable water tightness compound. The cable includes plastic rods as fillers depending on cable's fibre count. The loose tubes are SZ stranded around CSE. A Water swellable elements dry core, and a glass yarns armour add additional tensile strength resistance and anti-rodent protection.



[Picture only for reference purposes]



Applications:

- Indoor and in-duct outdoor installations

OM3 [50µm] FIBRE OPTIC 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	
Cladding non circularity	≤ 2.0 %	
Core non circularity	≤ 6.0 %	
Core/Cladding concentricity error	≤ 1.5 µm	
Fibre diameter with coating (uncoloured)	245 ± 10 µm	
Cladding/Coating concentricity error	≤ 12.5 µm	
Macrobend loss	100 turns, 37.5mm radius @850 nm	≤ 0.5 dB
	100 turns, 37.5mm radius @1300 nm	≤ 0.5 dB
Standards	ISO/IEC 11801 type OM3 IEC 60793-2-10	

OM4 [50µm] FIBRE OPTIC 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	
Cladding non circularity	≤ 2.0 %	
Core non circularity	≤ 6.0 %	
Core/Cladding concentricity error	≤ 1.5 µm	
Fibre diameter with coating (uncoloured)	245 ± 10 µm	
Cladding/Coating concentricity error	≤ 12.5 µm	
Macrobend loss	100 turns, 37.5mm radius @850 nm	≤ 0.5 dB
	100 turns, 37.5mm radius @1300 nm	≤ 0.5 dB
Standards	ISO/IEC 11801 type OM4 IEC 60793-2-10	



Fibres and Tubes colours

[France Télécom]

Fibres		Loose tubes	
01	Red	07	Orange
02	Blue	08	Grey
03	Green	09	Brown
04	Yellow	10	Black
05	Violet	11	Aqua
06	White	12	Pink

Features:

- Dielectric cable
- LSZH outer sheath
- 48 fibres
- PBT loose tubes
- FRP central strength element
- Longitudinal water tightness
- 2 ripcords
- OM3 - OM4 fibre type
- 2700 N max. tensile
- CPR Euroclass: Eca

CABLE SPECIFICATIONS			
Fibres count		-	48
Tubes count		-	4
Fillers count		-	2
Tubes outer diameter		mm	2.05
Central strength member diameter		mm	2.1
Outer sheath thickness		mm	1.6
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
Minimum bend radius	Load	-	20 x D
	Unload	-	15 x D
Crush resistance		N/10 cm	1500
Max. Tensile		N	2700
Standard			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			

Part Numbers
LMCA10M3DM048FM12ZHPB1
LMCA10M4DM048FM12ZHPBE

Rel. 4-EN/FEB23