

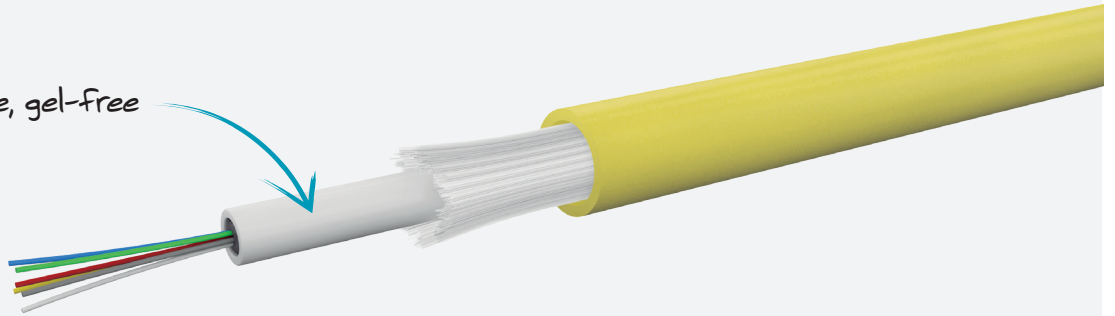


REINFORCED CENTRAL LOOSE TUBE FIBRE OPTIC CABLE

GGM FO_{xx}BxFRLST

Save time on your projects!

Soft tube, gel-free



FIBRE COLOUR CODE

ACCORDING TO IEC 60304

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

FEATURES


- ▶ Central loose tube 250 µm optical fibre
- ▶ Multimode 50/125 OM2, 50/125 OM3, 50/125 OM4 or singlemode 9/125 OS2
- ▶ Soft tube without gel
- ▶ 4-12 fibres: central tube / 24 fibres: bi-tubes
- ▶ MMF fibres compliant to ITU-T G651.1 & IEC 60793-2-10 A1
- ▶ SMF fibers compliant to ITU-T G652B/G652D & IEC 60793-2-50 B1.3
- ▶ OM3 & OM4 fibres integrate bend optimized fiber technology
- ▶ Indoor/Outdoor rated cable with enhanced protection against rodents & swelling rope
- ▶ Low smoke, Zero Halogen Fire Retardant (LSZH-FR) & UV stable
- ▶ EN 13501-6 Fire rating : Cca-s1a, d1, a1
- ▶ Fire behaviour according to EN 50575, EN 50399, EN 60332-1-2, EN 61034-2, EN 60754-2
- ▶ Compliant to IEC 60794-2 cable performance requirements
- ▶ IEC 60304 colour coded
- ▶ Outer jacket color: orange (OM1/OM2), aqua (OM3), purple (OM4), lime green (OM5) & yellow (OS2)
- ▶ Packing: 2100 m reel

CABLE PERFORMANCES		4 FIBRES	6 FIBRES	8 FIBRES	12 FIBRES	24 FIBRES
Temperature	Operating	-20 °C à +60 °C				
	Storage	-40 °C à +70 °C				
	Installation	-5 °C à +50 °C				
Max. pulling force during installation (N)		3000				
Crush resistance (N/dm)		2000				
Min. static bending radius (mm)		41,5			46	
Dynamic min bending radius (mm)		83			92	
Nominal weight (kg/km)		74			86	
Nominal diameter (mm)		8,3			9,2	
Jacket thickness (mm)		1,3				

OPTICAL PERFORMANCES	OM2 50/125	OM3 50/125	OM4 50/125*	OS2/G652D 9/125
Bandwith @850nm (MHz.km)	≥ 500	≥ 2000**	≥ 4700**	NA
Bandwith @1300nm (MHz.km)	≥ 500	≥ 500	≥ 500	NA
Typ. attenuation @850nm (dB/km)	≤ 2,7	≤ 2,7	≤ 2,7	NA
Typ. attenuation @1300nm (dB/km)	≤ 0,8	≤ 0,8	≤ 0,8	NA
Typ. attenuation @1310nm (dB/km)	NA	NA	NA	≤ 0,36
Typ. attenuation @1550nm (dB/km)	NA	NA	NA	≤ 0,23
Numerical aperture (µm)	0,2 ± 0,0015	0,2 ± 0,0015	0,2 ± 0,0015	NA
Core non-circularity	≤ 6 %	≤ 6 %	≤ 6 %	NA
Mode field diameter (1310/1550nm - µm)	NA	NA	NA	8,6-9,5 ± 0,7
Cladding diameter (µm)	125 ± 1,0	125 ± 1,0	125 ± 1,0	125 ± 1,0
Cladding non-circularity	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
Coating diameter (µm)	245 ± 10	245 ± 10	245 ± 10	245 ± 10
Core/cladding concentricity error (µm)	≤ 1 µm	≤ 1 µm	≤ 1 µm	≤ 0,6 µm
Cut-off wavelength (nm)	NA	NA	NA	≤ 1260
Zero dispersion wavelength (nm)	1295 - 1340	1295 - 1340	1295 - 1340	1300 - 1320
GIR @850nm	1,482	1,483	1,483	NA
GIR @1300nm	1,477	1,479	1,479	NA
GIR @1310nm	NA	NA	NA	1,467
GIR @1550nm	NA	NA	NA	1,468
PMD individual fiber (ps/√km)	NA	NA	NA	0,1
Chromatic dispersion: 1285-1330nm (ps/nm.km)	NA	NA	NA	≤ 2,8
Chromatic dispersion: 1550nm (ps/nm.km)	NA	NA	NA	≤ 18,0

* On demand / ** EMBC calculation method

PART NUMBERS

	4 FIBRES	6 FIBRES	8 FIBRES	12 FIBRES	24 FIBRES
 OM2	GGM F04B50FRLST*	GGM F06B50FRLST*	GGM F08B50FRLST*	GGM F012B50FRLST*	GGM F024B50FRLST*
 OM3	GGM F04B3FRLST	GGM F06B3FRLST	GGM F08B3FRLST	GGM F012B3FRLST	GGM F024B3FRLST
 OM4	GGM F04B4FRLST	GGM F06B4FRLST	GGM F08B4FRLST	GGM F012B4FRLST	GGM F024B4FRLST
 OS2	GGM F04B9FRLST	GGM F06B9FRLST	GGM F08B9FRLST	GGM F012B9FRLST	GGM F024B9FRLST

Minimum order 2100 m