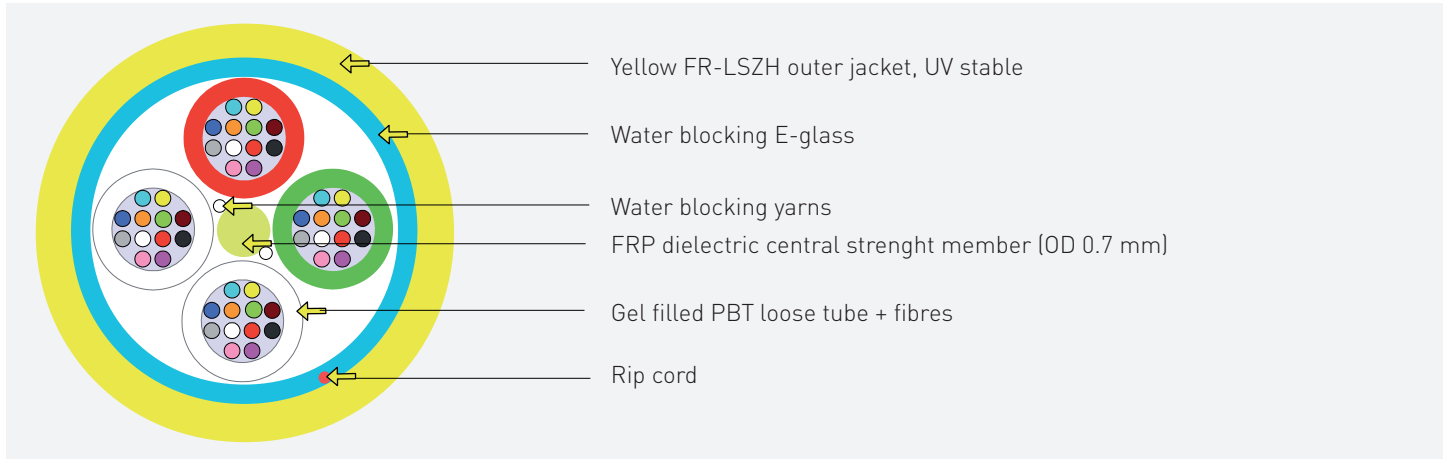




MULTI LOOSE TUBE CABLE INDOOR/OUTDOOR LSZH

GGM FxxMTxDLST



FIBRE & TUBE 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

Other colour code on request

FEATURES

- ▶ Multi loose tube cable (12 fibres / tube)
- ▶ Multimode 50/125 OM2/OM3/OM4 or singlemode 9/125 OS2
- ▶ 24, 36 and 48 fibres
- ▶ Indoor/Outdoor
- ▶ Water blocking glass yarns protection
- ▶ Halogen free outer sheath (IEC 60754-2 & IEC 61034-2), UV stable
- ▶ Fire behaviour: EN 13501-6 ; Dca-s2, d1, a1
- ▶ EN 50575, EN 50399, EN 60332-1-2, EN 61034-2, EN 60754-2
- ▶ IEC 60794-1 compliant with mechanical and environmental performances
- ▶ Colour: orange (OM1/OM2), aqua (OM3), purple (OM4) & yellow (OS2)
- ▶ IEC 60304 fibre color coding (other colour code on request)
- ▶ Packing: 2100 m reel

MECHANICAL & ENVIRONMENTAL PROPERTIES

TEST METHOD

Tensile strength	1300 N	IEC 60794-1-21 / E1A
Crush resistance	2000 N/dm	IEC 60794-1-21 / E3
Impact resistance	25 Nm	IEC 60794-1-21 / E4
Min. bending radius	79 mm	IEC 60794-1-21 / E11A
Min. bending radius (load)	118.5 mm	IEC 60794-1-21 / F11B
Installation Temp.	-15 °C to +50 °C	IEC 60794-1-22 / F1
Operation Temp.	-40 °C to +70 °C	IEC 60794-1-22 / F1
Storage Temp.	-40 °C to +70 °C	IEC 60794-1-22 / F1

PHYSICAL PROPERTIES

48 FIBRES

Sheath thickness	1.5 mm
Outer diameter	7.9 ± 0.4 mm
Weight	74 kg

OPTICAL PROPERTIES	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)	2.4 / 3.5	2.0 / 3.0	2.0 / 3.0	NA
Typ. attenuation @1300nm (dB/km)	0.7 / 1.5	0.5 / 1.0	0.5 / 1.0	NA
Typ. attenuation @1310nm (dB/km)	NA	NA	NA	0.31 / 0.35
Typ. Attenuation @1550nm (dB/km)	NA	NA	NA	0.20 / 0.24
Numerical aperture (μm)	0.200 ± 0.0015	0.200 ± 0.0015	0.200 ± 0.0015	NA
Core non-circularity	≤ 5 %	≤ 5 %	≤ 5 %	NA
Mode field diameter (1310/1550 nm - μm)	NA	NA	NA	9.2 ± 0.4 / 10.4 ± 0.5
Cladding diameter (μm)	125 ± 1.0	125 ± 1.0	125 ± 1.0	125 ± 0.7
Cladding non-circularity	≤ 1 %	≤ 1 %	≤ 1 %	≤ 0.7 %
Coating diameter (μm)	245 ± 10	245 ± 10	245 ± 10	235.0 - 245.0
Coating non-circularity	≤ 5 %	≤ 5 %	≤ 5 %	NA
Core/cladding concentricity error (μm)	≤ 1.5 μm	≤ 1.5 μm	≤ 1.5 μm	≤ 12.0 μm
Cut-off wavelength (nm)	NA	NA	NA	< 1260
Zero dispersion wavelength (nm)	1295 - 1340	1295 - 1340	1295 - 1340	1302 - 1322
GIR @850nm	1.483	1.483	1.483	NA
GIR @1300nm	1.479	1.479	1.479	NA
GIR @1310nm	NA	NA	NA	1.467
GIR @1550nm	NA	NA	NA	1.468
PMD individual fibre (ps/√km)	NA	NA	NA	0.1

* EMBC calculation method

PART NUMBERS

	24 FIBRES	36 FIBRES	48 FIBRES
 OM2	GGM F24MT2DLST	GGM F36MT2DLST	GGM F48MT2DLST
 OM3	GGM F24MT3DLST	GGM F36MT3DLST	GGM F48MT3DLST
 OM4	GGM F24MT4DLST	GGM F36MT4DLST	GGM F48MT4DLST
 OS2	GGM F24MT9DLST	GGM F36MT9DLST	GGM F48MT9DLST



ACCESSORIES

P/N	DESCRIPTION
GGM MA037067	Miller®'s MB02 all purpose cable splitter kit with 4 modular tool trays and a fts tube scorer, for GIGAMEDIA cables