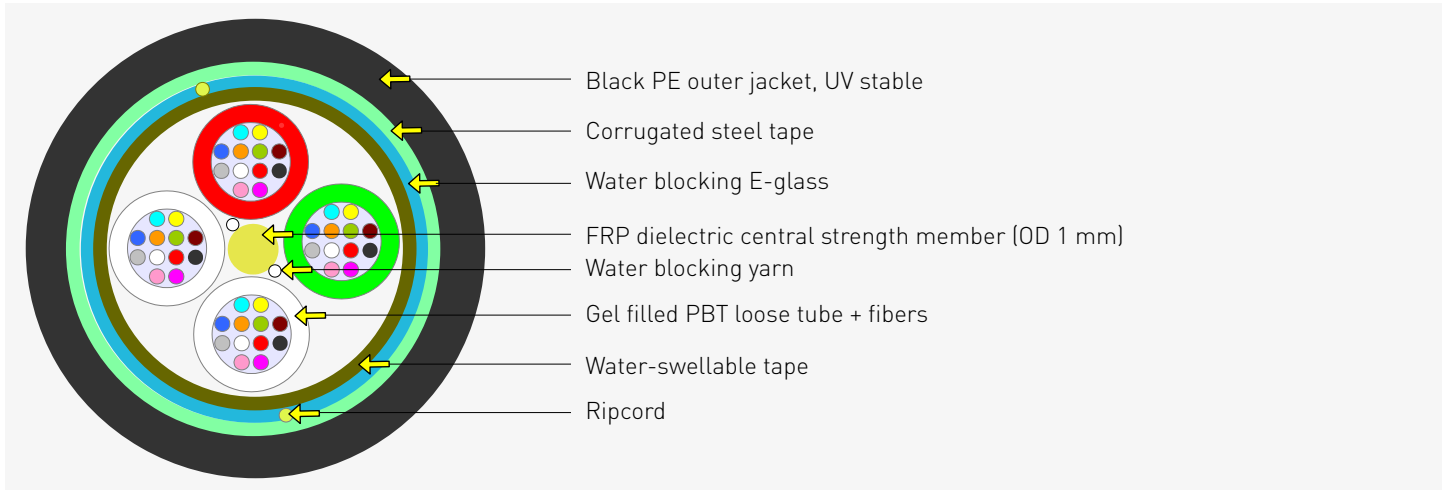




MULTI LOOSE TUBE CABLE OUTDOOR CST PE

GGM F48MTxxCST



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

DESCRIPTION

- ▶ Multi loose tube cable (12 fibers / tube)
- ▶ Multimode 50/125 OM2, OM3, OM4 or singlemode 9/125 OS2 G652D
- ▶ 48 fibers
- ▶ Outdoor
- ▶ Corrugated steel tape + glass yarns
- ▶ Waterblocking glass yarn + water-swellaable tape
- ▶ Black PE outer jacket, UV stabilized
- ▶ Compliant with mechanical and environmental performances
- ▶ IEC 60304 fiber color coding

MECHANICAL & ENVIRONMENTAL PROPERTIES

TEST METHOD

Tensile strength	1200 N	IEC 60794-1-21 / E1A
Crush resistance	4500 N/dm	IEC 60794-1-21 / E3
Impact resistance	30 Nm	IEC 60794-1-21 / E4
Min. bending radius	15x OD	IEC 60794-1-21 / E11A
Min. bending radius (load)	20x OD	IEC 60794-1-21 / F11B
Moisture resistance test	Pass	IEC 60794-1-2 / F5
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

Sheath thickness	1.5 mm
Outer diameter	11.5 ± 0.4 mm
Loose tube diameter	2.3 mm
Weight	125 kg

OPTICAL PROPERTIES	OM2 50/125	OM3 50/125	OM4 50/125	OS2/G652D 9/125
Bandwidth @850nm (MHz.km)	≥500	≥2000**	≥4700**	NA
Bandwidth @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 / 0.36
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 (1310/1550nm - 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 %	≤ 1 %
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	≤ 0.5 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 fiber (ps/√km)	NA	NA	NA	0.1
Chromatic dispersion : 1235-1330nm (ps/nm.km)	NA	NA	NA	≤ 3.5
Chromatic dispersion : 1550nm (ps/nm.km)	NA	NA	NA	≤ 18.0

* EMBC calculation method

P/N	DESCRIPTION
GGM F48MT50CST	48 FO OM2 12 FO x 4 outdoor CST HDPE
GGM F48MT3CST	48 FO OM3 12 FO x 4 outdoor CST HDPE
GGM F48MT4CST	48 FO OM4 12 FO x 4 outdoor CST HDPE
GGM F48MT9CST	48 FO OS2 12 FO x 4 outdoor CST HDPE