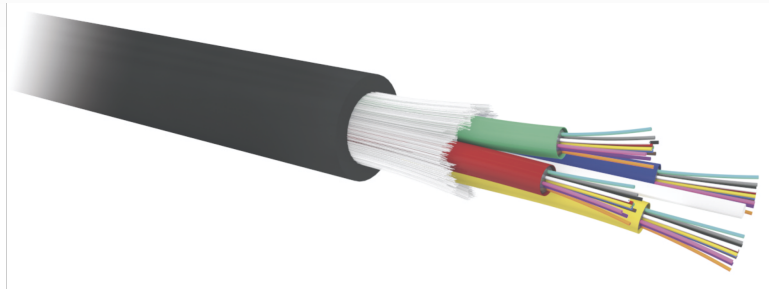


MULTI LOOSE TUBE CABLE OUTDOOR HDPE GGM FxxMTxPEHDST



FEATURES

- Multi loose tube cable (12 fibers / tube)
- Multimode 50/125 OM3 or singlemode 9/125 OS2 G652D (other modes on request)
- 24, 36 & 48 fibers
- Outdoor
- Glass yarns anti-rodent protection
- Waterblocking E-glass yarn
- Black HDPE outer jacket, UV stabilized
- Compliant with mechanical and environmental performances (IEC 60794-1)
- IEC 60304 fiber color coding
- Standard put-up: 2100 m (other lengths on request)

TUBE COLOR CODING :

Tubes	24 fibers	36 fibers	48 fibers
1	Red	Red	Red
2	Green	Green	Green
3	*	Blue	Blue
4	*	*	Yellow

In case of lower number of fibers,
addition of filling tubes with neutral colors

FIBER COLOR CODING:

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

MECHANICAL & ENVIRONMENTAL PROPERTIES

Test	24/48 fibers
Installation Temp.	-15°C to +50°C
Operation Temp.	-40°C to +70°C
Storage Temp.	-40°C to +70°C
Tensile strength	1400 N
Crush resistance	2000 N/dm
Impact resistance (variation ≤0,1 dB @ 1550 nm)	3
Min. bending radius	134
Min. bending radius (load)	178
Weight (kg/km)	64
Overall diameter (mm)	8,9 ±0,4
Cheath thickness (mm)	1,5

OPTICAL PROPERTIES

Optical Properties	OM3 50/125	OS2/G652D 9/125
Bandwidth @850nm (MHz.km)	≥ 2000	NA
Bandwidth @1300nm (MHz.km)	≥ 500	NA
Typ. Attenuation @850nm (dB/km)	2.1 / 3.5	NA
Typ. Attenuation @1300nm (dB/km)	0.7 / 1.5	NA
Typ. Attenuation @1310nm (dB/km)	NA	0.31 / 0.35
Typ. Attenuation @1550nm (dB/km)	NA	0.21 / 0.24
Numerical aperture (μm)	0.200 ±0.010	NA
Core Non-Circularity	≤ 5%	NA
Mode Field Diameter (1310/1550nm - μm)	NA	9.2 ±0.4 / 10.4 ±0.5
Cladding diameter (μm)	125 ±0.8	125 ±0.7
Cladding Non-circularity	≤ 0.7%	≤ 0.7%
Coating diameter (μm)	247.0 / 260.0	235.0 - 245.0
Core/cladding concentricity error (μm)	≤ 1.0	≤ 0.05
Cut-off wavelength (nm)	NA	< 1260
Zero dispersion wavelength (nm)	1295 - 1315	1302 - 1322
GIR @850nm	1.483	NA
GIR @1300nm	1.479	NA
GIR @1310nm	NA	1.467
GIR @1550nm	NA	1.468
PMD individual fiber (ps/√km)	NA	0.1
Zero dispersion slope (ps/nm ² .km)	≤ 0.101	≤ 0.090

Part number	Description			
GGM F24MT3PEHDST	24 FO	OM3 50/125	MLT 2x12	Glass Yarns HDPE
GGM F36MT3PEHDST	36 FO	OM3 50/125	MLT 3x12	Glass Yarns HDPE
GGM F48MT3PEHDST	48 FO	OM3 50/125	MLT 4x12	Glass Yarns HDPE
GGM F24MT9PEHDST	24 FO	OS2 9/125	MLT 2x12	Glass Yarns HDPE
GGM F36MT9PEHDST	36 FO	OS2 9/125	MLT 3x12	Glass Yarns HDPE
GGM F48MT9PEHDST	48 FO	OS2 9/125	MLT 4x12	Glass Yarns HDPE