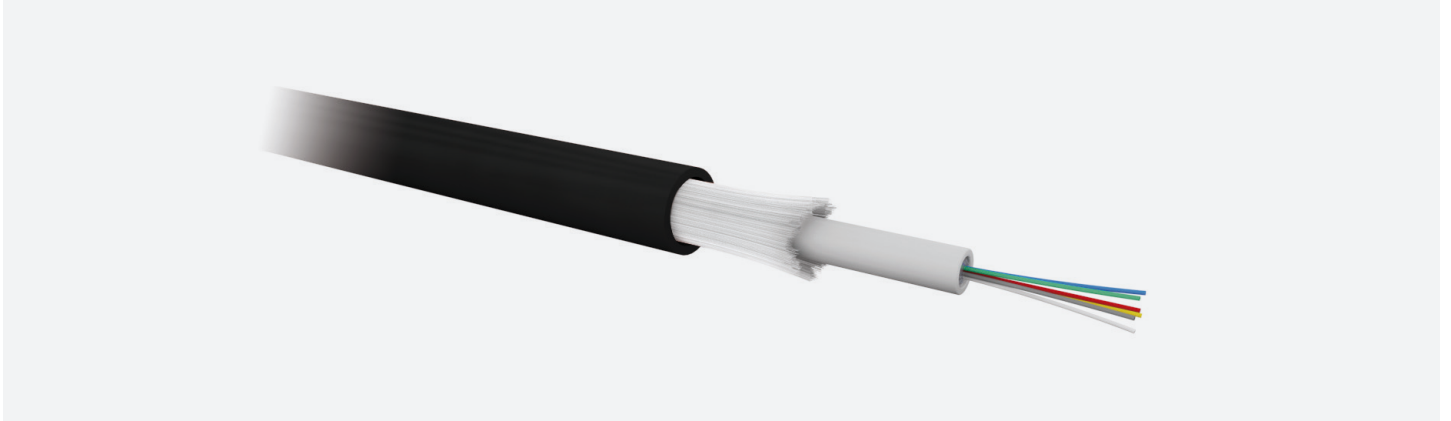




HDPE OUTDOOR CENTRAL LOOSE TUBE CABLE



FIBRE COLOUR CODE

ACCORDING IEC 60304

1 Red	13 Red*
2 Green	14 Green*
3 Blue	15 Blue*
4 Yellow	16 Yellow*
5 White	17 White*
6 Grey	18 Grey*
7 Brown	19 Brown*
8 Purple	20 Purple*
9 Aqua	21 Aqua*
10 Black	22 Natural*
11 Orange	23 Orange*
12 Pink	24 Pink*

* with black rings

FEATURES

- ▶ Multimode 62.5/125 OM1, 50/125 OM2, 50/125 OM3, 50/125 OM4 or singlemode 9/125 OS2 (ITU-T G652D)
- ▶ 4, 6, 8, 12 & 24 fibers
- ▶ Outdoor
- ▶ OM3 & OM4 modes integrates bend optimized fiber technology
- ▶ Water blocking E-glass yarns protection
- ▶ HDPE outer jacket, UV stabilized
- ▶ Compliant with mechanical and environmental performances
- ▶ Black colour
- ▶ IEC 60304 fiber colour code
- ▶ Standard put up length: 2000 m

CABLE PERFORMANCES

STANDARD

Maximum tensile strength (N)	1 200 N	IEC 60794-1-21 / E1A
Max. pulling force during installation (N)	1 500 N/dm	IEC 60794-1-21 / E3
Crush resistance (N)	3 impacts (w/10N.m)	IEC 60794-1-21 / E4
Minimum bending radius (mm)	15 x O.D.	IEC 60794-1-21 / E11A
Dynamic bending radius (mm)	20 x O.D.	IEC 60794-1-21 / E11B
Moisture resistance test	Pass	IEC 60794-1-21 / F5
Temperature (installation)	-30 °C to +60 °C	IEC 60794-1-22 / F1
Temperature (operation)	-20 °C to +70 °C	IEC 60794-1-22 / F1
Temperature (storage)	-40 °C to +70 °C	IEC 60794-1-22 / F1

PHYSICAL PROPERTIES

	4 FIBRES	6 FIBRES	8 FIBRES	12 FIBRES	24 FIBRES
Weight		37 kg/km			51 kg/km
Tube diameter		2.8 mm			3.8 mm
Outer jacket diameter		6.1 mm			7.3 mm
Jacket thickness		1.25 mm			

OPTICAL PROPERTIES	OM1 62.5/125	OM2 50/125	OM3 50/125	OM4 50/125	OS2/G652D 9/125
Bandwith @850nm (MHz.km)	≥ 220	≥ 500	≥ 2000*	≥ 4700*	NA
Bandwith @1300nm (MHz.km)	≥ 600	≥ 500	≥ 500	≥ 500	NA
Typ. attenuation @850nm (dB/km)	2.6 / 3.0	2.3 / 2.4	2.3 / 2.4	2.2 / 2.3	NA
Typ. attenuation @1300nm (dB/km)	0.5 / 1.0	0.5 / 0.6	0.5 / 0.6	0.5 / 0.6	NA
Typ. attenuation @1310nm (dB/km)	NA	NA	NA	NA	0.34 / 0.36
Typ. attenuation @1550nm (dB/km)	NA	NA	NA	NA	0.20 / 0.24
Numerical aperture (μm)	0.275 ± 0.015	0.200 ± 0.015	0.200 ± 0.015	0.200 ± 0.015	NA
Core non-circularity	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %	NA
Mode field diameter (1310/1550nm - μm)	NA	NA	NA	NA	8.7 - 9.5 / 9.8 - 10.8
Cladding diameter (μm)	125 ± 1.0	125 ± 1.0	125 ± 1.0	125 ± 1.0	125 ± 0.7
Cladding non-circularity	≤ 0.7 %	≤ 0.7 %	≤ 0.7 %	≤ 0.7 %	≤ 1 %
Coating diameter (μm)	242 ± 5	242 ± 5	242 ± 5	242 ± 5	235.0 - 250.0
Coating non-circularity	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %	≤ 6 %
Core/cladding concentricity error (μm)	≤ 1.0 μm	≤ 1.0 μm	≤ 1.0 μm	≤ 1.0 μm	≤ 0.6 μm
Cut-off wavelength (nm)	NA	NA	NA	NA	< 1260
Zero dispersion wavelength (nm)	1320 - 1365	1295 - 1340	1295 - 1340	1295 - 1340	1300 - 1324
GIR @850nm	1.496	1.482	1.482	1.482	NA
GIR @1300nm	1.491	1.477	1.477	1.477	NA
GIR @1310nm	NA	NA	NA	NA	1.466
GIR @1550nm	NA	NA	NA	NA	1.467
PMD individual fiber (ps/√km)	NA	NA	NA	NA	0.1
Chromatic dispersion: 1285-1340nm (ps/nm.km)	NA	NA	NA	NA	≤ 3.0
Chromatic dispersion: 1550nm (ps/nm.km)	NA	NA	NA	NA	≤ 18.0

	4 FIBRES	6 FIBRES	8 FIBRES	12 FIBRES	24 FIBRES
OM1	GGM F04B62PEST	GGM F06B62PEST	GGM F08B62PEST	GGM F012B62PEST	GGM F024B62PEST
OM2	GGM F04B50PEST	GGM F06B50PEST	GGM F08B50PEST	GGM F012B50PEST	GGM F024B50PEST
OM3	GGM F04B3PEST	GGM F06B3PEST	GGM F08B3PEST	GGM F012B3PEST	GGM F024B3PEST
OM4	GGM F04B4PEST	GGM F06B4PEST	GGM F08B4PEST	GGM F012B4PEST	GGM F024B4PEST
OS2	GGM F04B9PEST	GGM F06B9PEST	GGM F08B9PEST	GGM F012B9PEST	GGM F024B9PEST



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