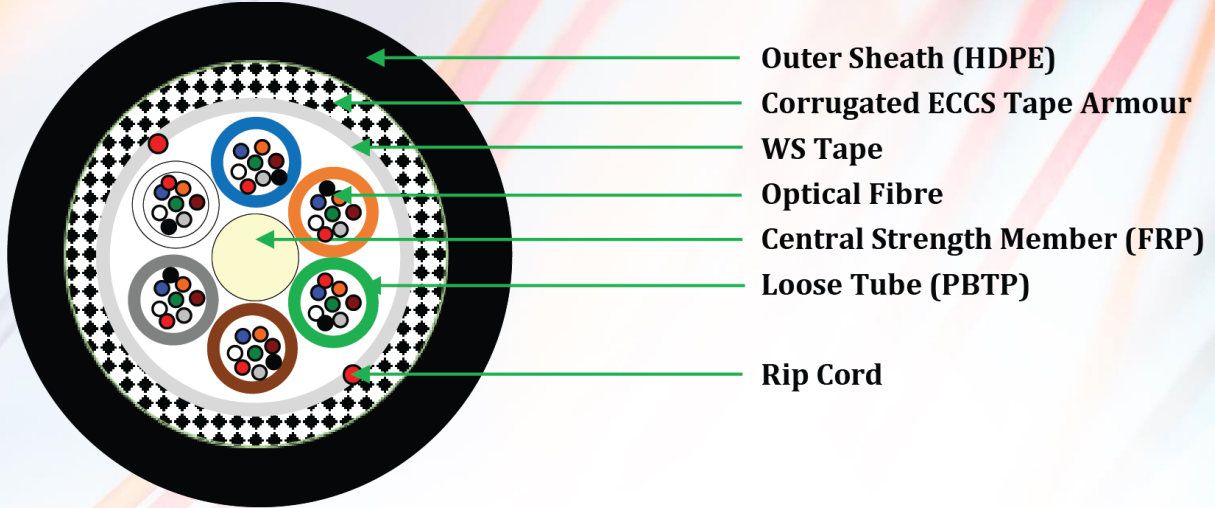




SM MT SINGLE SHEATH ARMoured OPTICAL FIBRE CABLE



PHYSICAL CHARACTERISTICS

FIBRE TYPE (SINGLE MODE G.652D)

Fibre Count	6F	12F	24F	48F	128F
No. of Fibre per tube	2	2	2	2	2
No. of Tubes	3	6	12	24	64
No. of Fillers	3	0	0	0	0
Tube Dia. (mm)	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	1.5 ± 0.1
Cable Dia. (mm)	9.50 ± 0.5	9.50 ± 0.5	9.50 ± 0.5	9.50 ± 0.5	9.50 ± 0.5
Cable Weight (kg/km)	90 ± 10%	90 ± 10%	90 ± 10%	90 ± 10%	90 ± 10%

Central Strength Member (mm)

FRP

Water Blocking Element

WS Tape and WS Yarns

Armouring

Corrugated ECCS Tape

Outer Sheath Material

HDPE-Black

Outer Sheath thickness (mm)

1.50 (nominal)

Ripcord

Yes, 2 below Armor



MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Tensile Strength (N) (Long Term/ Short Term)	2000/ 3000
Crush Resistance (N/100 mm)	2000
Impact Strength (N. m)	25
Torsion	±180°
Repeated Bend (@5kg load)	30 cycles
Bending Diameter	20 x D (Dynamic) 10 x D (Static)
Temperature Range	-10°C to +60°C (Installation) -20°C to +70°C (Operation) -30°C to +70°C (Storage)

TRANSMISSION CHARACTERISTICS (CABLED FIBRE)

Attenuation (dB/km)	@ 1310 nm: ≤ 0.36 @ 1550 nm: ≤ 0.23
Water peak attenuation @ 1383 nm (dB/km)	≤ attn. at 1310 nm
Chromatic Dispersion (ps/nm.km)	@ 1285-1330 nm: ≤ 3.5 @ 1270-1340 nm: ≤ 5.3 @ 1550 nm: ≤ 18.0
PMD @ 1310 and 1550 nm (ps/vkm)	≤ 0.2
Zero Dispersion Slope (ps/nm ² .km)	≤ 0.092
Zero Dispersion wavelength (nm)	1300 to 1324 nm
Cable Cut off Wavelength (nm)	≤ 1260
MFD (µm)	8.8 to 9.8
Clad dia. (µm)	125 ± 1.0
Clad non-circularity (%)	≤ 1
Core-Clad concentricity error (µm)	≤ 0.6
Coating dia. (µm)	245 ± 10
Coating-Cladding concentricity (µm)	≤ 12.0

LOOSE TUBE COLOUR CODE

1	2	3	4	5	6	7	8
Blue	Orange	Green	Brown	Grey	White	Red	Black/Nat



GARANTIR

FIBRE TUBE COLOUR CODE

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

PRINTING PACKING AND LENGTHS

Printing Message: GARANTIR™ <Fibre Type> <Fibre Count> <Type of Cable> <MONTH> <YEAR> <XXXX> METER <Cable ID>

Packing type: Wooden Drums

Length: 2/4 km (As per customer requirement)

Length Tolerance: ± 10%

ORDERING INFORMATION

GT-FOC-OS2-00602-HA	Garantir 06-Core OS2 Single Mode Multi-Tube Optical Fiber Cable Armoured HDPE
GT-FOC-OS2-01202-HA	Garantir 12-Core OS2 Single Mode Multi-Tube Optical Fiber Cable Armoured HDPE
GT-FOC-OS2-02402-HA	Garantir 24-Core OS2 Single Mode Multi-Tube Optical Fiber Cable Armoured HDPE
GT-FOC-OS2-04802-HA	Garantir 48-Core OS2 Single Mode Multi-Tube Optical Fiber Cable Armoured HDPE
GT-FOC-OS2-12802-HA	Garantir 128-Core OS2 Single Mode Multi-Tube Optical Fiber Cable Armoured HDPE

Ver : 1.0

NOTE : Specifications are subject to change without notice. Garantir products referred to in this datasheet are trademarks of Garantir or its subsidiaries. All other trademarks belong to their respective owners.