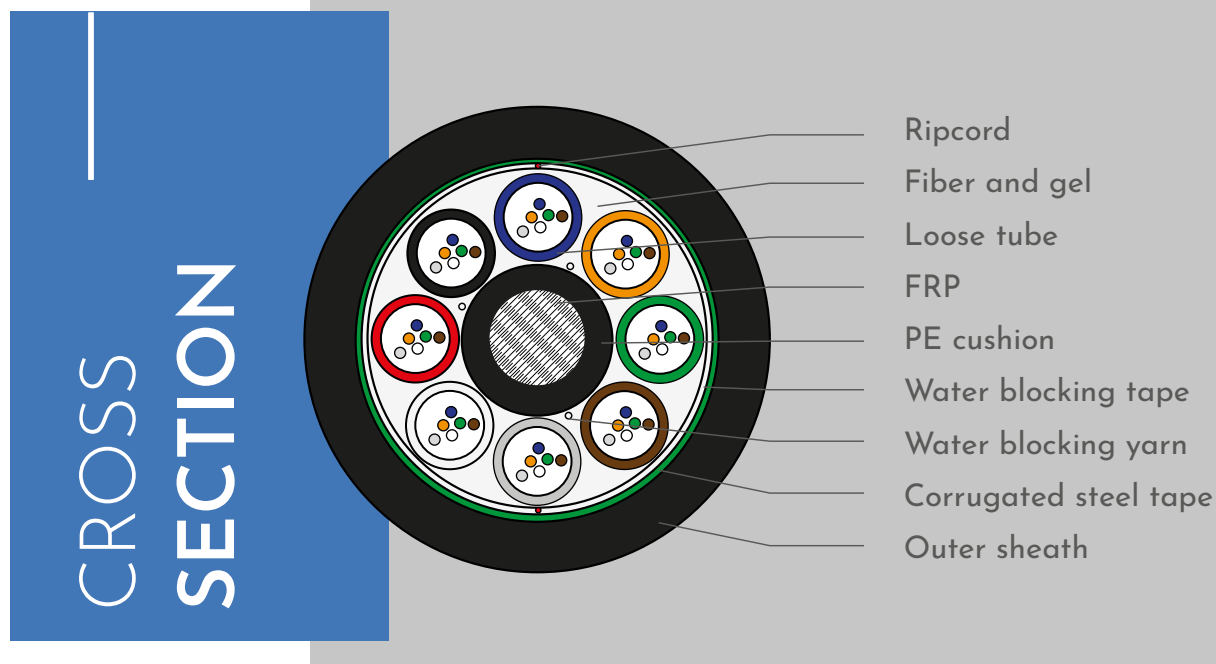




COLOR CODE OF FIBER

Each fiber will be identifiable throughout the length of the cable in accordance with the following color sequence. Fiber color starts from No. 1 Blue.

Fiber and loose tube:

N°	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Grey	White
N°	7	8	9	10	11	12
Color	Red	Black	Yellow	Purple	Pink	Aqua

Loose tube Color Code

N°	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Grey	White
N°	7	8	9	10	11	12
Color	Red	Black	Yellow	Purple	Pink	Aqua



Cable configuration:

Item	Contents	Value				
		6	12	24	48	96
Loose tube	Material	PBT				
	Type of filling compound	Jelly				
	Diameter (mm) (± 0.1)	2.0	2.0	2.0	2.2	2.2
	Number	1	2	4	4	8
Filler	Material	PP				
	Color	Natural				
	Number	5	4	2	2	0
Max. fiber counts per tub	G.652D	6	6	6	12	12
Stranded		Loose tube SZ Stranded aroun Central Member				
Central strength member	Material	FRP				
	Diameter (mm) (± 0.05)	2.0	2.0	2.0	2.2	2.5
	Diameter layer (mm) (± 0.15)	-				3.6
Water Blocking material		Water blocking tape and water blocking yards				
Material						
Ripcords	Number	2				
	Color	Red				
Armor	Material	Corrugated steel tape				
Outer sheath	Material	HDPE				
	Color	Black				
	Espesor (mm) (± 0.15)	2.2				
Cable diameter (mm) (± 0.5)		11.8	11.8	11.8	12.4	13.3
Cable weight (kg/km) (± 20%)		114	114	114	126	155

Note: The outer diameter of the cable in the table is for reference.
The actual OD value after commissioning production shall previal.



MECHANICAL PERFORMANCE OF CABLE

Fiber	Tensile performance (N)	Crush (N/100mm)
	Short term	Short term
6/12/24	2200	4400
48	2500	4400
96	3000	4400

Minimum Allowable Bending Radius

Static: 12.5D
Dynamic: 25D
D is the out diameter of the cable.



Optical properties of the SM fiber is according to ITU-T G.652D standard requirements.

Description	Specification
Mode Field diameter (MFD) @1310 nm	9.1 ± 0.4 [μm]
Mode Field diameter (MFD) @1550 nm	10.4 ± 0.5 [μm]
Cladding diameter	125.0 ± 0.7 [μm]
Core concentricity error	≤0.6 [μm]
Cladding non- circularity	≤ 0.7%
Coating diameter (Before colored)	245 ± 10 [μm]
Coating diameter (Colored)	250 ± 15 [μm]
Coating/cladding concentricity error	≤ 12 [μm]
Cable cutoff wavelength (λ _{cc})	≤1260 [nm]
Point discontinuity	≤0.05 [dB]
Attenuation coefficient:	
λ 1310 nm	≤0.35 [dB/km]
λ 1383 nm	≤0.36 [dB/km]
λ 1550 nm	≤0.20 [dB/km]
λ 1625 nm	≤0.23 [dB/km]
Macro-bend induced attenuation	
100 turns, 30mm radius @1550n/1625m	≤0.05 [dB]
(PMD)	
Max. individual fiber	≤ 0.15 [ps/√km]
PMD_Q	≤ 0.1 [ps/√km]
Zero-dispersion wavelength (λ ₀)	1300~1324 [nm]
Zero-dispersion slope (S ₀)	≤ 0.091 [ps/(nm ² ·km)]
Chromatic dispersion coefficient	
@1288-1339 nm	≤3.5ps/ (nm. km)
@1271-1360 nn	≤5.3ps / (nm. km)
@1550 nm	≤18ps/ (nm. km)
@1625 nm	≤22ps/ (nm. km)
Proof test level	100 [kpsi] (0.69 [Gpa]), 1% de deformación
Coating strip force (peak value)	1.3~8.9 [N]
Fiber curl (Radius)	≥ 4 [m]