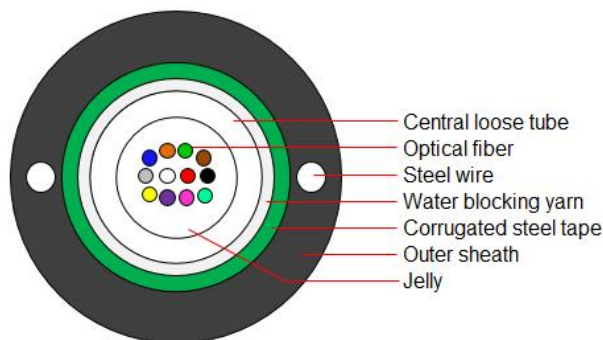


GYXTW

Outdoor optical cable for communication with a central tube filling, metal reinforcing member, steel-polyethylene bonded sheath incorporating parallel steel wires.

Cable structure(only for reference, not to scale)



Cable description

Central tube construction, jelly compound filled, water blocking yarns used to prevent water ingress and flow, corrugated steel tape armored, then PE outer sheath incorporated with two steel wire strength elements.

Fiber & tube color

Fiber color shall be accordance with the scheme as below. And tube color is natural.

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua
No.	13	14	15	16	17	18
Color	Blue*	Orange*	Green*	Brown*	Gray*	White*
No.	19	20	21	22	23	24
Color	Red*	Natural*	Yellow*	Violet*	Pink*	Aqua*

Note: * represents printing a black ring on the optical fiber every 100mm interval.

Structure parameter

Item	Contents	Unit	Value		
Fiber count	Number	/	4/6	8/12	24
Loose tube	Material	/	Natural PBT		
Strength member	Material	/	Phosphatized steel wire		
	Nominal Diameter	mm	0.8mm		

Outer sheath	Material	/	Black PE		
Cable diameter	±5%	mm	7.4	7.4	8.3
Cable weight	±10%	kg/km	56	58	70

Mechanical & Environmental Performance

Item	Contents	Value
Max. tensile load	Short term	1300 N
	Long term	400 N
Max. crush resistance	Short term	1000 N/100mm
	Long term	300 N/100mm
Min. bending radius	Installation	25 x cable diameter
	Operation	12.5 x cable diameter
Temperature range	Operation	-40℃ ~ +60℃
	Installation	-10℃ ~ +60℃
	Storage/transportation	-40℃ ~ +60℃

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: Short term tension - Length of cable: about 50m - Load time: 1min	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.1dB@1550nm after test. - No fiber break and no sheath damage.

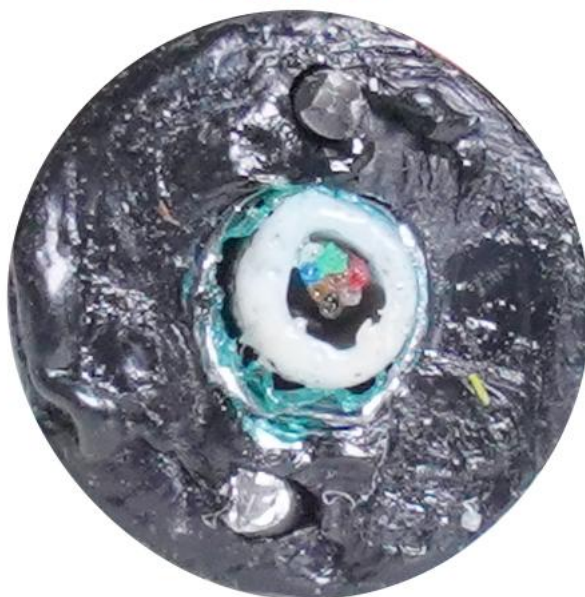
Optical fiber

Item	Contents	Value
G.652D Optical characteristics		
Attenuation	@1310nm	≤0.36dB/km
	@1550nm	≤0.22dB/km
Dispersion	@1288nm~1339nm	≤3.5ps/(nm·km)
	@1550nm	≤18ps/(nm·km)
Zero-Dispersion wavelength		1300nm~1324nm
Zero-Dispersion slope		≤0.092ps/(nm ² ·km)
Mode field diameter (MFD)	@1310nm	9.2±0.4μm
	@1550nm	10.4±0.5μm
Cable cutoff wavelength λ _{cc} (nm)		≤1260nm
Cladding diameter		125±0.7μm

Cladding non-circularity	$\leq 0.7\%$
Core/cladding concentricity error	$\leq 0.5\mu\text{m}$
Fiber diameter with coating (uncolored)	$245\pm 5\mu\text{m}$
Cladding/coating concentricity error	$\leq 12.0\mu\text{m}$

Product Display

8 fibers



GYXTW

For reference only, the actual product shall prevail