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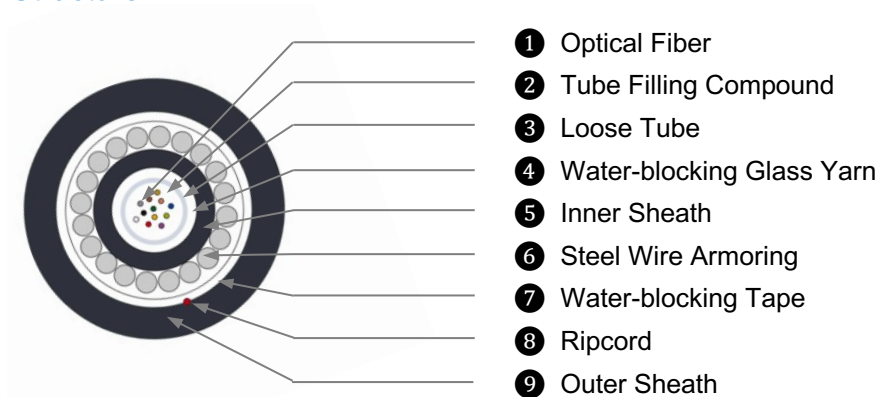
Uni-Tube SWA Armored Fiber Cable

Description

The laying environment conditions of underwater fiber optic cable are much stricter than those of direct buried optical cables, and the techniques and measures for repairing faults are also much more difficult. Therefore, the reliability requirements for underwater optical cables are higher than those of direct buried optical cables.

So underwater fiber optic cable must adopt a steel wire armor, which is also known as SWA. And the sheath must be considered comprehensively according to the hydrogeological conditions of the river.

Structure



Optical Characteristics

Item		Unit	Specification
			G. 652D
Mode field diameter	1310nm	μm	9.2 ± 0.4
	1550nm	μm	10.4 ± 0.8
Cladding diameter		μm	125.0 ± 1
Cladding non-circularity		%	≤ 1.0
Core concentricity error		μm	≤ 0.5
Coating diameter		μm	242 ± 7
Coating/cladding concentricity error		μm	≤ 12
Cable cut-off wavelength		nm	≤ 1260
Attenuation Coefficient	1310nm	dB/km	≤ 0.4
	1550nm	dB/km	≤ 0.3
Proof stress level		kpsi	≥ 100

ITU-T G.652 (Other parameters meet standard ITU-T G.652)



Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	Natural
Non-metal reinforced pieces	Material	Waterblocking glass yarn
Inner jacket	Material	LDPE
	Color	Black
Wire armoured	Material	Hot-dip galvanized steel wire
	Diameter	0.9mm
Outer jacket	Material	LSZH
	Color	Black
Min. bending radius	Static	12.5 times cable diameter
	Dynamic	25 times cable diameter
Repeating bending	Load : 150N; number of cycles:30 No obvious addition attention, no fiber break and no cable damage.	
Tensile performance	Short term	4000N The addition attention≤0.1dB, fiber strain ≤0.15%
Crush	Short term	4000N/100mm the addition attention≤0.1dB.
Torsion	Load: 150N; number of cycles:10; twist angle: ±180° No obvious addition attention, no fiber break, and no cable damage.	

Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	Thickness of Inner jacket (mm)	Thickness of outer jacket (mm)	Cable diameter (mm)	Cable weight (kg/km)
4	Uni-Tube	4	3.0±0.1	1.0±0.1	1.5±0.1	11.3±0.5	227
8	Uni-Tube	8	3.0±0.1	1.0±0.1	1.5±0.1	11.3±0.5	228
12	Uni-Tube	12	3.0±0.1	1.0±0.1	1.5±0.1	11.3±0.5	228
16	Uni-Tube	16	3.0±0.1	1.0±0.1	1.5±0.1	11.3±0.5	228

Environmental Performance

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	-40℃~+70℃
Water penetration	IEC 60794-1-2-F5	Water level: 1m , sample: 3m, After24h, no water ingress.



Packing Drum

Cable type	Drum		
	Height	Width	Inner diameter
GYFXY36	900mm	760mm	400mm

Ordering Information

Model No.	Description	Remark
SWA Fiber Cable	<input type="checkbox"/> Fiber count <input type="checkbox"/> Fiber type <input type="checkbox"/> Sheath material <input type="checkbox"/> Sheath color	Contact our sales or technical dept for more information: Sales: sales@honecable.com Technical: tony@honecable.com