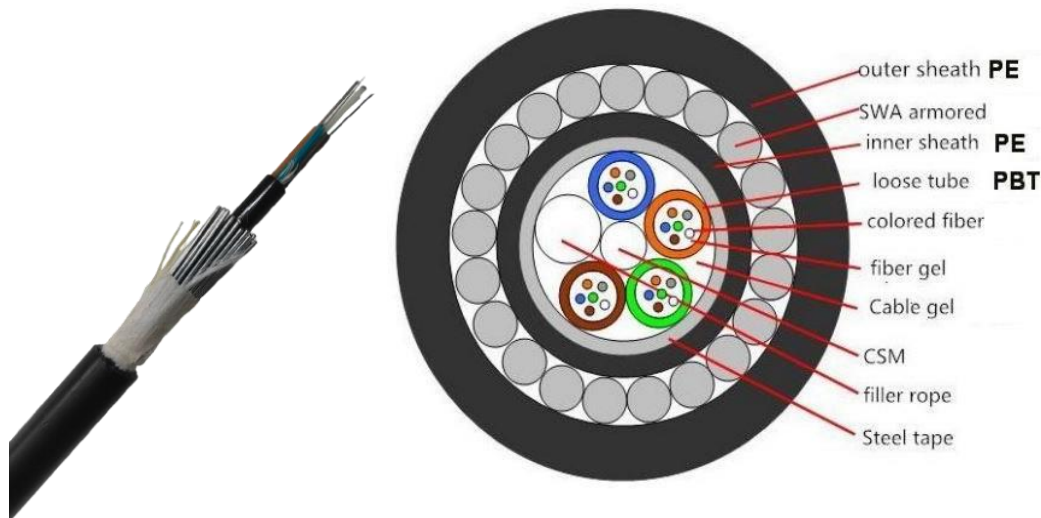


PROPATCH -Fiber Optic Steel Wire Armoured Cable (SWA) External Cable



The fibers, single mode or multi mode, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, located in the center of the core as a metallic central strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The PSP (steel tape) is longitudinally applied over the cable core and covered by PE as inner sheath. It has one circle of steel wires armoured out of the inner sheath and finally covered by PE as outer sheath to make the fiber cable.

Feature:

- ★ Good mechanical and temperature performance
- ★ High strength loose tube that is hydrolysis resistant
- ★ Special tube filling compound ensures a critical protection of fiber
- ★ PE sheath protects cable from ultraviolet radiation
- ★ Rounded steel wires armoured have good performance of crush resistance and anti-rodent

Description:

- ★ Loose tube filling compound and 100% cable core filling
- ★ PSP enhancing moisture-proof
- ★ Suitable for underwater or direct buried.

Cable construction details

Number of Fiber	2-72Core		
Moisture Barrier	Water blocking system		
Central strength member	Material	Steel wire	
	Size	1.5mm	
Loose Tube	Material		PBT
	Diameter		φ1.9-2.0mm
Tube filling	Fiber Gel		

Armoring	Material	Corrugated steel tape
		Steel wires
	Material	PE/LSZH

Inner and Outer Sheath	Diameter	: 1.4±0.2mm , : 1.7±0.2mm
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Fiber Color

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

Cable Mechanical Characteristic

Core	Cable Diameter	Weight
2-72	15.8±0.2mm	430kg/km ±5kg

Fiber Characteristic

Fiber Style		Unit	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
Condition		nm	1310/1550	850/1300	850/1300	8500/1300
Attenuation		dB/KM	≤	≤	≤3.0/1.0	≤3.0/1.0
			0.36/0.23	3.0/1.0	.....	....
Dispersion	1550nm	Ps/(nm*km)	≤18	....	.....	....
	1625nm	Ps/(nm*km)	≤22	....	.....	....
Bandwidth	850nm	MHZ.KM	....	≥400	≥160	
	1300nm	MHZ.KM	....	≥800	≥500	
Zero dispersion wavelength		nm	≥1302, ≤1322	....	.....	≥1295, ≤1320
Zero dispersion slope		nm	≤0.091	....	.....	....
PMD Maximum Individual Fiber			≤0.2	....	.....	≤0.11
PMD Design Link Value		Ps(nm ² *km)	≤0.08	....	.....	....
Fibre cutoff wavelength λ _c		nm	≥1180, ≤1330	....	.....	....
Cable cutoff wavelength λ _{cc}		nm	≤1260	....	.....	....
MFD	1310nm	um	9.2±0.4	....	.....	....
	1550nm	um	10.4±0.8	....	.....	....
Numerical Aperture(NA)		....	....	0.200±0.015	0.275±0.015	0.200±0.015
Step		dB	≤0.05	≤0.1	≤0.1	≤0.1
Irregularities over fiber length and point		dB	≤0.05	≤0.1	≤0.1	≤0.1

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