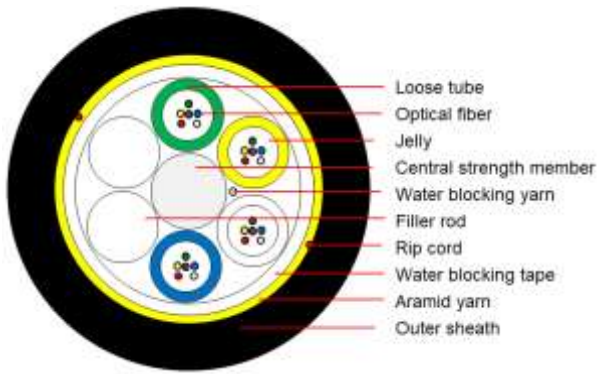


ADSS-Single jacket

CFOA-SM-AS-S-NR-80m

1. Cable cross-section



2. Cable description

Loose tube construction, tubes with jelly filled, elements (tubes and fillers when necessary) and water blocking yarn laid up around non-metallic central strength member, water blocking tape, aramid yarns, two ripcords and PE outer sheath.

3. Fiber & tube color

3.1 Fiber color code starts from No.1 Green:

No.	1	2	3	4	5	6
Color	Green	Yellow	White	Blue	Red	Violet

3.2 Tube color code start from NO.1 Green.

No.	1	2	3	4
Color	Green	Yellow	White	Blue

3.3 Filler color is natural.

4. Structure parameter

Span 80m

Item	Contents	Unit	Value
Fiber count	Number	/	24
Cable structure	/	/	1+6
Fiber No. per tube	Number	/	6
Loose tube	Number	/	4
Central strength member	Material	/	FRP
Cable diameter	±5%	mm	9.9
Cable weight	±10%	kg/km	69

Note: sizes and values without tolerances are nominal values.

5. Mechanical & Environmental Performance

Item	Contents	Value
Max. tensile load	Short term	1.5G
Max. crush resistance	Short term	1G but min. 1000 N/100mm
Min. bending radius	Installation	20 x cable diameter
	Operation	10 x cable diameter
Temperature range	Operation	-20℃ ~ +65℃
	Installation	-10℃ ~ +60℃
	Storage/transportation	-20℃ ~ +65℃

Note: G is the weight of the cable per km.

6. Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Thermal Cycle NBR 13510	- Temperature: -20℃~+65℃ - Time of each step: 48h - Times: 4	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm.
Tensile Strength NBR 13512	- Load: short term tension - Length of cable: 25m×6	- Loss change ≤ 0.1dB@1310±20nm - Loss change ≤ 0.1dB@1550±20nm - Fiber strain ≤ 0.05%.
Crush Test NBR 13507	-Load: short term crush - Load increase rate: 5mm/min - Load time: 2min	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm. - No sheath damage.
Torsion NBR 13513	- Length:0.2m - Angle:±90° - Times:10	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm. - No sheath damage.
Curvature NBR 13508	- Curve radius:12 x OD - Circle:5	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm. - No sheath damage.
Bending NBR 13518	- Curve radius:12 x OD - Times:25 - Load:2kg - Angle:±90°	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm.
Impact NBR 13509	- Height:0.15m - Times:25 - Weight: according to the standard	- No fiber break and no sheath damage.
Filling Component Leakage NBR 9149	- Length:300mm - Sample:3 - Temperature: 65±2℃ - Time:24h	- No outflow or dripping.
Alternated Flexion NBR 13514	- Mandrel:570mm - Times: 50	- Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm.

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7. OPTICAL FIBER

Item	Contents	Value
G.652D Optical characteristics		
Attenuation	@1310nm	$\leq 0.36\text{dB/km}$
	@1550nm	$\leq 0.22\text{dB/km}$
Dispersion	@1288nm~1339nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@1550nm	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$
Zero-Dispersion wavelength		1300nm~1324nm
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$
Mode field diameter (MFD)	@1310nm	$9.2\pm 0.4\mu\text{m}$
	@1550nm	$10.4\pm 0.5\mu\text{m}$
Cable cutoff wavelength $\lambda_{\text{cc}}(\text{nm})$		$\leq 1260\text{nm}$
Macro bending attenuation	@1550nm (100turns; $\Phi 60\text{mm}$)	$\leq 0.05\text{dB}$
Link polarization dispersion (PMD ₀)		$\leq 0.1\text{ps}/\text{km}^{1/2}$

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