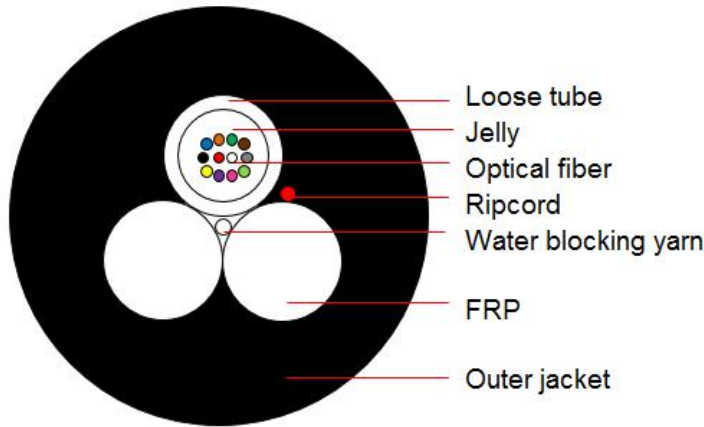


ADSS(0+3)

CFOA-SM-ASU-S NR

1. Cable cross-section (not to scale and only for reference)



Not to scale, color is only for showing, may be not exact same as real product color

2. Cable description

Single loose tube construction, jelly compound filled, water blocking yarns, a ripcord and then PE outer sheath with two non-metallic strength members combined.

3. Fiber & tube color

Fiber color code starts from No.1 Green:

No.	1	2	3	4	5	6
Color	Green	Yellow	White	Blue	Red	Purple
No.	7	8	9	10	11	12
Color	Brown	Pink	Black	Gray	Orange	Aqua

Loose tubes color code.

No.	1
Color	Natural

4. Structure parameter

Span 80m

Item	Contents	Unit	Value
Fiber count	Number	/	12
Loose tube	Number	/	1
Cable diameter	±0.5	mm	7.0
Cable weight	±10%	kg/km	43
Max. span	/	m	80

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Span 120m

Item	Contents	Unit	Value
Fiber count	Number	/	12
Loose tube	Number	/	1
Cable diameter	±0.5	mm	7.7
Cable weight	±10%	kg/km	52
Max. span	/	m	120

Note: sizes and values without tolerances are nominal values.

It's advised to notch the cable before splitting the sheath for better ripping.

5. Mechanical & Environmental Performance

Item	Contents	Value
Max. tensile load	Short term	1.5G for span 80m 2G for span 120m
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°C ~ +65°C
	Installation	-10°C ~ +60°C
	Storage/transportation	-20°C ~ +65°C

Remark: 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°C~+65°C - 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.
Water Penetration NBR 9136	- Height of water: 1m - Sample length: 3m - Time: 24h	- No water leak from the cable core of the opposite end.

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Item	Test Method	Acceptance Condition
Bending NBR 13518	<ul style="list-style-type: none"> - Curve radius:12 x OD - Times:25 - Load:2kg - Angle:±90° 	<ul style="list-style-type: none"> - Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm.
Impact NBR 13509	<ul style="list-style-type: none"> - Height:0.15m - Times:25 - Weight: according to the standard 	<ul style="list-style-type: none"> - No fiber break and no sheath damage.
Filling Component Leakage NBR 9149	<ul style="list-style-type: none"> - Length:300mm - Sample:3 - Temperature: 65±2°C - Time:24h 	<ul style="list-style-type: none"> - No outflow or dripping.
Alternated Flexion NBR 13514	<ul style="list-style-type: none"> - Mandrel:570mm - Times: 50 	<ul style="list-style-type: none"> - Loss change ≤ 0.1dB@1310±20nm. - Loss change ≤ 0.1dB@1550±20nm.

7. 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
Macro bending attenuation	@1550nm (100turns;Φ60mm)	≤0.05dB
Link polarization dispersion (PMD ₀)		≤0.1ps/km ^{1/2}

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