

CFOA-SM-ASU-80-S XX FIBRAS

Dielectric cable

Cable cross-section and dimensions

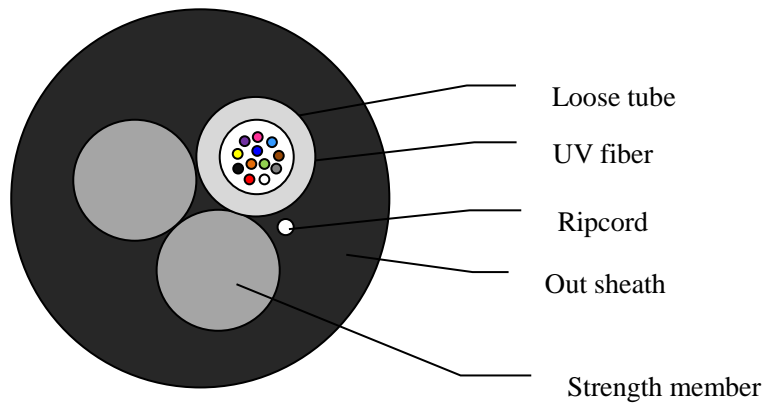


Figure. Cable Cross-Section (A-end)

Item	Material	Description
Outer sheath	HDPE	HDPE
Strength member	FRP	Strength member
Loose tube	PBT	Color with: Natural
Fiber	Silicon-based fiber (G.652D)	UV fiber, color with: green, yellow, white, blue, red, violet, brown, pink, black, grey, orange, aqua

XX= 2, 4, 6, 8, 10, 12 (cable cores)

Cable Cores	Unit	2	4	6	8	10	12
No. of Tubes		1	1	1	1	1	1
No. of Fillers		0	0	0	0	0	0
Fiber Counts in Tube		2	4	6	8	10	12
Cable Diameter	mm	6.6±0.5			6.8±0.5		
Cable Weight	Kg/km	40±10			45±10		
Allowable tensile strength (N)					span=80, 1.5 × P		
Allowable crush resistance (N)					1000N		
Operation temperature					-20 ° C +65 ° C		

1. Fiber Performance

FiberHome G652.D

Characteristics		Acceptance Value
Attenuation	@ 1310nm	$\leq 0.36\text{dB/km}$
	@ 1550nm	$\leq 0.22\text{dB/km}$
Mode Field Diameter	@ 1310nm	$9.3 \pm 0.5\mu\text{m}$
	@ 1550nm	$10.4 \pm 0.8\mu\text{m}$
Dispersion	@ 1285-1330nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@ 1525-1570nm	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$
PMD		$\leq 0.15 \text{ ps}\cdot\text{km}^{1/2}$
Cable cutoff wavelength $\lambda_{cc}(\text{nm})$		$\leq 1270\text{nm}$
Zero-Dispersion wavelength		$1300\text{nm} \sim 1324\text{nm}$
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$
Cladding diameter		$125 \pm 1\mu\text{m}$
Cladding non-circularity		$\leq 0.8\%$
Core/cladding concentricity error		$\leq 0.6\mu\text{m}$
Proof Test		$\geq 0.7\text{GPa}$ (100kpsi)
Dynamic fatigue		≥ 20
Point discontinuity		$\leq 0.05\text{dB}$
Attenuation uniformity		$\leq 0.05\text{dB/km}$