ANATEL
04454-20-04855

1. Cable Description

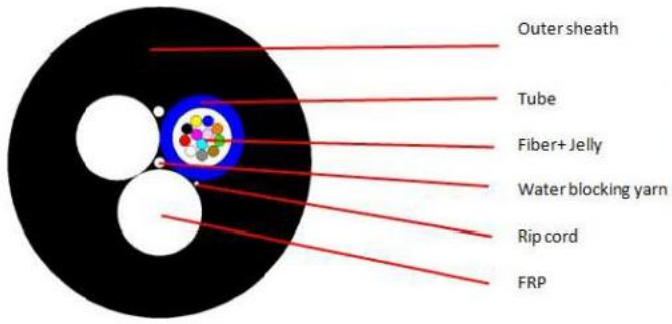
The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound.FRP rods filled . The cable is completed with a polyethylene (PE) sheath.

2.Application

The actual status of overhead power lines ,covers the general requirements of single jacket ADSS dielectric Cable for aerial or duct

3. Characteristics

· FRP Filled element make cable high tension
· Tube filling gel
· Loose tube stranded
· PE sheath outdoor cable



4.Cable construction details

Number of fiber	1~6	
Loose tube	number	1
	material	PBT
	diameter	1.5mm ±0.1mm
Strength member	material	FRP
	diameter	1.50 mm±0.1mm
Overall cable diameter	6.80mm±0.5mm	
Cable weight per km	39.0 kg/km±5kg	

CFOA-SM-ASU-80-RA-1~12FO-NR

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Number of fiber	6~12	
Loose tube	number	1
	material	PBT
	diameter	2.0mm ±0.1mm
Strength member	material	FRP
	diameter	1.50 mm±0.1mm
Overall cable diameter	6.80mm±0.5mm	
Cable weight per km	39.0 kg/km±5kg	

Fiber color

Cable	Color code Brazil	Internacional color code
1	Green	Blue
2	Yellow	Orange
3	White	Greeen
4	Blue	Brown
5	Red	Grey
6	Violet	White
7	Browm	Red
8	Pink	Black
9	Black	Yellow
10	Grey	Violet
11	Orange	Pink
12	Aqua	Aqua

Cable Mechanical characteristic

core	Cable diameter	weight
1~12	6.80mm±0.5mm	39.0 kg/km±5kg
Temperature range	-40+70	
Min Bending Radius(mm)	Long term	10D
Min BendingRadius(mm)	Short term	20D
Min allowable Tensile Strength(N)	Long term	1000
Min allowable Tensile Strength(N)	Short term	2000
Operationtemperature （℃）	-40+70	
Installationtemperature（℃）	-20+60	
Storage temprature（℃）	-40+70	

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Fiber characteristic

Fiber style		Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition		nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation		dB/km	≤ 0.36/0.23	≤ 0.36/0.23	≤ 3.0/1.0	≤3.0/1.0	≤3.0/1.0
Dispresion	1550nm	Ps/(nm*km)	----	≤18	----	----	Dispresion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwith	850nm	MHZ.KM	----	----	≧400	≧160	Bandwith
	1300nm	MHZ.KM	----	----	≧800	≧500	
Zero dispersion wavelength		nm	1300-1324	≧1302, ≤1322	----	----	≧ 1295, ≤1320
Zero dispresion slope		nm	≤0.092	≤0.091	----	----	----

PMD Maximum Individual Fibr			≤0.2	≤0.2	----	----	≤0.11
PMD Design Link Value		Ps(nm2*km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λc		nm	≧ 1180, ≤1330	≧1180,≤ 1330	----	----	----
Cable sutoffwavelength λcc		nm	≤1260	≤1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----	----
	1550nm	um	10.4+/-0.8	10.4+/-0.8	----	----	----
Numerical Aperture(NA)			----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015
Step(mean of bidirectional measurement)		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10

Dicontinuity

Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	≤0.01			
Core dimater	um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentrically error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding conentricity error	um	≤0.6	≤0.6	≤1.5	≤1.5	≤1.5
Curl(radius)	um	≤4	≤4	----	----	----