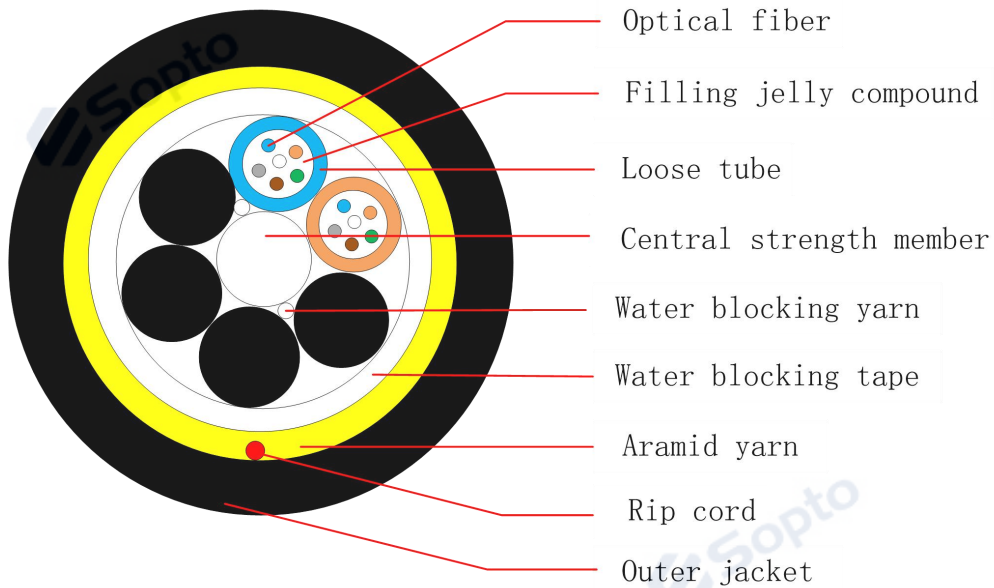


# ADSS

## Cross Section of Cable



## Optical Fiber Type and Properties

Item	Unit	Specification
Fiber Type		G.652
Mode field diameter	1310nm	$\mu\text{m}$ $9.2 \pm 0.4$
	1550nm	$\mu\text{m}$ $10.4 \pm 0.8$
Cladding diameter	$\mu\text{m}$	$125.0 \pm 1$
Cladding non-circularity	%	$\leq 1.0$
Core/cladding concentricity error	$\mu\text{m}$	$\leq 0.5$
Coating diameter	$\mu\text{m}$	$242 \pm 7$
Coating/cladding concentricity error	$\mu\text{m}$	$\leq 12$
Cable cut-off wavelength	nm	$\leq 1260$
Attenuation Coefficient	1310nm	dB/km $\leq 0.36$

	1550nm	dB/km	$\leq 0.22$
Proof stress level		kpsi	$\geq 100$

Note: Other parameters meet standard ITU-T G.652

## Dimensions of Cable Constructions

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter /pad diameter(mm)	Thickness of outer jacket(mm)	Cable diameter (mm)	Cable Weight (kg/km)
6	1+6	6	$2.0 \pm 0.1$	2.2/2.2	$1.7 \pm 0.1$	$10.3 \pm 0.5$	79
12	1+6	6	$2.0 \pm 0.1$	2.2/2.2	$1.7 \pm 0.1$	$10.3 \pm 0.5$	80
24	1+6	6	$2.0 \pm 0.1$	2.2/2.2	$1.7 \pm 0.1$	$10.3 \pm 0.5$	81
48	1+6	12	$2.2 \pm 0.1$	2.4/2.4	$1.7 \pm 0.1$	$10.9 \pm 0.5$	90

## Cable Performance

Item		Parameters		
Loose tube	Material	PBT		
	Color	Full color spectrum		
Filler	Material	PE		
	Color	Black		
CSM	Material	FRP		
Non-metal reinforced pieces	Material	Aramid yarn		
Outer jacket	Material	MDPE		
	Color	Black		
Min. bending radius	Static	10 times cable diameter		
	Dynamic	20 times cable diameter		
Repeating bending	Load: 150N; number of cycles: 30, no obvious addition attention, no fiber break and no cable damage.			
Tensile performance	Core	RTS (N)	MAT (N)	EDS (N)

	6	5600	2500	1400
	12	5600	2500	1400
	24	5600	2500	1400
	48	6000	2700	1500
Crush	Short term	1000N/100mm		
Torsion	Load: 150N; number of cycles:10; twist angle: $\pm 180^\circ$ No obvious addition attention, no fiber break and no cable damage.			
Impact	Impact energy: 450g*1m; radius of hammer head: 12.5mm; number of impact: 5 No obvious addition attention, no fiber break and no cable damage.			

## Working Condition

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	-20°C ~ +60°C
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress.

## Drum

Cable type	Drum			Length(km)
	Height (mm)	Width (mm)	Inner diameter (mm)	
ADSS-6B1	850	760	400	2
ADSS-12B1	850	760	400	2
ADSS-24B1	850	760	400	2
ADSS-48B1	900	760	400	2

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 Serial number: 20171202-1246