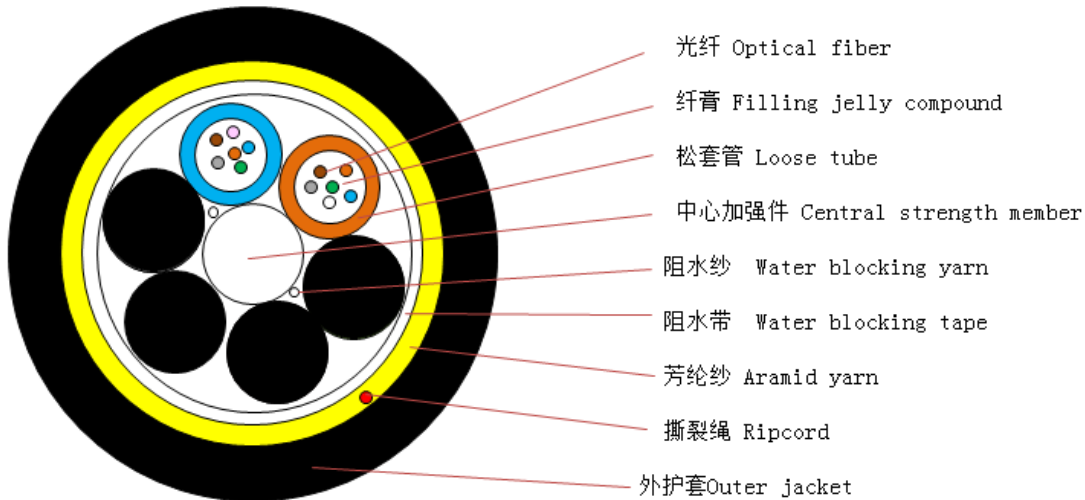




## HYTT- ADSS Optical Fiber 80m Span Datasheet

1. Optical Cable Type: ADSS
2. Cross Section of Cable:



### 3. Optical Fiber Type and Properties

Item	Unit	Specification	
		G. 652D	
Mode field diameter	1310nm	$\mu\text{m}$	$9.5 \pm 0.4$
	1550nm	$\mu\text{m}$	$10.4 \pm 0.8$
Cladding diameter	$\mu\text{m}$	$125.0 \pm 1.0$	
Cladding non-circularity	%	$\leq 1.0$	
Core 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	≤0.22
Proof stress level		kpsi	≥100

ITU-T G.657 (Other parameters meet standard ITU-T G.657)

## 4. 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 weigh (kg/km)
12	1+6	6	2	2.2/2.2	1.7±0.1	10.3 ±0.5	80

## 5. Cable Performance

Item		Parameters
Loose tube	Material	PBT
	Color	All color display
Filler	Material	PE
	Color	Black
CSM	Material	FRP
Non-metal reinforced pieces	Material	Aramid yarn
Outer jacket	Material	HDPE
	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	



Span	80m		
Tensile performance	RTS	MAT	EDS
	4000N	1800N	800N
	The addition attention $\leq 0.1$ dB, fiber strain $\leq 0.15\%$		
Crush	Short term	1000N/100mm 1000N/100mm The addition attention $\leq 0.1$ dB	
	Long term	300N/100mm 300N/100mm No obvious addition attention	
Torsion	Load: 150N; number of cycles:10; twist angle: $\pm 180$ No obvious addition attention, no fiber break and no cable damage.		
Impact	Impact energy: 450g $\times$ 1m; radius of hammer head:12.5mm; number of impact: 5 No obvious addition attention, no fiber break and no cable damage.		
Cable attenuation	$\leq 0.4$ dB/km at 1310nm, $\leq 0.3$ dB/km at 1550nm		

## 6. Environmental Performance

Item	Standard	Parameters
Operation temperature	IEC 60794-1-2 F1	-20°C~+70°C
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress.

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