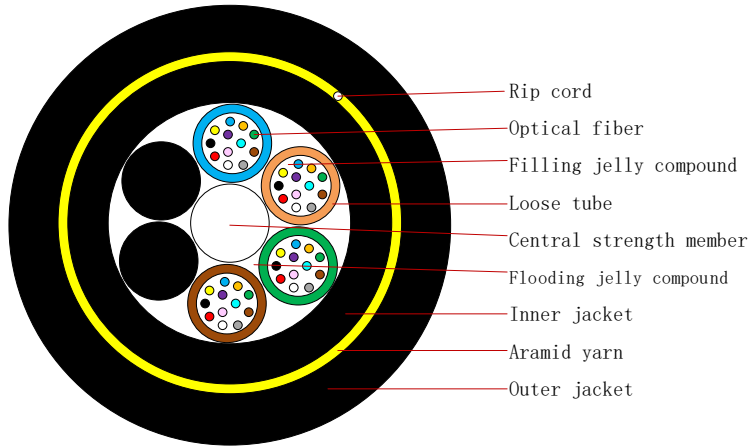




Cable specification

1. (Optical cable type): ADSS

2. (Cross section of cable):



3. (Optical fiber type and properties)

(Item)	Detail	Specification
		G. 652D
Mode field diameter at wavelength=1310nm	Range of nominal values	8.6-9.5 μ m
	Tolerance	$\pm 0.7 \mu$ m
Cladding diameter	Nominal	125.0 μ m
	Tolerance	$\pm 0.7 \mu$ m
Core concentricity error	Maximum	0.8 μ m
Cladding non-circularity	Maximum	1.0%
Cable cut-off wavelength	λ_{cc} , Maximum	1260
Macrobend loss	Mendrel Diameter	50 mm
	Number of turns	100
	Maximum at 1310 nm and 1550 nm	0.03 dB
Proof stress	Minimum	0.69 Gpa
Chromatic dispersion coefficient	Maximum at 1310nm	≤ 2.0 ps/nm.km
	Maximum at 1550	≤ 18.0 ps/nm.km at 1550 nm
Zero Dispersion Wavelength	λ_{0min}	1300 nm
	λ_{0max}	1324 nm
Zero Dispersion Slope	S_{0max}	0.092 ps/nm ² x km
Attenuation coefficient	Maximum at 1310 nm	0.35 dB/km
	Maximum at 1550 nm	0.21 dB/km
PMD coefficient, *complies with IEC 60794-3:2001, section 5.5, Method 1 (Sep,2001)	M	20 cables
	Q	0.01%
	Maximum PMD _Q	0.2 ps/vkm



4. (Dimensions of cable constructions)

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter /pad diameter (mm)	Nominal thickness of Inner jacket (mm)	Nominal thickness of outer jacket (mm)	Cable diameter(mm)	Cable weigh (kg/km)
48	1+6	12	2.5±0.1	2.8/2.8	0.9	1.7	14.2±0.5	165

5. (Cable performance)

(Item)		(Parameters)		
Fiber	Color	Full color spectrum (Natural color instead of white)		
Loose tube	Material	PBT		
	Color	Full color spectrum		
Filler	Material	PE		
	Color	Black		
CSM	Material	FRP		
Inner jacket	Material	MDPE		
	Color	Black		
Non-metal reinforced pieces	Material	Aramid yarn		
Outer jacket	Material	AT-25KV		
	Color	Black		
Min. bending radius	Static	12.5 times cable diameter		
	Dynamic	25 times cable diameter		
Tensile performance	Core	RTS (N)	MAT (N)	EDS (N)
	48	25700	11600	6400
Crush	Short term	3000N/100mm		
Span(m)	750			
Sag(m)	15			

6. (Environmental performance)

(Item)	(Standard)	(Parameters)
Operation temperature	IEC 60794-1-2 F1	-40°C ~+70°C
Water penetration	IEC 60794-1-2-F5	Water level: 1m ,sample: 3m, After 24h, no water ingress at the end of the cable core.





TESTS OF OUTDOOR CABLE			
1	Tensile Test	IEC-60794-1-E1	<ul style="list-style-type: none"> - Max. allowable pulling force: installation tensile; sample length: no less than 50 metres, time: 10 minutes; - Fiber strain at max. load : max. 0.15% - No damage to the outer jacker and inner elements. - Reversible
2	Crush test	IEC-60794-1-E3	<ul style="list-style-type: none"> - Load: short time crush strength, time: 5 minutes, length: 100 mm, number of tests: 3; - No damage to the outer jacket and inner elements. - Reversible
3	Impact test	IEC-60794-1-E4	<ul style="list-style-type: none"> - Impact energy: 10J, impact points:3 - Number of impacts: 1 - No breakage of the optical fiber. - No splits or cracks in the outer jacket. - Attenuation increase $\leq 0.1\text{dB}$, reversible.
4	Repeated bending test	IEC-60794-1-E6	<ul style="list-style-type: none"> - 1m cable length, bending radius: 20 times cable's diameter, 25 cycles, duration of cycle: 2s. - No damage to the outer jacket and inner elements. - Reversible.
5	Torsion test	IEC-60794-1-E7	<ul style="list-style-type: none"> - 1m cable length, ± 180 degrees, 5 cycles; - No damage to the outer jacket. - Attenuation increase $\leq 0.1\text{dB}$, reversible.
6	Bending test	IEC-60794-1-E11	<ul style="list-style-type: none"> - Diameter of mandrel: $20 \times D$, number of turns/helix: 4 number of cycles:3, - No damage to the outer jacket and inner elements (20°C). - Reversible.
7	Temperature cycling test	IEC-60794-1-F1	<ul style="list-style-type: none"> - Temperature step: $+20^\circ\text{C} \rightarrow -40^\circ\text{C} \rightarrow +70^\circ\text{C} \rightarrow -40^\circ\text{C} \rightarrow +70^\circ\text{C} \rightarrow +20^\circ\text{C}$, - Time per each step: 12 hrs, - Number of cycles: 2 cycles - There shall be no change in attenuation variation for reference value (the attenuation to be measured before test at $+20 \pm 3^\circ\text{C}$ – reversible.
8	Water penetration test	IEC-60794-1-F5	<ul style="list-style-type: none"> - Water height: 1m, sample length: 3m, duration of test: 24 hrs. - No water leakage at the end of the cable core.
			<ul style="list-style-type: none"> - Three 0.3m samples suspended vertically in a



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9	Drip test	IEC-60794-1-E14	climate chamber, raised temperature to +70°C. No filling compound shall drip from tubes after - 24hr.
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8.(Drum)

(Cable type)	(Drum)				
	Height (mm)	Width (mm)	Inner diameter (mm)	Length (km)	Drum type
ADSS	1450	750	500	4	Iron wood drum
ADSS	1500	1000	600	5	Iron wood drum



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