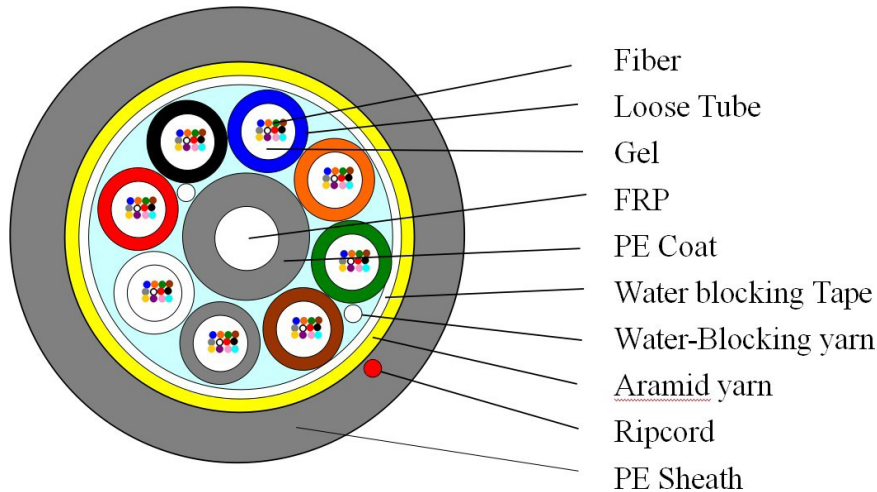


ADSS SPECIFICATION

100 M SPAN

1. CABLE CONSTRUCTION



2. TECHNICAL SPECIFICATION

Fiber count	12	24	48	96	144
OD of Loose tube(mm)	2.0±0.1	2.0±0.1	2.0±0.1	2.2±0.1	2.2±0.1
Max fiber count/tube	6	6	8	12	12
Core unit	6	6	6	8	12
NO. of Tube	2	4	6	8	12
NO. of Filler	4	2	0	0	0
FRP/Coat(mm)	2.1	2.1	2.1	3.0/3.7	3.0/6.6
Water blocking material	Water blocking yarn and tape				
Reinforced materials	Aramid yarn				
PE sheath Thickness(mm)	1.8				
OD of cable (mm)	10.3±0.4	10.3±0.4	10.3±0.4	12.3±0.4	15.2±0.4
Net weight (kg/km)	92	90	89	127	188

3. OPTICAL FIBER

Temperature Range

Operating temperature	-40c~+60c
Store/Transport temperature	-50c~+70c
Installation temperature	-20c~+60c

Items	UNITS	SPECIFICATION
Fiber type	-	G652D
Attenuation	dB/km	≤ 0.36 at 1310nm ≤ 0.22 at 1550nm
Chromatic Dispersion	ps/nm.km	≤ 3.5 at 1310nm ≤ 18 at 1550nm ≤ 22 at 1625nm
Zero Dispersion Slope	ps/nm ² .km	≤ 0.092
Zero Dispersion Wavelength	nm	1300 ~ 1324
PMD (M=20, Q=0.01%)	ps/vkm	≤ 0.2
Cut-off Wavelength (lcc)	nm	≤ 1260
Attenuation vs. Bending (60mm x100turns)	dB	≤ 0.1 at 1625nm
Mode Field Diameter	μm	9.2 ± 0.4 at 1310nm
Core-Clad Concentricity	μm	≤ 0.5
Cladding Diameter	μm	125±1
Cladding Non-circularity	%	≤ 0.8
Coating Diameter	μm	245±5
Proof Test	Gpa	≥ 0.69

ADSS Specification (ADSS 100M)

4. MECHANICAL AND ENVIRONMENTAL PERFORMANCE OF THE CABLE

NO.	ITEMS	TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 - Long-tensile load: 1000N - Short-tensile load: 2000N - Cable length: ≥50m	Attenuation increment@1550nm: ≤0.1dB No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 - Long load: 300 N/100mm - Short load: 1000 N/100mm Load time: 1 minutes	Attenuation increment@1550nm: ≤0.1dB No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 - Impact height: 1M - Impact weigh : 450g - Impact point: ≥5 - Impact frequency: ≥3/point	Attenuation increment@1550nm:≤0.1dB No jacket cracking and fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 - Mandrel diameter: 20D (D = cable diameter) - Subject weight: 15kg - Bending frequency: 30 times - Bending speed: 2s/time	Attenuation increment@1550nm: ≤0.1dB No jacket cracking and fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 - Length: 1m - Subject weight:25kg - Angle: ±180 degree - Frequency: ≥10/point	Attenuation increment@1550nm: ≤0.1dB No jacket cracking and fiber breakage
6	Water Penetration Test	#Test method:IEC 60794-1-F5B - Height of pressure head: 1m - Length of specimen: 3m - Test time: 24 hours	No leakage through the open cable end
7	Temperature Cycling Test	#Test method:IEC 60794-1-F1 - Temperature steps: +20°C - 40°C+70°C +20°C - Testing Time: 24 hours/step - Cycle index : 2	Attenuation increment@1550nm: ≤0.1dB No jacket cracking and fiber breakage
8	Drop Performance	#Test method:IEC 60794-1-E14 - Testing length: 30cm - Temperature range: 70±2°C - Testing time: 24 hours	No filling compound drop out