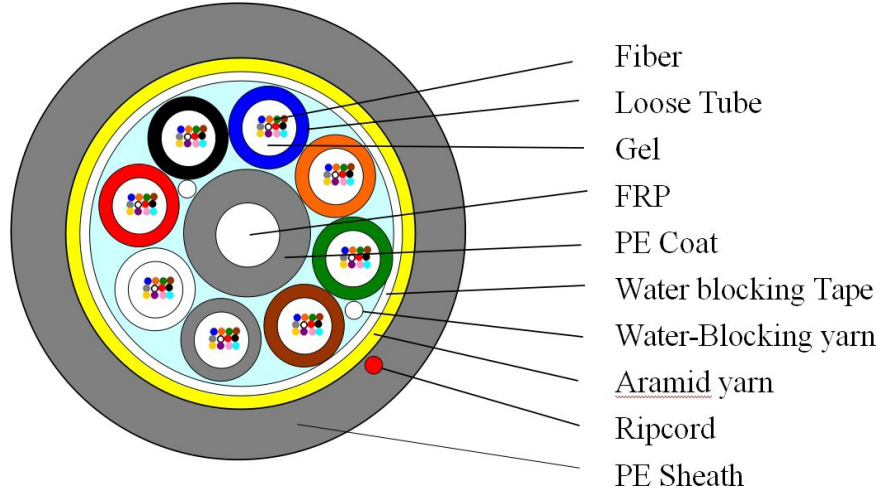


# ADSS Specification

## ( ADSS 80M 8F SPAN )

### 1. CABLE CONSTRUCTION



### 2. TECHNICAL SPECIFICATION

Fiber count	8
OD of Loose tube (mm)	1.8±0.1
Max fiber count/tube	4
Core unit	5
NO. of Tube	2
NO. of Filler	3
FRP/Coat (mm)	1.4
Water blocking material	Water blocking yarn and tape
Reinforced materials	Aramid yarn
PE sheath Thickness (mm)	1.6
OD of cable (mm)	8.7±0.4
Net weight (kg/km)	60

### 3 . OPTICAL FIBER

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 <sup>2</sup> .km	≤ 0.092
Zero Dispersion Wavelength	nm	1300 ~ 1324
PMD (M=20, Q=0.01%)	ps/√km	≤ 0.2
Cut-off Wavelength (lcc)	nm	≤ 1260
Attenuation vs. Bending (60mm x100turns)	dB	≤ 0.1 at 1625nm
Mode Field Diameter	mm	9.2 ± 0.4 at 1310nm
Core-Clad Concentricity	mm	≤ 0.5
Cladding Diameter	mm	125±1
Cladding Non-circularity	%	≤ 0.8
Coating Diameter	mm	245±5
Proof Test	Gpa	≥ 0.69

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#### 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: 700N - Short-tensile load: 1500N - 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