

ASU Fiber Cable Mini ADSS 6 Core

Variants

8mm

Details

6 Core ASU Outdoor Optical Fiber Cable

Fiber and Loose Tube Color Code

No.	Color	No.	Color
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Grey	11	Pink
6	Natural	12	Aqua

ASU Structure and Specification Details

Parameter	Specification
No. of Fibers	6
Fiber Type	G.652D
Span	100M / 150M

Strength Member	FRP, Diameter: 2.3mm x 2
Loose Tube	PBT, Diameter: 2.1mm
Water Blocking Layer	Filling Compound
Aramid Yarn	14 x 1670 Dtex
Outer Sheath	PE, Black
Cable Diameter	9.0mm (±0.2mm)
Attenuation Coefficient @1310nm	? 0.35 dB/km
Attenuation Coefficient @1550nm	? 0.21 dB/km
Ice Thickness	10mm
Wind Speed	20 m/s
Crush Resistance (Short / Long)	?1000 / ?300 N/100mm
Min. Bending Radius (No Tension / Max Tension)	10x / 20x Cable Diameter
Temperature Range (Installation)	-20°C to 60°C
Temperature Range (Transport & Storage)	-40°C to 70°C

Note: Mechanical sizes are nominal values.

Main Technical Specification of Optical Fiber (G.652D)

Category	Description	Before Cable	After Cable
Attenuation	@1310nm	?0.35 dB/km	?0.36 dB/km
Attenuation	@1383nm	?0.35 dB/km	?0.36 dB/km
Attenuation	@1550nm	?0.20 dB/km	?0.22 dB/km

Attenuation	@1625nm	?0.24 dB/km	?0.25 dB/km
Attenuation Discontinuity	-	?0.05 dB	
Attenuation vs. Wavelength	@1285–1330nm / @1525–1575nm	?0.05 dB/km	
Zero Dispersion Wavelength	-	1300–1324 nm	
Zero Dispersion Slope	-	?0.092 ps/(nm ² ·km)	
Dispersion	@1310nm / @1550nm	?3.5 / ?18 ps/nm·km	
PMD	Polarization Mode Dispersion	?0.2 ps/?km	
Cutoff Wavelength	?cc	?1260 nm	
Effective Group Index	@1310nm / @1550nm	1.4675 / 1.4681	
Macro Bend Loss (30mm radius, 100 turns)	@1625nm	?0.1 dB	

Geometrical Specifications

Parameter	Value
Mode Field Diameter @1310nm	9.2 ± 0.6 ?m
Mode Field Diameter @1550nm	10.4 ± 0.8 ?m
Cladding Diameter	125 ± 1 ?m
Cladding Non-Circularity	?1.0%

Coating Diameter	245 ± 7 ?m
Coating/Cladding Concentricity Error	?8 ?m
Core/Cladding Concentricity Error	?0.8 ?m

Mechanical Specifications

Parameter	Value
Proof Test Level	?1.0%
Fiber Curl Radius	?4.0 m
Peak Coating Strip Force	1.3 – 8.9 N

Packing and Marking

Item	Description
Standard Packing Length	5km per wooden drum
Packing Length Option	As per customer requirement
Drum Marking	As per customer requirement / standard drum marking