

ASU Fiber Cable Mini ADSS 12 Core

Variants

9mm 100 SPAN 9mm 150 SPAN 8mm 100SPAN

Details

12 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	12
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