

ASU Fiber Cable Mini ADSS 24 Core

Variants

9mm 100 SPAN

Details

ASU Outdoor Optical Fiber Cable 24 Core

1.3 Fiber and Loose Tube Color Code

No.	Color	No.
1	Blue	7
2	Orange	8
3	Green	9
4	Brown	10
5	Grey	11
6	Natural	12

2. Cable Details

2.1 ASU Structure and Specification Details

Parameter	Specification
No. of Fibers	24
Fiber Type	G.652D
Span	100M /150 M
Strength Member	FRP, Diameter: 2.3mm
Loose Tube	PBT, Diameter: 2.1mm
Water Blocking Layer	Filling Compound
Aramid Yarn	14 × 1670 Dtex

Parameter	Specification
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)	10× / 20× 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.

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

Category	Description	Before Cable
Attenuation	@1310nm	≤0.35 dB/km
Attenuation	@1383nm	≤0.35 dB/km
Attenuation	@1550nm	≤0.20 dB/km
Attenuation	@1625nm	≤0.24 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	λ _{cc}	≥1260 nm
Effective Group Index	@1310nm / @1550nm	1.4675 / 1.4681

Category	Description	Before Cable
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

3. Packing and Marking

Standard Packing Length	5km per wooden drum
Packing Length Option	Packing length as your r
Drum Marking	As per customer require