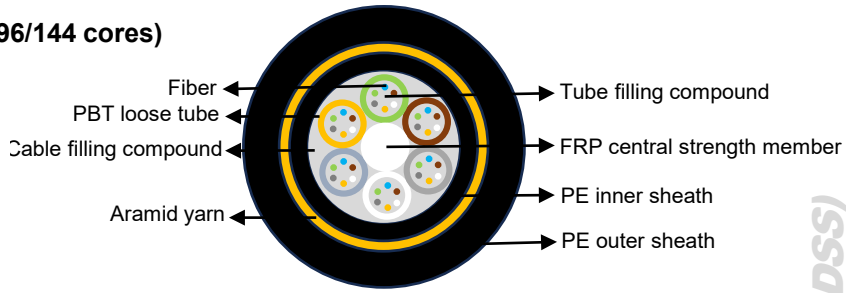
All Dielectric Self-Supporting Aerial Cable (ADSS)

Model No.:

- **ASKA-ADSS-* (fiber: 12/24/48/72/96/144 cores)**

Double Sheath: inner/outer sheath



Temperature Range

- Transport/Storage temp. -30°C~ +65 °C
- Installation Temp.: -20°C~ +50 °C
- Operation Temp.: -40°C~ +70 °C

Fiber: G.652, G.655, 50/125, 62.5/125

Cable Structural Characteristics

- Sheath: Anti-tracking (AT) material or Polyethylene(PE)
- Fiber count: 12/24/48/72/96/144 fiber
- Loose tube: colored fiber in PBT loose tube, filled with fiber compound
- Central strength member: Non-metallic strength member FRP(Fiber Reinforce Plastic Rod)
- Waterproof layer: Cable core filled with cable compound ,water blocking tape, water blocking yarns
- High-strength aramid yarn: Offers very high tensile strength, small diameter and light weight to fit different climate conditions and laying spans

Technical Data

Attenuation	G652	≤0.36dB/km @1310nm	≤0.22dB/km @1550nm
	G655	≤0.40dB/km @1310nm	≤0.23dB/km @1550nm
	50/125	≤3.3dB/km @850nm	≤1.2dB/km @1300nm
	62.5/125	≤3.5dB/km @850nm	≤1.2dB/km @1300nm

Sheath Minimum Thickness	Outer sheath	1.7mm
	Inner sheath	0.8mm
Cable weight (kg/km)	80-180	
Max Allowable working Tension	2600N	
Short-term Crush Resistance	2200N/100mm	
Min. bending radius(mm) D: cable diameter	Static	10D
	Dynamic	20D
Representative span(m)	100-1000	
Young's modulus(Gpa) full cable cross-section	8-20 depending on span , load, etc	

Remark: all sizes and performance values can be specified by customer

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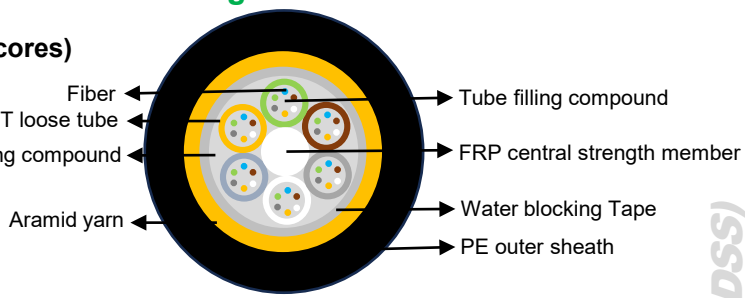
www.askscom.com

All Dielectric Self-Supporting Aerial Cable (ADSS)

Model No.:

- **ASKA-ADSS-*S (fiber: 12/24/48/72/96/144cores)**

Single Sheath



Temperature Range

- Transport/Storage temp. -30°C~ +65 °C
- Installation Temp.: -20°C~ +50 °C
- Operation Temp.: -40°C~ +70 °C

Fiber: G.652, G.655, 50/125, 62.5/125

Cable Structural Characteristics

- Sheath: Anti-tracking (AT) material or Polyethylene(PE)
- Fiber count: 12/24/48/72/96/144 fiber
- Loose tube: colored fiber in PBT loose tube, filled with fiber compound
- Central strength member: Non-metallic strength member FRP(Fiber Reinforce Plastic Rod)
- Waterproof layer: Cable core filled with cable compound or water blocking tape, water blocking yarns
- High-strength aramid yarn: Offers very high tensile strength, small diameter and light weight to fit different climate conditions and laying spans

Technical Data

Attenuation	G652	≤0.36dB/km @1310nm	≤0.22dB/km @1550nm
	G655	≤0.40dB/km @1310nm	≤0.23dB/km @1550nm
	50/125	≤3.3dB/km @850nm	≤1.2dB/km @1300nm
	62.5/125	≤3.5dB/km @850nm	≤1.2dB/km @1300nm

Sheath Minimum Thickness (Outer Sheath)	1.5mm	
Cable weight (kg/km)	80-180	
Max Allowable working Tension	2600N	
Short-term Crush Resistance	1000N/100mm	
Min. bending radius(mm) D: cable diameter	Static	10D
	Dynamic	20D
Representative span(m)	100-1000	
Young's modulus(Gpa) full cable cross-section	8-20 depending on span , load, etc	

Remark: all sizes and performance values can be specified by customer

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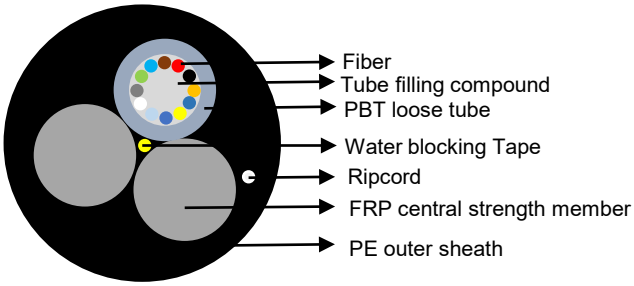
Mini ADSS (ASU)

Model No.:

- **ASKA-ASU-***
- **Fiber : 4/6/8/12/24**



Temperature Range

- ❖ Transport/Storage temp. -30°C~ +65 °C
- ❖ Installation Temp.: -20°C~ +50 °C
- ❖ Operation Temp.: -40°C~ +70 °C

Fiber: G.652, G.655, 50/125, 62.5/125

Cable Structural Characteristics

- ❖ Fiber type: 2-24 fibers
- ❖ Uni-loose tube filling compound
- ❖ Two fiber reinforced plastic (FRP)
- ❖ Black PE jacket

Technical Data

Attenuation	G652	≤0.36dB/km @1310nm	≤0.22dB/km @1550nm
	G655	≤0.40dB/km @1310nm	≤0.23dB/km @1550nm
	50/125	≤3.3dB/km @850nm	≤1.2dB/km @1300nm
	62.5/125	≤3.5dB/km @850nm	≤1.2dB/km @1300nm

Cable weight (kg/km)	40-65	
Max Allowable working Tension	500N/1000N	
Long/Short-term Crush Resistance	300N/1000mm	
Min. bending radius(mm) D: cable dia	Static	10D
	Dynamic	20D
Representative span(m)	80/100/120	

Remark: all sizes and performance values can be specified by customer

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Fiber G.652D

G.652D fiber characteristics (ITU-G.652)

Category	Description		Specifications
Optical Specifications	Attenuation	@1310nm	≤0.35dB/km
		@1383nm	≤0.30dB/km
		@1490nm	≤0.24dB/km
		@1550	≤0.20dB/km
		@1625	≤0.23dB/km
	Attenuation Non-uniformity	@1310nm,1550nm	≤0.05dB
	Point Discontinuity	@1310nm,1550nm	≤0.05dB
	Attenuation vs Wavelength	@1285nm-1330nm	≤0.03dB/km
		@1525nm-1575nm	≤0.02dB/km
	Zero Dispersion Wavelength		1310nm-1324nm
	Zero Dispersion Slope		≤0.092ps/(nm2 · km)
	Dispersion	@1550nm	≤18ps/(nm · km)
		@1625nm	≤ 22ps/(nm · km)
	PMD Link Design Value (m=20 Q=0.01%)		≤0.06ps√km
	Maximum Individual Fiber		≤0.1ps√km
	Cable Cut-off wavelength(λ cc)		≤1260nm
	Macro Bending Loss (1turn; Φ32mm)	@1550	≤0.30dB
	Macro Bending Loss (100turns; Φ50mm)	@1310nm	≤0.30dB
		@1550nm	≤0.30dB
	Macro Bending Loss (100turns; Φ60mm)	@1625nm	≤0.30dB
	Mode Field Diameter	@1310nm	9.2 ± 0.4μm
		@1550nm	10.4 ± 0.5μm
Dimensional Specifications	Fiber Curl Radius		≥4.0m
	Cladding Diameter		125 ± 0.7μm
	Core / Clad Concentricity		≤0.5μm
	Cladding Non-Circularity		≤0.7%
	Coating Diameter		242 ± 5μm
	Coating / Cladding Concentricity		≤12μm
Mechanical Specifications	Proof Test		≥100kspi(0.7GPa)
	Fatigue Resistance Parameter (Nd)		≥20

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