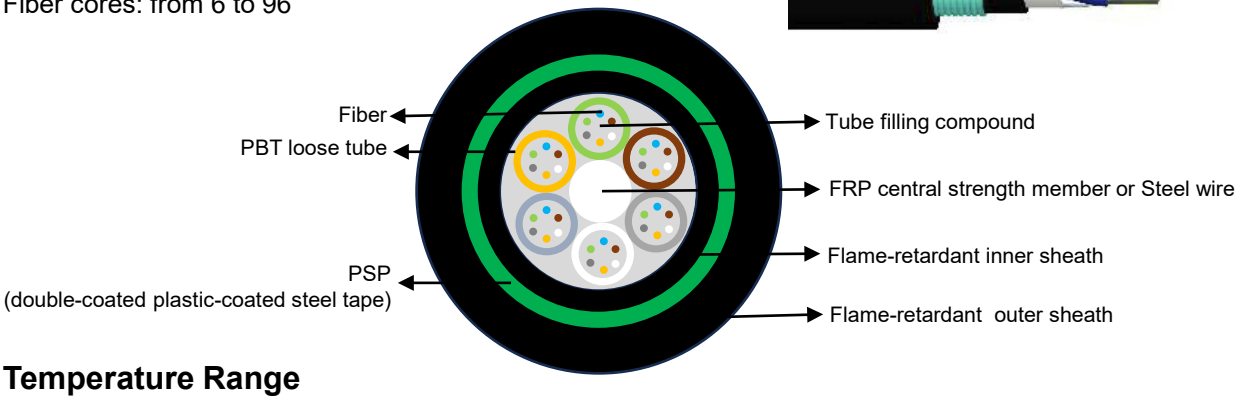
Fire Resistant Optical Cable

Model No.: ASKA-FROC-*

Fiber cores: from 6 to 96



Temperature Range

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

Cable Structural Characteristics

- Sheath: Flame-retardant sheath
- Fiber count: from 6 to 96 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) or Steel wire
- Waterproof layer: Cable core filled with cable compound (optional)
- High-strength PSP: Offers very high tensile strength, small diameter and light weight, enhance moisture-proof
- Non-metal design can prevent the cable from radio interference and magnetic wave interference

Armored cable

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

Max Allowable working Tension	1000N/3000N	
Short-term Crush Resistance	400N/100mm ,1000N /100mm	
Min. bending radius(mm) D: cable diameter	Static	10D
	Dynamic	20D

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

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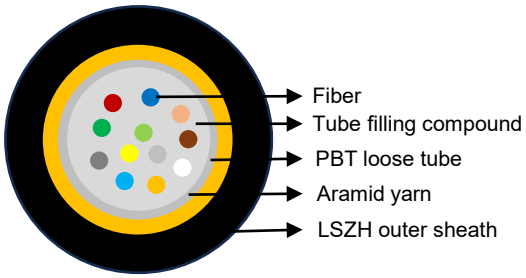
Access Building Cable

Model No.: ASKA-ABC-*

Fiber: 24/6/8/12/24



Description

- Access building cable use 250μm fiber and they are positioned in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is covered with a layer of aramid yarn as strength member. The cable is completed with a LSZH (low smoke zero halogen) and flame-retardant material jacket.

Cable Structural Characteristics

- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Crush resistance and flexibility
- Aramid yarn strength member ensure tensile strength
- Small diameter, light weight and friendly installation
- Single Model fiber

Technical Data

Attenuation	G. 652D	≤0.36dB/km @1310nm	≤0.22dB/km @1550nm
	G.657 A1, G657A2	≤0.36dB/km @1310nm	≤0.22dB/km @1550nm

Max Allowable working Tension (long/short term)	200/660N	
Short-term Crush Resistance (long/short term)	300N /100mm, 1000N/100mm	
Min. bending radius(mm) D: cable diameter	Static	10D
	Dynamic	20D

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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