SPECIALTY FIBER ALUMINUM COATED FIBERS

SINGLE MODE

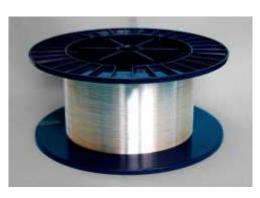


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Aluminum-coated single mode optical fibers have all the benefits of optical fibers include increased mechanical strength and greater fatigue resistance compared to non-hermetic and polymer-clad fibers (PCS). Their transmittance covers a spectral range of 1500 to 1600 nm, and also remains stable in corrosive chemicals that normally react to silica glass.

FEATURES:

- Excellent mechanical strength and flexibility compared to polymer coated fibers.
- ✤ The temperature range is from -196°C to +400°C.
- The metal coating can be soldered and will not outgas.



FIBER SPECIFICATIONS	0K-6/125AL	0K-9/125AL
Fiber type	Single mode	Single mode
Coating material	Aluminium	Aluminium
Core diameter, µm	6.8 ± 0.5	9.1 ± 0.5
Mode field diameter (Gauss), µm	7.5 ± 0.6	10.0 ± 0.6
Clad diameter, µm	125 ± 1	125 ± 1
Coating diameter, µm	160 ± 5	160 ± 5
Wavelength range, nm	1500 ÷ 1600	1500 ÷ 1600
Cutoff wavelength, nm	< 1450	< 1450
Attenuation at 1550nm ¹ , dB/km	< 7	< 7
Core material	Silica Ge-doped	Silica Ge-doped
Clad material	silica	silica
Numerical Aperture (NA)	0.16 ± 0.02	0.13 ± 0.02
Δn	0.009 ± 0.001	0.005 ± 0.001
Short-term bending radius, mm	≥ 10	≥ 10
Long-term bending radius, mm	≥ 25	≥ 25
Proof test, kpsi	> 100	> 100
Min operating temperature ² , ^o C	- 196	- 196
Max operating temperature ² , ^o C	400	400

1- under normal climatic conditions

2- in inert environment

Other parameters are available on the request