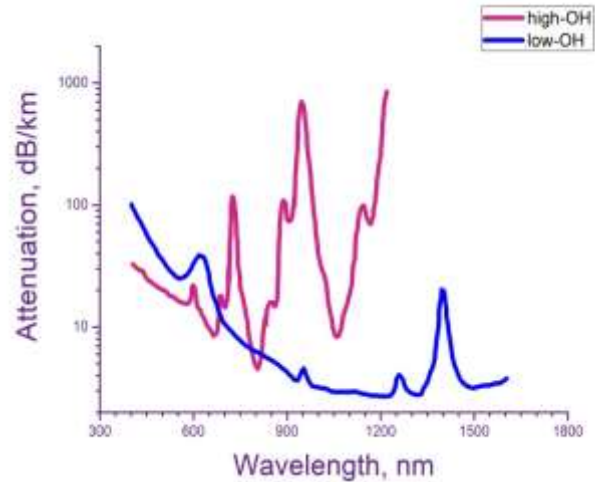


SPECIALTY FIBER ALUMINUM COATED FIBERS

LOW OH STEP INDEX MULTIMODE SILICA FIBERS

1.06 CORE/CLAD RATIO

Aluminum-coated step index multimode optical fibers have all the benefits of silica-silica fibers. Additional significant improvements include increased mechanical strength and greater fatigue resistance compared to non-hermetic and polymer-clad fibers (PCS). Their transmittance covers a spectral range of 400 to 2200 nm, and also remains stable in corrosive chemicals that normally react to silica glass. The temperature range is from -196C to +400C .



FEATURES:

- ❖ Greatly enhanced resistance to high power laser radiation.
- ❖ Higher core-to-clad ratio and enlarged NA optimized for coupling to high-energy lasers.
- ❖ Better fiber cooling due to the heat-conducting metal coating.
- ❖ Excellent mechanical strength and flexibility compared to polymer coated fibers.
- ❖ The metal coating can be soldered and will not outgas.

FIBER SPECIFICATIONS	OK-600/636AL	OK-800/848AL	OK-1000/1060AL
Core diameter, μm	600 ± 12	800 ± 15	1000 ± 20
Clad diameter*, μm	636 ± 15	848 ± 20	1060 ± 40
Coating diameter, μm	830 ± 30	1060 ± 40	1350 ± 60
Attenuation at 800/1300nm (see graph Low OH)	The loss spectrum is close to the material loss spectrum		
Wavelength range, nm (see graph Low OH)	400 ÷ 2200		
Fiber type	Multimode		
Index profile	Step		
Coating material	Aluminium		
Core material	Pure syntetic silica (low OH)		
Clad material	Doped silica		
Numerical Aperture (NA)	0.22 ± 0.02		
Short-term bending radius	60 times the fiber diameters		
Long-term bending radius	120 times the fiber diameters		
Proof test, kpsi	> 100		
Min operating temperature, °C	-196		
Max operating temperature, °C	+400		

Other parameters are available on the request