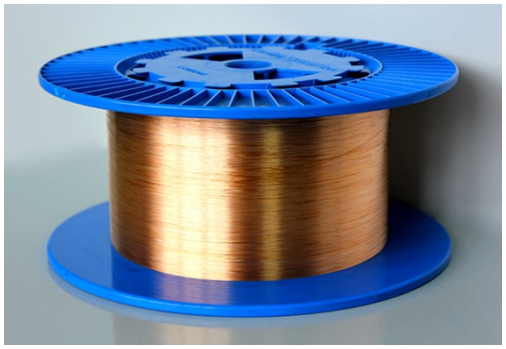
SPECIALTY FIBER COPPER COATED FIBERS

SINGLE MODE

Copper-coated single mode optical fibers have all the benefits include increased mechanical strength and greater fatigue resistance compared to non-hermetic and polymer-clad fibers (PCS). Their transmittance covers a spectral range of 1300 to 1600 nm. The temperature range is from -196°C to +600°C.



FEATURES:

- Excellent mechanical strength and flexibility compared to polymer coated fibers.
- Radiation resistant construction.
- Capability to feed the fibers into a high vacuum: the metal coating can be soldered and will not outgas.

FIBER SPECIFICATIONS	OK-9/125Cu	OK-9/125-C/Cu
Coating material	Copper	Copper alloy
Additional inner layer	no	carbon
Core diameters, μm	7 ± 0,5	
Clad diameters, μm	125 ± 1	
Wavelength range, nm	1300 ÷ 1600	
Attenuation at 1300nm, dB/km	‹ 10	
Cutoff wavelength, nm	1.25 ± 0.05	
Core material	Ge-doped	
Clad material	silica	
Numerical Aperture (NA)	0.14 ± 0.02	
Short-term bending radius, mm	> 10	
Long-term bending radius, mm	> 25	
Proof test, kpsi	> 100	
Min operating temperature, ·C	- 196	
Max operating temperature, ·C	+ 600	

Other parameters are available on the request