

Single-mode polarization-maintaining fiber



INTENDED FOR

fiber-optic sensors, compensation interferometers and fiber-optic lines, requiring the preservation of the polarization of optical radiation.

FEATURES:

- Working wavelength 1550 nm
- Lowest h-parameter

OPTICAL SPECIFICATIONS

Maximum attenuation (for wavelength 1550 nm)	not more than 0.9 dB/km
Numerical aperture	$0,14 \pm 0,2$
Cable cutoff wavelength (λ_{cc})	$\lambda_{cc} \leq 1450 \text{ nm}$
Birefringence	$>5.5 \cdot 10^{-4}$
h-parameter, 1/m	$<6 \cdot 10^{-6}$
Beat length, mm	<3
Mode-field diameter (for wavelength 1550 nm)	$9,5 \pm 0,5 \mu\text{m}$

DIMENSIONAL SPECIFICATIONS

Glass geometry:

Cladding diameter	$125,0 \pm 0,1 \mu\text{m}$
Core diameter	$8,3 \mu\text{m}$
Core-clad concentricity	$\leq 0,8 \mu\text{m}$
Cladding non-circularity	$\leq 0.2 \%$

Coating geometry:

Coating diameter	$250 \pm 10 \mu\text{m}$
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Coating type: dual layer acrylate

Operating temperature range: -60°C to $+85^\circ\text{C}$

Fiber length available from 0.5 km/spool.

The entire fiber length is subjected to a tensile stress $\geq 100 \text{ kpsi}$ (0.69 GPa).*

*High proof test levels available.

