

j-SM Series

Select Cut-off Singlemode Fiber

j-fiber's series of select Cut-off Singlemode fiber is available for a wide range of wavelengths for use in telecommunication, visible and near infrared range applications.

Features

- excellent geometric specifications
- high strength
- superior fiber geometry tolerances

Application

- WDM couplers
- Pigtail fiber
- Fiber sensors
- Laser application

All fibers and preforms are subject to j-fiber's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specification without notice.

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DIN ISO 16016

DB-FSQC-500-01-0512
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Supersedes
DB-FSQC-500-01-1209

Officially registered facility
according to EWG No. 1221/2009



For further information about
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j-fiber products and services,
please contact us:

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Optical Characteristics

	j-SM500	j-SM680	j-SM810	j-SM1010	j-SM1230	Unit
Operating Wavelength	500-680	680-800	810-1000	1010-1230	1230-1400	nm
Cut-off Wavelength λ_c	470 ± 30	650 ± 30	780 ± 30	980 ± 30	1200 ± 30	nm
Numerical Aperture ¹	0.08-0.14	0.08-0.14	0.1-0.18	0.1-0.19	0.1-0.21	
Mode Field Diameter ²	3 - 5	4 - 6	4 - 9	4 - 10	6 - 12	μm
Attenuation ³	≤ 46	≤ 13	≤ 5	≤ 3.5	≤ 3	dB/km

¹ other numerical aperture available upon request

² Mode field diameter is a calculated value at the shortest operating wavelength

³ Attenuation is a worst-case value, quoted for the shortest operating wavelength

Geometrical Characteristics

	Type A	Type B	Unit
Cladding Diameter	125.0 ± 1.0	80 ± 1.0	μm
Core/Clad Concentricity Error	≤ 0.5	≤ 0.5	μm
Cladding Non-Circularity	≤ 0.7	≤ 0.7	%
Coating Diameter	245.0 ± 10.0	165 ± 10	μm
Coating/Clad Concentricity Error	≤ 10.0	≤ 10.0	μm
Standard Lengths	as per request	as per request	m

Mechanical Characteristics

	Type A	Type B	Unit
Proof Test	≥ 100 ¹	≥ 100 ¹	kpsi
	≥ 8.8	≥ 3.6	N

¹ 200 kpsi upon request

Ordering Information

To order j-SM Series - Select Cut-off SMF please call, fax or email us and specify the following parameters when ordering:

Fiber Design:	j-SMXXXX
Fiber Type:	A or B
Fiber Quantity:	m
Other:	desired ship date, reel length, special requests