



Member of LEONI Group

## Ultra Low Bend Loss Singlemode Fiber j-ULBL SMF (ITU-T G.657.B2)

### Ordering Information

To order j-fiber optical fiber please call, fax or email us and specify the following parameters:

Fiber Type:	j-ULBL-SMF
Desired Attenuation:	at 1310 nm
Fiber Quantity:	kms
Other:	desired ship date, reel length, special requests

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 specifications without notice.

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DB-FULBL-002-01-0910  
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Supersedes  
DB-FULBL-002-00-0708  
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Officially registered facility according to EWG No. 761/2001



For further information about our Singlemode Fiber and other j-fiber products and services, please contact us:

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j-fiber's Ultra Low Bend Loss fiber is designed for use in special applications at 1310 nm and 1550 nm with extremely reduced bend radius. The fiber provides an enhanced bend performance with a bend loss of 50 times lower than G.652 fiber and up to 10 times lower than G.657.A1 type fiber.

### Optical Characteristics

		Specified values	Unit
Attenuation	1310 nm	$\leq 0.38$	dB/km
	1550 nm	$\leq 0.25$	dB/km
	1625 nm	$\leq 0.25$	dB/km
Cable Cut-off Wavelength $\lambda_{cc}$		$\leq 1260$	nm
Mode Field Diameter 1310 nm		$7.5 \pm 0.4$	$\mu\text{m}$
Numerical Aperture (Nominal Value)		$0.140 \pm 0.015$	
Macrobending Loss			
Bend Induced Attenuation			
10 turns	1550 nm	$\leq 0.03$	dB
Radius 15 mm	1625 nm	$\leq 0.1$	dB
1 turn	1550 nm	$\leq 0.1$	dB
Radius 10 mm	1625 nm	$\leq 0.2$	dB
1 turn	1550 nm	$\leq 0.5$	dB
Radius 7.5 mm	1625 nm	$\leq 1.0$	dB
Cladding Diameter		$125 \pm 0.7$	$\mu\text{m}$
Coating Diameter		$245 \pm 5$	$\mu\text{m}$
Core-clad Concentricity		$\leq 0.5$	$\mu\text{m}$
Proof test level <sup>1</sup>		$\geq 100$	kpsi
Coating Material		Acrylate Dual Layer	

<sup>1</sup> Higher proof test level available upon request

### Typical bending performance for j-fiber ULBL SMF (G.657.B2)

(ACCORDING TO IEC60793-2-50: SMF\_B6\_b2 AND ITU-T G.657.B2)

