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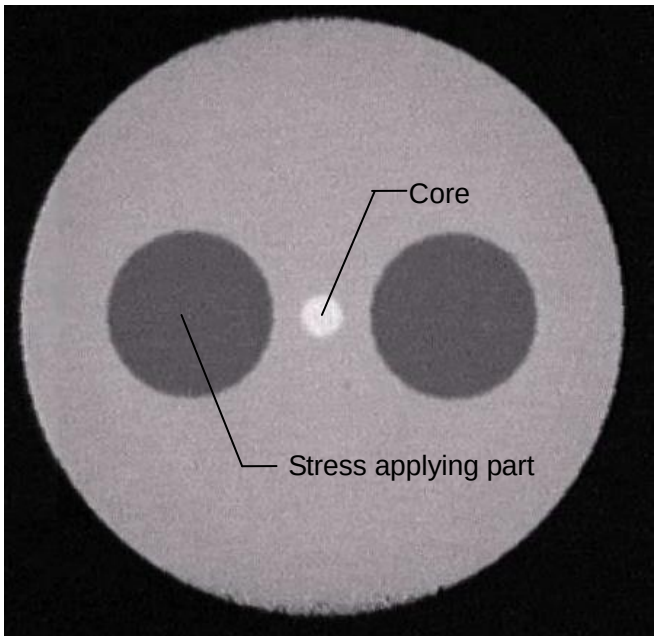
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PANDA Fibers

(Polarization-maintaining and Absorption reducing Fibers)



Fujikura PANDA fibers have a superior optical property in polarization-maintaining because of the symmetrical accuracy in cross section and the uniform constitution of stress applying parts. Based on Fujikura's fiber technology, PANDA fibers have a universal quality with not only low polarization crosstalk and low attenuation but also the broad suitability for fusion-splice or optical connector.

Features

- ✧ Low Loss
- ✧ Low Polarization Crosstalk
- ✧ High reliability

Applications

- ✧ Pigtail for LD and Modulator and any polarization dependent devices
- ✧ 0.98 μm or 1.48 μm Pump LD stabilizer
- ✧ PMD Compensator for High speed system
- ✧ Materials for Optical Fiber Devices such as PM Fused Coupler
- ✧ Ultra-high-speed transmission system with erbium doped or dispersion compensating PANDA fibers
- ✧ Sensing Fiber
- ✧ Up to 300 degC ambient use (Polyimide coating)

PANDA fiber specifications

Fiber Type	λ_0	MF dia-meter	Concen-tricity error	Cladding major diameter	Attn.	Cut-off wavelength	Polari-zation Crosstalk	Beat Length	Coating Structure	Coating diameter
	μm	μm	Max. μm	μm	Max. dB/km	μm	Max. dB/100m	mm		μm
SC40-PX-H90D-H (RGB)	0.405 - 0.64	3.8 +/- 1.0 (**), 2.3 +/- 0.6 (***)	0.5	125+/-1	50	≤0.40	-30(**)dB/ 10 turns Bending dia. at 60 mm	≤2.0 (**)	Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SC40-PX-U40D-H (RGB)									Urethane acrylate	400+/-15
SC40-PX-U25D-H (RGB)										245+/-15
SC40-PS-J20D	0.41	3.5 (*)				0.33 - 0.40	-30	≤1.7	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SC40-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SC40-PS-U40D									Urethane acrylate	400+/-15
SC40-PS-U25D										245+/-15
SC48-PS-J20D	0.48	4.0 (*)			30	0.40 - 0.47		≤2.0	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SC48-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SC48-PS-U40D									Urethane acrylate	400+/-15
SC48-PS-U25D										245+/-15
SC53-PS-U40D	0.53	5.2 (*) (**)			20	≤0.52	-30(**)	≤2.0 (**)		400+/-15
SM53-PS-J20D		4.2 (*) (**)			15(**)	0.45 - 0.53			Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM53-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM53-PS-U40D									Urethane acrylate	400+/-15
SM63-PS-J20D	0.63	4.5 (*)			12	0.52 - 0.62	-30	≤2.0	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM63-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM63-PS-U40D									Urethane acrylate	400+/-15
SM63-PS-U25D										245+/-15
SM63-PS-F70D									Urethane acrylate/ Fluoropolymer	700+/-100
SM63-PR-U25D-H						0.50 - 0.62	-25	1.5-3.5	Urethane acrylate	245+/-15
SM85-PS-J20D	0.85	5.5 (*)			3.0	0.65 - 0.80	-30	1.0-2.0	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM85-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM85-PS-U40D									Urethane acrylate	400+/-15
SM85-PS-U25D										245+/-15
SM85-PS-F70D									Urethane acrylate/ Fluoropolymer	700+/-100
RCHA85-PS-U17C		3.5 (*)		80+/-1	3.5			≤2.0	Urethane acrylate	165+/-15

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	μm	μm	Max. μm	μm	Max. dB/km	μm	Max. dB/100m	mm		μm
SM98-PS-J20D	0.98	6.6 (*)	0.5	125+/-1	2.5	0.87 - 0.95	-30	1.5-2.7	Urethane acrylate/ Polyester-elastomer(Green)/ Polyolefin(Gray)	2000+/-200
SM98-PS-H90D									Urethane acrylate/ Polyester-elastomer(Green)	900+/-100
SM98-PS-U40D									Urethane acrylate	400+/-15
SM98-PS-U25D										245+/-15
SM98-PS-Y15							-25 dB/5m		Polyimide	145+/-10
SM98-PR-U25D-H					3.0	0.80 - 0.95	-25	2.8-4.9	Urethane acrylate	245+/-15
RCSM98-PS-U17C		6.0 (*)		80+/-1	2.5	0.87 - 0.95		1.4-2.6		165+/-15
SM13-PS-J20D	1.30	9.0 (*)		125+/-1	1.0	1.13 - 1.27	-30	2.5-4.0	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM13-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM13-PS-U40D									Urethane acrylate	400+/-15
SM13-PS-U25D										245+/-15
HA13-PS-U25D		5.5 +/- 1.0			2.0	1.00 - 1.29		≤2.5		
SM13-PR-U25D-H		9.0 (*)			1.0	1.11 - 1.27	-25	3.8-5.6		
RCSM13-PS-U17C		8.2 (*)		80+/-1	2.0	1.10 - 1.29		2.0-3.5		165+/-15
SM14-PS-J20D	1.40 - 1.49	9.8 (*)		125+/-1	1.0	1.26 - 1.38	-30	2.8-4.7	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM14-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM14-PS-U40D									Urethane acrylate	400+/-15
SM14-PS-U25D										245+/-15
SM14-PR-U25D-H							-25	4.1-7.3		
RCSM14-PS-U17C		9.0 (*)		80+/-1	2.0	1.20 - 1.38		2.3-4.2		165+/-15
SM15-PS-J20D	1.55	10.5 (*)		125+/-1	0.5	1.30 - 1.44	-30	3.0-5.0	Urethane acrylate/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM15-PS-H90D									Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SM15-PS-U40D									Urethane acrylate	400+/-15
SM15-PS-U25D										245+/-15
SRSM15-PX-H90D-H		9.5 +/- 0.4				≤1.44		2.0-5.0	Urethane acrylate/ Polyester-elastomer(Black)	900+/-100
SRSM15-PX-U40D-H									Urethane acrylate	400+/-15
~~SRSM15-PX-H50D-H~~							-25		Urethane acrylate/ Polyester-elastomer(Black)	500+/-50
SRSM15-PX-U25D-H							-30		Urethane acrylate	245+/-15

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	μm	μm	Max. μm	μm	Max. dB/km	μm	Max. dB/100m	mm		μm
BISM15-PX-H50D-H	1.55	9.0 +/- 0.4	0.5	125+/-1	3.0	≤1.44	-30	≤3.0	Urethane acrylate/ Polyester-elastomer(Black)	500+/-50
BISM15-PX-U25D-H									Urethane acrylate	245+/-15
SRSM15-PS-Y15		9.4 +/- 1.0	0.5		2.0	≤1.44	-25 dB/5m	≤4.0	Polyimide	145+/-10
SM15-PR-U25D-H		10.5 (*)			0.5	1.30 - 1.44	-25	4.4-7.8	Urethane acrylate	245+/-15
RCSM15-PS-U17C		9.5 (*)		80+/-1	2.0	1.29 - 1.45		2.5-4.5		165+/-15

(*)Tolerance : +/-0.5 μm
(**)Measuring wavelength at 630 nm
(***)Measuring wavelength at 405 nm.The others are at λ_0.

(1)Standard proof test minimum is 1%. 2% proof test fiber is available. (P/N : SM15-PS-U40D-H for example)
(2)Panda fiber for Erbium-doped (P/N : ED15-PS-U25A or ED98-PS-U25A) are also available.
(3)Underlined fiber types are new products.
(4)The exports of these products are controlled under Foreign Exchange and Trade Law of Japan.

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