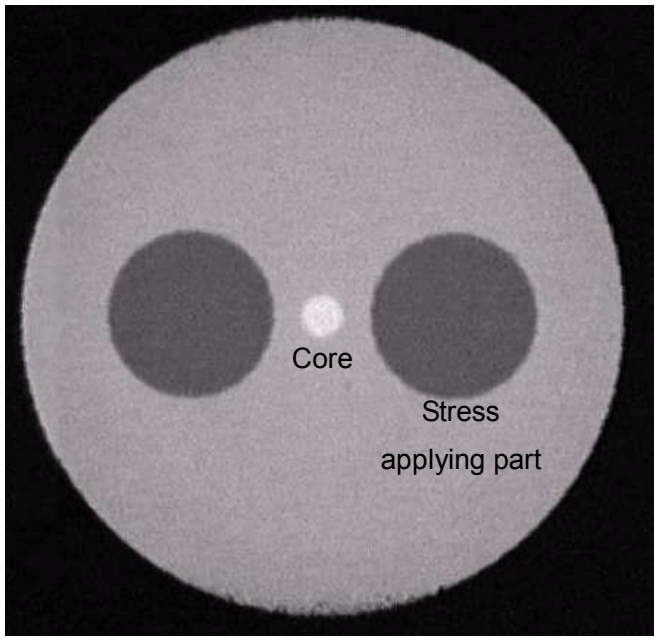
PANDA Fibers

(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	Fiber major diameter	Attn.	Beat Length	Polari-zation Crosstalk	Cut-off wavelength	Coating Structure	Coating diameter
	μm	μm	Max. μm	μm	Max. dB/km	mm	Max. dB/100m	μm		μm
SC40-PX-H90D-H (RGB)	0.405 - 0.64	3.8 +/- 1.0 (**), 2.3 +/- 0.6 (***)	0.5	125+/-1	50	≤2.0 (**)	-30(**)dB/ 10 turns Bending dia. at 60 mm	≤0.40	UV/ Polyester-elastomer(Black)	900+/-100
SC40-PX-U40D-H (RGB)									UV/UV	400+/-15
SC40-PX-U25D-H (RGB)										245+/-15
SC40-PS-J20D	0.41	3.5 (*)				≤1.7	-30	0.33～0.40	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SC40-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SC40-PS-U40D									UV/UV	400+/-15
SC40-PS-U25D										245+/-15
SC48-PS-J20D	0.48	4.0 (*)			30	≤2.0		0.40～0.47	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SC48-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SC48-PS-U40D									UV/UV	400+/-15
SC48-PS-U25D										245+/-15
SM53-PS-J20D	0.53	4.2 (*) (**)			15(**)	≤2.0 (**)	-30(**)	0.45～0.53	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM53-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM53-PS-U40D									UV/UV	400+/-15
SM63-PS-J20D	0.63	4.5 (*)			12	≤2.0	-30	0.52～0.62	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM63-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM63-PS-U40D									UV/UV	400+/-15
SM63-PS-U25D										245+/-15
SM85-PS-J20D	0.85	5.5 (*)			3.0	1.0-2.0		0.65～0.80	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM85-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM85-PS-U40D									UV/UV	400+/-15
SM85-PS-U25D										245+/-15
RCHA85-PS-U17C		3.5 (*)		80+/-1	3.5	≤2.0				165+/-10
SM98-PS-J20D	0.98	6.6 (*)		125+/-1	2.5	1.5-2.7		0.87～0.95	UV/ Polyester-elastomer(Green)/ Polyolefin(Gray)	2000+/-200
SM98-PS-H90D									UV/ Polyester-elastomer(Green)	900+/-100
SM98-PS-U40D									UV/UV	400+/-15
SM98-PS-U25D										245+/-15
SM98-PS-Y15							-25 dB/5m		Polyimide	145+/-10
SM98-PR-U25D-H					3.0	2.8-4.9	-25	0.80～0.95	UV/UV	245+/-15
RCSM98-PS-U17C		6.0(*)		80+/-1	2.5	1.4-2.6		0.87～0.95		165+/-10
SM13-PS-J20D	1.30	9.0 (*)		125+/-1	1.0	2.5-4.0	-30	1.13～1.27	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM13-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM13-PS-U40D									UV/UV	400+/-15
SM13-PS-U25D										245+/-15
SM13-PR-U25D-H						3.8-5.6	-25	1.11～1.27		
RCSM13-PS-U17C		8.2 (*)		80+/-1	2.0	2.0-3.5		1.10～1.29		165+/-10
HA13-PS-U25D		5.5 +/- 1.0		125+/-1		≤2.5	-30	1.00～1.29		245+/-15
SM14-PS-J20D	1.40 - 1.49	9.8 (*)			1.0	2.8-4.7		1.26～1.38	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM14-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM14-PS-U40D									UV/UV	400+/-15
SM14-PS-U25D										245+/-15
SM14-PR-U25D-H						4.1-7.3	-25			
RCSM14-PS-U17C		9.0 (*)		80+/-1	2.0	2.3-4.2		1.20～1.38		165+/-10
SRSM15-PS-Y15	1.55	9.4 +/- 1.0		125+/-1		≤4.0	-25 dB/5m	≤1.44	Polyimide	145+/-10
SRSM15-PX-H90D-H		9.5 +/- 0.4			0.5	2.0-5.0	-30		UV/ Polyester-elastomer(Black)	900+/-100
SRSM15-PX-U40D-H									UV/UV	400+/-15

Fiber Type	λ_0	MF dia-meter	Concen-tricity error	Fiber major diameter	Attn.	Beat Length	Polari-zation Crosstalk	Cut-off wavelength	Coating Structure	Coating diameter
	μm	μm	Max. μm	μm	Max. dB/km	mm	Max. dB/100m	μm		μm
SM15-PS-J20D	1.55	10.5 (*)	0.5	125+/-1	0.5	3.0-5.0	-30	1.30～1.44	UV/ Polyester-elastomer(Black)/ Polyolefin(Gray)	2000+/-200
SM15-PS-H90D									UV/ Polyester-elastomer(Black)	900+/-100
SM15-PS-U40D									UV/UV	400+/-15
SM15-PS-U25D										245+/-15
SM15-PR-U25D-H						4.4-7.8	-25			
RCSM15-PS-U17C		9.5(*)		80+/-1	2.0	2.5-4.5		1.29～1.45		165+/-10
DS15-PS-G20A		8.0 +/- 1.0	0.7	125+/-1	0.5	3.0-5.0		≤1.53	UV/ Polyamide(Blue)/ Polyolefin(Gray)	2000+/-200
DS15-PS-N90A									UV/ Polyamide(Blue)	900+/-100
DS15-PS-U40A							-30		UV/UV	400+/-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.

The exports of these products are controlled under Foreign Exchange and Trade Law of Japan.