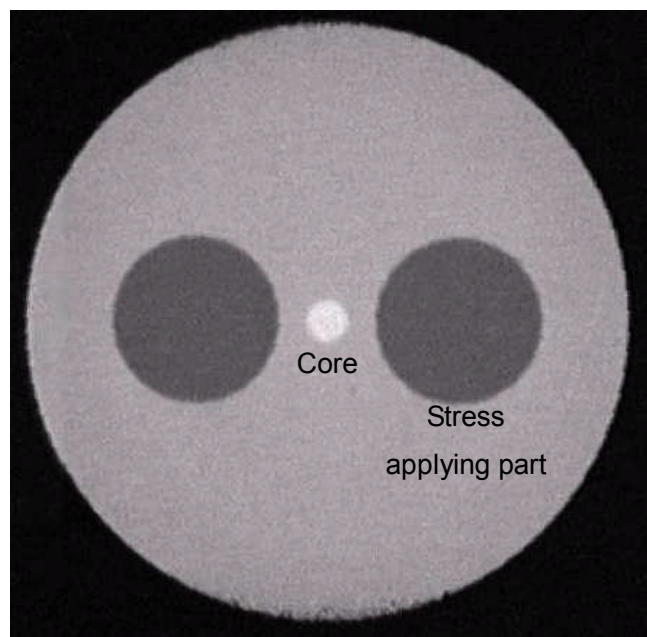


## PANDA Fibers

(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  $\mu\text{m}$  or 1.48  $\mu\text{m}$  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	$\lambda_0$	MF diameter	Concentration error	Fiber major diameter	Attn.	Beat Length	Polarization Crosstalk	Cut-off wavelength	Coating Structure	Coating diameter				
	$\mu\text{m}$	$\mu\text{m}$	Max. $\mu\text{m}$	$\mu\text{m}$	Max. dB/km	mm	Max. dB/100m	$\mu\text{m}$		$\mu\text{m}$				
SC40-PX-H90D-H (RGB)	0.405 - 0.64	3.8 +/- 1.0 (**),	0.5	125+/-1	50	$\leq 2.0$ (**)	-30(**)dB/10 turns Bending dia. at 60 mm	$\leq 0.40$	UV/ Polyester-elastomer(Black)	900+/-100				
SC40-PX-U40D-H (RGB)		2.3 +/- 0.6 (***)							UV/UV	400+/-15				
SC40-PX-U25D-H (RGB)										245+/-15				
SC40-PS-J20D	0.41	3.5 (*)	0.5	125+/-1	30	$\leq 1.7$	-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									UV/UV	245+/-15				
SC48-PS-J20D	0.48	4.0 (*)	0.5	125+/-1	30	$\leq 2.0$	-30	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									UV/UV	245+/-15				
SM53-PS-J20D	0.53	4.2 (*) (**)	0.5	125+/-1	15(**)	$\leq 2.0$ (**)	-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 (*)	0.5	125+/-1	12	$\leq 2.0$	-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									UV/UV	245+/-15				
SM85-PS-J20D	0.85	5.5 (*)	0.5	125+/-1	3.0	1.0-2.0	-30	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									UV/UV	245+/-15				
RCHA85-PS-U17C		3.5 (*)							80+/-1	3.5	$\leq 2.0$	UV/UV	165+/-10	
SM98-PS-J20D	0.98	6.6 (*)	0.5	125+/-1	2.5	1.5-2.7	-30	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									UV/UV	245+/-15				
SM98-PS-Y15									Polyimide	145+/-10				
SM98-PR-U25D-H									UV/UV	245+/-15				
RCSM98-PS-U17C		6.0(*)							80+/-1	2.5	1.4-2.6	UV/UV	165+/-10	
SM13-PS-J20D	1.30	9.0 (*)	0.5	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									UV/UV	245+/-15				
SM13-PR-U25D-H									3.8-5.6	80+/-1	2.0-3.5	-25	1.11~1.27	UV/UV
RCSM13-PS-U17C		8.2 (*)							80+/-1	2.0	$\leq 2.5$	-25	1.10~1.29	UV/UV
HA13-PS-U25D	5.5 +/- 1.0	80+/-1	2.0	$\leq 2.5$	-25	1.00~1.29	UV/UV	245+/-15						
SM14-PS-J20D	1.40 - 1.49	9.8 (*)	0.5	125+/-1	1.0	2.8-4.7	-30	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									UV/UV	245+/-15				
SM14-PR-U25D-H									4.1-7.3	80+/-1	2.0	2.3-4.2	-25	1.20~1.38
RCSM14-PS-U17C	9.0 (*)	80+/-1	2.0	2.3-4.2	-25	1.20~1.38	UV/UV	165+/-10						
SRSM15-PS-Y15	1.55	9.4 +/- 1.0	0.5	125+/-1	2.0	$\leq 4.0$	-25 dB/5m	$\leq 1.44$	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	$\lambda_0$	MF diameter	Concentricity error	Fiber major diameter	Attn.	Beat Length	Polarization Crosstalk	Cut-off wavelength	Coating Structure	Coating diameter					
	$\mu\text{m}$	$\mu\text{m}$	Max. $\mu\text{m}$	$\mu\text{m}$	Max. dB/km	mm	Max. dB/100m	$\mu\text{m}$		$\mu\text{m}$					
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										165+/-10					
RCSM15-PS-U17C		9.5(**)	80+/-1	2.0	2.5-4.5	-25	≤1.53	UV/ Polyamide(Blue)/ Polyolefin(Gray)	2000+/-200						
DS15-PS-G20A		8.0 +/- 1.0							0.7	125+/-1	0.5	3.0-5.0	-30	UV/ Polyamide(Blue)	900+/-100
DS15-PS-N90A															UV/UV
DS15-PS-U40A			400+/-15												

(\*)Tolerance : +/-0.5  $\mu\text{m}$

(\*\*)Measuring wavelength at 630 nm

(\*\*\*)Measuring wavelength at 405 nm

The others are at  $\lambda_0$ .

(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.



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Specifications subject to change without prior notice