PM Patchcord

Description:

The polarization maintaining (PM) singlemode optical patchcords for use in a number of applications, including interferometric sensors, polarization sensitive components, and high data rate communications systems. The FC and SC connectors are offered with UPC and APC polishing method.

Features:

- Wide range of Polarization Maintaining fibers
- Available both UPC and APC polishing:
- Alignment options:
  - Slow axis (Y-axis)
  - Fast axis (X-axis)
  - Specified by customer
  - Free
- Dust cover

Specifications:

Insertion loss (IL)	typ.: 0.40 dB (depending on fiber type)
Return loss (RL)	UPC > 50 dB, APC > 60 dB
Extinction ratio	typ. 25 dB
Strain relief	200 N
Operating temperature	-40°C to +80°C, conditioned by type of cable
Durability	min 1000 cycles
Assembly procedure	glue and polish
Connection	physical contact
Lock mechanism	coupling nut

Material

Coupling Nut	stainless steel
Plug Body	stainless steel, thermoplastic
Ferrule Material	full ceramic zirconia (the other type on demand)
Boot and Dust Cover	thermoplastic rubber (flame retardant)

Applications:

FOG (Fiber Optic Gyroscope)
LDV (Laser Doppler Velocimetr)
Measurement sensors
Testing and instrument systems
Coherent transmission i.e. next generation of telecommunication
PMD compensators

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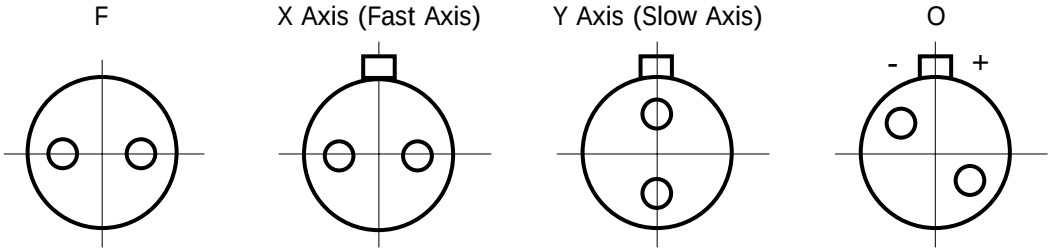
Polarization:



The stress applying members are free to the key.	The stress applying members are horizontal to the key (0 ± 3°).	The stress applying members are vertical to the key (0 ± 3°).	The stress applying members are at the specific angle to the key.

Ordering code:

PM - AAA - X - XX - (PM Fiber)* - X - XX

AAA	
Connector Type	**Connector Description**
UPC	FC/UPC
NPC	FC/APC
USC	SC/UPC
NSC	SC/APC

X - Axis:	
F	- free
X	- X axis
Y	- Y axis
O	- ± °

X - Pigtail or Jumper type:	
J	jumper
P	pigtail

XX - Jacket type:	
09	fiber 0.9 mm jacket
28	cable 2.8 mm jacket

XX - Length [m]

***) See Polarization maintaining fiber Ordering code**

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Polarization maintaining fiber ordering code:

Single mode polarization maintaning fibers Panda

Ordering Code	λ_0 (1)	MFD ± 1.0 μm	ATTN Max dB/km	Beat length	Polarization Crostalk Max dB/100 m	Cut-Off wavelength μm	Coating structure	Coating diameter
SM85-PS-N90A	0.85 μm	5.5 μm	3.0	1.0 – 2.0 mm	-25	0.65 - 0.80	UV/Polyamide (Black)	900±100 μm
SM85-PS-U40A					-30		UV/UV	400±15 μm
SM85-PS-U25A								245±15 μm
SM98-PS-N90A	0.98 μm	6.6 μm	3.0	1.5 – 2.7 mm	-25	0.80 - 0.95	UV/Polyamide (Green)	900±100 μm
SM98-PS-U40A					-30		UV/UV	400±15 μm
SM98-PS-U25A								245±15 μm
SM13-PS-N90A	1.30 μm	9.5 μm	1.0	2.5 – 4.0 mm	-250	1.10 - 1.29	UV/Polyamide (Black)	900±100 μm
SM13-PS-U40A					-30		UV/UV	400±15 μm
SM13-PS-U25A								245±15 μm
SM14-PS-N90A	1.40 -1.49 μm	9.8 μm	1.0	2.8 – 4.7 mm	-25	1.20 - 1.38	UV/Polyamide (Black)	900±100 μm
SM14-PS-U40A					-30		UV/UV	400±15 μm
SM14-PS-U25A								245±15 μm
SM15-PS-N90A	1.55 μm	10.5 μm	0.5	3.0 – 5.0 mm	-25	1.29 - 1.45	UV/Polyamide (Black)	900±100 μm
SM15-PS-U40A					-30		UV/UV	400±15 μm
SM15-PS-U25A								245±15 μm

Single mode polarization maintaning fibers 3M

Ordering Code	Operating Wavelength	Mode filed diameter	Cladding	Jacket	Cut-Of Wavelength	Attenuation typical	Attenuation max	NA
FS-PM-4611	820 nm	5.3 μm	80 μm	165 μm	< 780 nm	3.0@820 nm	5.0@820 nm	0.13
FS-PM-6811	1300 nm	6.1 μm	80 μm	165 μm	< 1270 nm	1.8@1300 nm	2.5@1300 nm	0.18
FS-PM-7811	1550 nm	6.0 μm	80 μm	165 μm	< 1520 nm	2.6@1550 nm	3.0@1550 nm	0.20
FS-LS-4616	820 nm	5.3±0.5 μm	80±2 μm	200±15 μm	< 780 nm	3.0 dB/km	5.0 dB/km	0.13
FS-LS-7511	1550 nm	6.0±0.5 μm	80±2 μm	165±10 μm	< 1520 nm	2.6 dB/km	3.0 dB/km	0.20

Tiger polarization maintaning fibers 3M

Ordering code	Ordering code	Operating Wavelength	Mode filed diameter	Cladding	Beat length	Cut-Of Wavelength	Attenuation Max	H Parameter	Max. core to clad offset
250 μm buffer	400 μm buffer								
FS-TI-5129	FS-TI-5128	980 nm	5.9±0.5 μm	125±2.0 μm	4.25±0.75 mm	910±50 nm	10.0 dB/km	< 3.2 x 10^{-5} m^{-1}	0.8 μm
FS-TI-B129	FS-TI-B128	14xx nm	9.8±1.0 μm	125±2.0 μm	3.75±1.0 mm	1330±50 nm	1.0 dB/km	< 3.2 x 10^{-5} m^{-1}	0.8 μm
FS-TI-7129	FS-TI-7128	1550 nm	10.5±1.0 μm	125±2.0 μm	4.25±1.25 mm	1440±80 nm	1.0 dB/km	< 3.2 x 10^{-5} m^{-1}	0.8 μm

Nufern polarization maintaning fibers

Ordering code	Operating Wavelength	Mode filed diameter	Cladding	Jacket	Cut-Of Wavelength	Attenuation typical	Crosstalk	NA
PM980-HP	980 nm	6.6±1.0μm@980 nm	125±1.0 μm	250±20 μm	910±70 nm	<3.0 dB/km@980	<40 dB@4 m	0.12
PM14XX-HP	1400 – 1490 nm	9.8±0.8μm@1450 nm	125±1.0 μm	245±15 μm	1320±60 nm	<1.0 dB/km@1450	<40 dB@4 m	0.12
PM1550-HP	1490 – 1620 nm	10.5±0.8μm@1550 nm	125±1.0 μm	245±15 μm	1370±70 nm	<0.5 dB/km@1550	<40 dB@4 m	0.12

OFS polarization maintaning fibers

Ordering code	Operating Wavelength	Mode filed diameter	Cladding	Jacket	Cut-Of Wavelength	Application	Attenuation max	NA	Beat Length	Crosstalk @ 1550 nm
BF06832	14XX-Raman	9.8 μm	125 μm	400 μm	< 1380 nm	Raman	< 1.2@1455 nm	0.13	≤4.7mm @ 1455 nm	≤ -25 dB/100 m
BF06832-01	14XX-Raman	9.8 μm	125 μm	250 μm	< 1380 nm	Raman	< 1.2@1455 nm	0.13	≤4.7mm @ 1455 nm	≤ -25 dB/100 m
BF06833	1480 nm	10.0 μm	125 μm	400 μm	< 1470 nm	Telecom	< 1.0@1480 nm	0.13	≤4.8mm @ 1480 nm	≤ -25 dB/100 m
BF06833-01	1480 nm	10.0 μm	125 μm	250 μm	< 1470 nm	Telecom	< 1.0@1480 nm	0.13	≤4.8mm @ 1480 nm	≤ -25 dB/100 m
BF06734	1480 nm	10.0 μm	125 μm	400 μm	< 1525 nm	Telecom	< 1.0@1550 nm	0.13	≤5.0mm @ 1550 nm	≤ -25 dB/100 m
BF06734-01	1480 nm	10.0 μm	125 μm	250 μm	< 1525 nm	Telecom	< 1.0@1550 nm	0.13	≤5.0mm @ 1550 nm	≤ -25 dB/100 m

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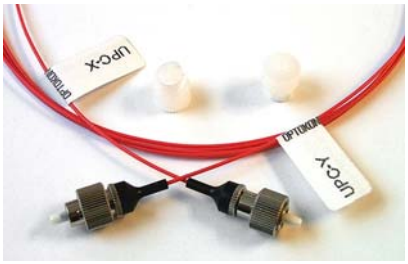
Samples of ordering code:

PM-NPC-X- 09 - FS PM 7811 -J-02
- Jumper, FC/APC connectors, X axis, Single mode polarization maintaning fibers 3M FS-PM-7811, length 2 m

PM-USC-F- 28 - PM1550 HP -P-03
- Pigtail, SC/UPC connector, Free axis, Nufern polarization maintaning fibers PM1550-HP, length 3 m

PM-NPC-X- 28 - SM15 PS U40A -J-02



PM-NPC-Y/X- 09 - FS TI 7129 -J-02

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