2000nm Polarization Maintaining Fiber Connector/Patch Cable

Product Description

These polarization-maintaining fiber patch cords offered by Idealphotonics feature high-quality, narrow-pin ceramic FC/AFC connectors on both ends. Produced in our facilities, each patch cord is individually tested at the test wavelengths listed on the Specs tab to ensure extinction ratio and low back reflection (return loss) when connecting fiber to fiber. These patch cords are available in stock with a high-quality polish that guarantees a typical return loss of over 60 dB. The test data table provides extinction ratio and insertion loss tests for each patch cord. Each patch cord comes with two protective caps covering the ends to prevent dust or other contaminants from falling into the ferrule end face. We also sell CAPF plastic fiber caps and CAPFM metal threaded fiber caps to protect FC/PC terminations separately. If you don't find the product you need in our stock patch cords, We also offers custom patch cords that can be shipped the same day.

Part Number

PM-2000-2-1-FC/APC

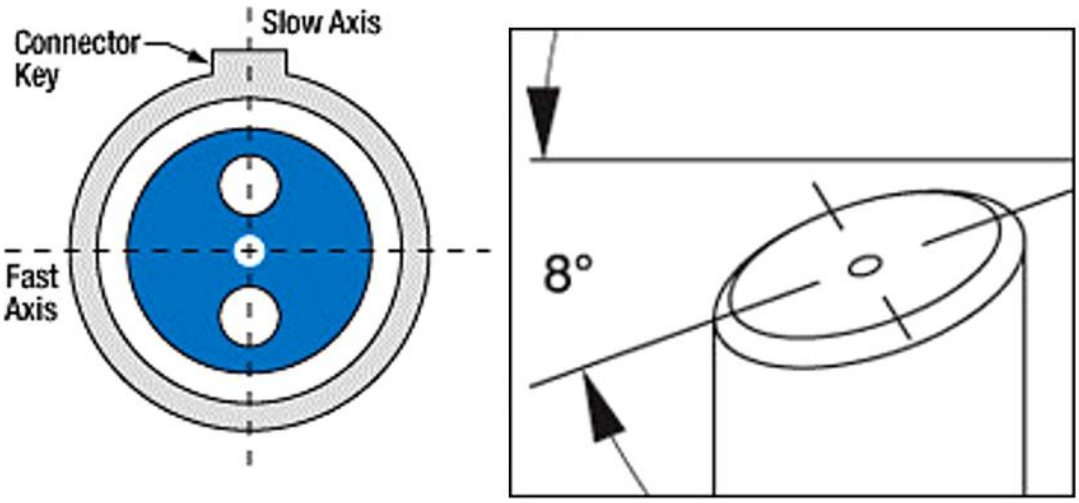
Product features

Slow axis aligned 、 Polarization-maintaining fiber with a pair of FC/APC connectors、 Wavelength range 400-2200nm、 Narrow plug (2mm) and slow axis aligned、 Typical 60 dB return loss、 Ceramic ferrule, angled 8° (APC)、 Ø3mm external protective layer、 Cu
stomized jumpers available

Application area

Fiber optic communication system、 Fiber optic access network、 Fiber optic data transmission、 Fiber optic CATV、 Local area network (LAN)、 Test equipment、 Fiber optic sensor

Dimensional Drawing



Parameters

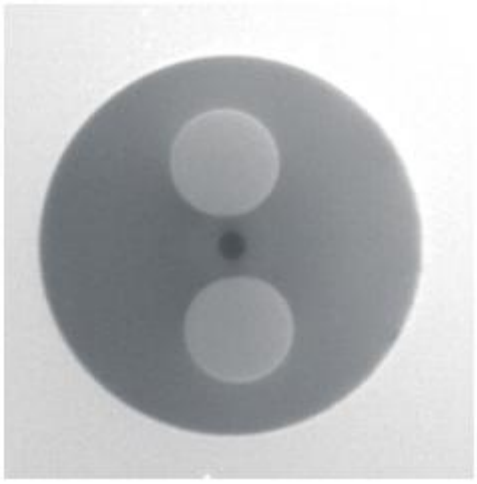
PN#	PM-405BPM-FC	PM-488PM-FC	PM-630PM-FC	PM-780PM-FC	PM-980PM-FC
Test wavelength	405 nm	488 nm	630 nm	780 nm	980 nm
Operating wavelength	400 - 680 nm	460 - 700 nm	620 - 850 nm	770 - 1100 nm	970 - 1550 nm
Cut-off wavelength	380 ± 20 nm	420 ± 30 nm	570 ± 50 nm	710 ± 60 nm	920 ± 50 nm
Fiber type	PM-S405-XP (Panda)	PM460-HP (Panda)	PM630-HP (Panda)	PM780-HP (Panda)	PM980-XP (Panda)
Maximum insertion loss a	1.5 dB	1.5 dB	1.2 dB	1.0 dB	0.7 dB
Minimum extinction ratio a	15 dB	18 dB	20 dB	20 dB	22 dB
Mode field diameter b	3.6 ± 0.5 um @ 405nm	3.4 um @ 488nm	4.2 um @ 630nm	4.9 um @ 780nm	6.6 ± 0.7 um @ 980nm
Numerical aperture c	0.12	0.12	0.12	0.12	0.12
Return loss a	60 dB Typical				
Fiber connector	FC/APC				
Connector groove width	2.00 ± 0.02 mm				
Alignment method	Narrow Key Aligned to Slow Axis				
Fiber length	1.0 +0.075/-0 m for Item NumbersEnding in -1				
Loose tube type	2.0 +0.075/-0 m for Item NumbersEnding in -2				
Operating temperature	5.0 +0.075/-0 m for Item NumbersEnding in -5				
Storage temperature	10.0 +0.075/-0 m for Item NumbersEnding in -10				
Cut-off wavelength	900um/2mm/3mm loose tube can be choose				
Fiber type	0 to 70 ℃				
Maximum insertion loss a	-45 to 85 ℃				

PN#	PM-1064PM-FC	PM-1310PM-FC	PM-1550PM-FC	PM-2000PM-FC
Test wavelength	1064 nm	1310 nm	1550 nm	2000 nm
Operating wavelength	970 - 1550 nm	1270 - 1625 nm	1440 - 1625 nm	1850 - 2200 nm
Cut-off wavelength	920 ±50 nm	1200 ±70 nm	1370 ±70 nm	1720 ±80 nm
Fiber type	PM980-XP(Panda)	PM1300-XP(Panda)	PM1550-XP(Panda)	PM2000(Panda)
Maximum insertion loss a	0.7 dB	0.5 dB	0.5 dB	0.5 dB
Minimum extinction ratio a	22 dB	23 dB	23 dB	23 dB
Mode field diameter b	7.7 um@ 1064 nm	9.3 ±0.5 um @ 1300 nm	9.9 ±0.5 um @ 1550 nm	8.6 um @ 2000 nm
Numerical aperture c	0.12	0.13	0.125	0.2
Return loss a	60 dB Typical			
Fiber connector	FC/APC			
Connector groove width	2.00 mm ±0.02			
Alignment method	Narrow Key Aligned to Slow Axis			
Fiber length	1.0 +0.075/-0 m for Item NumbersEnding in -1			
Loose tube type	2.0 +0.075/-0 m for Item NumbersEnding in -2			
Operating temperature	5.0 +0.075/-0 m for Item NumbersEnding in -5			
Storage temperature	10.0 +0.075/-0 m for Item NumbersEnding in -10			
Test wavelength	900um/2mm/3mm loose tube can be choose			
Operating wavelength	0 to 70 ℃			
Cut-off wavelength	-45 to 85℃			

a. Measured at the test wavelength.
b. Mode field diameter (MFD) is the standard value. The diameter at the power 1/e2 position in the near field.
c. Numerical aperture (NA) is the standard value.

1550PM fiber optic patch cord test

1.End face test

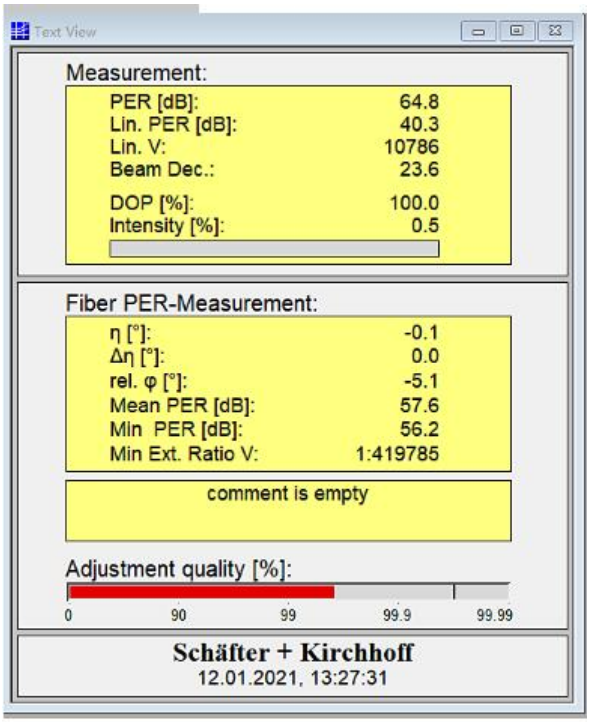


2.IL test

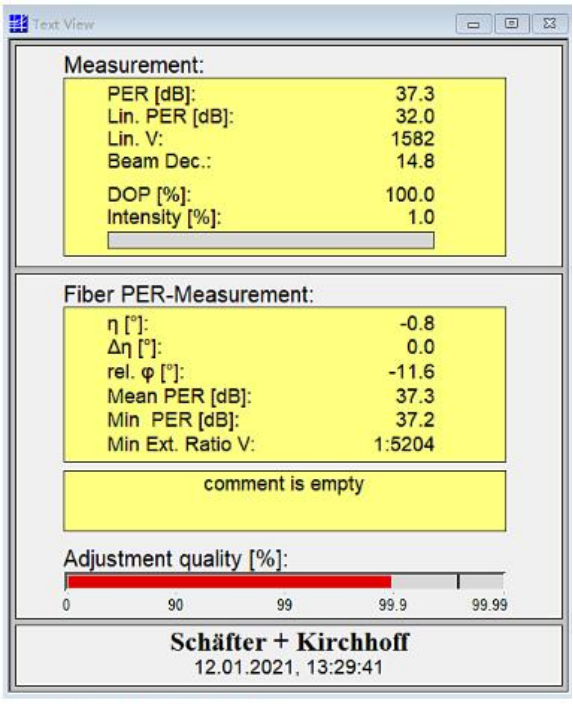
Laser power before access

Power after access to fiber jumper

3. Extinction ratio test



Laser direct test



after connecting to fiber jumper