

1550nm Polarization Maintaining Fiber Connector/Patch Cable

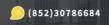


Product Description

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, Terahertzlabs also offers custom patch cords that can be shipped the same day.

Part Number

PM-1550-2-1-FC/APC











Product features

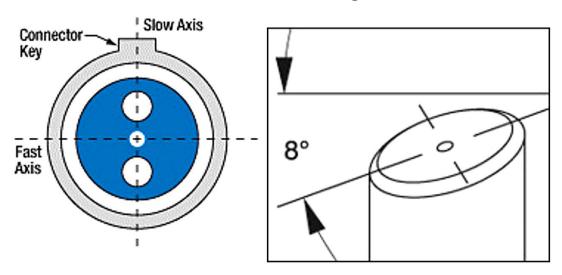
Slow axis aligned Polarization-maintaining fiber with a pair of FC/APC connectors. Wavelength range 400-2200nm, Narrow plug (2mm) and slow axis aligned, Typical 60 dB return loss, Ceramic ferrule, angled 8° (APC), Ø3mm external protective layer. Customized jumpers available

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

Parameters

Dimensional Drawing











Parameters

raiaiiie						
PN#	PM-405-2-1-F C/APC	PM-488-2-1-F C/APC	PM-630-2-1-F C/APC	PM-780-2-1-F C/APC	PM-980-2-1-F C/APC	
Test						
wavelen	405 nm	488 nm	630 nm	780 nm	980 nm	
gth						
Operatin						
g wavelen gth	400 - 680 nm	460 - 700 nm	620 - 850 nm	770 - 1100 nm	970 - 1550 nm	
Cut-off						
wavelen	380 \pm 20 nm	420 \pm 30 nm	570 \pm 50 nm	710 \pm 60 nm	920 \pm 50 nm	
gth						
Fiber	PM-S405-XP	PM460-HP	PM630-HP	PM780-HP	PM980-XP	
type	(Panda)	(Panda)	(Panda)	(Panda)	(Panda)	
Maximu	(r arraa)	(r arida)	(r arraa)	(r arraa)	(randa)	
m						
insertion	1.5 dB	1.5 dB	1.2 dB	1.0 dB	0.7 dB	
loss a						
Minimu						
m	15 dB	18 dB	20 dB	20 dB	22 dB	
extinctio						
n ratio a						
Mode						
field	$3.6 \pm 0.5 \mathrm{um}$	3.4 um @	4.2 um @	4.9 um @	$6.6 \pm 0.7 \mathrm{um}$	
diameter	@ 405nm	488nm	630nm	780nm	@ 980nm	
b						
Numeric						
al	0.12	0.42	0.12	0.12	0.12	
aperture	0.12	0.12	0.12	0.12	0.12	
С						
Return						
loss a	60 dB Typical					
Fiber						
connecto	FC/APC					
r	1 6/741 6					
Connect						
or						
	2.00 \pm 0.02 mm					
groove						
width						









Alignme nt method	Narrow Key Aligned to Slow Axis
Fiber length	1.0 +0.075/-0 m for Item NumbersEnding in -1 2.0 +0.075/-0 m for Item NumbersEnding in -2 5.0 +0.075/-0 m for Item NumbersEnding in -5 10.0 +0.075/-0 m for Item NumbersEnding in -10
Loose tube type	900um/2mm/3mm armor can be choose
Operatin g temperat ure	
Storage temperat ure	-45 to 85 ℃

PN#	PM-1064-2-1-FC /APC	PM-1310-2-1-FC /APC	PM-1550-2-1-FC /APC	PM-2000-2-1-FC /APC
Test waveleng th	1064 nm	1310 nm	1550 nm	2000 nm
Operatin g waveleng th	970 - 1550 nm	1270 - 1625 nm	1440 - 1625 nm	1850 - 2200 nm
Cut-off waveleng th	920 \pm 50 nm	1200 \pm 70 nm	1370 \pm 70 nm	1720 \pm 80 nm
Fiber type	PM980-XP(Pand a)	PM1300-XP(Pan da)	PM1550-XP(Pan da)	PM2000(Panda)
Maximu m insertion loss a	0.7 dB	0.5 dB	0.5 dB	0.5 dB
Minimum extinctio n 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	
Numerica I aperture c	0.12	0.13	0.125	0.2	
Return loss a	60 dB Typical				
Fiber connecto r	FC/APC				
Connecto r groove width	2.00 mm \pm 0.02				
Alignmen t method	Narrow Key Aligned to Slow Axis				
Fiber length	1.0 +0.075/-0 m for Item NumbersEnding in -1 2.0 +0.075/-0 m for Item NumbersEnding in -2 5.0 +0.075/-0 m for Item NumbersEnding in -5 10.0 +0.075/-0 m for Item NumbersEnding in -10				
Loose tube type	900um/2mm/3mm armor can be choose				
Operatin g temperat ure	0 to 70 ℃				
Storage temperat ure	-45 to 85°C				

Notes:

- 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

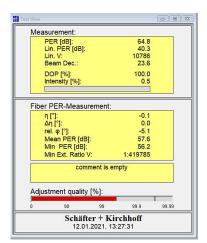


Laser power before accesst



Power after access to fiber jumper

3.Extinction ratio test



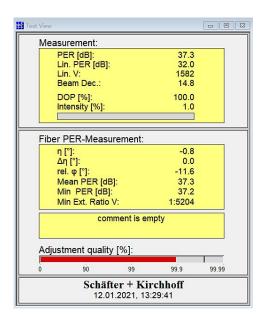
Laser direct test











after connecting to fiber jumper





