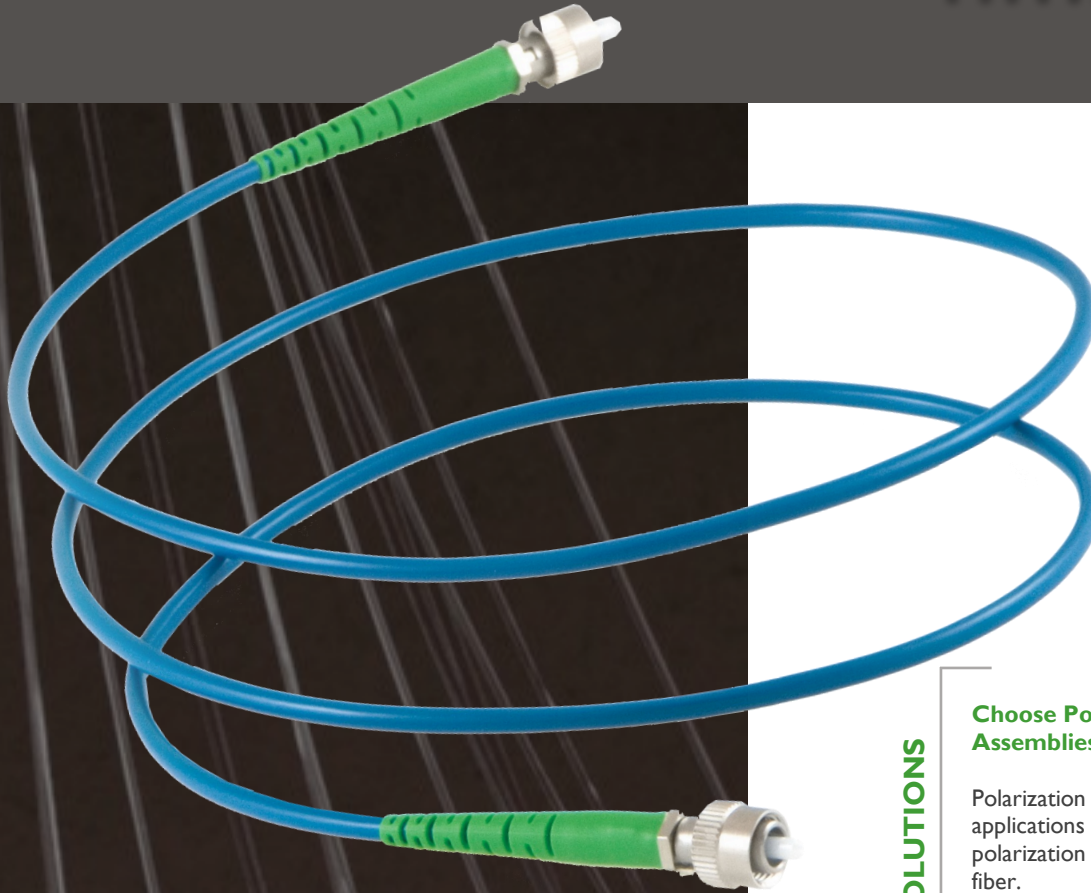


Polarization Maintaining Cables

timbercon



BENEFITS

- Guaranteed quality
- 100% tested and documented
- On-site development and production

APPLICATIONS

- Specialty photonics
- Telecommunications
- Sensor connections
- Gyroscope applications

PREMIUM SOLUTIONS

Choose Polarization Maintaining Cable Assemblies for quality and precision

Polarization maintaining fiber is used in applications which require the light to maintain polarization as it propagates down the core of a fiber.

PM fiber is commonly utilized in the telecommunications, sensor, and specialized photonics industries.

Timbercon PM cables are available with active, visual, or crossed alignment, and FC, LC, and SC termini options. Timbercon can provide you an exact solution for your PM fiber requirements.

FEATURES

Designed to meet Telcordia specifications

Low insertion loss

-35 to -65dB return loss

Active, visual, crossed alignment

Slow or fast alignment

High extinction ratio: 25 - 31 dB

UPC and APC polish

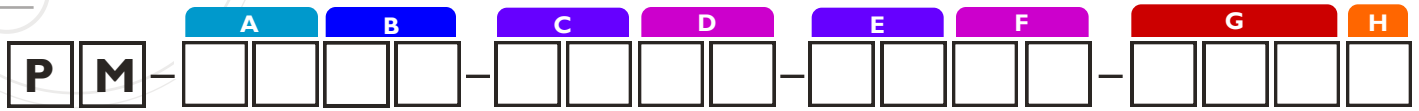
Available termini: FC, LC, SC

Wavelengths: 460nm, 480nm, 633nm, 780nm, 850nm, 980nm, 1060nm,

1300nm, 1310nm, 1550nm



Polarization Maintaining Cables



PART NUMBER GENERATOR

A - Fiber Type

- 31 Panda 1310
- 46 Panda 460
- 48 Panda 480
- 51 Panda 1550
- 61 Panda 633
- 71 Panda 1060
- 78 Panda 780
- 85 Panda 850
- 91 Panda 980
- 99 Custom

B - Construction Type

- 01 Bare Fiber
- 11 1.6mm - Blue
- 12 1.6mm - Black
- 13 1.6mm - Red
- 14 1.6mm - Green
- 21 2.0mm - Blue
- 22 2.0mm - Black
- 23 2.0mm - Red
- 24 2.0mm - Green
- 30 3.0mm - Stainless
- 31 3.0mm - Blue
- 32 3.0mm - Black
- 33 3.0mm - Red
- 34 3.0mm - Green
- 90 900um - White
- 91 900um - Blue
- 92 900um - Black
- 93 900um - Red
- 94 900um - Green
- 99 Custom

C/E - Connector

- 03 FC
- 04 FC APC N
- 07 LC
- 08 LC APC
- 21 SC
- 22 SC APC
- 99 Custom

D/F - Axis/Polish

- 10 UPC Slow - V
- 11 UPC Fast - V
- 13 UPC Slow - A
- 14 UPC Fast - A
- 20 APC Slow - V
- 21 APC Fast - V
- 23 APC Slow - A
- 24 APC Fast - A
- 99 Custom

G - Cable Length

Enter lead length in whole numbers. Use block (H) to specify unit of measure.

EXAMPLE:

1 Meter Lead =
(G) 001
(H) M

H - Unit of Measure

- N Inches
- F Feet
- C Centimeters
- M Meters
- K Kilometers

PERFORMANCE

	FC	SC	LC
Insertion Loss (typ)	0.2 dB	0.2 dB	0.2 dB
Insertion Loss (max)	0.6 dB	0.6 dB	0.6 dB
Return Loss (typ)	<-55 dB	<-55 dB	<-55 dB
Mating Durability	<0.2 dB	<0.2 dB	<0.2 dB
Temperature Range	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C

CONSTRUCTION

	Buffer	Strength Member	Jacket
900um	900um	-	PVC
3mm	900um	Kevlar	PVC
Length Tolerance	<1m: +5cm / -0cm 1m - 10m: +10cm / -0cm >10m: +2% / -0%		

PM SPECIFICATIONS

Wavelength	460	480	633	780	850	980	1060	1300	1310	1550
Operating wavelength range	460-550nm	460-550nm	630-780nm	780-980nm	810-870nm	980-1100nm	980-1100nm	1280-1340nm	1280-1340nm	1490-1620nm
Cutoff wavelength	420 ± 30nm	420 ± 30nm	580 ± 40nm	710 ± 60nm	720 ± 60nm	900 ± 70nm	900 ± 70nm	1200 ± 70nm	1200 ± 70nm	1370 ± 70nm
Fiber Type	Panda Type (other fibers available upon request)									
Mode Field Diameter	3.5um	3.5um	4.2um	4.2um	4.2um	6.6um	6.6um	9.5um	9.5um	10.5um
Attenuation dB/Km	≤ 30dB	≤ 30dB	≤ 12dB	≤ 12dB	≤ 12dB	≤ 3dB	≤ 3dB	≤ 1dB	≤ 1dB	≤ 1dB
Temperature Range Operating	-40°C to 85°C									

ABOUT

Founded in 1997, Timbercon, Inc. is a fiber optic product and solution manufacturing company providing a vast array of connectivity solutions to the data storage, telecommunications, military, industrial, broadcast and networking industries. In addition to standard fiber optic patch cords and attenuated test cables, Timbercon has pioneered proprietary products, many of which are now considered to be an industry benchmark.

