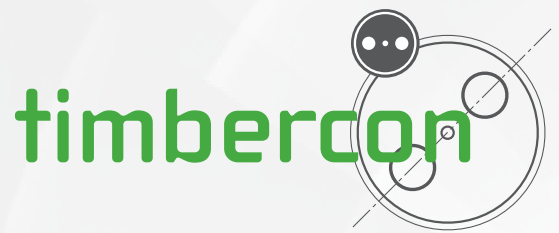


Stainless Steel PM Cables



Applications

- Specialty Photonics
- Telecommunications
- Sensing

Features

- Ruggedized construction
- Precision terminations
- Actively or visual alignment
- Slow, fast or custom axis alignment
- High extinction 25-31 dB
- UPC and APC polish
- Multiple connector options
- Standard wavelengths: 460nm, 480nm, 630nm, 780nm, 850nm, 980nm, 1060nm, 1300nm, 1310nm, 1550nm

Benefits

- Increased durability
- Low insertion loss
- Precise axis alignment
- Precise optical performance
- Customizable

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
3mm Length Tolerance	900um	Kevlar	Stainless Steel
	<1m: +5cm / -0cm		
	1m - 10m: +10cm / -0cm		
	>10m: +2% / -0%		

Overview

Timbercon stainless steel PM (Polarization Maintaining) Cables incorporate traditional cable assembly design with flexible stainless steel jacketing, making the product ideal for use in exposed cable routing and industrial device connection. Also for applications where crush resistance, bend radius, and pull strength are a concern. Additionally, ruggedized PM cable assemblies can be pig-tailed to active devices or used in traditional PM cable assembly applications.

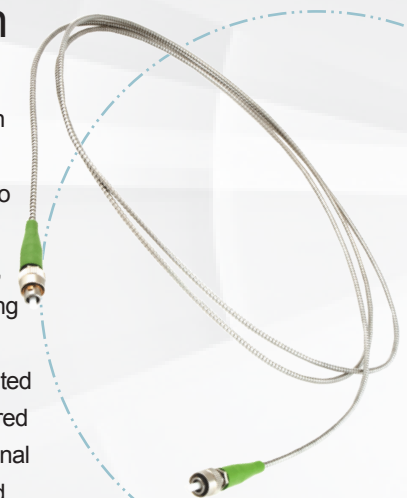
Timbercon ruggedized PM cable assemblies are available with active or visual alignment on fast, slow and custom axis. Connector configurations include ST, FC, LC and associated hybrid connector combinations with Panda fiber from 460nm to 1550nm.

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	≤ 12dB	≤ 3dB	≤ 1dB	≤ 1dB	≤ 1dB
Temperature Range Operating	-40°c to 85°c									

About Timbercon

Timbercon, Inc., founded in 1997, is a fiber optic product and solution manufacturing company providing a variety of connectivity solutions to the defense, aerospace, medical, data storage, telecommunications, industrial, broadcast and networking industries. In addition to standard fiber optic assemblies and attenuated loopbacks, Timbercon has pioneered many proprietary products. Additional company information can be found at www.timbercon.com.



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