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Visible Wavelength RGB (Red, Blue & Green) Polarization Maintaining (PM) 1×2 and 2×2 Fiber Optic Couplers, Taps & Optical Signal Splitters

Gould's truly fused Visible Wavelength RGB (Red, Blue & Green) polarization maintaining (PM) 1×2 and 2×2 fiber optic couplers, Taps and Optical signal splitters offer high extinction ratio (ER) with polarization launch into a single or dual axis (Slow axis & Fast axis). Gould utilizes our proven Fused Biconical Taper (FBT) process to manufacture high grade polarization maintaining couplers. Our PM Components offer high extinction ratio with minimum optical loss. Gould utilizes PM fiber from different suppliers to accommodate your application specific operating wavelengths.

Our Visible Wavelength PM Couplers are manufactured mainly using Panda fiber which guarantees a high polarization extinction ratio (PER). Operating wavelengths range from 460 to 600nm and Coupling ratio offerings range from 50/50, 20/80, 10/90, 5/95 & 1/99 etc. These components are available in several mechanical packaging with connector options FC/PC, FC/APC etc.

Please [contact our sales department](#) for PM couplers with custom wavelengths or fiber types.

Features

- Low Optical Loss
- Low Back-Reflection
- Small Size
- High Extinction Ratio (ER) With Polarization Launch Into a Single or Dual Axis (Slow & Fast)
- Very Low Polarization Dependent Loss (PDL).
- Made in U.S.A. on Gould's Proven High Reliability Fused Biconical Taper (FBT) Process

Applications

- Defense
- Gyroscope
- Telecom
- Medical
- Sensors

Optical Specifications for Visible Wavelength RGB (Red, Blue & Green) Polarization Maintaining (PM) Fiber Optic Couplers (460nm to 600nm) PM 460-HP Fiber.

[Request a Quote »](#)

High Grade Polarization Maintaining (PM)

Visible RGB Polarization Maintaining (PM)

Red to near IR Polarization Maintaining (PM)

Pure Silica Fiber Polarization Maintaining (PM)

PM Micro Fused 125µm and 80µm Clad Fiber

Ultra broad band PM

Eye Safe 2000nm

Damp-Heat Harsh Environment Resistant

Subzero wide operating temperature range

Polarization Maintaining (PM) Planar Waveguide Splitters

Quality

Gould Fiber Optics is ISO 9001:2015 Certified, ITAR registered, Telcordia GR-1209 and GR-1221 compliant for product qualifications and ROHS compliant.

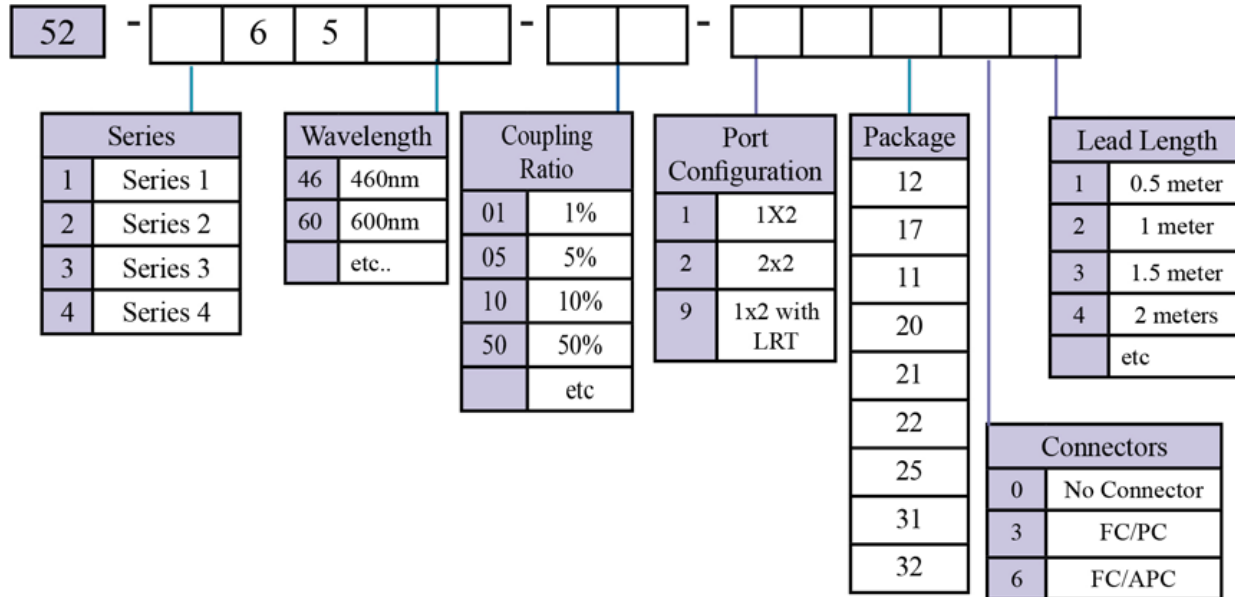
[View Quality page»](#)

Optical Specifications					
	Series 1,	Series 2	Series 3	Series 4	
Axis	Dual Axis (Slow & Fast)		Single Axis (Slow)		
Min. ER	20	18	20	18	
Typical EL*	<0.5	<0.8	<0.5	<0.8	
Operating Temperature (°C)	0 To 70				
Storage Temperature	-40 TO +85 °C				
Thermal Stability	<= 0.3dB				
Insertion Loss (IL) dB					
Coupling Ratio (CR)	50/50	3.8	4.0	3.8	4.0
	20/80	8.1/1.7	8.3/1.9	8.1/1.7	8.3/1.9
	10/90	11.6/1.2	11.8/1.4	11.6/1.2	11.8/1.4
	5/95	15.1/0.8	15.3/1.0	15.1/0.8	15.3/1.0
	1/99	23.5/0.6	23.7/0.8	23.5/0.6	23.7/0.8

- *The lead length = 0.5m only, without connector
- For lead length >= 1m, add 0.1dB to Max. IL specs each 0.5m longer. eg. add 0.3dB for 2m leads, add 0.5dB for 3m leads.
- Insertion Losses for Dual-Axis series are tested only at slow axis, and thus use the same specifications as Single-Axis series.

Ordering Information for Visible Wavelength RGB (Red, Blue & Green) Polarization Maintaining (PM) Fiber Optic Couplers (460nm to 600nm) PM 460-HP Fiber.

Product #:



**** Click here for Product Packaging details**

Specifications are based on non-connectorized products. For connectorized specifications, please contact sales for details. Custom optical & mechanical configurations are available upon request.

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