

PIGTAIL STYLE LASER TO FIBER COUPLERS

FEATURES:

- Rugged, Compact, Stable Design
- Low Backreflection
- Low Cost
- Environmentally Stable
- Excellent Coupling Efficiency
- Excellent Polarization Maintaining Capabilities
- Wide Wavelength Ranges
- Adjustable Output Power

APPLICATIONS:

- Interferometric Sensors
- Medical, Pharmaceutical, and Chemical Sensors
- Fluorescence Measurements
- Spectroscopy
- Laser Shows/Entertainment
- OEM Laser Systems

SPECIFICATIONS:

•	Coupling Efficiency:	Typically >60% into Singlemode or Polarization Maintaining fibers, >80% for Multimode fibers
•	Backreflection Levels:	Typically -25dB for Physical Contact style, -40dB for Non- Contact style60dB versions are also available
•	Polarization Extinction Ratios:	>20dB 25dB and 30dB versions are also available
•	Available Wavelengths:	180 - 2000nm
•	Power Handling:	>1 Watt CW for GRIN lenses, >10 Watts CW for aspheric ler

>10 Watts CW for aspheric lenses,
>10 Watts CW for aspheric lenses
>5 Watts CW for achromats
>100 Watts CW for fused
silica or sapphire plano-convex
and biconvex lenses





PRODUCT DESCRIPTION:

Pigtail style source couplers are recommended for permanent or semipermanent situations, where optimum coupling efficiency, output stability, and minimum backreflection are desired. In these couplers the fibers are permanently glued to the focusing lens. The fiber-lens assembly is then inserted into the tilt adjustment flange, and held in place with two radial set screws.

Because the fiber is permanently attached to the lens, the fiber cannot be replaced without also replacing the coupling lens.

Pigtail style couplers are manufactured in both contact (LPSC-01) model and non-contact (LPSC-03) model versions. For contact style pigtailed couplers, the backreflection level is typically -25dB. In the case of non-contact style couplers, the internal endface of the fiber is polished at an angle to reduce backreflection. Non-contact pigtail style couplers are available with up to -40dB or -60dB backreflection levels.

09/99 OZ Optics reserves the right to change any specifications without prior notice.



Note: Add "-ER=30" or "-ER=25" to the part number for 30dB or 25dB extinction ratios (For 1300nm and 1550nm only). Add "-BL" to the part number if a manually adjustable attenuator is to be added.

NOTE:

To determine the best laser to fiber source coupler for your application please complete a Laser to Fiber Delivery System Questionnaire. OZ Optics will then recommend a coupler based on your response.

Unit prices range from \$250USD to \$400USD for typical applications with delivery being from stock to within 2 weeks of receiving your order. Quantity discounting and blanket orders can be arranged. Contact OZ for more information.