



OZ Optics

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LASER TO FIBER COUPLERS WITH RECEPTACLES (PHYSICAL CONTACT STYLE)

FEATURES:

- Low Cost
- Easy to Install and Adjust
- Rugged, Compact, Simple Design
- Good Coupling Efficiency
- Different Connector Receptacles
- Adjustable Output Power
- Wide Wavelength Ranges

APPLICATIONS:

- Interferometric Sensors
- Laboratory Applications
- Education and Training
- Visual Laser Alignment for Manufacturing
- Medical, Pharmaceutical and Chemical Sensors
- Fluorescence Measurements
- OEM Laser Systems
- Laser Shows/Entertainment

SPECIFICATIONS:

- Coupling Efficiency: Typically >55% for singlemode and polarization maintaining fibers, >80% for multimode fibers
- Backreflection Levels: Typically -25dB
- Polarization Extinction Ratio: Typically 20dB
- Available Wavelengths: Optimized for 488, 514, 532, 543, 633, 830, 1300, 1550 and 1625nm
- Power Handling: Up to 250mW for 633-1550nm
Up to 10mW for 488-543nm



PRODUCT DESCRIPTION:

Physical contact source couplers are the most economical type of laser to fiber source couplers. A Graded Index (GRIN) lens is used to focus the light into the fiber. The fiber is butted directly against the endface of the lens thus ensuring that the laser beam is properly focused onto the end of the fiber. A special version is available for use with unterminated (bare) fibers.

By using index matching gel on the end of the fiber, backreflection levels are reduced to -25dB. This technique should only be used for low power lasers and 633-1625nm wavelengths. Gel is not recommended for 488-543nm wavelengths. The couplers are optimized for a specific wavelength which is specified when ordering. Backreflection is approximately -15dB when gel is not used.

ORDERING INFORMATION:

HUC-1X-W-F-f-LH

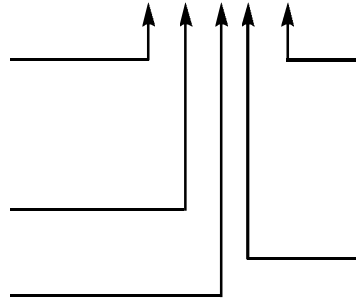
Receptacle Code:

1 for Bare Fibers
 3 for FC, Super FC or Ultra FC
 8 for AT&T-ST, Super ST or Ultra ST
 5 for SMA 905

See Table 6 of the Standard Tables for other receptacles.

Wavelength: Specify in nanometers
 (Example: 633 for 633nm)

Fiber Type: M for Multimode
 S for Singlemode
 P for Polarization Maintaining



Laser Head Adaptor:

1 = 1"-32TPI Male Threaded Adaptor
 2 = Disk Adaptor with 4 holes on a 1" square
 11 = Post Mount Adaptor

See Table 8 of the Standard Tables for other adaptors.

Lens Type:

1.8GR for beam sizes < 0.5mm
 2.6GR for beam sizes between 0.5mm and 1mm

Use Non-contact style couplers for beam sizes larger than 1mm.

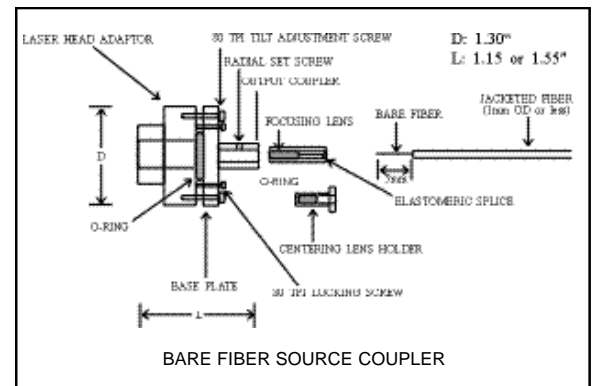
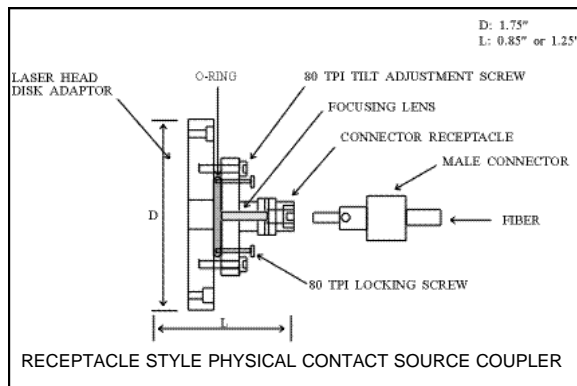
Note: Add -BL to the part number if a manually adjustable attenuator is to be added.

STANDARD COUPLERS:

OZ Optics Part Number

Bar Code Number

HUC-13-633-S-1.8GR-1	3785
HUC-13-633-S-1.8GR-2	3786
HUC-13-633-S-2.6GR-1	3787
HUC-13-633-S-2.6GR-2	3788
HUC-15-633-M-2.6GR-1	3789
HUC-15-633-M-2.6GR-2	3790
HUC-18-633-S-2.6GR-1	3791
HUC-18-633-S-2.6GR-2	3792



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 \$100USD to \$230USD for standard items 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.