



# OZ OPTICS LTD.

219 WESTBROOK RD, CARP, ON, CANADA, K0A 1L0 TEL: (613) 831-0981 FAX: (613) 836-5089 E-MAIL: sales@ozoptics.com WEB SITE: www.ozoptics.com

## HIGH POWER LASER TO FIBER COUPLERS WITH TEMPERATURE CONTROL

### FEATURES:

- Very High Power Handling
- High Resolution
- Wide Range of Lenses
- Rugged, Stable Design
- Built-In Peltier Cooler and Fan
- Temperature Sensor and Safety Interlock

### APPLICATIONS:

- Laser Welding and Cutting And Marking
- Medical, Chemical, and Pharmaceutical Sensors
- High Power Laser Physics
- High Power Spectroscopy
- OEM Laser Systems

### SPECIFICATIONS:

- Coupling Efficiency: Typically >55% for singlemode and polarization maintaining fibers, >80% for multimode fibers
- Backreflection: -14dB for receptacle style couplers using flat finish connectors  
-60dB for receptacle style couplers using angle finish connectors  
-40dB or -60dB for pigtailed source couplers
- Polarization Extinction Ratio: >20dB  
25dB, 30dB versions are also available
- Available Wavelengths: 180 - 2000nm
- Power Handling: Up to 5 Watts CW for singlemode applications  
Over 100 Watts CW for multimode applications. Contact OZ for Pulsed Laser power handling specifications



### ORDERING INFORMATION:

#### HPUC-2X-W-F-f-LH-TE

##### Receptacle Code:

3 for FC, Super FC or Ultra FC  
3A for Angled FC/PC  
3AF for Flat Angled FC  
5 for SMA 905  
8 for AT&T-ST  
8U for Ultra AT&T-ST  
SC for SC

See Table 6 of the Standard Tables for other connectors.

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

##### Laser Head Adaptor:

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

See Table 8 of the Standard Tables for other adaptors.

Lens ID: See Lens Selection Guide 3 for Non-Contact couplers with receptacles in the Laser to Fiber Coupler Application Notes

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

Add - DR to the part number if a TE driver is required.

Add - PS to the part number if a Power Supply is required.