

ACTIVE POLARIZATION MODULES

**Fully Connectorized Polarization Controller - PolaRITE™
(PLC-004/005)**



This is a fully connectorized polarization controller that comes with either male (PLC-005) or female (PLC-004) connectors, thus eliminating the headaches of fiber pigtailed. Customers can use the bulkhead connectors of their choice. Although the unit comes with FC type connectors, it can interface with ST and SC type connectors with industry standard FC/ST or FC/SC adapters. The device is especially suitable for interconnecting polarization maintaining (PM) fibers using standard connectors without having to align the birefringent axes of the PM fibers. Optional scales allow easy replication of earlier settings, a feature highly desirable in laboratories for repeating polarization adjustments.

Specifications:

Insertion Loss	< 0.5 dB with connectors
Return Loss	> 55 dB for APC connectors, > 45 dB for PC connectors
Operating Wavelength ¹	480 nm, 633 nm, 780 nm, 820 nm, 980 to 1310 nm, 1260 to 1650 nm
Extinction Ratio	> 40 dB
Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 85 °C
Dimensions	4.00" (L) x 1.00" (W) x 1.09" (H)

Notes:
1. 1260 to 1650nm and 980 to 1310 nm are the standard wavelength ranges for this product. Please contact General Photonics for information on other wavelength options.

Features:

- Low loss
- Low back reflection
- Compact
- Easy to connect
- Low cost
- Insensitive to wavelength variations

Applications:

- High speed telecommunications systems
- WDM systems
- CATV systems
- Fiber laser
- Fiber sensor systems
- PM fiber systems
- Antenna remoting systems

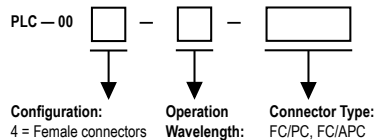
Related Products:

- Polarization Controller (PLC-003/006, PLC-002/M02)
- Components

Tech Info:

- What is Polarization?
- Polarization in Fiber Systems: Squeezing out More Bandwidth
- PolaRITE™ Polarization Controllers Application Note

Ordering Information:



- Configuration:**
4 = Female connectors
5 = Male connectors
- Operation Wavelength:**
1 = 480 nm
2 = 633 nm
3 = 780 nm
4 = 820 nm
6 = 980 - 1310 nm*
7 = 1260 - 1650 nm
- Connector Type:**
FC/PC, FC/APC

Notes
*This fiber can handle wavelengths up to 1650nm, but if it is coupled to SMF-28 fiber, the performance may not be quite as good as normal due to mode mismatch.

Dimensions (in inches):

