

# FIBER POLARIZATION CONTROLLER FPC-1



FIBER CONTROL INDUSTRIES polarization controller's unique user-friendly design utilizes stress-induced birefringence to alter and control the state-of-polarization of light in single-mode fibers. Each paddle acts as a fractional waveplate. Complete coverage of the Poincaré sphere and polarization control is provided by adjusting the angles of the paddles.

The multiple channel diameters were designed to maximize end-user flexibility over a variety of wavelengths and applications. Originally patented at Stanford University by Hervé C. Lefèvre, this product is fully licensed.

## *Immediate Delivery*



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# ☆☆ FULLY LICENSED ☆☆

## FEATURES:

- Easy top-down fiber loading with paddles in locked position (no tools required)
- Dual diameter channels in each paddle broaden the wavelength operation of one fiber type
- Accommodates both 900 µm buffer and 250 µm bare fiber
- Sure grip pliable caps easily secure fiber in paddles
- Small footprint, lightweight design
- Multidirectional placement on optical table with 1/4" x 20 or M6 screws
- Smooth adjustable rotation

- Inserts quickly into fiber-based systems without splicing
- Multiple color paddles enhance identification for WDM

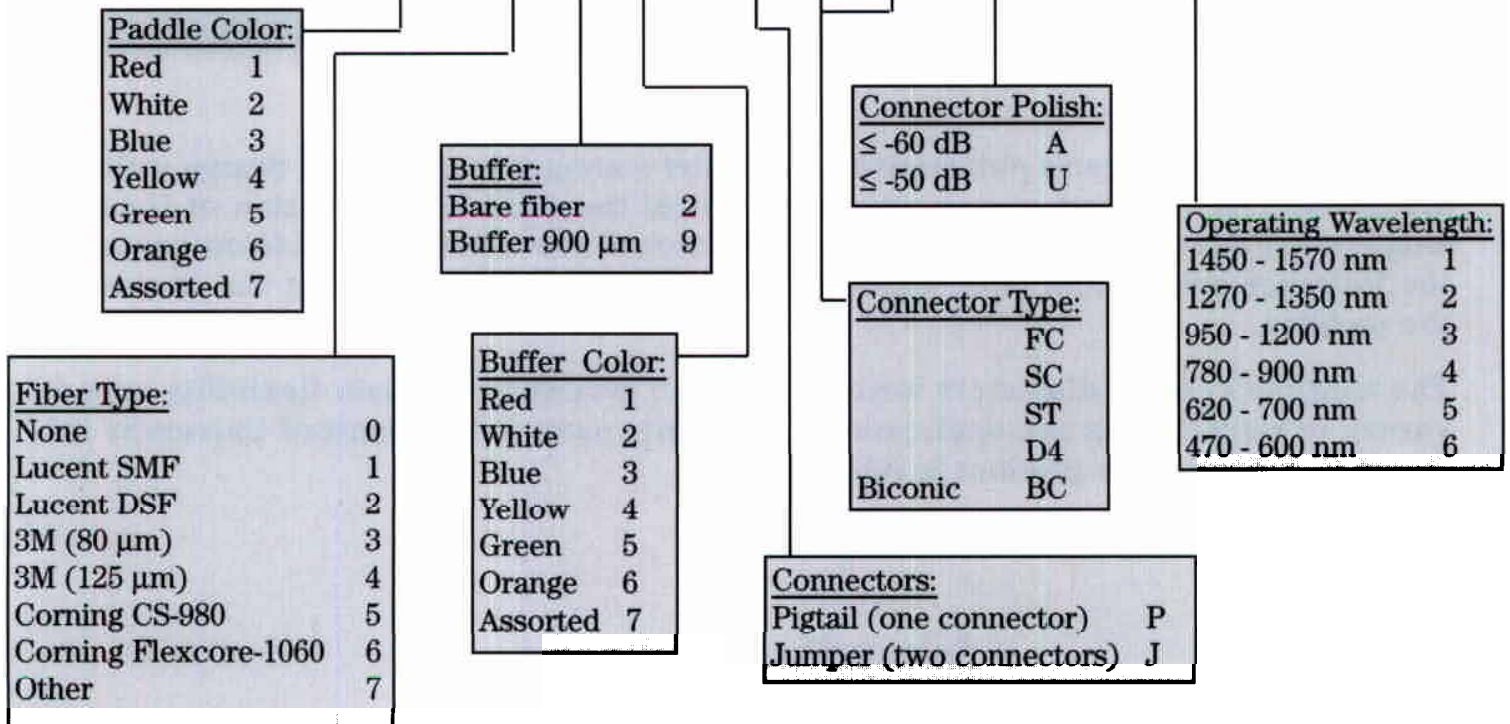
## SPECIFICATIONS:

- Extinction Ratio (typical) 35 dB<sup>†</sup>
- Insertion Loss (typical) ≤ 0.1 dB<sup>†</sup>
- PDL (typical) 0.003dB
- Footprint Dimensions: 1.0" x 5.9"  
25.4 mm x 150 mm
- Broadband operation: 500 nm to 1600 nm

<sup>†</sup> measured with Lucent SMF, two loops outer channel, at 1550 nm

*When ordering, select from the option tables below:*

**FPC - 1 - - - - - PC -**



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