



## APPLICATIONS

- Equipment Bulkheads
- Equipment Patch Panels
- Repairing Damaged Fiber Cables
- Joining Dissimilar Fiber Cores/Jackets for Specific Design Solutions
- Utilizing Short Fiber Lengths

## DESCRIPTION

The 51 0240/51 0241/51 0242 fiber connector is designed specifically for industry standard 1000  $\mu\text{m}$  core plastic communication fiber optic cable with a jacket of 2.2 mm O.D. It provides the versatility required to join and rejoin fiber cable segments accurately and reliably, like standard ferruled fiber connections do. This multipurpose connector uses the same attachment as the IFO LED and photodetector products, which means quick and easy assembly without the need for fiber ferrules or polishing.

The connector can be used with index-matching gel, for reducing Fresnel reflection losses, or without gel for quick and easy connections. The 51 0241 and 51 0242 models both include a thin nut for attachment in bulkhead and panel mount applications. The 51 0240 model is for basic fiber connections or splices and does not include a mounting nut. The 51 0242 model has a straight 2.2 mm bore which eliminates the requirement that the jacket be stripped. 51 0240, 51 0241 and 51 0242 are direct replacements for IF CS2, IF CS3 and IF CS4.

## FIBER CABLE

- ◆ Operating Temperature Range:  $-40^{\circ}$  to  $85^{\circ}\text{C}$
- ◆ Light-Tight Housing Provides Interference-Free Transmission
- ◆ Precision Machined 1000  $\mu\text{m}$  Optical Core/Core Sleeve
- ◆ Non-Permanent Connection
- ◆ Mates with All Standard 1000  $\mu\text{m}$  Core, 2.2 mm Jacketed POF
- ◆ No Internal Optics or Design Required
- ◆ Cinch Nuts Retained on Connector by Snap Fit
- ◆ Double "D" Anti-Rotate Feature
- ◆ Economically Priced
- ◆ Other Fiber Core/Jacket Diameter Options Available As Special Order
- ◆ RoHS Compliant

## INSTRUCTIONS

1. Cut off the end of the first optical fiber cable with a single-edge razor blade or sharp knife. Try to obtain a precise 90-degree angle (square).
2. Use a stripping tool to remove 4.5 to 5 mm [0.18" to 0.20"] strip length. (Not required for 51 0242).
3. (Optional) Dip the end of the fiber into index-matching gel.
4. Insert the fiber cable through the cinch nut and into the connector until the jacket seats.
5. Screw the cinch nut down to a snug fit, securing the fiber into place.
6. Repeat for second fiber cable.

