

Philtec Application Note

Connectorized Fiberoptics

Option B ... In-Line Connectors

In-line connectors permit removal and/or replacement of sensor tips. Fiber bundles are segregated at the connector interface. The connectors are pinned for accurate alignment and have a diameter of 9.53, 10.7 or 12.7 mm (3/8, 7/16 or 1/2 inch) depending upon the model number and cable sheathing options chosen. Specify **Option B** to order in-line connectors.



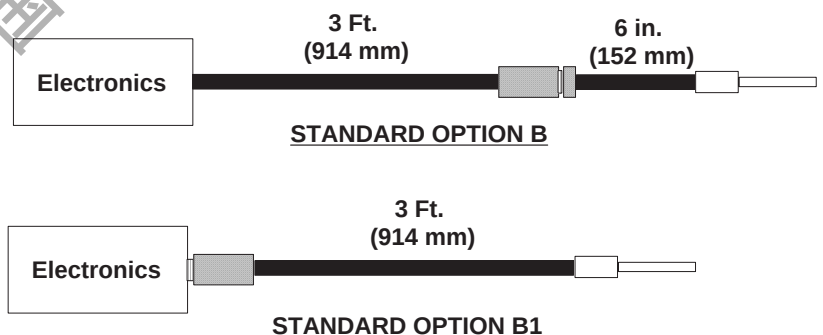
Option B1 ... Bulkhead Connectors

Bulkhead mounted connectors allow for removal of the entire fiber-optic cable from the electronics. These are provided by specifying **Option B1**.



Advantages of Connectorized Fiberoptics

- Easy replacement of damaged tips
- Substitution of alternate tips
- Disconnect from the sensor electronics



NOTE: Tradeoffs to consider with connectorized fiberoptics are reductions in sensor bandwidth capability and slightly elevated noise ripple (2x to 3x higher than normal). The factory should be consulted to determine the suitability of connectorization for demanding applications. We do not recommend more than one in-line connector per sensor system.

PHILTEC

Fiberoptic Sensors for the Measurement of Distance, Displacement and Vibration