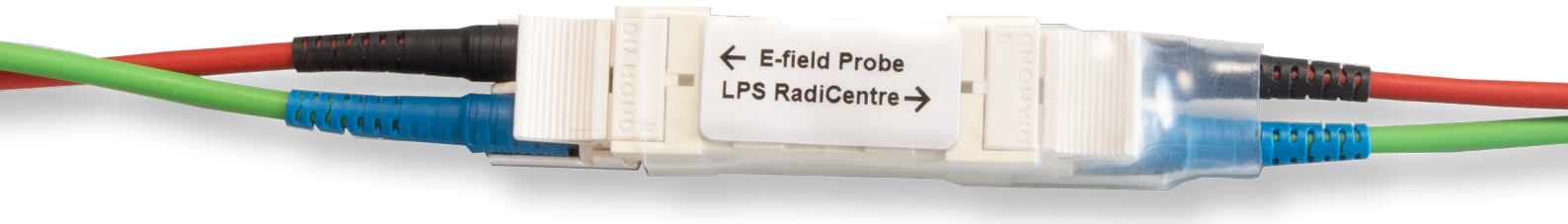
raditeq

Installation Guide

FO Connector Saver Assembly

RadiSense® Fibre Optic Connector Saver | E2000

Model: CPL2001E



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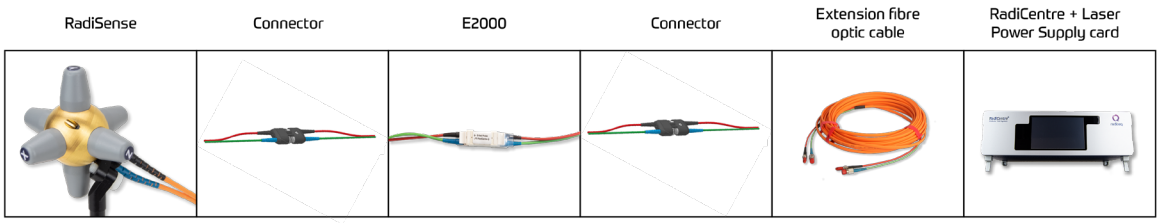
E2000 FO Connector Saver Assembly

The CPL2001E connector saver assembly for the Laser powered E-field probe RadiSense® series is designed to enhance the durability of fibre optic connections in environments where frequent repositioning and disconnecting is required. When RadiSense sensors are regularly disconnected from their standard ST/FC or FSMA/FC connectors, there is an increased risk of contamination from debris, which can affect performance or cause damage. This is especially important if users are inexperienced in handling fibre optic cables. The E2000 connector addresses this issue with a built-in protective beam shutter that automatically closes over the fibre core upon disconnection. This safeguards the sensitive fibre optic core from dust and debris. The connector saver assembly thus ensures reliable connections without having to worry about proper fiber connector handling.

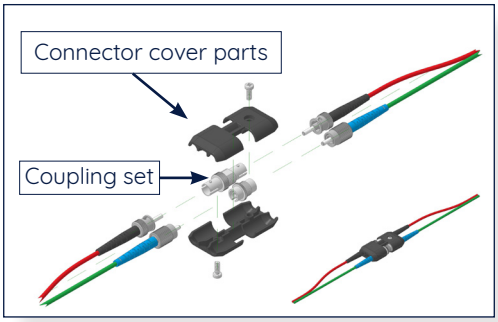
Connection method

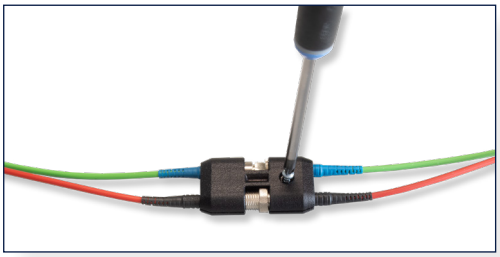


How to connect the assembly?

To connect the E2000 FO connector saver assembly to the RadiSense® probe, first connect the FC and ST connectors to the coupling set. Do this on the side of the extension fibre and the side of the RadiSense® probe. After connecting the cables take the supplied connector covers and place these over the coupling set as illustrated in the pictures on the right. Use the supplied screws (Pozidrive PZ1) to interconnect the two cover parts.

The cover parts are intended to prevent disconnecting the FC and ST connectors instead of the E2000 connector.

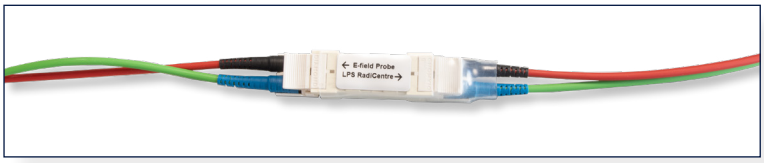




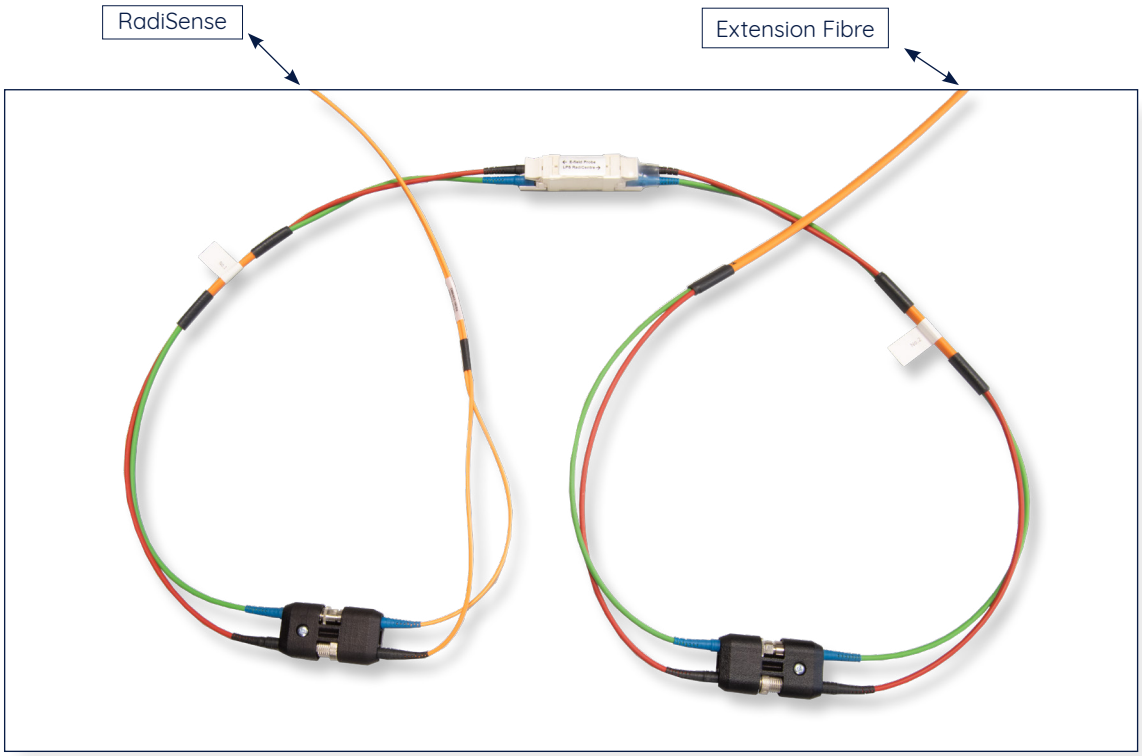
When to use the E2000 FO connector saver assembly?

Once the E2000 connector saver assembly is mounted correctly, the user can easily connect and disconnect the RadiSense® probe by disconnecting the E2000 connectors.

The E2000 Connector saver assembly is required in case the fiber optic connectors are disconnected on a daily basis and at the same time, the user is not experienced or properly instructed to work with sensitive fiber optic connectors.



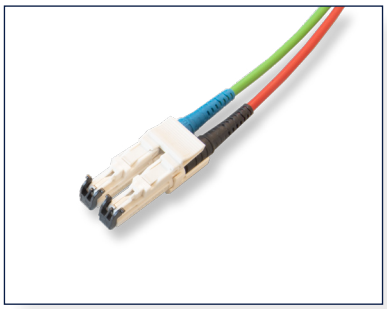
Complete Connector Saver Assembly

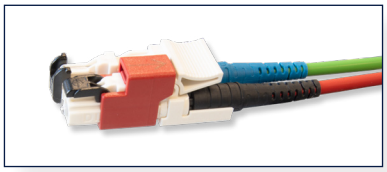


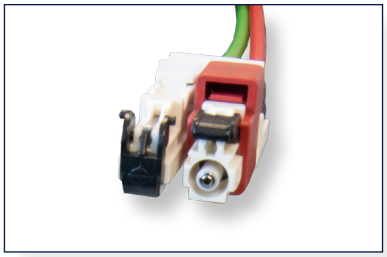
Cleaning instructions for the E2000 optic fibre core

Although the E2000 connector has an automatic beam shutter, the fiber core may still become contaminated.

1. Disconnect the E2000 connector.
2. Attach the cleaning tool (RED) to the connector as show in the picture. This will open the beam shutter and expose the optical fibre core for cleaning.
3. Clean the fibre core using the lint-free Electrowipes provided with the RadiSense kit.
4. Check if the core is properly cleaned.*
5. Remove the cleaning tool







*The fibre core can be checked for its integrity by using an fibre optic inspection camera. Ask the local reseller for help and/or further instructions.