

Cables and Plugs


Firecomms[™]
enlightened innovation

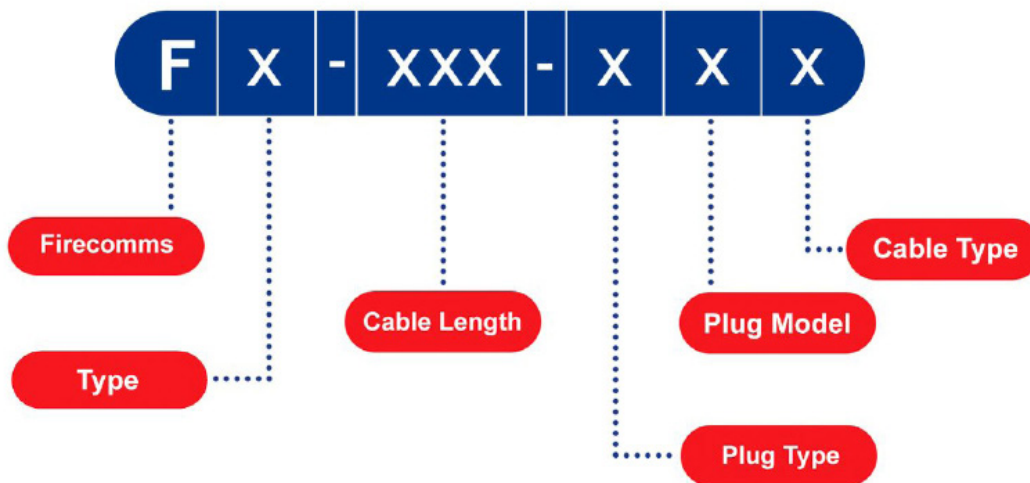


Welcome to the Firecomms world of POF

Accelerating the evolution of machine communication

Firecomms offers a range of high quality POF cables, LC plugs, and pre-assembled patch cords in both LC and RedLink® styles, suitable for use with Firecomms' range of transceivers and other industry-standard products.

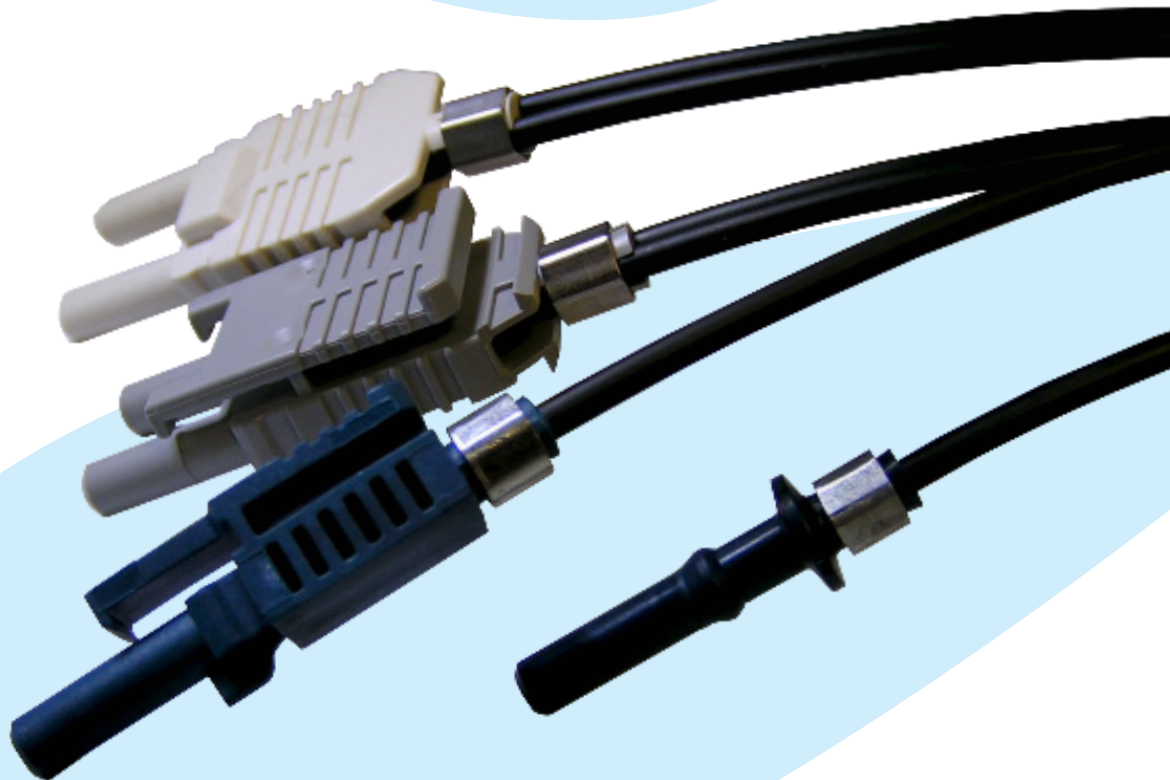
In order to save your time and increase your Firecomms' product knowledge, we have designed an intuitive table explaining our product codes.



Cables and Plugs Product Range

Accelerating the evolution of machine communication

Plastic Optical Fiber (POF)
Cable Assemblies
LC Plug
Simplex Friction Plug (no latch)
Simplex Sealed Friction Plug (no latch)
Crimless Friction Plug
Simplex Latching Plug
Duplex Latching and Non-Latching Plug
SMI Passives



Plastic Optical Fiber (POF)

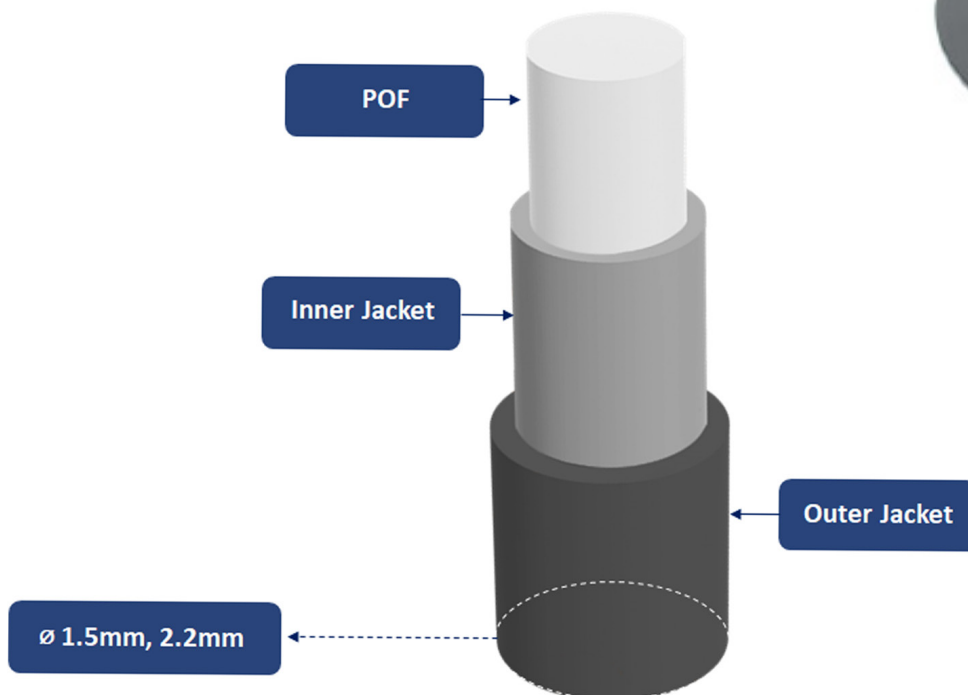
POF cable is delivered on reels for convenience when installing runs of cable into equipment or buildings, making harness assemblies, or making custom length patch cords in small quantities. Both simplex and duplex cables are available.

FEATURES

- Flameproof to UL grade VW-1
- Available in reels for on-site installation, or for making complex harnesses
- Compatible with IEC 60793-2-40 Class A4a standard

APPLICATIONS

- Data communication where extreme immunity to EMI is required
- Links between equipment that requires electrical isolation to be maintained



Cable Assemblies

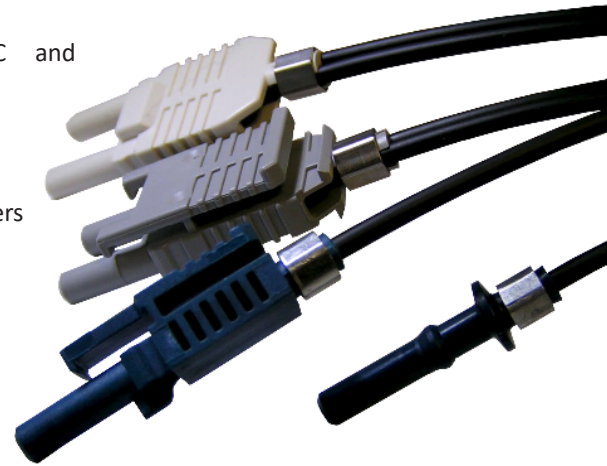
Firecomms patch cords are available in a convenient range of lengths for use with RedLink® or Versatile Link transmitters and receivers, and LC transceivers.

FEATURES

- Cost-effective, rugged optical links
- Cable suitable for use with Firecomms transceivers, including RedLink®, LC and OptoLock®
- Compatible with IEC 60793-2-40 Class A4a standard
- LC plugs available for easy cable termination
- Patch cords in a variety of convenient standard lengths
- Compatible with Versatile Link connectors and fiber optic transmitter and receivers

APPLICATIONS

- Data communication where extreme immunity to EMI is required
- Links between equipment that requires electrical isolation to be maintained
- Rugged links in hostile environments



LC Duplex with latch



RedLink® Simplex no latch



RedLink® Simplex with latch



RedLink® Duplex no latch



RedLink® Duplex with latch

LC Plug

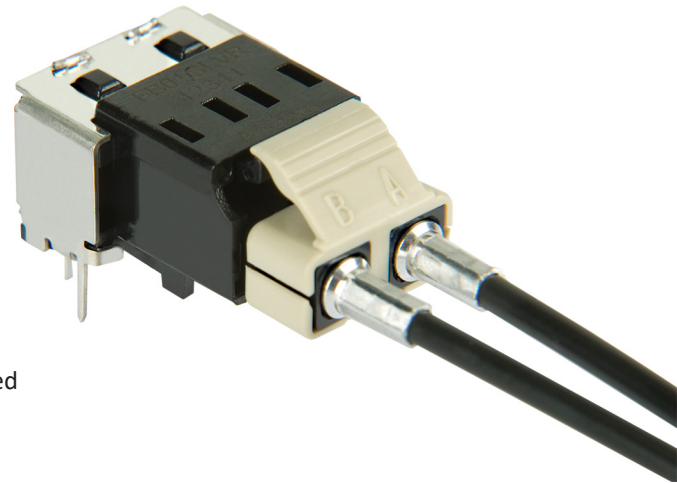
Firecomms LC plugs can be assembled easily onto a plastic optical fiber (POF) duplex cable to prepare it for use with Firecomms LC transceivers. The LC system offers a compact termination ideal for applications requiring robust plug retention and endurance against vibrations and mechanical shock.

FEATURES

- Cost-effective, rugged optical links
- Cable suitable for use with Firecomms LC transceivers only
- Compatible with IEC 60793-2-40 Class A4a standard
- LC plugs available for easy cable termination
- Patch cords in a variety of convenient standard lengths

APPLICATIONS

- Control links within high voltage electrical control equipment
- Links between equipment that requires electrical isolation to be maintained
- Rugged links in hostile environments



Simplex Friction Plug (no latch)

The Firecomms simplex friction plug offers a fast and secure link providing a moderate retention force using plastic optical fiber (POF). The simplex friction plug is available in both grey and blue colours, and it is compatible with horizontal, vertical and tilted housings.

FEATURES

- Cost-effective, rugged optical links
- Compatible with RedLink® and Versatile Link fiber optic transmitters and receivers



2.2 mm Blue friction simplex plug and crimp ring with 1 mm POF core



Simplex Sealed Friction Plug (no latch)

The simplex sealed friction plug is used to implement easy-to-use and secure links using plastic optical fiber (POF). A key feature of the plug is the added rubber seal that provides protection against the ingress of external fluids or particulates that may contaminate the optical surfaces of the fiber facet and active components..

FEATURES

- Cost-effective, rugged optical links
- Rubber seal provides added link protection from ingress of dirt, dust and fluids
- Compatible with RedLink® and Versatile Link fiber optic transmitters and receivers



Crimless Friction Plug

The Firecomms crimpless plugs are for use with standard 1 mm core with 2.2 mm plastic optical fiber jacketing.

This series of connector was designed with ease of use in mind. The simple latching function securely fixes POF cable to the plug without the need for a crimp tool. This flexibility allows for a reduction in labor and associated cost.

This series of connectors are compatible with RedLink® or Versatile Link transmitters and receivers.

FEATURES

- Cost-effective, rugged optical links
- Easy cable termination with no crimp tool
- Compatible with RedLink® and Versatile Link connectors, transmitters and receivers
- Simplex / duplex termination
- Compatible with 2.2 mm POF
- Industrial temperature range

APPLICATIONS

- Control links within high voltage electrical control equipment
- Data communication where extreme immunity to EMI is required
- Links between equipment that requires electrical isolation to be maintained
- Rugged links in hostile environments
- Power electronics

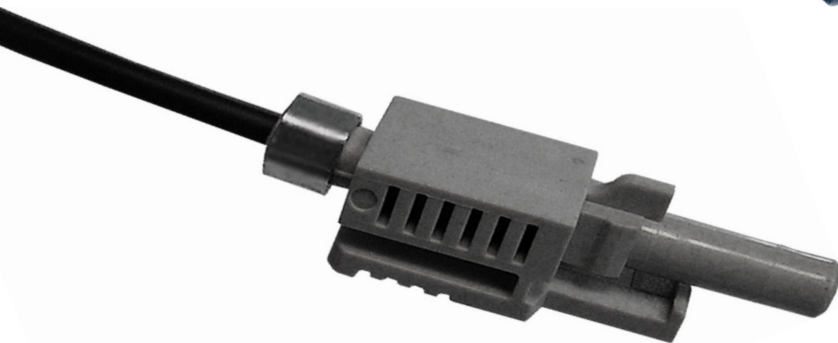
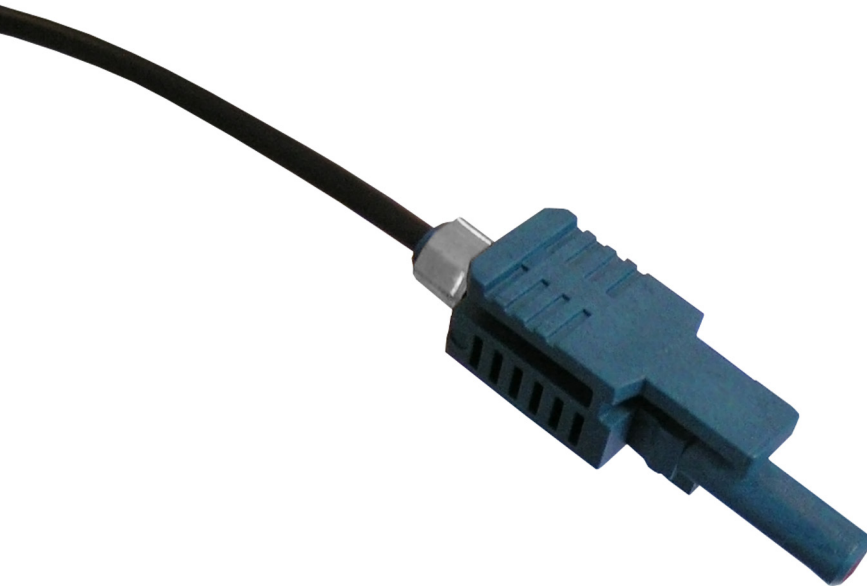


Simplex Latching Plug

The Firecomms simplex latching plug offers robust performance for applications requiring high retention force. The latching mechanism provides a securely mated fit once inserted into a RedLink® connector. Applying pressure to the rear of the plug releases the latching mechanism. This allow for easy removal of the plug from the connector. The simplex latching plug is available in both grey and blue colours.

FEATURES

- Cost-effective, rugged optical links
- Compatible with IEC 60793-2-40 Class A4a standard
- Compatible with Versatile Link connectors and fiber optic transmitter and receiver



Duplex Latching and Non- Latching Plug

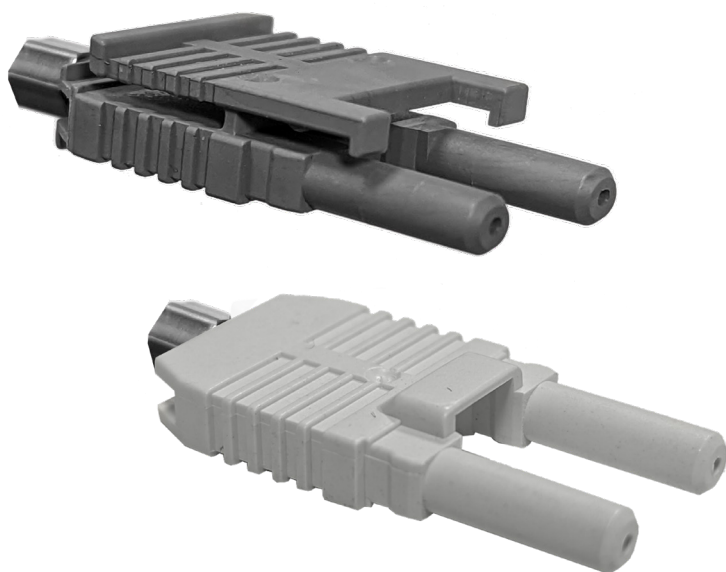
The Firecomms duplex latching and non-latching plugs offer robust performance for applications requiring high retention force. The plug is suitable for use with 2.2 mm Plastic Optical Fiber (POF).

FEATURES

- Cost-effective, rugged optical links
- Latching plug is suitable for applications with high vibration
- Compatible with RedLink® and Versatile Link fiber optic transmitters and receivers

APPLICATIONS

- Control links within high voltage electrical control equipment
- Data communication where extreme immunity to EMI is required
- Links between equipment that requires electrical isolation to be maintained
- Rugged links in hostile environments



SMI Passives

Firecomms SMI Plugs and passive Connectors provide both data and command and control connections for medical, industrial, consumer and end-user applications. This plastic optical fiber system provides high EMI/EMC immunity between devices, cabinets, and equipment. The fiber and plugs are a simple assembly suitable for field installation with a small form factor. The cable assemblies are robust tolerating a small bend radius in the fiber and harsh environmental conditions.

FEATURES

- Small form factor ideal for limited space
- The plastic material of both the plugs, fiber (PMMA) and passive interconnects are 100% immune to EMI/EMC and RFI providing the maximum immunity for control and data signaling
- Ideal for panel mounting
- Simple field termination
- Minimal post assembly polishing using standard grit paper

APPLICATIONS

- Medical; Data and video transmission, medical diagnostic equipment
- Transportation, Factory automation
- Power electronic control and isolation
- Industrial Networking

