Improve safety and protect equipment by upgrading to fiber-optic teleprotection links.

What Is IEEE C37.94?

Protect With Line Current Differential Relaying

**SEL-311L Line Current Differential Protection and Automation System**

Protect transmission with reliable communications links.

- Use the SEL-311L, SEL-387L, or the SEL-411L with an IEEE C37.94 fiber-optic interface and fiber-optic cable to connect to an SEL ICON™ or SEL-3094 Interface Converter.
- Complete pilot protection for primary and backup three-pole tripping schemes on transmission and subtransmission lines.

**SEL-387L Line Current Differential Relay**

Provide three-pole current differential protection with zero settings.

**SEL-411L Advanced Line Current Differential Protection, Automation, and Control System**

Provide complete protection and control of any transmission line.

Convert Electrical Interfaces to Optical IEEE C37.94 Interfaces

**SEL-3094 Interface Converter**

- Convert older electrical teleprotection interfaces to the new optical standard.
- Convert IEEE C37.94 noncompliant multiplexers or relays that have metallic communications interfaces.
- Use a pair of interface converters to connect two EIA-422 relays back-to-back for testing without a multiplexer.

Convert electrical ITU G.703, EIA-422, EIA-232, and EIA-485 links to optical IEEE C37.94 links.

Transfer Mirrored Bits® Communications Data for Teleprotection

**SEL-2894 Interface Converter**

- Connect any EIA-232 device to an IEEE C37.94 fiber-optic network.
- Apply the SEL-2894 to relays or multiplexers without an IEEE C37.94 interface.

Convert electrical EIA-232 to IEEE C37.94 optical links.
Transfer Contacts for Teleprotection

**SEL-2595 Teleprotection Terminal**
- Clear faults with high-speed (5.5 ms) teleprotection.
- Annunciate the status of digital I/O.
- Reduce electrical wiring.

Switch Optical Links for Breaker Bypass and Communications Failover

**SEL-2126 Fiber-Optic Transfer Switch**
- Preserve primary and backup protection communications during circuit breaker operations.
- Reroute multiple communications protocols with one transfer switch.
- Perform local or remote relay testing.

Wide-Area Communication for Teleprotection

**SEL-ICON Integrated Communications Optical Network**
- Provide IEEE C37.94 interface support via dedicated access modules.
- Combine SONET multiplexer and Ethernet switch capabilities in a single platform.
- Support other data formats, including EIA-232, EIA-422, EIA-485, EIA-530, and EIA-449.
# SEL Family of IEEE C37.94 Compatible Products

## Product Comparison

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## Mounting

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## Accessories

SEL-C807 and SEL-C808 Multimode 62.5 μm Core Fiber-Optic Cables

![ SEL-C807 and SEL-C808 ](image-url)