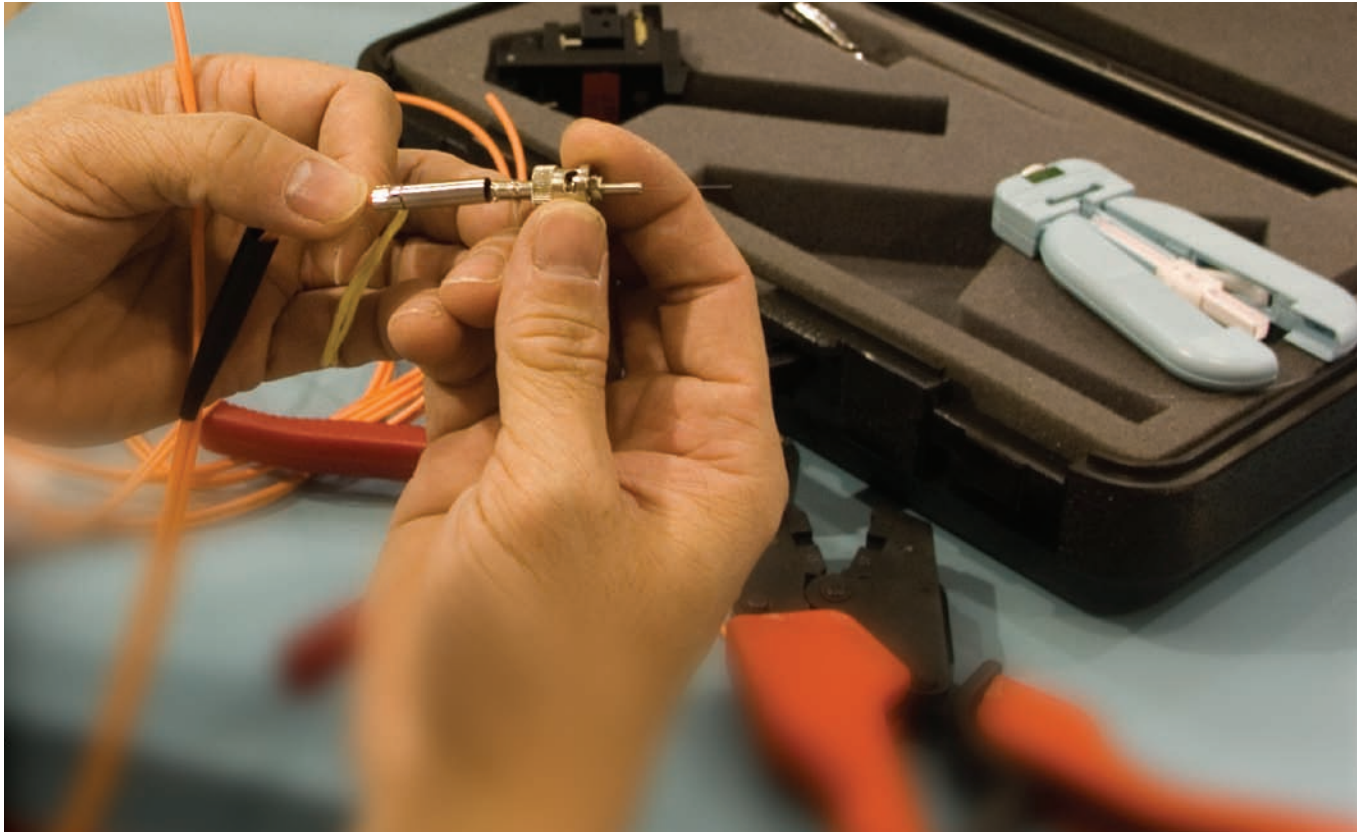




Quickly Terminate Fiber-Optic Cables On-Site



Create your own custom-length fiber with simple tools.

Features and Benefits

■ **Faster, More Economical Installation**

Save time by pulling unterminated cable. Terminate cables with ST® or V-pin connectors on-site in less than three minutes per end. Eliminate cable clutter and reduce material costs by building jumpers to exact lengths.

■ **Consistent, High-Quality Terminations**

Simply crimp and cleave for a high-quality termination every time, without the need for epoxy or polishing systems. Ease of use and repeatability are the best value in the industry.

■ **Durable HCS® Fiber Coating**

Get superior strength, reliability, and moisture resistance using Hard Clad Silica (HCS) fiber, which has a low-loss silica core clad with a high-strength polymer coating.

Making Electric Power Safer, More Reliable, and More Economical®

Simple Termination Process

SEL fiber-optic cable termination kits provide the tools to create custom-length fiber terminations in the field. The simple, fast, and repeatable process yields high-quality terminations every time.

ST Connector Termination Steps

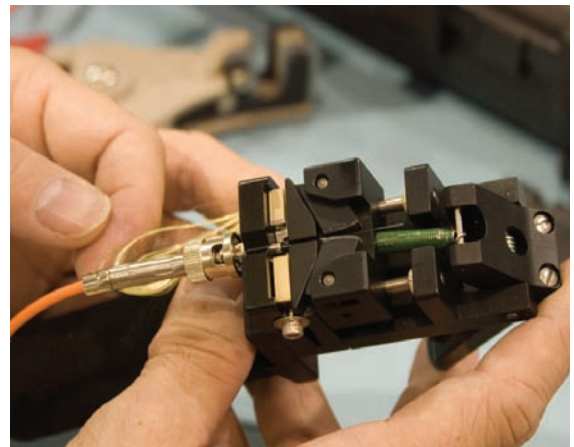
- Step 1. Install strain relief boot.
- Step 2. Strip cable outer jacket.
- Step 3. Strip fiber buffer.
- Step 4. Install cable anchor.
- Step 5. Install crimp sleeve.
- Step 6. Install ferrule.
- Step 7. Crimp ferrule.
- Step 8. Cleave fiber.
- Step 9. Position strain relief boot.

V-Pin Connector Termination Steps

- Step 1. Strip cable outer jacket.
- Step 2. Install crimp ring.
- Step 3. Strip fiber buffer.
- Step 4. Install V-pin connector.
- Step 5. Cleave fiber.
- Step 6. Assemble duplex latch (optional).



Crimp the connector directly onto the outer jacket for strong, solid connector retention.



Cleave the fiber end with the pull of a trigger.



Finished! A connectorized cable is ready to plug in to your application.

Parts Ordering Information

Termination Kits

Termination kits include the tools and instructions necessary to install connectors on zipcord or PVC-jacketed fiber-optic cable. Tools and instructions are packaged in a carrying case. Purchase kits using the following part numbers:

200 μ m V-pin connector termination kit	T800
200 μ m ST connector termination kit	240-1501
62.5 μ m ST connector termination kit	240-1499



Termination Kit

Connectors

V-pin and ST connectors are available directly from SEL. Purchase connectors using the following part numbers:

V-pin connector	P800
V-pin connector (25 pack)	915900067
V-pin duplex latch kit (10 pack)	9210
ST connector	090-5001



P-800 V-Pin Connector



9210 V-Pin Duplex Latch Kit

Splice Bushings

Use splice bushings to connect two pieces of fiber-optic cable. Bushings are panel mountable and yield a 2.0 dB maximum loss. Two bushings are needed for each duplex cable splice. Use the following part numbers to select the appropriate splice bushing for your application:

V-pin connector splice bushing	S800
ST connector splice bushing	090-5011



090-5001 ST Connector



S800 V-Pin Splice Bushing



090-5011 ST Splice Bushing

Pulling Loop

Use the pulling loop during installation of heavy-duty fiber cables. Maintain a secure grip on the cable without damaging the optical fibers.

Pulling loop (for heavy-duty cables)	031-0105
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Bulk Cable Ordering Information

SEL offers a full array of bulk fiber-optic cable to meet your application needs. Purchase cable using the following part numbers:

Armored/rodent-resistant type cables, plenum rated, and six-fiber cables are also available on request. Contact your SEL sales representative for more information.

62.5 μ m (where xxxx = length in meters)

Unterminated Simplex, 1 Fiber	C807Z01000Xxxxx
Unterminated Zipcord, 2 Fibers	C807Z02000Xxxxx
Unterminated Waterproof Heavy-Duty Jacketed, 2 Fibers	C807G02000Xxxxx
Unterminated Waterproof Heavy-Duty Jacketed, 4 Fibers	C807G04000Xxxxx

200 μ m (where xxxx = length in meters)

Unterminated Simplex, 1 Fiber	C805Z01000Xxxxx
Unterminated Zipcord, 2 Fibers	C805Z02000Xxxxx
Unterminated Heavy-Duty PVC-Jacketed, 2 Fibers	C805D02000Xxxxx
Unterminated Heavy-Duty PVC-Jacketed, 4 Fibers	C805D04000Xxxxx
Unterminated Waterproof Heavy-Duty Jacketed, 2 Fibers	C805G02000Xxxxx
Unterminated Waterproof Heavy-Duty Jacketed, 4 Fibers	C805G04000Xxxxx

SEL Fiber Termination Solutions

Cable Specifications

200 μ m Cable

Specifications	Zipcord	PVC Jacketed	Waterproof Jacketed
Channels	1 or 2	2 or 4	2 or 4
Operating Temperature	-40° to +85°C	-40° to +85°C	-20° to +85°C
Core Diameter	200 μ m (7.87 mils)	200 μ m (7.87 mils)	200 μ m (7.87 mils)
Weight/Unit Length (2 Fibers)	12.3 kg/km (8.3 lb/1000 ft)	45 kg/km (30.2 lb/1000 ft)	81 kg/km (53 lb/1000 ft)
Maximum Long-Term Tension	44 N (10 lb)	200 N (45 lb)	1175 N (264.2 lb)
Maximum Cable-Pull Tension	205 N (46 lb)	445 N (100 lb)	2350 N (528.3 lb)
Minimum Long-Term Bend Radius	15 mm (0.59 in)	75 mm (2.95 in)	15 cm (5.9 in)
Cable Attenuation @ 650 nm (-40° to +85°C)	12 dB/km (3.7 dB/1000 ft)	12 dB/km (3.7 dB/1000 ft)	12 dB/km (3.7 dB/1000 ft)
Cable Attenuation @ 650 nm (0° to +70°C)	10 dB/km (3.0 dB/1000 ft)	10 dB/km (3.0 dB/1000 ft)	10 dB/km (3.0 dB/1000 ft)
Cable Attenuation @ 650 nm (typical)	7.4 dB/km (2.3 dB/1000 ft)	7.4 dB/km (2.3 dB/1000 ft)	7.4 dB/km (2.3 dB/1000 ft)
Cable Attenuation @ 850 nm (-40° to +85°C)	10.6 dB/km (3.2 dB/1000 ft)	10.6 dB/km (3.2 dB/1000 ft)	10.6 dB/km (3.2 dB/1000 ft)
Cable Attenuation @ 850 nm (0° to +70°C)	8.8 dB/km (2.7 dB/1000 ft)	8.8 dB/km (2.7 dB/1000 ft)	8.8 dB/km (2.7 dB/1000 ft)
Cable Attenuation @ 850 nm (typical)	6.5 dB/km (2.0 dB/1000 ft)	6.5 dB/km (2.0 dB/1000 ft)	6.5 dB/km (2.0 dB/1000 ft)
UL Rating	Riser Rated (OFNR)	Riser Rated (OFNR)	—

62.5 μ m Cable

Specifications	Zipcord	Waterproof Jacketed
Channels	1 or 2	2 or 4
Operating Temperature	-20° to +80°C	-20° to +80°C
Core Diameter	62.5 μ m	62.5 μ m
Weight/Unit Length (2 Fibers)	11 kg/km	55 kg/km
Maximum Long-Term Tension	378 N (85 lb)	689 N (155 lb)
Maximum Cable-Pull Tension	734 N (165 lb)	1375 N (310 lb)
Minimum Long-Term Bend Radius	38 mm	120 mm
Cable Attenuation @ 850 nm (typical)	≤ 4 dB/km	≤ 4 dB/km
Cable Attenuation @ 1300 nm (typical)	≤ 2 dB/km	≤ 2 dB/km
UL Rating	UL-1666	UL-1666

Connectors

Connectors	V-Pin (200 μ m)	ST Connector
Connector Insertion Force (maximum)	12 N (2.6 lb)	—
Connector Retention Force (minimum)	5 N (1.0 lb)	—
Cable Crimp Retention Force (minimum)	40 N (9.4 lb)	53 N (12 lb)
Splice Bushing Loss (maximum)	2.0 dB	2.0 dB
Splice Bushing Loss (typical)	1.5 dB	1.5 dB

Related Products

SEL also offers preterminated fiber-optic cables with V-pin, ST, and LC terminations. Refer to the SEL model option tables for the following products for more information.

- SEL-C805 Multimode 200 μ m Core Fiber-Optic Cables
- SEL-C807 Multimode 62.5 μ m Core Fiber-Optic Cables



SEL-C807 62.5 μ m Core Fiber-Optic Cables.



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