

CamSplice™ No-Adhesive Mechanical Splice

A LANscape® Solutions Product

Corning
Cable Systems

Applications

- Pigtail splicing
- Transition splice between listed and non-listed cables
- Indoor or outdoor through or branch splicing
- Emergency restoration

Description

Corning Cable Systems CamSplice™ Mechanical Splice is simple and craft-friendly for both multimode and single-mode fibers. It features a “cam” locking mechanism, which requires no adhesive. The CamSplice Mechanical Splice incorporates a unique, patented fiber alignment method that self-centers the fibers and provides extremely accurate alignment. Average “blind” (non-tuned) splice loss for the CamSplice Mechanical Splice is specified at 0.15 dB with a minimum loss less than 0.3 dB. There is only one part for 250/250 μm, 250/900 μm or 900/900 μm applications (one size fits all).

The CamSplice Mechanical Splice requires minimal training and few accessories to assemble. The assembly process involves stripping and cleaving fibers, inserting the fibers into the splice part until they touch and turning the cams to secure the fibers. The process does not involve any adhesives or special tools, although an optional assembly fixture is recommended. A typical installation takes less than two minutes. A compact, self-contained tool kit is available with standard tools including the optional assembly fixture.

Completed splices fit in Corning Cable Systems splice trays as well as industry-standard splice trays.

Features / Benefits

- No adhesive or epoxy required
- Universal, one-part-fits-all fiber coatings
- Rematable, tunable
- No polishing required



CamSplice No-Adhesive Mechanical Splice | Photo LAN361

- Self-centering fiber alignment mechanism
- Optional lead-in tubes for securing 900 μm fibers
- Index-matching gel pre-inserted
- No stress on fiber in alignment area
- Small assembly fixture recommended, but optional
- Fits in industry-standard splice trays

U.S. Patent No. 4,923,274 Connector for Optical Fibers



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Specifications

Parameter	Specification
Dimensions	44 mm (1.73 in) length x 4.2 mm (0.17 in) width (Cam)
Mean Splice Loss	0.15 dB
Blind Splice Loss	≤ 0.3 dB
Temperature Range	-40 to +75°C, < 0.1 dB average variation
Vibration	10 to 55 Hz with 1.52 mm (0.06 in) maximum excursion, three planes, < 0.5 dB variation, two hours in each plane
Tensile	0.50 lb
Reflectance	≤ -45 dB (flat cleave) ≤ -60 dB (angled cleave)

A summary of testing procedures and results is available upon request.

Ordering Information

Splice Parts

Part Number	Description
95-000-04	CamSplice™ Mechanical Splices (6/pack)
95-000-04-ATC*	Antitorsion CamSplice Mechanical Splice for 900 µm applications

* The antitorsion CamSplice is not rematable.

Accessories

TKT-100-01	CamSplice Mechanical Splice Tool Kit; includes CamSplice assembly fixture, fiber coating stripping tool, and other miscellaneous items required for splicing; kit comes in a compact carrying case
TKT-100-02	Same as above, including an FBC-001 fiber cleaver
2104040-01	CamSplice Mechanical Splice Assembly Fixture
2104341-01	Crimp Tool for Antitorsion CamSplice Mechanical Splice
FBC-001	Score and Snap Fiber Cleaver
FBC-006	Precision Diamond Cleaver

Splice Trays

M67-031	Aluminum Splice Tray; stores 12 CamSplice Mechanical Splices, Type 2S
M67-053	Aluminum Splice Tray; stores six CamSplice Mechanical Splices, Type 2R
M67-061	Aluminum Splice Tray; stores six CamSplice Mechanical Splices, Type 2R
UST-024	Universal Splice Tray (organizers included for RTV fusion, heat-shrink fusion, mass fusion and mechanical splices) – Type 4A; 24-splice capacity
M67-070	Aluminum Splice Tray; stores 12 CamSplice Mechanical Splices, Type 4S

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