# OptiSnap™ SC APC, LC Compatible Single-Mode Field-Installable Connector

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## Applications
- Single-mode FTTx MDU, FTTx ONT, CO cross-connect, and direct-connect to electronics

- Maintenance and restoration of building cable

- Ideal for MDU applications where installation setup and teardown time is critical

## Description
With proven field-installable connector technology, fiber terminations using the OptiSnap™ Connector system are fast, easy and reliable. The Corning Cable Systems patented, high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively.

The patented Corning Cable Systems go/no-go feedback signal allows the installer to verify that the installation is performed right, the first time, every time. Insert the fiber, activate the cam and watch the pass/fail light illuminate, instilling confidence in every connector installed.

The factory-polished ceramic ferrule provides superior quality for end-face geometry. The single-mode OptiSnap Connector is available in an ultra physical contact (UPC) polish or an angled physical contact (APC) polish (SC only), offering you a higher grade of performance for your field terminations. With fast installation time and low insertion loss, the OptiSnap Connector system provides a good alternative to fusion splicing.
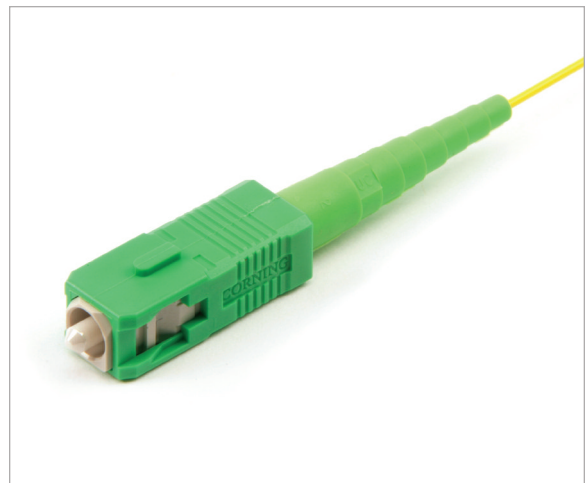
Installation is as easy as strip, clean, cleave, cam and crimp.

## Features / Benefits
- OptiSnap Connector tool kit designed for virtually no set-up or tear down time, allowing installers to get in and out of installation sites quickly

- Fastest termination, highest installation yields and no consumables means lowest installation cost



**OptiSnap Tool Kit** | Photo CCA203



**OptiSnap SC Connector** | Photo LAN808

- Go/no-go feedback technology gives immediate indication of successful termination

- Quick installation, less than one minute per connector on average

- No epoxy, no polish or other consumables required

- No need for electrical power for ovens or lights

- Typical 0.2 dB insertion loss for UPC and 0.4 dB insertion loss for APC connectors

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### Features / Benefits (continued)

- One tool kit for ST® Compatible, SC and LC Connector types UPC and APC

- Factory-polished end-face for consistent optical performance and factory-built jumper quality leads to low insertion loss and high-performance return loss

- 100 percent factory tested for insertion loss

- Reliable, proven mechanical splice technology; over 40 million connectors deployed in enterprise/data applications

**OptiSnap™ Field Cleaver** | Photo CCA206

## Specifications

| Parameter | Description |
|---|---|
| Intermateability | Connectors are FOCIS compliant with TIA/EIA 604-3 (SC), FOCIS 10 (LC) |
| Qualification | Passed TIA/EIA 568-B.3 |
| Durability | < 0.2 dB change, 500 rematings, FOTP-21 |
| Tensile Strength | 11.24 lb < 0.2 dB change on jacketed cable, 1.1 lb < 0.2 dB change on 900 µm cable, 0.5 lb < 0.2 dB change on 250 µm cable |
| Operating Temperature | See specifications below for connector-specific operating temperatures |
| Nominal Fiber OD | 125 µm |

### UPC

| Connector Style | Polish | Cable Compatibility | Part Number | Ferrule | Reflectance (dB) | Housing Color |
|---|---|---|---|---|---|---|
| SC | UPC | 900 µm | OSNP-SCU-900 | Ceramic | -55 Typical | Blue |
| ST® Compatible | UPC | 900 µm | OSNP-STU-900 | Ceramic | -55 Typical | Amber |
| LC | UPC | 900 µm | OSNP-LCU-900 | Ceramic | -55 Typical | Blue |
| SC | UPC | 250 µm | OSNP-SCU-250 | Ceramic | -55 Typical | Blue |
| LC | UPC | 250 µm | OSNP-LCU-250 | Ceramic | -55 Typical | Blue |

*Notes: UPC insertion loss (dB) Typical 0.2 Max 0.5.*
*UPC return loss (-dB) -55 Typical at 25 degrees C +/- 5 degrees.*
*-40 Max RL from -40 to 75 degrees C for 250 µm OptiSnap™ Connectors when utilizing the FBC-014 angle cleaver.*
*-32 Max RL from -40 to 75 degrees C for 250 µm OptiSnap Connectors when utilizing the FBC-015 flat cleaver.*
*-32 Max RL from 0 to 60 degrees C for 900 µm OptiSnap Connectors when utilizing the FBC-015 flat cleaver.*

### APC

| Connector Style | Polish | Cable Compatibility | Part Number | Ferrule | Reflectance (dB) | Housing Color |
|---|---|---|---|---|---|---|
| SC | APC | 900 µm | OSNP-SCA-900 | Ceramic | -60 Typical | Green |
| SC | APC | 250 µm | OSNP-SCA-250 | Ceramic | -60 Typical | Green |

*Notes: APC insertion loss (dB) Typical 0.4 Max 0.75.*
*APC return loss (-dB) -60 Typical at 25 degrees C +/- 5 degrees.*
*-50 Max RL from -40 to 75 degrees C for 250 µm OptiSnap Connectors when utilizing the FBC-014 angle cleaver.*
*-40 Max RL from -40 to 75 degrees C for 250 µm OptiSnap Connectors when utilizing the FBC-015 flat cleaver.*
*-40 Max RL from 0 to 60 degrees C for 900 µm OptiSnap Connectors when utilizing the FBC-015 flat cleaver.*

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## Accessories

### *Single-Packs*

| Part Number | Description |
|---|---|
| OSNP-STU-900 | OptiSnap™ ST® Compatible Connector, single-mode, UPC polish, ceramic ferrule, single pack, amber housing, blue 900 μm and 2.9 mm boots |
| OSNP-SCU-900 | OptiSnap SC Connector, single-mode, UPC polish, ceramic ferrule, single pack, blue housing, blue 900 μm and 2.9 mm boots |
| OSNP-LCU-900 | OptiSnap LC Connector, single-mode, UPC polish, ceramic ferrule, single pack, blue housing, blue 900 μm and 2.9 mm boots |
| OSNP-SCU-250 | OptiSnap SC Connector, single-mode, UPC polish, ceramic ferrule, single pack, blue housing, blue 900 μm boot, only compatible with 250 μm cable |
| OSNP-SCA-900 | OptiSnap SC Connector, single-mode, APC polish, ceramic ferrule, single pack, green housing, green 900 μm and 2.9 mm boots |
| OSNP-SCA-250 | OptiSnap SC Connector, single-mode, APC polish, ceramic ferrule, single pack, green housing, green 900 μm boot, only compatible with 250 μm cable |

### *Organizer Packs*

| Part Number | Description |
|---|---|
| OSNP-STU-900-Z | OptiSnap ST Compatible Connector, single-mode, UPC polish, ceramic ferrule, 25 piece box, amber housing, blue 900 μm and 2.9 mm boots |
| OSNP-SCU-900-Z | OptiSnap SC Connector, single-mode, UPC polish, ceramic ferrule, 25 piece box, blue housing, blue 900 μm and 2.9 mm boots |
| OSNP-LCU-900-Z | OptiSnap LC Connector, single-mode, UPC polish, ceramic ferrule, 25 piece box, blue housing, blue 900 μm and 2.9 mm boots |
| OSNP-SCU-250-Z | OptiSnap SC Connector, single-mode, UPC polish, ceramic ferrule, 25 piece box, blue housing, blue 900 μm boot, only compatible with 250 μm cable |
| OSNP-SCA-900-Z | OptiSnap SC Connector, single-mode, APC polish, ceramic ferrule, 25 piece box, green housing, green 900 μm and 2.9 mm boots |
| OSNP-SCA-250-Z | OptiSnap SC Connector, single-mode, APC polish, ceramic ferrule, 25 piece box, green housing, green 900 μm boot, only compatible with 250 μm cable |
| TKT-OPTISNAP-CF | OptiSnap Connector Installation Tool Kit with flat cleaver, includes installation tool, flat cleaver and all required fiber preparation and cleaning supplies |
| TKT-OPTISNAP-CA | OptiSnap Connector Installation Tool Kit with angle cleaver, includes installation tool, angle cleaver and all required fiber preparation and cleaning supplies |
| FBC-015 | Individual Flat-Fiber Cleaver (blue) |
| FBC-014 | Individual Angle-Fiber Cleaver (green) |
| FBC-14-15-16-Blade | Replacement Blade for the fiber cleaver |
| TKT-FCC | Fiber Cleaning Kit |
| VFL-A125 | LC 1.25 mm VFL Adapter |
| VFL-A250 | Standard Ferrule 2.5 mm VFL Adapter |
| VFL-AKIT | LC 1.25 mm and Standard 2.5 mm Ferrule VFL Adapter |

*Note: All insertion loss values given for installation with the OptiSnap Connector installation tool, mated to a master reference jumper, terminated on Corning Fiber, and tested to Corning Cable Systems Recommended Procedures. Individual OptiSnap Connector installation tools are available for order. Please contact Corning Cable Systems Customer Service.*

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