

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

An Evolant® Solutions Product

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



Product Specifications

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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 cleaver.

-32 Max RL from -40 to 75 degrees C for 250 μm OptiSnap Connectors when utilizing the FBC-015 cleaver.

-32 Max RL from 0 to 60 degrees C for 900 μm OptiSnap Connectors when utilizing the FBC-015 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 cleaver.

-40 Max RL from -40 to 75 degrees C for 250 μm OptiSnap Connectors when utilizing the FBC-015 cleaver.

-40 Max RL from 0 to 60 degrees C for 900 μm OptiSnap Connectors when utilizing the FBC-015 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, blue housing, amber 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-LCU-250	OptiSnap LC 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-LCU-250-Z	OptiSnap LC 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)
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 Cable Systems 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.