# OptiSnap® Single-Mode Field-Installable Connector

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## Features and Benefits

**No-epoxy/no-polish or other consumables required**
Quick and easy installation, less than one minute per connector on average

**100 percent factory tested for insertion loss**
Typical insertion loss of 0.2 dB for UPC and 0.3 dB for APC connectors

**Factory-polished end face**
Low insertion loss and high-performance return loss

**Reliable, proven mechanical splice technology**
Over 70 million connectors deployed in various applications

**No need for electrical power for ovens or lights**
Reduces complexity

**Angled Fiber Stub**
Inside all OptiSnap connectors regardless of polish to maximize back reflection performance

With proven field-installable connector technology, fiber terminations using the OptiSnap® connector system are fast, easy and reliable. Corning high-precision mechanical splice technology enables fiber optic networks to be installed quickly and cost effectively.

The Corning 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, 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.



**OptiSnap Connectors: LC, SC and ST Compatible**
| Photo CRR1425



**OptiSnap Connectors Organizer Packs**
| Photo CRR1426

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## Standards

| | |
|---|---|
| **Intermateability** | Connectors are FOCIS compliant with TIA/EIA 604-3 (SC), FOCIS 10 (LC) |
| **Approvals and Listings** | Passed EIA/TIA 568-B.3 |
| **Design and Test Criteria** | Telcordia GR-1209 and GR-1221 |

## Specifications

| UPC Connector Style, Insertion Loss (dB) Typical 0.2 Maximum 0.5 | | | | | | |
|---|---|---|---|---|---|---|
| | Connector Type | Polish | Cable Compatibility | Ferrule Material | Reflectance | Housing Color |
| OSNP-SCU-900 | SC | UPC | 900 µm | Ceramic | -55 dB typical | Blue |
| OSNP-STU-900 | ST® Compatible | UPC | 900 µm | Ceramic | -55 dB typical | Amber |
| OSNP-LCU-900 | LC | UPC | 900 µm | Ceramic | -55 dB typical | Blue |
| OSNP-SCU-250 | SC | UPC | 250 µm | Ceramic | -55 dB typical | Blue |

*UPC return loss (-dB) -55 Typical at 25 degrees C +5 degrees.*
*APC return loss (-dB) -60 Typical at 25 degrees C +/- 5 degrees.*

| UPC Operating Temperature | | | | |
|---|---|---|---|---|
| | Cleaver Type | Operation | Cable Type | Reflectance |
| UPC | FBC-014 (angled) | -40 °C to 75 °C | 250 µm | -40 dB Max RL |
| UPC | FBC-009 (flat) | -40 °C to 75 °C | 250 µm | -32 dB Max RL |
| UPC | FBC-009 (flat) | -40 °C to 75 °C | 900 µm | -32 dB Max RL |
| UPC | FBC-016 (angled) | -40 °C to 75 °C | 900 µm ClearCurve® | -40 dB Max RL |

| APC Connector Style, Insertion Loss (dB) Typical 0.3 Maximum 0.75 | | | | | | |
|---|---|---|---|---|---|---|
| | Connector Type | Polish | Cable Compatibility | Ferrule Material | Reflectance | Housing Color |
| OSNP-SCA-900 | SC | APC | 900 µm | Ceramic | -60 dB typical | Green |
| OSNP-SCA-250 | SC | APC | 250 µm | Ceramic | -60 dB typical | Green |
| OSNP-LCA-900 | LC | APC | 900 µm | Ceramic | -60 dB typical | Green |

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## APC Operating Temperature

|  | Cleaver Type | Operation | Cable Type | Reflectance |
|---|---|---|---|---|
| APC | FBC-014 (angled) | -40 °C to 75 °C | 250 µm | -55 dB Max RL |
| APC | FBC-009 (flat) | -40 °C to 75 °C | 250 µm | -40 dB Max RL |
| APC | FBC-009 (flat) | -40 °C to 75 °C | 900 µm | -40 dB Max RL |
| APC | FBC-016 (angled) | -40 °C to 75 °C | 900 µm ClearCurve® | -55 dB Max RL |

| | |
|---|---|
| Durability | 0.2 dB change, 500 rematings, FOTP-21 |
| Tensile Strength Jacketed Cable | 11.24 lb, change ≤ 0.2 dB |
| Tensile Strength 900 µm Cable | 1.1 lb, change ≤ 0.2 dB |
| Tensile Strength 250µ Cable | 0.5 lb, change ≤ 0.2 dB |
| Nominal Fiber Outer Diameter | 125 µm |

## Single Packs

| Part Number | Description | Units per Delivery |
|---|---|---|
| OSNP-LCU-900 | OptiSnap® LC Connector, single-mode, UPC, ceramic ferrule, single pack, blue housing, blue 900 µm boot, 1.6/2.0 mm boots and 2.9 mm boots | 1/1 |
| OSNP-LCA-900 | OptiSnap LC Connector, single-mode, APC polish, ceramic ferrule, single pack, green housing, green 900 µm, 1.6/2.0 mm boots and 2.9 mm boots | 1/1 |
| OSNP-SCA-250 | OptiSnap SC Connector, single-mode, APC, ceramic ferrule, single pack, green housing, green 900 µm boot, only compatible with 250 µm cable | 1/1 |
| OSNP-SCA-900 | OptiSnap SC Connector, single-mode, APC, ceramic ferrule, single pack, green housing, green 900 µm and 2.9 mm boots | 1/1 |
| OSNP-SCU-250 | OptiSnap SC Connector, single-mode, UPC, ceramic ferrule, single pack, blue housing, blue 900 µm boot, only compatible with 250 µm cable | 1/1 |

*Note:*
*1) UPC return loss (-dB) -55 typical at 25° C +/-5°*
*2) APC return loss (-dB) -60 typical at 25° C +/- 5°*
*3) All insertion loss values are given for installation with the OptiSnap connector installation tool, mated to a master reference jumper, terminated on Corning® fiber and tested to Corning Recommended Procedures. Individual OptiSnap connector installation tools are available for ordering. Please contact Corning Customer Care for additional information. Refer to EVO-960-EN for OptiSnap connector tool kit information.*
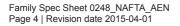
# OptiSnap® Single-Mode Field-Installable Connector



| Single Packs | | |
|---|---|---|
| Part Number | Description | Units per Delivery |
| OSNP-SCU-900 | OptiSnap SC Connector, single-mode, UPC, ceramic ferrule, single-pack, blue housing, blue 900 µm and 2.9 mm boots | 1/1 |
| OSNP-STU-900 | OptiSnap ST® Compatible Connector, single-mode, UPC, ceramic ferrule, single pack, amber housing, blue 900 µm and 2.9 mm boots | 1/1 |

*Note:*
*1) UPC return loss (-dB) -55 typical at 25° C +/-5°*
*2) APC return loss (-dB) -60 typical at 25° C +/- 5°*
*3) All insertion loss values are given for installation with the OptiSnap connector installation tool, mated to a master reference jumper, terminated on Corning® fiber and tested to Corning Recommended Procedures. Individual OptiSnap connector installation tools are available for ordering. Please contact Corning Customer Care for additional information. Refer to EVO-960-EN for OptiSnap connector tool kit information.*

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## Organizer Packs

| Part Number | Description | Units per Delivery |
|---|---|---|
| OSNP-LCU-900-Z | OptiSnap LC Connector, single-mode, UPC, ceramic ferrule, 25-piece box, blue housing, blue 900 µm and 2.9 mm boots | 25/1 |
| OSNP-LCA-900-Z | OptiSnap LC Connector, single-mode, APC polish, ceramic ferrule, 25-piece box, green housing, green 900 µm, 1.6/2.0 mm boots and 2.9 mm boots | 25/1 |
| OSNP-SCA-250-Z | OptiSnap SC Connector, single-mode, APC, ceramic ferrule, 25-piece box, green housing, green 900 µm boot, only compatible with 250 µm cable | 25/1 |
| OSNP-SCA-900-Z | OptiSnap SC Connector, single-mode, APC, ceramic ferrule, 25-piece box, green housing, green 900 µm and 2.9 mm boots | 25/1 |
| OSNP-SCU-250-Z | OptiSnap SC Connector, single-mode, UPC, ceramic ferrule, 25-piece box, blue housing, blue 900 µm boot, only compatible with 250 µm cable | 25/1 |
| OSNP-SCU-900-Z | OptiSnap SC Connector, single-mode, UPC, ceramic ferrule, 25-piece box, blue housing, blue 900 µm and 2.9 mm boots | 25/1 |
| OSNP-STU-900-Z | OptiSnap ST Compatible Connector, single-mode, UPC, ceramic ferrule, 25-piece box, amber housing, blue 900 µm and 2.9 mm boots | 25/1 |

*Note:*
*1) UPC return loss (-dB) -55 typical at 25° C +/-5°*
*2) APC return loss (-dB) -60 typical at 25° C +/- 5°*
*3) All insertion loss values are given for installation with the OptiSnap connector installation tool, mated to a master reference jumper, terminated on Corning® fiber and tested to Corning Recommended Procedures. Individual OptiSnap connector installation tools are available for ordering. Please contact Corning Customer Care for additional information. Refer to EVO-960-EN for OptiSnap connector tool kit information.*

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