

# ROC™ Drop Cable Assembly

Hardened connector, FastAccess® technology, 900 μm



As an industry leader in optical connectivity products, Corning designs and manufactures the ROC™ drop cable assembly with factory-terminated, environmentally sealed and hardened connectors to reduce the cost and time of drop cable deployment. Corning hardened connectors provide superior durability and reliability in the drop segment of the network. This assembly also offers significant improvements in cable management.

By featuring the ROC drop cable design, issues of slack storage capacity are virtually eliminated. The ROC drop cable minimum bend radius is half the size of legacy drop cable. The outer dimensions of the cable have been reduced by more than 50%. ROC drop cables are more flexible, allowing for easier routing at the ONT. Installers will see a reduction in truck storage space requirements with this new design.

| Features                              | Benefits   |
|---------------------------------------|--|
| Hardened connector technology         | OptiTap® connector, industry standard for existing FTTx networks, or reduced-diameter Pushlok™ connector.  |
| Reduced optimized cable cross-section | Smaller profile and bend radius. Flexibility allows for increase slack storage capacity in existing optical network terminals (ONTs), pedestals, and handholes.  |
| Robust design                         | Designed for rapid connection to external flush-mounted bulkhead adapters on terminals or closures.  |
| Flexible connector offerings          | Dual-ended or pigtailed versions to accommodate any ONT interface. Hybrid assemblies with hardened connector (terminal) to SC APC (ONT) are available with both OptiTap and Pushlok variants.  |
| Versatile installation environments   | Aerial: dielectric, self-supporting at 40 lbs installation tension at 150 ft (NESC Heavy), 255 ft (NESC Medium) or 330 ft (NESC Light).<br>Direct-buried: toneable for easy locating.<br>Duct: integral pulling eye/connector cap designed for 100 lb maximum pulling tension; OptiTap connector is suitable for 1.25-in conduit; Pushlok connector is suitable for 13-mm inner diameter duct. |

| Standards                |         |
|--------------------------|---------|
| Design and Test Criteria | GR-3120 |

## OptiTap® Assembly Specifications

### Connector

|                           |                         |
|---------------------------|-------------------------|
| Insertion Loss, Typical   | 0.15 dB                 |
| Reflectance, Typical      | -0.65 dB                |
| Outer Diameter Dimensions | 20.0 mm (with dust cap) |

### Cable

|   |                          |
|---|--------------------------|
| Axial Pull, Plug to Adapter Coupling Strength   | 50.0 lb                  |
| Axial Pull, Plug to Cable, Through the Dust Cap | 100.0 lb                 |
| Cold Mate/Demate                                | -40°C mechanical testing |

## Pushlok™ Assembly Specifications

### Connector

|                           |                         |
|---------------------------|-------------------------|
| Insertion Loss, Typical   | 0.15 dB                 |
| Reflectance, Typical      | -0.65 dB                |
| Outer Diameter Dimensions | 12.0 mm (with dust cap) |

### Cable

|   |                          |
|---|--------------------------|
| Axial Pull, Plug to Adapter Coupling Strength   | 50.0 lb                  |
| Axial Pull, Plug to Cable, Through the Dust Cap | 100.0 lb                 |
| Cold Mate/Demate                                | -40°C mechanical testing |

# ROC™ Drop with OptiTap® Ordering Information

## OptiTap® Drop Cable Assembly



### 1 Select end one connector.

- 00 = No Connector
- 43 = OptiTap Connector

### 2 Select input.

- 43 = OptiTap Connector
- 44 = SC APC Connector, simplex

### 3 Select cable type.

- 49R = ROC™ 900 μm dielectric cable with FastAccess® technology
- 19R = ROC 900 μm toneable cable with FastAccess technology
- PFR = ROC dielectric cable, heat-shrink furcation, 2.9 mm leg on simplex connector end with pulling grip
- PTR = ROC toneable cable, heat-shrink furcation, 2.9 mm leg on simplex connector end with pulling grip
- 4R3 = ROC dielectric cable, heat-shrink furcation leg on simplex connector end
- 1R3 = ROC toneable cable, heat-shrink furcation leg on simplex connector end

### 4 Select cable assembly length (three-digit length) for lengths under 999 ft.

#### Lengths

Minimum: 2 m/ 6 ft

#### Meters lengths:

2, 3, 5 then 5 m increments up to 600 m

#### Foot lengths:

6, 10, then 10 or 25 ft increments up to 2,000 ft

*Note: Contact customer care for extended length offerings.*

### 5 Select cable assembly unit of length.

- F = Feet
- M = Meters

### 6 Defines packaging.\*

*\*Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

#### Bulk packaging

Multiple units coiled in a box up to 1,500 ft/455 m. Greater than 1501 ft/460 m ships on a reel.

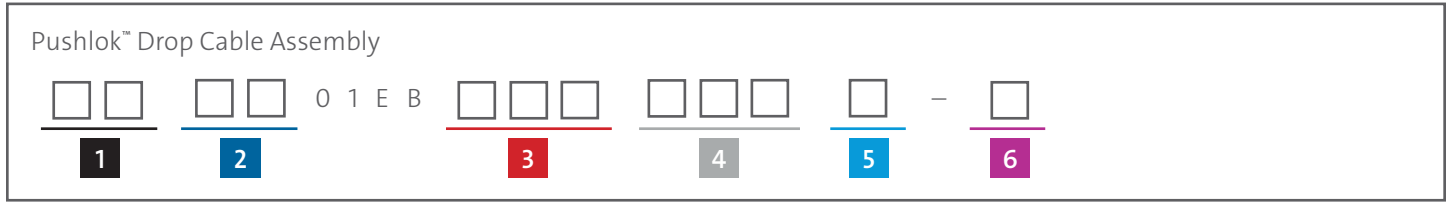
#### Individual packaging.

Individual units coiled in a box up to 500 ft/150 m. Greater than 500 ft/155 m ships on a reel.

**Table A: Alpha codes for lengths ≥ 1,000**

|             |             |             |
|-------------|-------------|-------------|
| A00 = 1,000 | E00 = 1,400 | J00 = 1,800 |
| B00 = 1,100 | F00 = 1,500 | K00 = 1,900 |
| C00 = 1,200 | G00 = 1,600 | L00 = 2,000 |
| D00 = 1,300 | H00 = 1,700 |             |

# ROC™ Drop with Pushlok™ Ordering Information



## 1 Select end one connector.

- 00 = No Connector
- D1 = Pushlok™ Connector

## 2 Select input.

- D1 = Pushlok Connector
- 44 = SC APC Connector, simplex

## 3 Select cable type.

- 49R = ROC™ 900 μm dielectric cable with FastAccess® technology
- 19R = ROC 900 μm toneable cable with FastAccess technology
- PFR = ROC dielectric cable, heat-shrink furcation, 2.9 mm leg on simplex connector end with pulling grip
- PTR = ROC toneable cable, heat-shrink furcation, 2.9 mm leg on simplex connector end with pulling grip
- 4R3 = ROC dielectric cable, heat-shrink furcation leg on simplex connector end
- 1R3 = ROC toneable cable, heat-shrink furcation leg on simplex connector end

## 4 Select cable assembly length (three-digit length) for lengths under 999 ft.

### Lengths

Minimum: 2 m/ 6 ft

### Meters lengths:

2, 3, 5 then 5 m increments up to 600 m

### Foot lengths:

6, 10, then 10 or 25 ft increments up to 2,000 ft

*Note: Contact customer care for extended length offerings.*

## 5 Select cable assembly unit of length.

- F = Feet
- M = Meters

## 6 Defines packaging.\*

*\*Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

### Bulk packaging

Multiple units coiled in a box up to 1500 ft/455 m. Greater than 1501 ft/460 m ships on a reel.

### Individual packaging.

Individual units coiled in a box up to 500 ft/150 m. Greater than 500 ft/155 m ships on a reel.

## 1 F ROC Drop, Pushlok to Pushlok

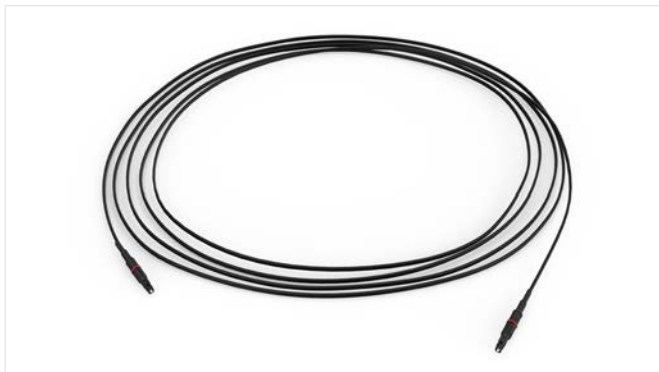


Table A: Alpha codes for lengths ≥ 1,000

|             |             |             |
|-------------|-------------|-------------|
| A00 = 1,000 | E00 = 1,400 | J00 = 1,800 |
| B00 = 1,100 | F00 = 1,500 | K00 = 1,900 |
| C00 = 1,200 | G00 = 1,600 | L00 = 2,000 |
| D00 = 1,300 | H00 = 1,700 |             |

# Small Cell ROC™ Drop with Pushlok™ Ordering Information



**1** Select end one connector.  
D1 = Pushlok Connector

**2** Select input.  
02 = LC Connector, simplex  
78 = LC Uniboot Connector

**3** Select cable assembly length (three-digit length) for lengths under 999 ft. *See Table A for lengths ≥ 1,000 ft.*

**Lengths**  
Minimum: 2 m/6 ft

**Meters lengths**  
2, 3, 5 then 5-m increments up to 600 m

**Foot lengths**  
6, 10, then 10- or 25-ft increments up to 2,000 ft

*Note: Contact customer care for extended length offerings.*

**4** Select cable assembly unit of length.  
F = Feet  
M = Meters

**5** Defines packaging.\*  
*\*Orders arrive in bulk packaging unless specified. To order individual packaging, please add '-P' to end of part number.*

**Bulk packaging**  
Multiple units coiled in a box up to 1,500 ft/455 m.  
Greater than 1501 ft/460 m ships on a reel.

**Individual packaging**  
Individual units coiled in a box up to 500 ft/150 m.  
Greater than 500 ft/155 m ships on a reel.

| Table A: Alpha codes for lengths ≥ 1,000 ft |             |             |             |
|---|-------------|-------------|-------------|
| A00 = 1,000                                 | C00 = 1,200 | F00 = 1,500 | J00 = 1,800 |
| B00 = 1,100                                 | D00 = 1,300 | G00 = 1,600 | K00 = 1,900 |
|   | E00 = 1,400 | H00 = 1,700 | L00 = 2,000 |

## 1 F ROC Drop, Pushlok to LC



## 1 F ROC Drop, Pushlok to Uniboot



## Pushlok™ Drop Cable Assembly Accessories



### Pushlok™ Drop Cable Assembly Accessory Information

Evolv™ SC Converter with Pushlok™ Technology

|                              |   |
|------------------------------|---|
| Part Number                  | KT-PL-SHROUD-SC   |
| Description                  | SC APC shroud for converting Pushlok drop connectors to an SC form factor |
| Minimum Order Quantity (MOQ) | 10  |



### Pushlok Drop Cable Assembly Accessory Information

Evolv OptiTap® Converter with Pushlok Technology

|                              |  |
|------------------------------|--|
| Part Number                  | KT-PL-OPT-CONV   |
| Description                  | OptiTap housing for converting Pushlok drop connectors to an OptiTap form factor |
| Minimum Order Quantity (MOQ) | 10   |

# Notes

The logo consists of a solid blue square with the word "CORNING" written in white, uppercase, serif font centered within it.

CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA  
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2020, 2021 Corning Optical Communications. All rights reserved. CRR-1418-AEN / March 2021