Application
These jumpers are ideal when splicing FTTH drops in the ONT/NID. Indoor cordage stiffens and retains cable memory in cold weather. These jumpers remain flexible even in extreme conditions. These assemblies use bend-insensitive fiber to help eliminate bend-radius issues inside the NID. These patch cords also work well in outside plant cross-connect cabinets.

Description
Clearfield® Outdoor Ruggedized Fiber Jumper Cables can be ordered in any industry standard connector type. Any length in feet or meters is available.

Features and Benefits
Integrity
- Terminations are designed and tested to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Supports industry standard singlemode connectors
- Singlemode bend-insensitive ITU standard G.657.A glass fiber

Protection
- Uses Ruggedized OSP rated 2 mm black jacketed cable
- Patch cords remain flexible and durable in extreme temperatures of -55°C to 85°C (-67°F to 185°F)

Access
- Compact jacket design minimizes cable pile up
- Industry standard terminations include ST, SC, FC, LC (ask a Clearfield representative for other available connectors)

Investment
- Outdoor Ruggedized Fiber Jumper Cables offer an economical solution for deploying fiber in any OSP optical network
- Environmentally stable, low-insertion loss, minimal back reflection
- All assemblies are 100% tested

Recommendation
Clearfield recommends the use of Ruggedized Outside Plant Jumpers when splicing in the NID or ONT. We also suggest two meter jumpers for use in FieldSmart® cabinet applications. Clearfield stocks common length SC/APC Ruggedized Jumpers for customer convenience. For non-standard lengths, lead times will apply.
## Technical Specifications

### Outdoor Ruggedized Fiber Jumper Cables

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size and Type</td>
<td>Singlemode (G.657.A1)</td>
</tr>
<tr>
<td>Fiber Count</td>
<td>Simplex (1-fiber)</td>
</tr>
<tr>
<td>Jacket O.D.</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Cable Types</td>
<td>Outdoor - Ruggedized Polyurethane</td>
</tr>
<tr>
<td>Connector Types</td>
<td>SC/UPC, SC/APC, LC/UPC, LC/APC, FC/UPC, FC/APC, ST/UPC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
</tr>
</tbody>
</table>

### Minimum Performance Specifications for Terminated Singlemode Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Ferrule Material</th>
<th>Polish Type</th>
<th>Ins. Loss, Typical</th>
<th>Max. Ins. Loss</th>
<th>Min. Ret. Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST</td>
<td>Ceramic</td>
<td>UPC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>55.00 dB</td>
</tr>
<tr>
<td>SC</td>
<td>Ceramic</td>
<td>UPC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>55.00 dB</td>
</tr>
<tr>
<td>FC</td>
<td>Ceramic</td>
<td>UPC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>55.00 dB</td>
</tr>
<tr>
<td>LC</td>
<td>Ceramic</td>
<td>UPC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>55.00 dB</td>
</tr>
<tr>
<td>SC</td>
<td>Ceramic</td>
<td>APC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>65.00 dB</td>
</tr>
<tr>
<td>FC</td>
<td>Ceramic</td>
<td>APC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>65.00 dB</td>
</tr>
<tr>
<td>LC</td>
<td>Ceramic</td>
<td>APC</td>
<td>0.15 dB</td>
<td>0.20 dB</td>
<td>65.00 dB</td>
</tr>
</tbody>
</table>

### Configured Part Numbers

```
P  E  A  -  0  0  1  -  Z  -  Z  -  XXXM or XXXF
```

1. Select Connector #1
   - A = SC/UPC
   - C = SC/APC
   - E = LC/UPC
   - G = LC/APC
   - J = FC/UPC
   - K = FC/APC
   - M = ST/UPC

2. Select Jacket Size *
   - B = 2 mm
   - Z = Pigtail

3. Select Connector #2
   - A = SC/UPC
   - C = SC/APC
   - E = LC/UPC
   - G = LC/APC
   - J = FC/UPC
   - K = FC/APC
   - M = ST/UPC
   - Z = Pigtail

4. Select Jacket Size *
   - B = 2 mm
   - Z = Pigtail

```
XXXM = Length in meters
XXXF = Length in feet
```

* Options 2 and 4 must be the same unless the assembly is a pigtail.

NOTE: OSP, ruggedized patchcords and pigtails come standard with bend insensitive fiber.