Application
Clearfield® Outside Plant Fiber Assemblies are used in a variety of applications including DLC cabinets, PON cabinets, cross-connect cabinets and fiber termination panels. Standard OSP cable is used and the terminated end of the assembly is up-jacketed with either 900 μm or 2 mm tubing. The assembly is then terminated with the required connectors. Fiber counts can be from 2 to 288 fibers.

Description
Clearfield OSP Fiber Assemblies are designed to perform flawlessly in even the most harsh environments. Our process and design directly addresses failure prone areas such as the transition (where the fiber is broken out into individual units) and at the termination. We use a patented process in the fiber transition that not only protects the fiber but also ensures that no lateral movement occurs due to temperature variations. Standard breakouts are half meter and one meter. Clearfield can also do custom breakouts to meet your unique panel needs.

Features and Benefits
Integrity
• Terminations are designed and tested to Telcordia GR-326
• Specialty cable designs available including ribbon fiber, loose-tube and ADSS (All-Dielectric Self-Supporting)
• Supports industry standard singlemode and multimode fiber

Protection
• Rugged cable design protects against harsh outdoor environment
• Wide variety of up-jacket sizes for all applications, ruggedized 3 mm, 2 mm, 1.6 mm and 900 μm
• Loose tube available in a gel-filled design for full water-block or gel-free
• All dielectric design (except armored cable)
• Pulling-eye available to ease installation and for added protection

Access
• Industry standard terminations include ST, SC, FC, LC (ask a Clearfield representative for other connector availability)
• Versatile cable designs well suited for in-conduit, lashed aerial and direct buried applications
• Fiber counts from two to 288 in loose tube or ribbon cables (higher fiber counts available)

Investment
• Outside Plant Fiber Assemblies offer a rugged solution for deploying fiber in any OSP optical network
• Environmentally stable, low-insertion loss, minimal back reflection
• All assemblies are 100% tested

Recommendation
When designing a patch cord (double-ended assembly) that will be pulled through conduit a pulling eye may be a good solution. Any assembly with 24 fibers or less can be fitted with a pulling eye.

Technical Specifications

<table>
<thead>
<tr>
<th>Outside Plant Fiber Assemblies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size and Type</td>
</tr>
<tr>
<td>Fiber Count</td>
</tr>
<tr>
<td>Jacket O.D.</td>
</tr>
<tr>
<td>Cable Types</td>
</tr>
<tr>
<td>Connector Types</td>
</tr>
<tr>
<td>Operating Temperature</td>
</tr>
<tr>
<td>Breakout Length</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>0.30 dB</td>
<td>55.00 dB</td>
</tr>
<tr>
<td>SC</td>
<td>Ceramic</td>
<td>UPC</td>
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</tr>
<tr>
<td>FC</td>
<td>Ceramic</td>
<td>UPC</td>
<td>0.15 dB</td>
<td>0.30 dB</td>
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</tr>
<tr>
<td>SC</td>
<td>Ceramic</td>
<td>APC</td>
<td>0.20 dB</td>
<td>0.30 dB</td>
<td>65.00 dB</td>
</tr>
<tr>
<td>FC</td>
<td>Ceramic</td>
<td>APC</td>
<td>0.20 dB</td>
<td>0.30 dB</td>
<td>65.00 dB</td>
</tr>
<tr>
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<td>Ceramic</td>
<td>APC</td>
<td>0.20 dB</td>
<td>0.30 dB</td>
<td>65.00 dB</td>
</tr>
</tbody>
</table>

Minimum Performance Specifications for Terminated Multimode 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>
</tr>
</thead>
<tbody>
<tr>
<td>ST</td>
<td>Ceramic</td>
<td>PC</td>
<td>0.25 dB</td>
<td>≤ 0.50 dB</td>
</tr>
<tr>
<td>SC</td>
<td>Ceramic</td>
<td>PC</td>
<td>0.25 dB</td>
<td>≤ 0.50 dB</td>
</tr>
<tr>
<td>FC</td>
<td>Ceramic</td>
<td>PC</td>
<td>0.25 dB</td>
<td>≤ 0.50 dB</td>
</tr>
<tr>
<td>LC</td>
<td>Ceramic</td>
<td>PC</td>
<td>0.25 dB</td>
<td>≤ 0.50 dB</td>
</tr>
</tbody>
</table>

Configured Part Numbers

0 1 2 3 4 5 6 7 8 9

1 Select Cable Construction
   - B = OSP, riser rated
   - E = OSP, non-rated
   - M = OSP, armored, non-rated

2 Select Mode / Type
   - 1 = Singlemode, loose tube
   - 2 = Singlemode, ribbon
   - 3 = Multimode (62.5) loose tube
   - 4 = Multimode (62.5) ribbon
   - 5 = Multimode (50 µm) loose tube
   - 6 = Multimode (50 µm) ribbon
   - 7 = Multimode (50 µm LO) loose tube
   - 8 = Multimode (50 µm LO) ribbon

3 Select Fiber Count *
   - XXXX = port count in increments of 12

4 Select Connector # 1
   - A = SC/UPC
   - C = SC/APC
   - E = LC/UPC
   - G = LC/APC
   - J = FC/UPC

5 Select Breakout # 1
   - B = 1 meter
   - C = 0.5 meter

6 Select Upjacketing # 1
   - A = 900 µm
   - B = 2 mm (only up to 24 fiber)

7 Select Connector # 2
   - A = SC/UPC
   - C = SC/APC
   - E = LC/UPC
   - G = LC/APC
   - J = FC/UPC

8 Select Breakout # 2
   - B = 1 meter
   - C = 0.5 meter

9 Select Upjacketing # 2
   - A = 900 µm
   - B = 2 mm (only up to 48 fiber)

* Some fiber counts including fiber quantities not divisible by 12 may be built with the next highest fiber count cable (i.e. A 60-fiber assembly may be built using a 72-count fiber where the 1st 60 fiber will be terminated and the final 12 fibers will be cut off at the breakout point.)