Fiber Patching in High-Density Applications

Product Description
As networks use more and more optical fiber, there is a corresponding need for even smaller components. OFS 1.2 mm Patch Assemblies help provide customers with an effective means of patching in high-density applications.

OFS offers these assemblies in a wide range of designs including LC UPC, LC APC, SC UPC and SC APC, along with duplex and simplex configurations and additional lengths upon request. Among the highest-performing assemblies in the market, the 1.2 mm Patch Assemblies provide outstanding eccentricity, end-face geometry, insertion loss and return loss.

Benefits:
• High-performance, 100% factory-tested patch cords help provide increased network security
• Space-saving cordage allows for higher density
• Duplex assemblies save even greater space

Features:
• Insertion Loss > 0.25 dB for LC UPC
• Return Loss < -65 dB for APC connector
• OFNR cable with OFS AllWave® FLEX+ ZWP Bend-Optimized Fiber (G.657.A2 Enhanced)
• RoHS compliant; free from heavy metals and environmentally friendly
• Additional lengths available on request

Reference Specifications:
Loss: 0.5 LC APC; 0.25 LC UPC; 0.5 SC APC; 0.3 SC UPC
Return Loss: -55 dB UPC and -65 dB APC
Cable OD: 1.2 mm
Temperature Stability: < 0.3 dB (-40° C to +70° C)

Ordering Information:

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRA7Y001LCULCU003M</td>
<td>1.2 mm LC UPC 3 meter simplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y002LCULCU003M</td>
<td>1.2 mm LC UPC 3 meter duplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y001LCALCA003M</td>
<td>1.2 mm LC APC 3 meter simplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y002LCALCA003M</td>
<td>1.2 mm LC APC 3 meter duplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y001SCUSCU003M</td>
<td>1.2 mm SC UPC 3 meter simplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y002SCUSCU003M</td>
<td>1.2 mm SC UPC 3 meter duplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y001SCASCA003M</td>
<td>1.2 mm SC APC 3 meter simplex riser rated assembly</td>
</tr>
<tr>
<td>JRA7Y002SCASCA003M</td>
<td>1.2 mm SC APC 3 meter duplex riser rated assembly</td>
</tr>
</tbody>
</table>
Ordering Information

Patchcord Assemblies SMART Coding

Examples: JRA7Y001LCULCU006M – Riser Patchcord 1.2 mm AllWave® FLEX Fiber Yellow 1 fiber (Simplex) LCU LCU 006 Meters long
JRA7Y002SCSSCA006M – Riser Patchcord 1.2 mm AllWave FLEX Fiber Yellow 2 fibers (Zip) SCS SCA 006 Meters long

SMART Code syntax below has spaces between field sets for visibility. Actual SMART Code should not include any spacing.

- **aaa** - Cable Design
  - JRA = Riser 1.2 mm

- **b** - Fiber Type
  - 7 = AllWave FLEX Fiber (Yellow Jacket Default)

- **c** - Jacket Color
  - Y = Yellow (AllWave FLEX Fiber)

- **ddd** - Fiber Count
  - 001 = Simplex
  - 002 = Duplex Zip

- **eee fff** - Connector Ends “A” & “B”
  - LCA = LC Angle Polish (Single-Mode Only)
  - LCU = LC Ultra Polish
  - SCA = SC Angle Polish (Single-Mode Only)
  - SCU = SC Ultra Polish

- **nnn** - Length
  - 001 - 999

- **g** - Unit Of Measure
  - M = Meters (Min. 1 m)
  - C = Centimeters (Min. 15 cm simplex/45 cm duplex)
  - F = Feet (Min. 1 ft)
  - I = Inches (Min. 6 in. simplex/18 in. duplex)

Specifications

<table>
<thead>
<tr>
<th>Fiber Count:</th>
<th>Simplex</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Diameter – in. (mm)</td>
<td>0.05 (1.2)</td>
<td>0.05 x 0.10 (1.2 x 2.48)</td>
</tr>
<tr>
<td>Weight – lb/ft (kg/km)</td>
<td>.90 (1.34)</td>
<td>1.8 (2.68)</td>
</tr>
<tr>
<td>Maximum Tensile lb (N)</td>
<td>22 (100)</td>
<td>44 (200)</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>OFNR</td>
<td>OFNR</td>
</tr>
</tbody>
</table>

Mechanical Standard
- GR 409 Interconnect - All Cordages

Performance Standard
- Cordage tested and listed to applicable standards including Telcordia GR-409/ICEA-S-83-596/ICEA-S-104-696/ICEA-S-115-730; TIA-568; TIA 598. Cordage UL Listed as compliant with NEC Article 770; CSA; EN 50173.

Handling
- Temperature: Installation: 32 °F to 140 °F (0 °C to 60 °C)
  - Operation: 32 °F to 158 °F (0 °C to 70 °C)
  - Storage: -40 °F to 158 °F (-40 °C to 70 °C)

Patchcord Specifications

<table>
<thead>
<tr>
<th>Connector</th>
<th>Insertion Loss Max.</th>
<th>Return Loss Max</th>
<th>Temperature Range (°C)</th>
<th>Cable Retention</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCU</td>
<td>0.25/0.05 dB</td>
<td>-55 dB</td>
<td>-40 to 85</td>
<td>Cordage 20 lb Pigtails 2 lb</td>
</tr>
<tr>
<td>LCA</td>
<td>0.5/0.05 dB</td>
<td>-65 dB</td>
<td>-40 to 85</td>
<td>Cordage 20 lb Pigtails 2 lb</td>
</tr>
<tr>
<td>SCU</td>
<td>0.3/0.05 dB</td>
<td>-55 dB</td>
<td>-40 to 85</td>
<td>Cordage 20 lb Pigtails 2 lb</td>
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<td>SCA</td>
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</tbody>
</table>

FOR ADDITIONAL INFORMATION PLEASE CONTACT YOUR SALES REPRESENTATIVE.
You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) from inside the USA or 1-770-798-5555 from outside the USA.

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