Clarity 110-SR is a Semi-Rigid Test and Measurement assembly designed for applications requiring low loss and phase stability. It maintains a specific shape once installed for use in enclosures or applications that require no movement of the cable assembly.

### Features
- Semi-Rigid design
- Low Loss
- Simple robust design
- Phase stable to 110 GHz

### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Diameter</td>
<td>in (mm)</td>
<td>0.26 (6.7)</td>
</tr>
<tr>
<td>Weight</td>
<td>1000 lb/ft</td>
<td>1.3</td>
</tr>
<tr>
<td>Min Bend Radius</td>
<td>in (mm)</td>
<td>0.25 (6.3)</td>
</tr>
<tr>
<td>Velocity of Propagation</td>
<td>%</td>
<td>69.5%</td>
</tr>
<tr>
<td>Shielding Effectiveness</td>
<td>dB</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Capacitance</td>
<td>pF/ft (pF/m)</td>
<td>29.2 (95)</td>
</tr>
<tr>
<td>VSWR Typical</td>
<td></td>
<td>1.45:1</td>
</tr>
<tr>
<td>VSWR Max</td>
<td></td>
<td>1.50:1</td>
</tr>
</tbody>
</table>

**CALCULATION**  
\[ IL = (K_1 \times \sqrt{f}) + K_2 \times f \times \text{Cable Length} \]

<table>
<thead>
<tr>
<th>k values</th>
<th>dB/ft</th>
<th>dB/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>K_1</td>
<td>1.040250</td>
<td>3.170682</td>
</tr>
<tr>
<td>K_2</td>
<td>0.001289</td>
<td>0.00392887</td>
</tr>
</tbody>
</table>

1) All tests performed in accordance with MIL-DTL-17 (current issue).  
2) All materials are RoHS and REACH compliant.  
3) IL @ 77°F (+25°C).
Ordering Guide

**Clarity™ 110 SEMI-RIGID**  
Test and Measurement

### CSR-110 - XXX XXX - XX.X XX

- **Connector A**  
- **Connector B**  
- **Length / 3 dig CM**  
- **Centimeters**

<table>
<thead>
<tr>
<th>Connector Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10M</td>
<td>1.0mm Male connector</td>
</tr>
<tr>
<td>10F</td>
<td>1.0mm Female connector</td>
</tr>
</tbody>
</table>

Global manufacturing capabilities.  
Tested assemblies provide assured performance.

Rev. 2: 05/2022