

# Clarity™ 110 SEMI-RIGID

## Test and Measurement

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.



## Specifications

$\Omega$  Impedance  
50 Ohms

Op Temp  
-67 to 257°F  
-55 to 125°C

### Units

Max Diameter	in (mm)	0.26 (6.7)
Weight	1000 lb/ft	1.3
Min Bend Radius	in (mm)	0.25 (6.3)
Velocity of Propagation	%	69.5%
Shielding Effectiveness	dB	>100
Capacitance	pF/ft (pF/m)	29.2 (95)
VSWR Typical		1.45:1
VSWR Max		1.50:1

**CALCULATION**  $IL = (K1 \times V(f)) + K2 \times (f) \times \text{Cable Length}$

(f) in MHz

Length unit must  
match K value unit

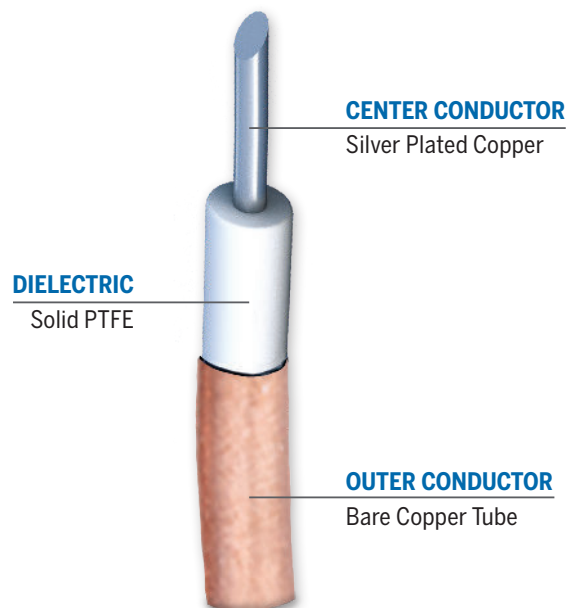
### k values

	dB/ft	dB/m
K1	1.040250	3.170682
K2	0.001289	0.00392887

- 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).

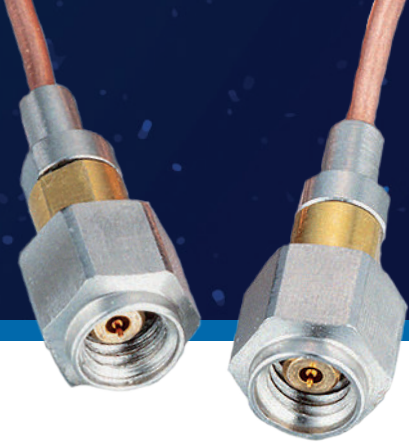
## Features

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



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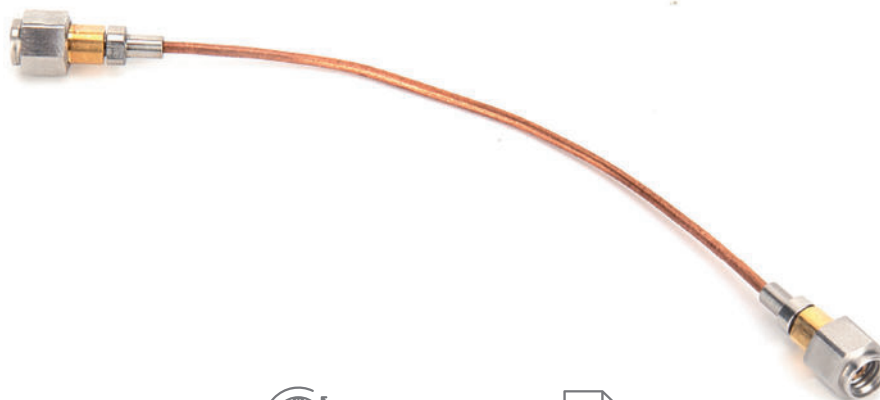


## Ordering Guide

CSR-110 - XXX XXX - XX.X XX

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

Connector Code	Description
10M	1.0mm Male connector
10F	1.0mm Female connector



Global manufacturing capabilities.



Tested assemblies provide assured performance.

Rev. 2: 05/2022