

# Clarity™ 110 SR

## Test and Measurement

Clarity 110-SR is for applications that require not only low loss and phase stability but, solves requirements for maintain a specific shape once installed. This can be useful for inside the enclosure 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

$\Omega$  Impedance  
50 Ohms

Op Temp  
-67 to 257°F  
-55 to 125°C

### Units

Diameter (max, unarmored)	in (mm)	0,26 (6,7)
Weight	pounds per 1000 ft	1.3
Min Bend Radius (unarmored)	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

## Attenuation @77°F (+25°C)

Frequency GHz	dB/ft	dB/m
110	4.87	14.83

Frequency MHz	dB/ft	dB/m
1000	0.342	1.042
10000	1.167	3.564
26500	2.034	6.202
70000	3.6545	11.139
110000	4.868	14.837

Attenuation (per 100ft) at any frequency:  
 $1.04025 \times \sqrt{f(\text{MHz})} + 0.001289 \times f(\text{MHz})$

**DIELECTRIC**  
Solid PTFE

**CENTER CONDUCTOR**  
Silver Plated Copper

**OUTER CONDUCTOR**  
Bare Copper Tube

**CALCULATION**  $IL = (K1 \times \sqrt{f}) + K2 \times (f) \times \text{Cable Length}$   
Cable Insertion Loss (f) is in MHz  
Length unit must match K value unit

k values	dB/ft	dB/m
K1 Max(MHz)	1.040250	3.170682
K2 Max(MHz)	0.001289	0.00392887

- 1) All tests performed in accordance with MIL-DTL-17 (current issue).
- 2) All materials are RoHS and REACH compliant.

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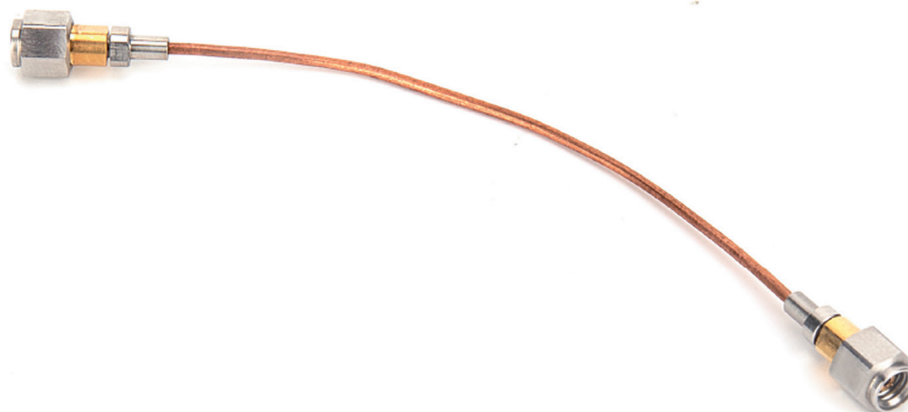


## Ordering Guide

CSR-110 - 10M 10M - 10.0 CM

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

CODE	Description
10M	1.0mm Male connector
10F	1.0mm Female connector



Global manufacturing capability: US, and Asia.



Heritage—in the air and on the ground, thousands of assemblies built over decades.



Assembled and tested assemblies provide assured performance.



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