



STEADY LINK™

# DATA SHEET

## SERIES-C LMR\* 400 COAXIAL CABLE ASSEMBLIES



NAI's STEADY LINK™ Series-C LMR\* Coax Cable Assemblies have been designed to provide durable and reliable short run feeder connections to antennae in WISP, SCADA, GPS, and mobile transmission of communication. These indoor/outdoor assemblies are well suited for connections in high frequency, low loss applications where routing space is minimal and multiple flexing is expected.

Series-C LMR 400 Assemblies are made to order with quick turn programs available.



### NAI COAX ASSEMBLY CONFIGURATOR

NAI's easy-to-use online configurator will walk you through a set of decisions to be made in order to provide you a quote or place an order for your coax assemblies.

[www.nai-group.com/configcoax](http://www.nai-group.com/configcoax)

## PRODUCT SPECIFICATIONS

### GENERAL DESCRIPTION

Impedance:	50 ohm
Lengths Available:	As Specified by Customer
Frequency (at 68°)	50 MHz - 2.96 db/100m

### CABLE SPECIFICATIONS

Center Conductor:	Bare Copper Covered/Clad Aluminum (BBCAL)
Dielectric:	Foam PE
Jacket Spark:	4000 Volts RMS
Voltage Withstanding:	3 seconds @ 2500 Volts DC
Insulation Resistance:	>100,000 MΩ-km
Shielding:	Aluminum tape (10/12 μm)
Outer Shield:	TC wire braid
Shielding Effectiveness:	30-2500 MHz >90 dB
Jacket:	PE
O.D.:	0.405"

### CONNECTOR SPECIFICATIONS

Connector Types Available:

#### N Male Plug



#### SMA Female Plug



Connector Body & Ferrule:	Brass (Nickel Plating)
Connector Nut:	Brass (Nickel Plating)
Center Contact Male:	Brass (Gold plating)
Dielectric:	PTFE
Sealing Material:	Silicone Rubber

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### PRODUCT SPECIFICATIONS (Continued)

#### ELECTRICAL SPECIFICATIONS

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<b>Impedance:</b>	50 Ohms
<b>Inner Dielectric:</b>	Foam PE
<b>Velocity of Propagation:</b>	> 82%
<b>Return Loss (VSWR):</b>	@ 30-2200 MHz = 21 dB
<b>Attenuation ±10%:</b>	5800 MHz - 35.50 dB/100m

#### MECHANICAL SPECIFICATIONS

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<b>Bend Radius (min):</b>	1 Inch
<b>Tensile (max):</b>	355 N
<b>Crush Resistance:</b>	40 lbs.
<b>Sealing:</b>	Available
<b>Operating Temperatures:</b>	-40°C to +85°C

#### STEADY LINK™ ASSEMBLIES AND OPTIONS FROM NAI

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NAI Series-C 50-Ohm Coax Cable Assemblies and Series-S GPS & Sync Cable Assemblies offer a variety of standard assembly configurations. Refer to the respective data sheet for each type.

- Series-C Low PIM 50-Ohm Corrugated Coax Assemblies with Straight-to-Straight Connectors
- Series-C Low PIM 50-Ohm Corrugated Flexible Coax Assemblies with Straight-to-Straight Connectors
- Series-C LMR\* 400 Coax Assemblies
- Series-C LMR\* 240 Coax Assemblies
- Series-S GPS and Sync Cable Assembly
- Series-C Low PIM 50-Ohm Corrugated Flexible Coax Assemblies with Next10\*\* Connectors
- Series-C Low PIM 50-Ohm Corrugated Flexible and Regular Assemblies with Right Angle to Right Angle Connectors

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\*\* Nex10 is a registered trademark of the Huber+Suhner, Radiall and Rosenberger consortium.