



STEADY LINK®

DATA SHEET

SERIES-C

LMR* 240 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 240 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

*Trademark of Times Microwave Systems, Inc.

PRODUCT SPECIFICATIONS

GENERAL DESCRIPTION

| | |
|--------------------------|---|
| Impedance: | 50 Ohm (+/- 1 Ohm) |
| Lengths Available: | As Specified by Customer |
| Frequencies: | 30 MHz to 6 GHz (N type to 1.0-2.3 RA) |
| Peak Power: | 5.60 kW |
| Velocity of Propagation: | 84% |

CABLE SPECIFICATIONS

| | |
|------------------------|---------------------------------|
| Center Conductor: | Solid Bare Copper |
| Dielectric: | Foam PE |
| Insulation Resistance: | >5,000 MΩ-km |
| Voltage Withstanding: | 1500 VDC |
| Shielding: | Bonded Aluminum Foil / TC Braid |
| Jacket: | PE |
| O.D.: | 6.10mm (+/- 0.10mm) |
| Standards: | RoHS Compliant |

CONNECTOR SPECIFICATIONS

Connector Types Available:

N Male – Straight



1.0-2.3 DIN Connector Male – Straight Push-Pull



1.0-2.3 DIN Connector Male – Right Angle Push-Pull



SMA Male & Female – Straight





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PRODUCT SPECIFICATIONS (Continued)

MATERIAL SPECIFICATIONS

| COMPONENT | N CONNECTOR | 1.0-2.3 DIN CONNECTOR | SMA CONNECTOR-MALE | SMA CONNECTOR-FEMALE |
|------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|
| Connector Body | Brass (Nickel Plating) | Brass (Nickel Plating) | Stainless Steel | Brass (Nickel Plating) |
| Coupling Nut | Brass (Nickel Plating) | - | Stainless Steel | NA |
| Center Contact | Brass (Gold Plating) | Brass (Gold Plating) | Beryllium Copper (Gold Plating) | Beryllium Copper (Gold Plating) |
| Outer Contact | - | Beryllium Copper (Gold Plating) | Gold Plate | Brass (Nickel plating) |
| Dielectric | PTFE | PTFE | PTFE | PTFE |
| Sealing Material | Silicone Rubber | - | Silicone Rubber | NA |

ELECTRICAL SPECIFICATIONS

| SPECIFICATIONS | N CONNECTOR | 1.0-2.3 DIN CONNECTOR | SMA CONNECTOR-MALE | SMA CONNECTOR-FEMALE |
|---------------------------------|-------------|-----------------------|--------------------|----------------------|
| Impedance | 50 ohm | 50 ohm | 50 ohm | 50 ohm |
| Frequency Range | DC - 11 GHz | DC - 6 GHz | DC - 12.4 GHz | DC - 12.4 GHz |
| Working Voltage | 500 VRMS | 250 VRMS | 480 VRMS | 480 VRMS |
| Dielectric Withstanding Voltage | - | 750 VRMS | 1,000 VRMS | - |
| VSWR | 1.50:1 Max. | 1.50:1 (RA) | 1.2 Max. | 1.2 Max. |

Attenuation +/- 10%: 30 MHz - 5800 MHz
1.34 - 20.4 dB/100ft

MECHANICAL SPECIFICATIONS

| | |
|-------------------------|-----------------|
| Bend Radius: | 19.1mm |
| Tensile: | 372 N |
| Crush Resistance: | <1% (700N load) |
| Sealing: | Available |
| Operating Temperatures: | -55°C to +85°C |

*Trademark of Times Microwave Systems, Inc.

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

OTHER STEADY LINK® ASSEMBLIES AND OPTIONS FROM NAI

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 Assemblies
- 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