



STEADY LINK®

DATA SHEET

SERIES-C

1/2 IN. RF50 CORRUGATED COAXIAL CABLE ASSEMBLIES FLEXIBLE LOW PIM ASSEMBLIES WITH NEX10* CONNECTORS



These Flexible Series-C Low PIM Coax Cable Assemblies have been designed to provide durable and reliable connections for transmitters, receivers, antennas and other applications in antenna feeder systems on cell towers. This assembly with Nex10 connectors is also well suited for small cell, MIMO and in-building DAS applications.

The assembly features low VSWR and strong shielding effectiveness to reduce energy loss and provide protection from outside interference. Part of NAI's STEADY LINK® line, these flexible assemblies with Nex10 connectors are well suited for connections in low loss and VSWR signal transmission at high frequency applications.

The lightweight and robust Nex10 connectors provide excellent modulation performance for outdoor telecom applications up to 20 GHz. Its miniature form is 50% smaller as compared to a 4.3-10 connector. This Low PIM connector provides multiple coupling mechanisms.

Flexible Series-C Low PIM Coax Assemblies with Nex10 connectors are made to order from inventoried materials 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

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

PRODUCT SPECIFICATIONS

GENERAL DESCRIPTION

Impedance:	50 ohm
Lengths Available:	As Specified by Customer
Frequencies Range:	DC - 20 GHz
Peak Power:	15.5kW

CABLE SPECIFICATIONS

Center Conductor:	Copper-plated Aluminum
Dielectric:	Foam PE
Outer Shield:	Helical Corrugated Copper
Jacket:	PE
O.D.	.527"

CONNECTOR SPECIFICATIONS

Nex10 for 1/2" Flexible Coax Cable



Connector Body:	Brass, with BBR plate
Outer Contact:	
Male:	Beryllium Copper, with Silver plate
Center Contact:	
Male:	Brass, with Silver plate
Dielectric:	PTFE
Sealing Material:	Silicone Rubber
Standards:	RoHS Compliant

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PRODUCT SPECIFICATIONS (Continued)

ELECTRICAL SPECIFICATIONS

Impedance:	50 ohm
Frequency:	DC to 6,000 MHz
PIM:	≤ -160 dBc minimum
Standard:	IEC 61196-1
Return Loss (VSWR):	0.01 GHz-6.0 GHz, RL < -36 dB to < -20 dB, [1.03-1.22]

MECHANICAL SPECIFICATIONS

Bend Radius:	25mm Single
Tensile:	300N
Crush Resistance:	2.0 kg/mm
Sealing:	IP 68
Operating Temperatures:	-55°C to ~+80°C
Rel. Humidity:	-40°C +/- 2°C, 90~95% @ 48 hours
Storage Temperature:	-55°C to ~+80°C

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

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