



STEADY LINK™

# DATA SHEET

## SERIES-S

### GPS & SYNC CABLE ASSEMBLIES

With High-Definition Multimedia Interface Connectors



NAI's STEADY LINK™ Series-S GPS & Sync Cable Assemblies have been designed to provide high precision FTSP performance for use with Nokia AirScale\* wireless systems and cellular installations. Series-S GPS & Sync Cable Assemblies are intended for the growing use of 5G to accommodate a variety of applications, from Small Office/Home Office (SOHO) to airports, commercial enterprises and even deep rural villages.

These interconnects support the challenges of the rapidly developing Internet of Things (IoT) for high capacity networks with simultaneously connected devices and low-latency. AirScale and similar technologies increase cell capacity, lower the total cost of ownership (TCO) and brings 5G more quickly to consumers and businesses.

NAI Series-S GPS & Sync Cable Assemblies connect the devices used in these wireless technologies and networks, such as connecting radios in a base station. They are suitable for indoor and outdoor applications that meet the IEEE 802.11ac / Wi-Fi 5 standard for WLANs.

GPS & Sync Cable Assemblies can be made to order from inventoried materials with quick turn programs available.



#### HOW TO GET A QUOTE FOR GPS & SYNC CABLE ASSEMBLIES

For the standard 5 and 15 meter assemblies, please select the appropriate part number and identify the number of assemblies required at:

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

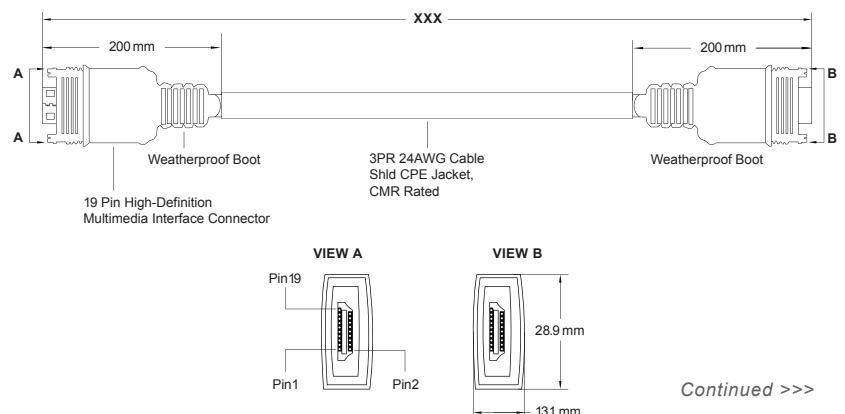
If you wish to order custom lengths, select Part # NAI-5251-XXX, and identify the length required for "XXX" (max. length 15 meters) and the number of assemblies you want at:

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

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## NAI SERIES-S GPS & SYNC CABLE ASSEMBLY PART NUMBERS

PART NUMBERS	LENGTH (XXX)
NAI-5251-005	5 Meters/16.4 ft
NAI-5251-015	15 Meters/49.21 ft
NAI-5251-XXX	XXX = Number of Feet or Meters (Please specify length up to max. 15 meters)



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## PRODUCT SPECIFICATIONS

### GPS & SYNC CABLE SPECIFICATIONS

Cable used for the GPS & Sync Assembly is 24 AWG 3 pair, shielded, CMR rated. It is also moisture/water resistant and RoHs compliant.

### HIGH-DEFINITION MULTIMEDIA INTERFACE CONNECTOR SPECIFICATIONS



**Boot & Strain Relief - Retracted**

<b>Connector Style:</b>	High-Definition Multimedia Interface Type A (both ends)
<b>PIN Configuration:</b>	19 Pin
<b>Wire Termination:</b>	Soldered
<b>Contact Material:</b>	Gold plated, with Nickel Copper Shell
<b>Strain Relief:</b>	Over-molded Flexible PVC, Black
<b>Boot:</b>	Fits Nokia Sync Port (IP67, UV Stable); PN# TMC 825640B
<b>Width with Boot:</b>	24.36 mm +/- .25, .95" +/- .001



**Boot & Strain Relief - Final Position**

### ELECTRICAL SPECIFICATIONS

<b>Nominal DC Resistance:</b>	24ohms/1000 ft. Max. (Cable)
<b>Operating Voltage (Max.):</b>	300RMS
<b>Insulation Resistance:</b>	10MΩ Min. (Cable)
<b>Hi-Pot:</b>	200VDC

### MECHANICAL SPECIFICATIONS

<b>Bend Radius (min):</b>	2.6" (Cable)
<b>Weight:</b>	.05Lb/Ft (55 Lbs per 1,000 ft of material)
<b>Compression:</b>	57 Lbs/In
<b>Weatherproof Boot:</b>	Fits Nokia Sync port (IP67,UV Stable); PN# TMC 825640B
<b>Pin Termination/Color</b>	Available Upon Request

### ENVIRONMENTAL SPECIFICATIONS

<b>Operating Temperature:</b>	-40°F to +167°F
<b>Storage Temperature:</b>	-40°F to +167°F
<b>Environmental Protection:</b>	IP67 Rated
<b>UV:</b>	IEC 60068-2-5 (C: 56 days 40°C)
<b>Thermal Cycle:</b>	IEC 60068-2-14 or Equivalent
<b>Vibration:</b>	IEC 60068-2-64 or Equivalent
<b>Packaged Drop Shock:</b>	IEC 60068-2-31 or Equivalent
<b>Immersion IP67:</b>	IEC 60529 or Equivalent
<b>Salt Mist Cyclic Corrosion:</b>	IEC 60068-2-11 or Equivalent
<b>Impact:</b>	2.17 Ft/Lb

### 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 (This Data Sheet)
- 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

\*Trademark of Times Microwave Systems, Inc.

\*\* Next10 is a registered trademark of the Huber+Suhner, Radiall and Rosenberger consortium.