

LAIRD 400-RPSMA-N-XXX DATASHEET

The Laird 400-RPSMA-N is a series of ultra-low loss antenna cables that allows for longer runs with no signal degradation and is 802.11 a/b/g compatible. The 400-RPSMA-N is ideal for wireless antenna communication, wireless microphones, and radio communications because it maintains signal strength on longer runs. The 400-RPSMA-N series is designed to ensure data signals travel efficiently over long distances while providing strong signal strength and minimal interference. Laird also offers BNC and N-Type Extension cables.

Features:

- Utilizes Belden 7810A cable and High-Quality Amphenol RF BNC connectors
- Outdoor Rated, Sunlight Resistant. UV Resistant
- Designed for Low Loss (attenuation), and Low Voltage Standing Wave Ratio (VSWR)
- Excellent performance across long distance



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Specifications:

- **RG Type:** 8
- **Conductor AWG:** 10
- **Conductor Stranding:** Solid
- **Conductor Nom. Diameter:** 0.111in (2.819mm)
- **Conductor Material:** Bare Copper Covered Aluminum-BCCA
- **Insulation Material:** Polyethylene - PE - (Foam)
- **Insulation Nom. Diameter:** 0.285in (7.24mm)
- **Outer Shield Layer 1 Type:** Tape
- **Outer Shield Layer 1 Material/Coverage:** Tri-Laminate (Alum+Poly+Alum)/100%
- **Outer Shield Layer 2 Type:** Braid
- **Outer Shield Layer 2 Material/Coverage:** Tinned Copper (TC)/95%
- **Outer Jacket Material:** Polyethylene - PE
- **Outer Jacket Nom. Diameter:** 0.403in (10.2mm)
- **Overall Cable Diameter:** 0.403in (10.2mm)
- **Nom. Conductor DCR:** 1.3 Ohm/1000ft
- **Nom. Outer Shield DCR:** 2.0 Ohm/1000ft (6.6 Ohm/km)
- **Nom. Capacitance Cond-to-Shield:** 23 pF/ft (75 pF/m)
- **Nom. Characteristic Impedance:** 50Ω
- **Nom. Velocity of Prop:** 86%
- **VSWR:** 5 - 6000 MHz - 1.25:1
- **Voltage Rating:** 300V
- **Temperature:** -40°F to 176°F (-40°C to +80°C)
- **Bend Radius:** 2.0in (51mm)
- **Max Pull Tension:** 145lbs (65.8 kg)
- **Weight:** 0.077lbs/ft

LAIRD 400-RPSMA-N SERIES

Specifications:

Amphenol N-Type Connectors:

- **Body Finish:**
 - **RP-SMA:** Gold
 - **N-Type:** White Bronze
- **Body Material:** Brass
- **Contact Finish:** Gold
- **Contact Material:**
 - **RP-SMA:** Beryllium Copper
 - **N-Type:** Brass
- **Coupling Mechanism:** Threaded
- **Frequency (Max GHz):**
 - **RP-SMA:** 12.4 GHz
 - **N-Type:** 11 GHz
- **Impedance (Ohms):** 50Ω
- **Insulator Material:** PTFE
- **Temperature:** -85°F to 329°F (-65°C to 165°C)