

## 200-RPSMA-NF DATASHEET

The Laird 200-RPSMA-NF series of ultra-low loss antenna cables allows for longer runs with no signal degradation and is 802.11 a/b/g compatible. The RPSMA-NF is ideal for wireless antenna communication, wireless microphones, and radio communications because it is designed to ensure data signals travel efficiently over long distances while providing strong signal strength and minimal interference. Laird also offers RPSMA, RPTNC, N-Type, and BNC Type Extension cables.

### Features:

- Utilizes Belden-7807A cable and High-Quality Amphenol RF Connectors
- Indoor/outdoor rated
- Designed for Low Loss (attenuation), Low Passive intermodulation (PIM), and Low Voltage Standing Wave Ratio (VSWR)
- Excellent performance across long distances



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### Specifications:

- **RG Type:** 58
- **Conductor AWG:** 17
- **Conductor Stranding:** Solid
- **Conductor Nom. Diameter:** 0.044 in (1.117mm)
- **Conductor Material:** Bare Copper-BC
- **Overall Cable Diameter:** 0.195 in (4.95 mm)
- **Insulation Material:** Polyethylene - PE - (Foam)
- **Insulation Nom. Diameter:** 0.116 in (2.95 mm)
- **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:** 0.195 in (4.95 mm)
- **VSWR:** 5 - 6000 MHz - 1.25:1
- **Nom. Conductor DCR:** 5.4 Ohm/1000ft
- **Nom. Outer Shield DCR:** 3.6 Ohm/1000ft (12 Ohm/km)
- **Nom. Capacitance Cond-to-Shield:** 23.5 pF/ft (77.1 pF/m)
- **Nom. Characteristic Impedance:** 50  $\Omega$
- **Nom. Velocity of Prop:** 85%
- **Temperature:** -40°F to 176°F (-40°C to +80°C)
- **Flexing Bend Radius:** 1.9 in (48 mm)
- **Max Pull Tension:** 25.4lbs (11.5 kg)
- **Weight:** 0.026lbs/ft

### Amphenol Connectors:

- **Body Finish:**
  - **N-Type:** White Bronze
  - **RP Connector:** Gold
- **Body Material:** Brass
- **Contact Finish:** Gold
- **Contact Material:**
  - **N-Type:** Phosphor Bronze
  - **RP Connector:** Brass
- **Coupling Mechanism:** Threaded
- **Frequency (Max GHz):** 11
- **Impedance (Ohms):** 50  $\Omega$