



Radio Frequency Systems line of high performance coaxial cable connectors are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up the attachment of connectors to Air Dielectric Cable® coaxial cables. RFS connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. The N connector is one of the most common RF connector types. N type connectors from RFS will be delivered with a non-slotted outer conductor contact sleeve and a special gasket. Due to a special design of the coupling nut (without spring ring) N connectors can be tightened with increased torque. This increases the contact pressure.

**FEATURES / BENEFITS**

- Solderless - Captivated spring finger contacts permit quick, easy and precise solderless installation utilizing only basic hand tools. Avoids the high impedance risk associated with soldering.
- Corrosion-Proof Silver Plated Contacts - Featured even on standard connectors. Provide improved contact resistance and lower intermodulation.
- Outstanding Electrical Performance - Metal to Metal contact between cable and connector - no plastic parts used. Secure connection highly resistant to pull-off or twist-off provides long-term mechanical integrity. Resistant to intermodulation after temperature cycling.
- Easy to Install - No special tools needed. Only basic hand tools required. No additional costs to the installer.



Connector N plug

[External Document Links](#)

[Notes](#)

**Technical features**

**GENERAL SPECIFICATIONS**

|                        |  |                  |
|------------------------|--|------------------|
| Transmission Line Type |  | Coaxial Cable    |
| Cable Size             |  | 1-5/8            |
| Cable Type             |  | Air Dielectric   |
| Model Series           |  | HCA158-50 Series |
| Connector Interface    |  | N                |
| Connector Type         |  | Straight         |
| Sealing Method         |  | O-ring           |
| Gender                 |  | Male             |

**MECHANICAL SPECIFICATIONS**

|                          |         |              |
|--------------------------|---------|--------------|
| Plating Outer/Inner      |         | Brass/Silver |
| Length                   | mm (in) | 133 (5.25)   |
| Outer Diameter           | mm (in) | 63 (2.5)     |
| Inner Contact Attachment |         | Threaded     |
| Outer Contact Attachment |         | Tab Flare    |

**ACCESSORIES**

|                   |         |            |
|-------------------|---------|------------|
| Wrench size front | mm (in) | 29 (1-1/8) |
| Wrench size rear  | mm (in) | 58 (2-1/4) |