



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 Technologies connectors are fully tested for mechanical and electrical compliance specifications. They are available in all popular cable sizes in a variety of mating interfaces. To join two cables with EIA connectors, two identical socket connectors are installed on either end of the cables to be joined, and a coupling element is used to make the connection of the center conductor. The coupling element must be ordered separately with the exception of the S-Line male versions that have a captivated coupling element. Connectors are available in sizes matching the nominal cable size. EIA connectors provide optimal power handling for the complete transmission line system.;

**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.
- Self Flaring - Self flaring design reduces installation time and thus, saves on labor costs.
- 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.

**Technical features**

**GENERAL SPECIFICATIONS**

|                        |  |                  |
|------------------------|--|------------------|
| Transmission Line Type |  | Coaxial Cable    |
| Cable Size             |  | 2-1/4            |
| Cable Type             |  | Air Dielectric   |
| Model Series           |  | HCA214-50 Series |
| Connector Interface    |  | 3-1/8" EIA       |
| Connector Type         |  | Gas Barrier      |
| Sealing Method         |  | O-ring           |
| Gender                 |  | None             |

**MECHANICAL SPECIFICATIONS**

|                          |         |              |
|--------------------------|---------|--------------|
| Plating Outer/Inner      |         | Brass/Silver |
| Length                   | mm (in) | 127 (5)      |
| Outer Diameter           | mm (in) | 136.8 (5.2)  |
| Inner Contact Attachment |         | Threaded     |
| Outer Contact Attachment |         | Tab Flare    |

**ACCESSORIES**

|                   |         |            |
|-------------------|---------|------------|
| Wrench size front | mm (in) | 67 (2-5/8) |
| Wrench size rear  | mm (in) | 67 (2-5/8) |

[External Document Links](#)  
[Installation Instruction](#)

[Notes](#)