

## 7-16 DIN Male Connector for 7/8" Coaxial Cable, RAPID FIT™ Sealing compound

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 HELIFLEX® 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 7-16 connector is the most rugged RF connection meeting all requirements even under severe environmental conditions.



Connector 7-16 plug CAF

### FEATURES / BENEFITS

- ➡ Excellent gas tightness, Overpressure for increased voltage handling is maintained throughout the system
- ➡ Robust Mechanical Design, Superior and consistent performance guarantees outstanding system characteristics.
- ➡ Extremely low reflection factor, Outstanding low reflection factor improves overall system performance and margin and reduces mismatch losses
- ➡ Totally Waterproof according to IP 68, Assures safe, long term operation in the harshest of environments. System tightness doesn't have to rely on overpressure from dehydration equipment.

### Technical Features

#### GENERAL SPECIFICATIONS

|                        |  |                                |
|------------------------|--|--------------------------------|
| Transmission Line Type |  | Coaxial Cable                  |
| Cable Size             |  | 7/8"                           |
| Cable Type             |  | Air Dielectric                 |
| Model Series           |  | HCA78-50 Series                |
| Connector Interface    |  | 7-16 DIN                       |
| Connector Type         |  | RAPID FIT™                     |
| Sealing Method         |  | Sealing compound <sup>1)</sup> |
| Gender                 |  | Male                           |

#### MECHANICAL SPECIFICATIONS

|                          |         |               |
|--------------------------|---------|---------------|
| Plating Outer/Inner      |         | Silver/Silver |
| Length                   | mm (in) | 74 (2.91)     |
| Outer Diameter           | mm (in) | 39.5 (1.55)   |
| Weight                   | kg (lb) | 0.4 (0.88)    |
| Inner Contact Attachment |         | Spring Finger |
| Outer Contact Attachment |         | Threaded      |

#### ACCESSORIES

|                   |         |             |
|-------------------|---------|-------------|
| Wrench size front | mm (in) | 36 (1-7/16) |
| Wrench size rear  | mm (in) | 32 (1-1/4)  |

#### TESTING AND ENVIRONMENTAL

|                |                          |          |
|----------------|--------------------------|----------|
| Sealing Volume | cm <sup>3</sup> (ounces) | 5 (0.17) |
|----------------|--------------------------|----------|

### External Document Links

Installation Instruction

### Notes

<sup>1)</sup> The sealing compound must be ordered separately.