

7-16 DIN Female Connector for 1-1/4" Coaxial Cable, OMNI FIT standard, O-ring sealing

### Product Description

OMNI FIT high performance connectors are designed for use with both CELLFLEX (copper) and CELLFLEX Lite (aluminum) cables. They are designed specifically to provide the highest quality connector-cable interface while simplifying and speeding up connector attachment. All RFS connectors are fully tested for mechanical and electrical compliance to industry specifications. The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions.

OMNI FIT Standard Connectors

### Features/Benefits

- **Cost effective two-piece design for safe and easy installation**
- **Compatible with copper and aluminium cable types i.e. one connector for both outer conductor materials eliminates the risk of faulty connector installation and helps to keep inventory down**
- **Robust mechanical design for low and consistent intermodulation performance i.e. keeps the mobile network performance up, reduces the number of dropped calls and avoids revenue losses**
- **Superior electrical performance for consistent and repeatable low VSWR i.e. improved network system performance**
- **Waterproof to IP 66/68 i.e. no downtime risk, secures revenue**
- **RoHS (EU) and CRoHS (China) compliant i.e. can be used on a global basis**

### Technical Specifications

Transmission Line Type	Coaxial Cable
Cable Size	1-1/4"
Cable Type	Foam Dielectric, Foam Dielectric, Ultraflexible, Radiating
Mating Interface	7-16 DIN
Connector Type	OMNI FIT
Sealing Method	O-ring
Gender	Female
Plating Outer/Inner	Three metal/Silver
Length, mm (in)	79.0 (3.11)
Outer Diameter, mm (in)	49.0 (1.93)
Weight, kg (lb)	0.4 (0.88)
Inner Contact Attachment	Spring Finger
Outer Contact Attachment	Spring Finger
3rd Order IM Product @ 2x20 Watts, dBc	<-155
Return Loss (VSWR) for DC < f ≤ 1GHz, dB (-)	36.6 dB (1.03:1)
Return Loss (VSWR) for 1 < f ≤ 2.7GHz, dB (-)	32.3 dB (1.05:1)
Return Loss (VSWR) for 2.7 < f ≤ 3.7GHz, dB (-)	28 dB (1.08:1)
Wrench size front, mm (in)	Poly Hook Spanner Wrench
Wrench size rear, mm (in)	Poly Hook Spanner Wrench
Trimming Tool	TRIM-Series-A
Waterproof Level	IP66 and IP68

### Notes

All information contained in the present datasheet is subject to confirmation at time of ordering