

## 7-16 DIN Female Connector for 1/2" Coaxial SuperFlexible Cable, OMNI FIT™ standard

### 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**
- **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**
- **Standard electrical performance for consistent and repeatable VSWR i.e. ensure network system performance**
- **Waterproof to IP 68 i.e. no downtime risk, secures revenue**
- **RoHS (EU) compliant i.e. can be used on a global basis**

### Technical Specifications

Transmission Line Type	Coaxial Cable
Cable Size	1/2"
Cable Type	Foam Dielectric Superflexible
Model Series	SCF12-50 Series
Connector Interface	7-16 DIN
Nominal Impedance, ohms	50
Connector Type	OMNI FIT™ Standard
Sealing Method	O-ring
Gender	Female
Plating Outer/Inner	Trimetal/Silver
Length, mm (in)	46.9 (1.85)
Outer Diameter, mm (in)	29.0 (1.14)
Weight, kg (lb)	0.075 (0.165)
Inner Contact Attachment	Basket
Outer Contact Attachment	Rigidity impaction
3rd Order IM Product @ 2x20 Watts, dBc	<-155
Maximum Frequency, GHz	3.7
VSWR (Return Loss) for $0 < f \leq 1.0\text{GHz}$	1.03:1 (36.6 dB)
VSWR (Return Loss) for $1.0 < f \leq 2.7\text{GHz}$	1.04:1 (34.1 dB)
VSWR (Return Loss) for $2.7 < f \leq 3.7\text{GHz}$	1.08:1 (28.3 dB)
Wrench size front, mm (in)	18 (7/10)
Wrench size rear, mm (in)	18 (7/10)
Waterproof Level	IP68

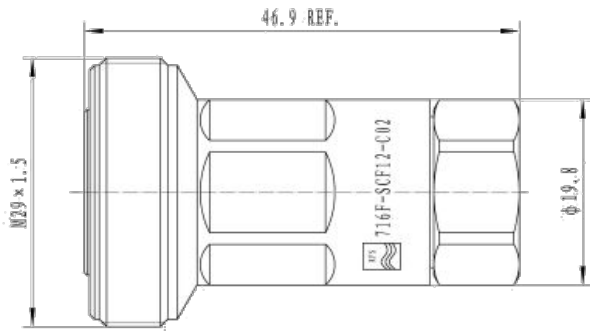
### Notes

### Other Documentation

Installation instruction: [2800125-B.pdf](#)



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