

2477172-1 ✓ ACTIVE

TE Internal #: 2477172-1

SMC RF Interface, Plug, 50 ohm, RG 174/U / RG 188 A/U / RG 316 /U, Threaded, 0 – 6 GHz Operating Frequency, Cable-to-Cable, 1 Position, Wire & Cable

[View on TE.com >](#)



Connectors > RF Connectors > Coax Connectors



RF Interface: **SMC**

RF Connector Style: **Plug**

RF Connector Mated Outer Diameter (Approximate): **6 mm [ .236 in ]**

Impedance: **50 Ω**

Compatible With RF Cable Type: **RG 174/U, RG 188 A/U, RG 316/U**

## Features

### Product Type Features

RF Interface	SMC
RF Connector Style	Plug
Compatible With RF Cable Type	RG 174/U, RG 188 A/U, RG 316/U
Connector System	Cable-to-Cable
Sealable	No
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Number of Positions	1
Number of Coaxial Contacts	1

### Electrical Characteristics

Impedance	50 Ω
-----------	------

### Body Features

Body Underplating Material	Nickel
Cable Connector Orientation	Right Angle



Body Material	Brass
Body Material Finish	Plated
Body Plating Material	Gold

#### Contact Features

RF Connector Center Contact Underplating Material	Nickel
	30 µin
RF Connector Contact Configuration	Captivated Contacts
Ferrule Plating Material	Gold
Crimp Type	Hexagonal Crimping
Ferrule Material	Brass
RF Connector Center Contact Plating Material	Gold
RF Connector Center Contact Material	Beryllium Copper

#### Termination Features

Termination Method to Wire & Cable	Solder
------------------------------------	--------

#### Mechanical Attachment

RF Connector Coupling Mechanism	Threaded
Connector Mounting Type	Cable Mount (Free-Hanging)
RF Contact Captivation Method	Mechanical
Detent	Without

#### Dimensions

Product Length	14.6 mm[.575 in]
RF Connector Mated Outer Diameter (Approximate)	6 mm[.236 in]

#### Usage Conditions

Operating Temperature Range	-65 – 165 °C[-85 – 329 °F]
-----------------------------	----------------------------

#### Operation/Application

Operating Frequency	0 – 6 GHz
---------------------	-----------

#### Packaging Features

Packaging Quantity	1
Packaging Method	Bag

#### Other

Coupling Nut Plating Material	Gold
Coupling Nut Plating Finish	Plated



Outer Contact Plating Material	Gold (Au)
Coupling Nut Base Material	Brass
Dielectric Material	PTFE

## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (3.34% in Component Part) <b>Article Safe Usage Statements:</b> Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

## Compatible Parts



## Documents

### Product Drawings

[SMC Plug RA Crimp RG174 188A 316 6 GHz](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_2477172-1\\_1.3d\\_stp.zip](#)

English

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2477172-1\\_1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2477172-1\\_1.3d\\_igs.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[SMC-Connectors-Product-Extension-en-flyer](#)

English

### Product Specifications

[Product Specification](#)

English