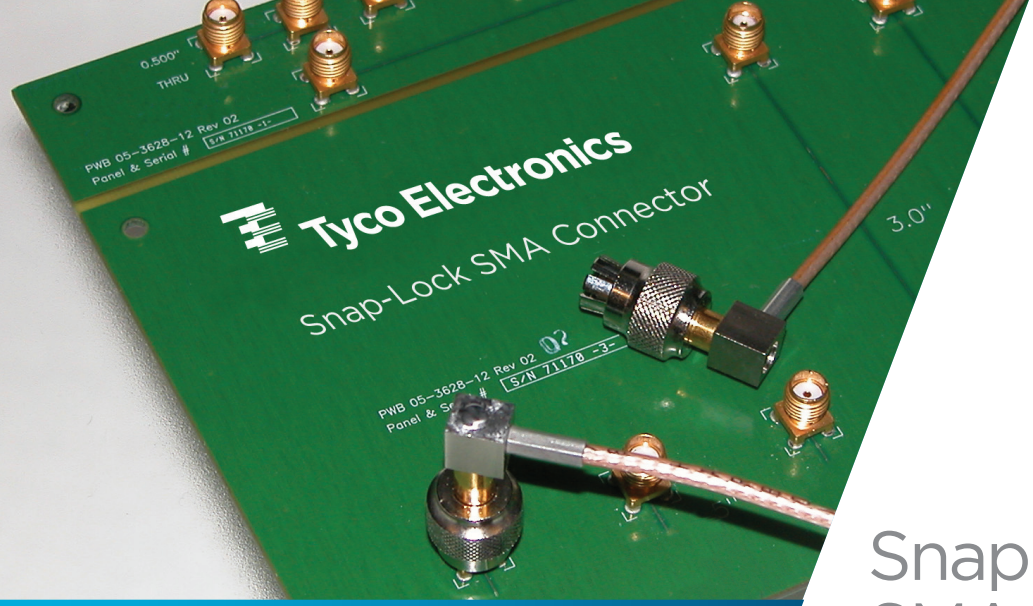


RoHS Ready

Snap-Lock SMA Series

DESCRIPTION

Snap-on version of popular SMA Series Connector.

- Snap-on interface facilitates assembly
- Same dependable performance as standard SMA connection

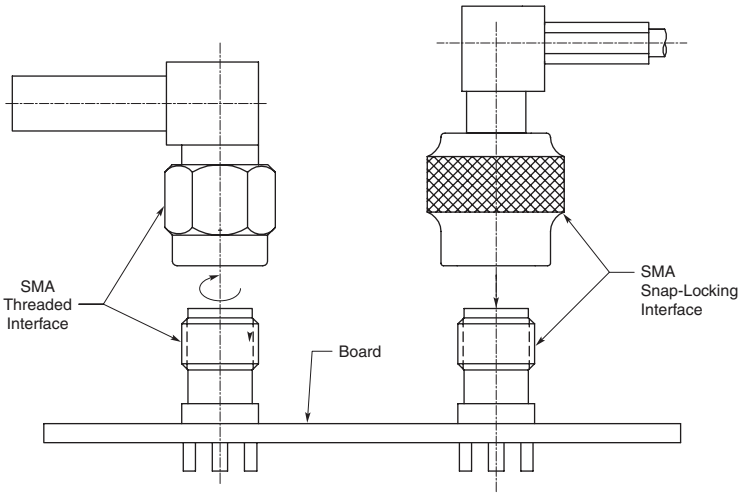
APPLICATIONS

- Mobile Base station filters and cable assemblies
- Telephony applications, Wireless LAN
- Instrumentation and remote measuring equipment
- Mil Aero, SatCom, Radar

KEY FEATURES

- Similar performance and applications to standard SMA Series
- Mates with standard SMA threaded jacks
- Time saving and user friendly snap on/off mating
- Excellent performance to 6 GHz
- No torquing of connector required
- Free rotation of mated connection
- Higher packaging density can be achieved
- Backwards compatibility with existing systems

Tyco Electronics Snap-Lock SMA is fully intermatable with standard SMA jacks and Tyco Electronics SMA bulkhead jacks.



- Product Specification/Design Objectives: 108-2268
- Snap-Lock SMA Sample Kit: 3-1773447-5

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ELECTRICAL

- Characteristic Impedance: 50 Ohms
- Frequency Range: DC to 6 GHz
- VSWR: Straight Plug (RG316 cable or equivalent)
  1.25 max. DC — 6 GHz
  Right-Angle Plug (RG316 cable or equivalent)
  1.38 max. DC — 6 GHz
- Rated Voltage: 335 VAC rms, 60 Hz (at sea level)
- Dielectric Withstanding Voltage: 1000 VAC rms, 60 Hz (at sea level)
- Insulation Resistance: 5000 Megohms min.
- Contact Resistance: 3 milliohms max. (center contact)
  2 milliohms max. (outer contact)

MECHANICAL

- Engagement Force: 15 lbs. max. (cable applied plugs)
- Disengagement Force: 1 lb. min. (cable applied plugs)
- Interface Retention Force: 15 lbs. min.
- Mating: Mates with standard SMA thread length of .200 ± .005
- Durability: 500 cycles min.
- Vibration: EIA-364-28, Method VII
- Shock: EIA-364-27, Method H
- Cable Retention: 20 lbs. min. (cable dependent)

ENVIRONMENTAL

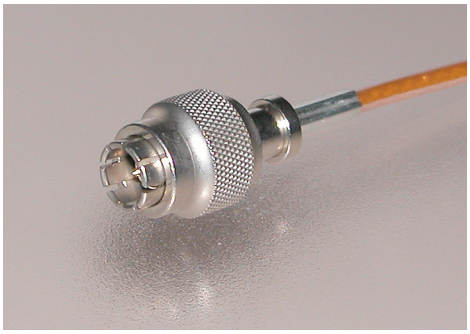
- Operating Temperature: -65°C to +165°C (cable dependent)
- Thermal Shock: EIA-364-32, 5 cycles, -65°C and +85°C
- Humidity: EIA-364-31, Method II, Condition B
- Mixed Flowing Gas: EIA-364-65, Class IIA

MATERIAL AND FINISH

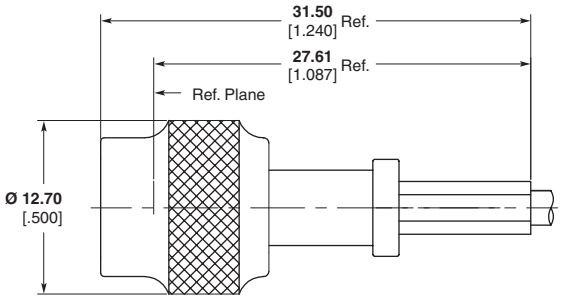
Part Description	Material	Plating Finish
• Outer Contact	Copper Alloy	Gold
• Outer Sleeve		
Cable Plug	Brass	Nickel
Adapter	Stainless Steel	Passivate
• Center Contact		
Cable Plug	Brass	Gold
Adapter	Copper Alloy	Gold
• Inner Locking Collar	Copper Alloy	Nickel
• Insulator	PTFE	
• Retaining Ring (Adapter Only)	Carbon Steel	Nickel

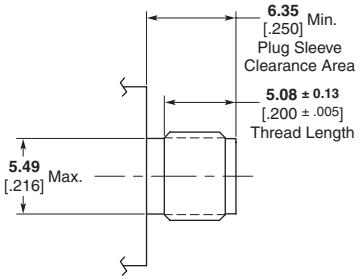
Flexible Cable — Crimp Attachment

Straight Cable Plug



Part Number	Cable
1408541-1	RG-316 or equivalent



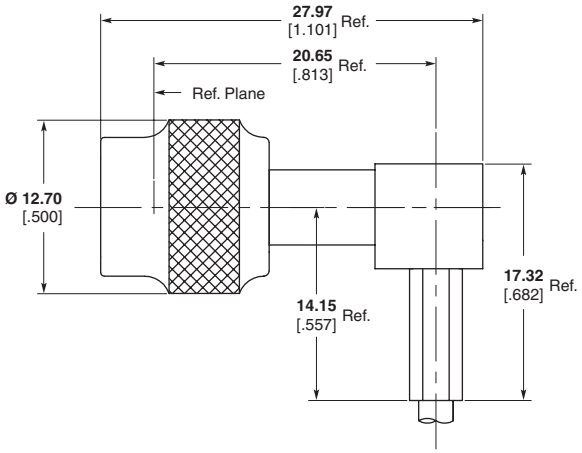


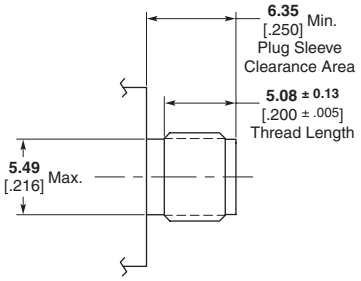
Mating Part Detail

Note: Product is designed and qualified to mate with gold plated SMA jacks.

Right-Angle Cable Plug

Part Number	Cable
1274694-1	RG-316 or equivalent





Mating Part Detail

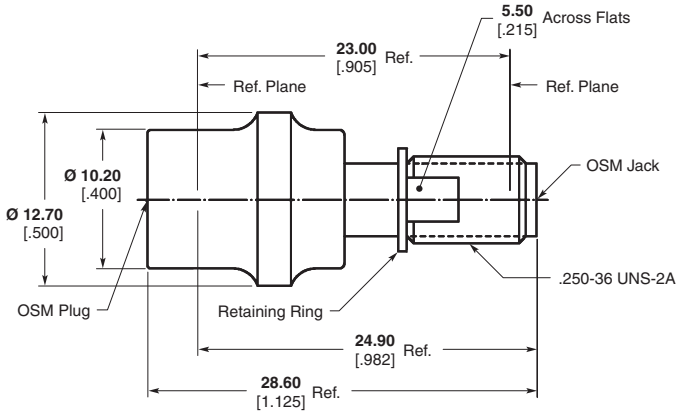
Note: Product is designed and qualified to mate with gold plated SMA jacks.

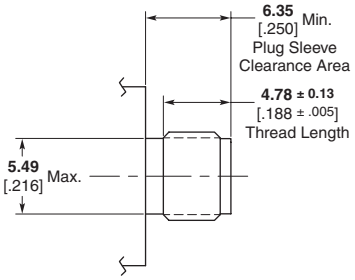
Dimensions are millimeters over inches unless otherwise specified.

Adapters — Between Series

Snap-Lock SMA Plug to SMA Series Jack

Part Number
1053780-1





Mating Part Detail

Dimensions are millimeters over inches unless otherwise specified.

Technical Support

Internet:
http://tycoelectronics.com/products/rfcoax

Email:
product.info@tycoelectronics.com

US Product Manager — David Gravina
Phone: 781-278-5229
Email: gravinad@tycoelectronics.com

Europe Product Manager — Patrick Duquerroy
Phone: (49) 61824538
Email: pduquerroy@tycoelectronics.com

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803
South America: 55-112103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: +44 (0) 800-267-666

06/07 3-1773447-4

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