# **SMA Connectors**

**Product Facts** 

₹ Тусо

Performance to 12.4 GHz and beyond

Electronics

- Available in various base metal options, including stainless steel, brass and zinc diecast
- Uses industry standard crimp tools and processes
- Available with corrosion resistant, non-magnetic White Bronze plating
- Meets all performance requirements for MIL-C-39012.



Tyco Electronics offers a complete line of SMA connectors designed for performance to 18 GHz to satisfy the growing demand for SMA connectors in the wireless communications industry. The SMA product line offers stainless steel bodies, as well as nonferrous metals. Various plating options are available, including Gold and White Bronze. The SMA interface is fully compatible with Mil-C-39012.

While still offering various options on military (QPL) approved connectors, Tyco Electronics has developed a complete offering tailored to the commercial Communications industry. This includes 3 piece flexible cable products for popular RG 316, 142 and RD 316 cable utilizing industry standard HEX crimps.

The SMA series meets the performance, quality and application requirements of the commercial marketplace. This includes White Bronze plating, a unique finish developed by Tyco Electronics to address the performance needs of the telecommunications market. This plating is highly resistant to wear, and contains no ferrous metals, thus displaying excellent intermodulation characteristics.

To satisfy the broad range of commercial applications, SMA connectors are available in a broad range of standard configurations including; straight and right-angle cable applied plugs, bulkhead cable jacks, two and four hole flange mount panel jacks, straight and right-angle pcb mount jacks and various between and in series adapters. Numerous packaging and testing options are also available to meet specific system criteria as well.

Additionally, standard military approved (QPL) interfaces are offered as well. Including connectors for semi-rigid cable and micro strip applications.

The 3 Piece SMA offering is designed especially for applications in cellular infrastructure where InterModulation Products (IMP) must be minimized. By limiting non-linearities within the connectors, IMP is reduced and increased channel capacity can be offered.

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**Between Series Adapters** 

pages 251-260.

For SMA Between Series Adapters, see

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

# SMA Connectors (Continued)

### **Specifications**

	MIL-C-39012 Applicable Paragraph	
General		
Material	3.3	Steel corrosion resistant per ASTM-A-582 and ASTM-A-484, Type 303. Beryllium copper per ASTM-B-196. PTFE Fluorocarbon per ASTM-D-1710.
Finish	3.3.1	Center contacts shall be gold plated to a min. thickness of .00127 [.00005] in accordance with MIL-G-45204, ASTM-B-488. All other metal parts shall be finished as to provide a connector which meets the corrosion requirements.
Design	3.4	The design shall be such that the outline shown in this catalog and the interface dimensions of MIL-STD-348A are met.
Electrical		
Insulation Resistance	3.11	The insulation resistance shall not be less than 10,000 megohms.
Corona Level	3.22	Refer to applicable military slash sheet, product drawing or spec.
Dielectric Withstanding Voltage	3.17	Refer to applicable military slash sheet, product drawing or spec.
RF High Potential	3.23	Refer to applicable military slash sheet, product drawing or spec.
Contact Resistance	3.16	Refer to applicable military slash sheet, product drawing or spec.
VSWR	3.14	Refer to applicable military slash sheet, product drawing or spec. Frequency range dependent on cable used.
RF Leakage	3.26	Refer to applicable military slash sheet, product drawing or spec.
Insertion Loss	3.27	Refer to applicable military slash sheet, product drawing or spec. Frequency range dependent on cable used.
Mechanical		
Force to Engage	3.5.1	The torque required to engage and disengage shall not exceed 2 inlbs. The longitudinal force is not applicable.
Coupling Nut Retention	3.25	60 lbs. min. Applicable for plug connectors only.
Coupling Proof Torque	3.6	15 inlbs. min. Applicable for plug connectors only.
Cable Retention	3.24	Refer to applicable military slash sheet or consult factory.
Mating Characteristics	3.7	Applicable to jack connectors only. Reference MIL-STD-348A for dimensions; oversize test pin .953 [.0375] min. dia., .76 - 1.14 [.030045] deep, insertion force 3 lbs. max. with .940 [.0370] min. dia. pin, withdrawal force 1 oz. min. with .902 [.0355] max. dia. pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and shall meet the mating characteristic requirements.
Recommended Mating Torque	_	7 to 10 inlbs.
Environmental		
Vibration	3.18	Specification MIL-STD-202, method 204, test condition D
Shock	3.19	Specification MIL-STD-202, method 213, test condition I
Thermal Shock	3.20	Refer to applicable military slash sheet or consult factory.
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, method 101, test condition B.
Moisture Resistance	3.21	Specification MIL-STD-202, method 106. No measurements at high humidity. Insulation resistance shall be at least 200 megohms within 5 minutes of removal from humidity.

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# SMA Connectors (Continued)

Electrical

Connector Type	Cable	Frequency Max. (GHz)	VSWR _ x (fGHz) _	Contact R (milliohr Center Contact	lesistance ms max.) Outer Contact	Insulation Resistance (megohms min.)	Dielectric Withstanding Voltage (Volts RMS)	Corona Extinction Voltage at 70,000 Ft. (V RMS min.)	RF Transmission Loss	RF High Potential at 5 MHz (V RMS)	RF Leakage (dB min.)
Straight Cable Plug	RG 402 (3.58 [.141])	Note 1	1.02 + .005	N/A	2.0	10,000	N/A	250	N/A	670	-(90-fGHz
WITHOUT CONTACT	RG 405 (2.16 [.085])	18.0	1.05 + .005	2.0	2.0	10,000	1000	250	.03 √f(GHz)	670	-(90-fGHz
	RG 402 (3.58 [.141])	18.0	1.05 + .005	2.0	2.0	10,000	1500	375	.03 √f(GHz)	1000	-(90-fGHz
Straight Cable Plugs	3.58 [.141] Microporous		1.05 + .005	2.0	2.0	10,000	1500	375	.03 √f(GHz)	1000	-(90-fGH
Straight Cable Plug without Contact Straight Cable Plugs & Jacks Solder Attachment Straight Cable Plugs & Jacks Solder Clamp Attachment Straight Cable Plugs & Jacks Clamp Attachment Straight Cable Plugs & Jacks Crimp Attachment	RG 401 (6.35 [.250])	18.0	1.07 + .007	2.0	2.0	10,000	1500	375	.03 √f(GHz)	1000	-(90-fGH
	RG 174, 188, 316	Note 1	1.15 + .01	2.0	2.0	10,000	750	190	.06 √f(GHz)	500	-(60-fGH
	RG 55, 58, 141, 142, 223, 303, 400	Note 1	1.10 + .005	2.0	2.0	10,000	1000	250	.06 √f(GHz)	670	-(60-fGH
	RG 405 (2.16 [.085])	12.4	1.10 + .015	2.0	2.0	10,000	1000	250	.03 √f(GHz)	670	-(90-fGH
	RG 402 (3.58 [.141])	12.4	1.07 + .01	2.0	2.0	10,000	1500	375	.03 √f(GHz)	1000	-(90-fGH
Straight Cable Plugs	RG 55, 58, 141, 142 223, 400	Note 1	1.10 + .005	2.0	2.0	10,000	1000	250	.06 √f(GHz)	670	-(60-fGH
	RG 174, 188, 316	Note 1	1.15 + .01	2.0	2.0	10,000	750	190	.06 √f(GHz)	500	-(60-fGH
Straight Cable Plugs without Contact       -         Straight Cable Plugs & Jacks Solder Attachment       -         Straight Cable Plugs & Jacks Solder Clamp Attachment       -         Straight Cable Plugs & Jacks Coller Clamp Attachment       -         Straight Cable Plugs & Jacks Clamp Attachment       -         Straight Cable Plugs & Jacks Clamp Attachment       -         Straight Cable Plugs & Jacks Cimp Attachment       -         Straight Cable Plugs & Jacks Crimp Attachment       -         Straight Cable Plugs & Jacks Compression Clamp Attachment       -         Right-Angle Cable Plugs Solder Attachment       -         Right-Angle Cable Plugs Clamp Attachment       -         Right-Angle Cable Plugs Clamp Attachment       -         Right-Angle Cable Plugs Clamp Attachment       -         Flange Mount Plugs & Jacks Panel or Bulkhead Mount       -         Bulkhead Feedthrough Jacks       -         Right-Angle Flange Mount Jacks       -         Right-Angle Flange Mount Jacks       -         Right-Angle Flange Printed Circuit       -	RG 180, 195	Note 1	_	2.0	2.0	10,000	750	190		500	-(60-fGHz
Straight Cable Plugs & Jacks Clamp Attachment Straight Cable Plugs & Jacks Crimp Attachment Straight Cable Plugs & Jacks Compression Clamp Attachment - Right-Angle Cable Plugs Solder	RG 55, 142, 223, 400	Note 1	1.10 + .005	2.0	2.0	10,000	1000	250	.06 √f(GHz)	670	-(60-fGH
Straight Cable Plugs	RG 58, 141, 303	Note 1	1.10 + .005	2.0	2.0	10,000	1000	250	.06 √f(GHz)	670	-(60-fGH
& Jacks Crimp	RG 174, 188, 316	Note 1	1.15 + .01	2.0	2.0	10,000	750	190	.06 √f(GHz)	500	-(60-fGH
Attachment	RG 180, 195	Note 1	_	2.0	2.0	10,000	750	190	—	500	-(60-fGH
	RG 178, 196	Note 1	1.2 + .02	2.0	2.0	10,000	500	125	.06 √f(GHz)	335	-(60-fGH
	RG 401 (6.35 [.250])	18.0	1.07 + .01	2.0	2.0	10,000	1500	375	.05 √f(GHz)	1000	-70 dB m
& Jacks Compression	6.35 [.250] Microporous	18.0	1.07 + .01	2.0	2.0	10,000	1500	375	.05 √f(GHz)	1000	-70 dB m
	6.35 [.250] 3 Spline	18.0	1.07 + .01	2.0	2.0	10,000	1500	375	.05 √f(GHz)		-70 dB m
	6.35 [.250] 5 Spline	18.0	1.07 + .01	2.0	2.0	10,000	1500	375	.05 √f(GHz)		-70 dB m
	RG 405 (2.16 [.085])	12.4	1.18 + .015	2.0	2.0	10,000	1000	250	.04 √f(GHz)	670	-(90-fGH
	RG 405 (2.16 [.085])	18.0	1.18 + .015	2.0	2.0	10,000	1000	250	.04 √f(GHz)	670	-(90-fGH
	RG 402 (3.58 [.141])	12.4	1.15 + .015	2.0	2.0	10,000	1500	325	.04 √f(GHz)	1000	-(90-fGH
Attachment	RG 402 (3.58 [.141])	18.0	1.10 + .010	2.0	2.0	10,000	1500	250	.05 √f(GHz)	1000	-(90-fGH
Plugs Solder	RG 55, 58, 141, 142, 223, 303, 400	Note 1	1.15 + .01	2.0	2.0	10,000	1000	250	.07 √f(GHz)	670	-(60-fGH
	RG 174, 188, 316	Note 1	1.15 + .02	2.0	2.0	10,000	750	190	.07 √f(GHz)	500	-(60-fGH
	RG 55, 142, 223, 400	Note 1	1.15 + .02	2.0	2.0	10,000	1000	250	.07 √f(GHz)	670	-(60-fGH
	RG 58, 141, 303	Note 1	1.15 + .02	2.0	2.0	10,000	1000	250	.07 √f(GHz)	670	-(60-fGH
	RG 174, 188, 316	Note 1	1.18 + .02	2.0	2.0	10,000	750	190	.07 √f(GHz)	500	-(60-fGH
Allaonmont	RG 180, 195	Note 1		2.0	2.0	10,000	750	190		500	-(60-fGH
	RG 178, 196	Note 1	1.25 + .025	2.0	2.0	10,000	500	125	.07 √f(GHz)	335	-(60-fGH
Right-Angle Cable Plugs Clamp	RG 55, 58, 141, 142, 223, 303	Note 1	1.10 + .005	2.0	2.0	10,000	1000	250	.08 √f(GHz)	670	-(60-fGH
	RG 174, 188, 316	Note 1	1.15 + .01	2.0	2.0	10,000	750	190	.08 √f(GHz)	500	-(60-fGH
	RG 180, 195	Note 1	1.02 . 004	2.0	2.0	10,000	750	190		500	-(60-fGH
F1 14 151	Non-Captured	18.0	1.03 + .004	2.0	2.0	10,000	1000	250	.03 √f(GHz)	670 670	-(100-fGF -(60-fGH
	Epoxy Captured Mechanical Capture	18.0 18.0	1.05 + .005 1.04 + .004	2.0	2.0	10,000	1000	250 250	.03 √ f(GHz) .03 √ f(GHz)		-(60-1GH -(100-fGF
Bulkhead Mount	Field Replaceable Hermetic Launchers	18.0	1.04 + .004	2.0	2.0	10,000	1000	250	.03 √ f(GHz)	670	-(100-fGF
Bulkhead	Epoxy Captured	18.0	1.07 + .010	2.0	2.0	10,000	1000	250	.04 √f(GHz)	670	-(60-fGH
	Mechanical Capture	18.0	1.07 + .010	2.0	2.0	10,000	1000	250	.04 √f(GHz)		-(100-fGF
-	N/A	18.0	1.07 + .015	2.0	2.0	10,000	1000	250	.08 √f(GHz)	670	-(90-fGH
	N/A	12.4	1.15 + .015	2.0	2.0	10,000	1000	250	.08 √ f(GHz)	670	-(90-fGH
	N/A	18.0	N/A	2.0	2.0	10,000	1000	250	N/A	670	N/A
	N/A	12.4	N/A	2.0	2.0	10,000	1000	250	N/A	670	N/A
End Launch Stripline Circuit	N/A	18.0	1.05 + .005	2.0	2.0	10,000	1000	250	.03 √f(GHz)	670	-(60-fGH
Surface Launch Stripline Circuit	N/A	18.0	1.05 + .005	2.0	2.0	10,000	1000	250	.03 √f(GHz)	670	-(60-fGH
Right-Angle Surface	N/A	12.4	1.15 + .015	2.0	2.0	10,000	1000	250	.08 √f(GHz)	670	-(60-fGH
aunch Stripline Circuit	N/A	18.0	1.07 + .015	2.0	2.0	10,000	1000	250	.08 √f(GHz)	670	-(60-fGH

Maximum operating frequency of cable per MIL-C-17.
 Specifications do not apply to hermetic or compression crimp connectors.
 For Brass SMA: Frequency Range DC-6GHz, Impedance 50 Ohms, Insulation Resistance.

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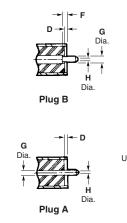
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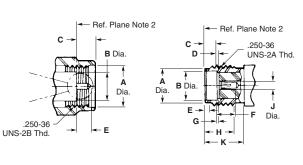
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

### SMA Connectors (Continued)

**Interface Mating** Dimensions





Plua

lug			Jack		
Dimension	Minimum	Maximum	Dimension	Minimum	Maximum
А	<b>6.35</b> .250	_	A	<b>5.28</b> .208	<b>5.49</b> .216
В	_	<b>4.59</b> .1808	В	<b>4.60</b> .181	_
С	_	<b>3.43</b> .135	С	<b>1.91</b> .075	<b>1.98</b> .078
D	<b>0.00</b> .000	<b>0.25</b> .010	D	<b>0.00</b> .000	<b>0.25</b> .010
E	—	<b>2.54</b> .100	Е	<b>0.38</b> .015	<b>1.43</b> .045
F	<b>0.00</b> .000	<b>0.25</b> .010	F	<b>2.92</b> .115	—
G	<b>0.90</b> .0355	<b>0.94</b> .037	G	<b>0.00</b> .000	<b>0.25</b> .010
Н	<b>0.00</b> .000	<b>0.38</b> .015	Н	<b>4.32</b> .170	—
			J	<b>.124</b> .049	<b>1.30</b> .051
			К	<b>5.54</b> .218	_

Notes:

Dimensions are in millimeters

1. ID to meet VSWR and contact resistance when mated with 0.51 +.025/-.013 [.036 +.0010/-.0005] Dia. Pin. 2. When fully engaged, the two reference planes must coincide with metal to metal contact.

3. Metric equivalents (to the nearest 0.01mm) are given for general information only.

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

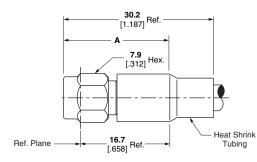
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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# SMA Connectors (Continued) **Flexible Cable**

### Straight Cable Plug, Solder



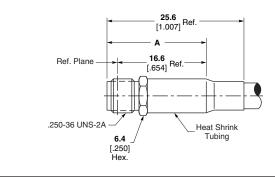


Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Dimension A	Instruction Sheet	Part No.
55, 58, 141, 142, 223, 303, 400	Stainless, Gold1	No	Solder	<b>19.7</b> .775	408-4821	1051638-1
174, 188, 316	Stainless, Gold1	No	Solder	<b>17.5</b> .690	408-4756	1051644-1

<sup>1</sup>Coupling nut is passivated stainless steel.

### Straight Cable Jack, Solder





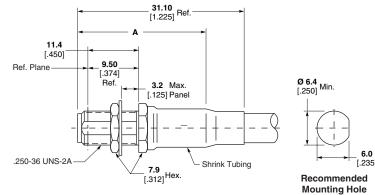
Cable Type	Body Material	Contact	Contact	Dimension	Instruction	Part
RG/U	& Finish	Captivation	Attachment	A	Sheet	No.
55, 58, 141, 142, 223, 303, 400	Stainless, Gold	No	Solder	<b>18.5</b> .730	408-4820	1051852-1

#### Bulkhead Cable Jack, Solder



Note: Part Numbers are RoHS

non-RoHS compliant.





Cable Type RG/U Body Material & Finish Contact Captivation Contact Attachment Dimension Instruction Part Sheet No. А RG 55, 58, 141, 142, 300 **24.0** .945 Stainless, Gold No Solder 408-4817 1051861-1 **21.0** .825 compliant except: 
 Indicates 174, 188, 316 Stainless, Gold Solder 408-4817 1051942-1 No

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Dimensions are shown for reference purposes only. Specifications subject to change.

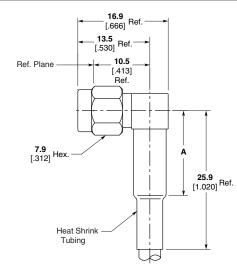
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

**RF Coax Connectors** 

# SMA Connectors (Continued) Flexible Cable (Continued)

**Right-Angle Cable Plug**, Solder





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Dimension A	Instruction Sheet	Part No.
55, 58, 141, 142, 223, 303, 400	Stainless, Gold1	Yes	Solder	<b>16.0</b> .630	408-4816	1052063-1
174, 188, 316	Stainless, Gold1	Yes	Solder	<b>11.2</b> .440	408-4815	1052067-1

<sup>1</sup>Coupling nut is passivated stainless steel.

#### Straight Cable Plug, Clamp

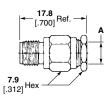


7.9 (212) Hex	← [.750] Ref. →   A
[.312]	7.9 [.312] Hex

Cable Type	Body Material	Contact	Contact	Dimension	Instruction	Part
RG/U	& Finish	Captivation	Attachment	A	Sheet	No.
174, 188, 316	Stainless, Pass.	Yes	Solder	<b>2.9</b> .116	408-4906	1050721-1

#### Straight Cable Jack, Clamp





Cable Type	Body Material	Contact	Contact	Dimension	Instruction	Part
RG/U	& Finish	Captivation	Attachment	A	Sheet	No.
174, 188, 316	Stainless, Pass.	Yes	Solder	<b>2.9</b> .116	408-4906	1050903-1

Note: Part Numbers are RoHS compliant except: 
 Indicates non-RoHS compliant.

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are in millimeters

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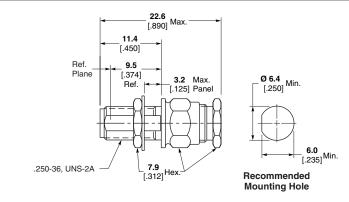
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

**RF Coax Connectors** 

# SMA Connectors (Continued) Flexible Cable (Continued)

### **Bulkhead Feedthrough** Cable Jack, Clamp

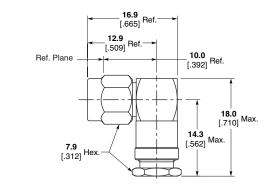




Cable Type	Body Material	Contact	Contact	Instruction	Part
RG/U	& Finish	Captivation	Attachment	Sheet	No.
174, 188, 316	Stainless, Pass.	Yes	Solder	408-4704	1050996-1

### **Right-Angle Cable Plug**, Clamp

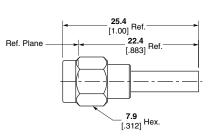




Cable Type	Body Material	Contact	Contact	Instruction	Part
RG/U	& Finish	Captivation	Attachment	Sheet	No.
174, 188, 316	Stainless, Pass.	Mechanical	Solder	408-4965	1051140-1

### Straight Cable Plug, Crimp





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
174, 179, 187, 188, 316	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1056443-1
RD316	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-11	408-4661	1056436-1
55, 142, 223, 400	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1056438-1
174, 179, 187, 188, 316	Brass, White Bronze	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1082034-1

<sup>1</sup>Use die 1055270-1 to crimp RD316 ferrule. <sup>2</sup>Use die 1055880-1 to crimp center contact.

Note: Part Numbers are RoHS compliant except: 
 Indicates non-RoHS compliant.

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are in millimeters

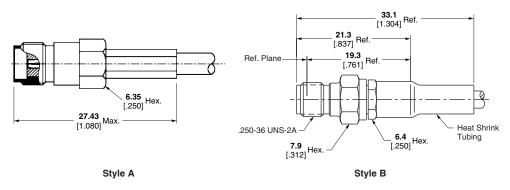
Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

# SMA Connectors (Continued) Flexible Cable (Continued)

### Straight Cable Jack, Crimp



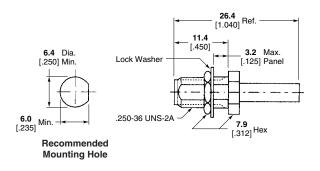


Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Style	Part No.
174, 316	Brass, Nickel	Mechanical	Solder	1	408-4032	А	5447648-3
58, 141, 303	Stainless, Pass.	Mechanical	Solder	1055236-1	408-4704	В	1051867-1
174, 188, 316	Stainless, Pass.	Mechanical	Solder	1055236-1	408-4708	В	1051855-1
178, 196	Stainless, Pass.	Mechanical	Solder	1055236-1	408-4806	В	1051869-1

<sup>1</sup>Refer to Tyco Electronics Customer Print for tooling requirement. DANIELS Mil Tooling used for contact and ferrule crimp.

#### Bulkhead Feedthrough Cable Jack, Crimp





	Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
	174, 179, 187, 188, 316	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1056452-1
	RD316	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1 <sup>3</sup>	408-4661	1056445-1
	58, 141, 303	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1056450-1
	55, 142, 223, 400	Stainless, Pass.	Mechanical	Solder/Crimp <sup>2</sup>	1055236-1	408-4661	1056447-1
_	174, 188, 316	Brass, Nickel	Mechanical	Crimp	1	408-4032	5448103-2

<sup>1</sup>Refer to Tyco Electronics Customer Print for tooling requirement. DANIELS Mil Tooling used for contact and ferrule crimp.

<sup>2</sup>Use die 1055880-1 to crimp center contact.

<sup>3</sup>Use die 1055270-1 to crimp RD316 ferrule.

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents. to chan

Dimensions are shown for reference purposes only. Specifications subject to change.

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

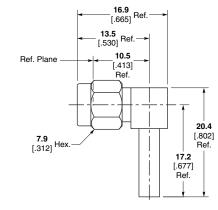
Electronics

**RF Coax Connectors** 

# SMA Connectors (Continued) Flexible Cable (Continued)

Right-Angle Cable Plug, Crimp

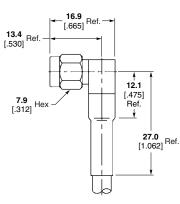




	Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
	174, 179, 187, 188, 316	Stainless, Pass.	Mechanical	Solder	1055236-1	408-4659	1056462-1
_	58, 141, 303	Stainless, Pass.	Mechanical	Solder	1055236-1	408-4659	1056456-1

Right-Angle Cable Plug, Crimp





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
55, 142, 223, 400	Stainless, Pass.	Ероху	Solder	1055236-1	408-4681	1052072-1
174, 188, 316	Stainless, Pass.	Epoxy	Solder	1055236-1	408-4683	1052076-1
178, 196	Stainless, Pass.	Ероху	Solder	1055236-1	408-4801	1052098-1

Note: Part Numbers are RoHS compliant except: 
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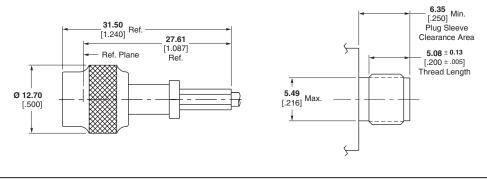
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**RF Coax Connectors** 

# SMA Connectors (Continued) Flexible Cable (Continued)

### Straight Push-On

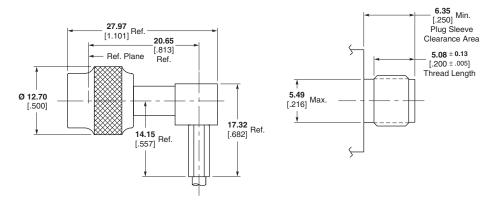




Cable Type	Body Material	Contact	Contact	Part
RG/U	& Finish	Captivation	Attachment	No.
316	Beryllium Copper, Gold	Mechanical	Crimp	1408541-1

**Right-Angle Push-On** 





Cable Type			Contact	Part
RG/U			Attachment	No.
316	Beryllium Copper, Gold	Mechanical	Solder/Crimp	1274694-1

Note: Part Numbers are RoHS compliant except: 
 Indicates non-RoHS compliant.

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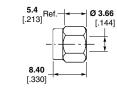
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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 109

# SMA Connectors (Continued) Direct Solder Attachment, Semi-Rigid Cable

### **Straight Cable Plug**

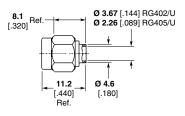




Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Pass.	No Center Contact	No Center Contact	1055420-1	408-4761	1050757-1

### **Straight Cable Plug**



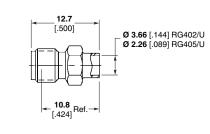


Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Gold1	No	Solder	1055420-1	408-4764	1050525-1
405 (2.16 [.085])	Stainless, Gold1	No	Solder	1055420-1	408-4765	1050770-1
402 (3.58 [.141])	Stainless, Gold1	No Center Contact	No Center Contact	N/A	—	1050542-1
405 (2.16 [.085])	Stainless, Gold1	No	Solder	1055420-1	—	1050548-1

<sup>1</sup>Coupling nut is passivated stainless steel.

#### **Straight Cable Jack**





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Gold	No	Solder	1055420-1	408-4767	1050854-1
405 (2.16 [.085])	Stainless, Gold	No	Solder	1055420-1	408-4833	1050859-1

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

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Dimensions are shown for reference purposes only. Specifications subject to change.

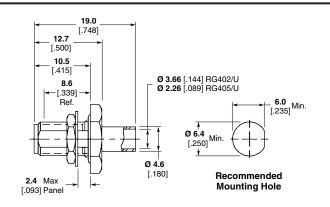
Note: Part Numbers are RoHS compliant except: 
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# SMA Connectors (Continued) Direct Solder Attachment, Semi-Rigid Cable (Continued)

### **Bulkhead Cable Jack**

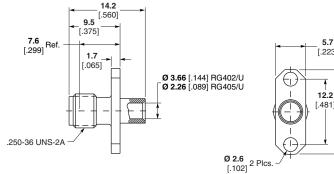


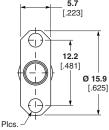


Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Brass, Gold	No	Solder	1055420-1	408-4768	1082029-1

### 2 Hole Flange Mount **Cable Jack**



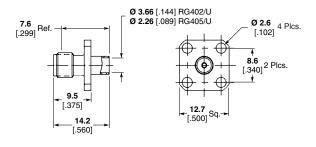




Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Gold	No	Solder	1055420-1	408-4767	1051052-1
405 (2.16 [.085])	Stainless, Gold	No	Solder	1055420-1	408-4883	1051046-1

### **4 Hole Flange Mount** Cable Jack





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Gold	No	Solder	1055420-1	408-4767	1051081-1
405 (2.16 [.085])	Stainless, Gold	No	Solder	1055420-1	408-4883	1051085-1

Note: Part Numbers are RoHS compliant except: 
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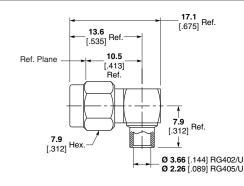
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

# SMA Connectors (Continued) Semi-Rigid Cable

**Right-Angle Cable Plug**, **Direct Solder Attachment** 



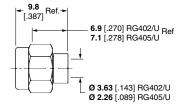


Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Solder Assembly Kit Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Gold1	Epoxy	Solder	1055420-1	408-4831	1051151-1
405 (2.16 [.085])	Stainless, Gold <sup>1</sup>	Epoxy	Solder	1055420-1	408-4831	1051157-1
405 (2.16 [.085])	Brass, Gold	Mechanical	Solder	1055420-1	408-4831	1088312-1

<sup>1</sup>Coupling nut is passivated stainless steel.

### Straight Cable Plug, Crimp

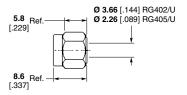




Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
405 (2.16 [.085])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4695	1050598-1
402 (3.58 [.141])	Stainless, Pass.	No Center Contact	Solderless	1055835-1	408-4690	1050740-1

# Straight Cable Plug -Low Profile, Crimp





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4696	1050602-1
405 (2.16 [.085])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4697	1050611-1

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

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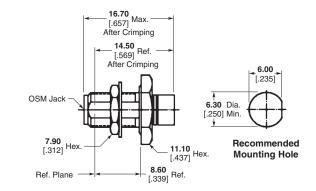
Note: Part Numbers are RoHS compliant except: 
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# SMA Connectors (Continued) Semi-Rigid Cable (Continued)

### 2 Hole Flange, Crimp

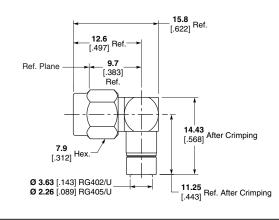




Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4954	1051005-1
405 (2.16 [.085])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4689	1051007-1

### Right-Angle Cable Plug, Crimp





Cable Type RG/U	Body Material & Finish	Contact Captivation	Contact Attachment	Crimp Tooling Part No.	Instruction Sheet	Part No.
402 (3.58 [.141])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4691	1051145-1
405 (2.16 [.085])	Stainless, Pass.	Mechanical	Solderless	1055835-1	408-4692	1051147-1

Note: Part Numbers are RoHS compliant except: 
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# SMA Connectors (Continued) Panel Mount, Solder Pot Terminal

12.9

[.375]

.250-36UNS-2A

Ref. Plane

Body Material & Finish

Stainless, Passivated

1.7

[.065]

Θ

7.6

[.299]

Contact

Captivation

Epoxy

#### **4 Hole Flange Mount Plug** Receptacle



#### **4 Hole Flange Mount Jack** Receptacle



### 2 Hole Flange Mount Jack Receptacle



#### **2 Hole Flange Mount Jack** Receptacle



#### Note: Part Numbers are RoHS compliant except: Indicates non-RoHS compliant.

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

Contact Captivation

Epoxy

.250-36 UNS-2A

Body Material & Finish

Stainless, Passivated

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Ø 4.1 [.162]

> South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Part

No.

1052534-1

Part

No.

1052324-1

Part

1052422-1

No.

**8.6** [.340] Typ.

Ø 2.6 [.102] 4 Plcs.

Temperature Range

-65 to 125° C

12.2

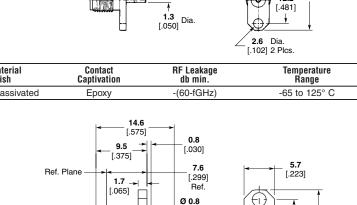
[.481]

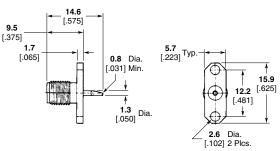
Ø 2.6 [.102] 2 Plcs.

Temperature Range

-65 to 125° C

Ø 15.9 [.625]





RF Leakage db min.

-(60-fGHz)

	[.102] 2 1100.				
Body Material & Finish	Contact Captivation	RF Leakage db min.	Temperature Range	Part No.	
Stainless. Passivated	Epoxy	-(60-fGHz)	-65 to 125° C	1052544-1	

[.031]

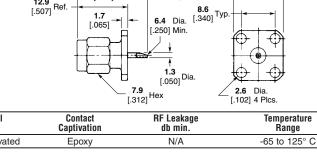
\* \*

1 1

RF Leakage db min.

-(60-fGHz)

Ø 1.3 [.050]



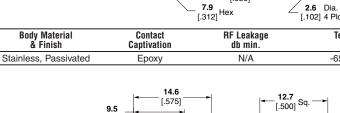
Ø 0.9

[.035] 1

**Ø 1.3** [.050]

. \_\_\_\_\_

12.7 [.500] Sq.



**18.0** [.707]

Ref.

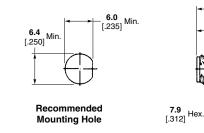
www.tycoelectronics.com

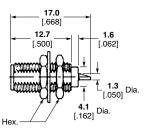
**RF Coax Connectors** 

# SMA Connectors (Continued) **Panel Mount**

**Bulkhead Feedthrough Jack** Receptacle, Solder Pot Terminal

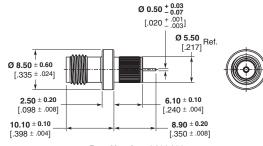




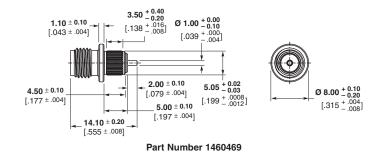


Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Ероху	N/A	-65 to 125° C	1053092-1

#### Press-In Jacks, **Straight Terminal**

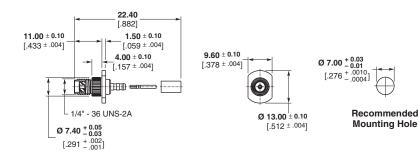


Part Number 1460468



Body Material & Finish RF Leakage Contact Temperature Part Captivation db min. Range No. Brass, White Bronze 1460468-1 Mechanical N/A -65 to 125° C Brass, Gold Mechanical N/A -65 to 125° C 1460469-1

#### Press-In Cable, **Jack Panel**



Note: Part Numbers are RoHS	Cable Type RG/U	Body Material & Finish	Contact Captivation	Temperature Range	Part No.
compliant except:      Indicates	316 D	Brass, Gold	Mechanical	–65 to 125° C	619115-1
non-RoHS compliant.					

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Dimensions are in millimeters

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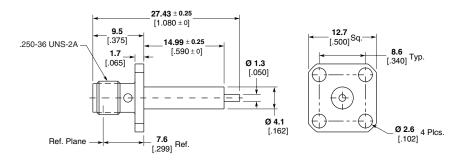
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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# SMA Connectors (Continued) Panel Mount, Straight Terminal

#### **4 Hole Flange Mount Jack** Receptacle

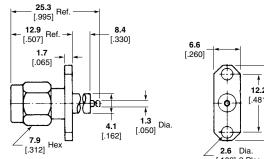


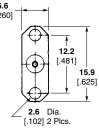


Body Material & Finish	Contact Captivation	RF Leakage db min.	Temperature Range	Part No.
Stainless, Passivated	None	-(100-fGHz)	-65 to 165° C	1052518-1
Stainless, Passivated	Ероху	-(60-fGHz)	-65 to 125° C	1052523-1
Stainless, Gold	Ероху	-(60-fGHz)	-65 to 125° C	1052522-1

### **2 Hole Flange Mount Plug** Receptacle



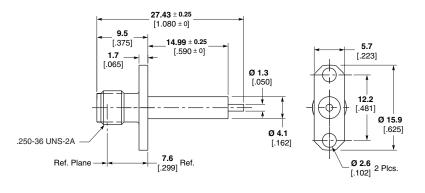




Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Epoxy	-(60-fGHz)	-65 to 125° C	1052349-1

#### 2 Hole Flange Mount Jack Receptacle





Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Epoxy	-(60-fGHz)	-65 to 125° C	1052552-1

Note: Part Numbers are RoHS compliant except: 
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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are in millimeters

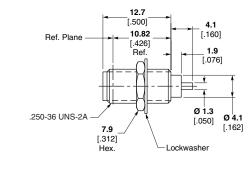
Dimensions are shown for reference purposes only. Specifications subject to change.

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# SMA Connectors (Continued) Panel Mount, Straight Terminal (Continued)

#### Bulkhead Feedthrough Jack Receptacle

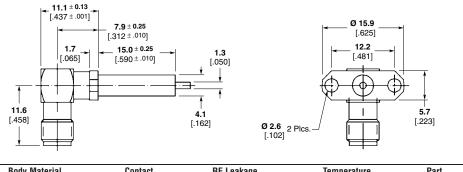




Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Epoxy	-(60-fGHz)	-65 to 125° C	1053222-1

### 2 Hole Flange Mount Right-Angle Jack Receptacle

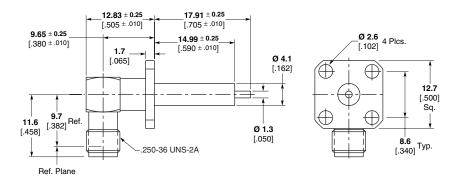




Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Mechanical	-(90-fGHz)	-65 to 165° C	1052986-1

### 4 Hole Flange Mount Right-Angle Jack Receptacle





Body Material & Finish	Contact Captivation	RF Leakage db min.	Temperature Range	Part No.
Stainless, Passivated	Mechanical	-(90-fGHz)	-65 to 165° C	1052978-1
Stainless, Passivated	Mechanical	-(90-fGHz)	-65 to 165° C	1052982-1

Note: Part Numbers are RoHS compliant except: 
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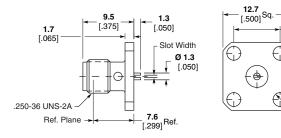
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**RF Coax Connectors** 

# SMA Connectors (Continued) **Panel Mount**

4 Hole Flange Mount Jack **Receptacle**, Straight Terminal



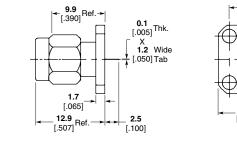


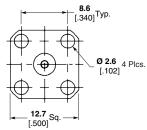
$ \rightarrow $	[.340] Typ.
$\bigcirc$	D)
( )	
	Ø 2.6 [.102] 4 Pics.

Body Material & Finish	Contact Captivation	Slot Width +.076/025 [+.003/001]	RF Leakage db min.	Temperature Range	Part No.
Stainless, Passivated	Epoxy	0.5 [.018]	-(60-fGHz)	-65 to 125° C	1052563-1

**4 Hole Flange Mount Plug** Receptacle, Tab Terminal



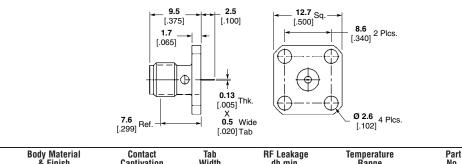




Body Material	Contact	Tab	RF Leakage	Temperature	Part
& Finish	Captivation	Width	db min.	Range	No.
Stainless, Passivated	Epoxy	1.3 [.050]	-(60-fGHz)	-65 to 125° C	1052360-1

### **4 Hole Flange Mount Jack** Receptacle, Tab Terminal





& Finish	Captivation	Width	db min.	Range	No.
Stainless, Passivated	Epoxy	.51 [.020]	-(60-fGHz)	-65 to 125° C	1052898-1

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are in millimeters

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> Dimensions are shown for reference purposes only. Specifications subject to change.

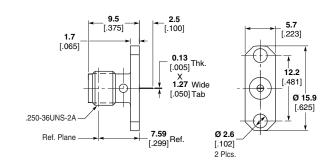
Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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# SMA Connectors (Continued)

2 Hole Flange Mount Jack Receptacle, Panel Mount, Tab Terminal

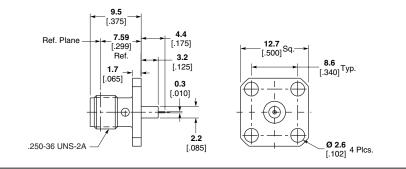




Body Material	Contact	Horizontal	RF Leakage	Temperature	Part
& Finish	Captivation	Tab	db min.	Range	No.
Stainless, Passivated	Epoxy		-(60-fGHz)	-65 to 125° C	1052577-1

4 Hole Flange Mount Jack Receptacle, for Microstrip Transmission Line Circuits

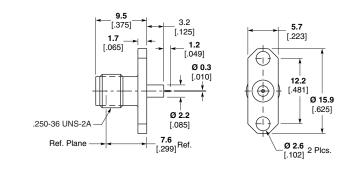




Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Epoxy	-(60-fGHz)	-65 to 125° C	

#### 2 Hole Flange Mount Jack Receptacle, for Microstrip Transmission Line Circuits





Body Material	Contact	RF Leakage	Temperature	Part
& Finish	Captivation	db min.	Range	No.
Stainless, Passivated	Ероху	-(60-fGHz)	-65 to 125° C	1052902-1

Note: Part Numbers are RoHS compliant except: Indicates non-RoHS compliant.

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# SMA Connectors (Continued) Field Replaceable Hermetic Launchers (Continued)

#### 4 Hole Flange Mount Jack **Receptacle with EMI/RFI** Gasket

**Electronics** 

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**4 Hole Flange Mount Jack Receptacle without EMI/RFI** Gasket



#### **2 Hole Flange Mount Jack Receptacle with EMI/RFI** Gasket



#### 2 Hole Flange Mount Jack **Receptacle without EMI/RFI** Gasket, Field Replaceable **Hermetic Launchers**

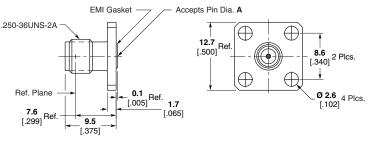


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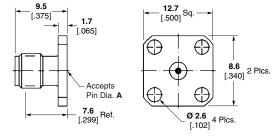
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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

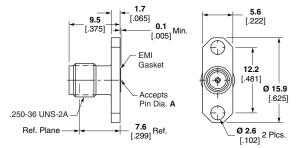
Dimensions are in millimeters



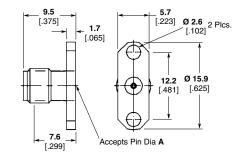
Material & Finish	Captivation	Pin Diameter A	Part No.
Stainless, Passivated	Mechanical	.38 [.015]	1052684-1



Material & Finish	Captivation	Pin Diameter A	Part No.
Stainless, Passivated	Mechanical	.91 [.036]	1052643-1



Material & Finish	Captivation	Pin Diameter A	Part No.
Stainless, Passivated	Mechanical	.30 [.012]	1052628-1
Stainless, Passivated	Mechanical	.38 [.015]	1052689-1
Stainless, Passivated	Mechanical	.46 [.018]	1052634-1



Material & Finish	Captivation	Pin Diameter A	Part No.
Stainless, Passivated	Mechanical	.51 [.020]	1052652-1
Stainless, Passivated	Mechanical	.91 [.036]	1052646-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

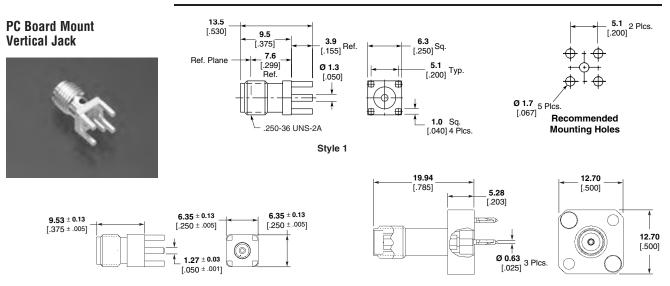
Dimensions are shown for reference purposes only. Specifications subject to change.

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> USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

**RF Coax Connectors** 

### SMA Connectors (Continued)



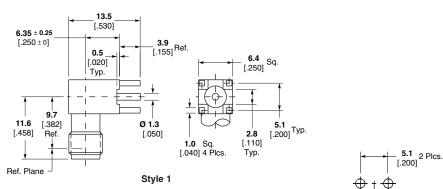
Style 2

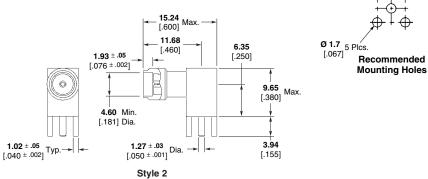


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Material & Finish	Style No.	Part No.
Stainless, Gold	1	1053354-1
Brass, Gold	2	221789-1
Brass, Gold	2	221789-3
Brass, Nickel Plate	3	6274096-1

#### **PC Board Mount Right-Angle Jack**







Material & Finish	Style No.	Part No.
Stainless, Gold	1	1053378-1
Stainless, Gold	2	221790-1

Note: Part Numbers are RoHS compliant except: 
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**RF Coax Connectors** 

# SMA Connectors (Continued)

#### **In-Series Adapter**, Jack to Jack

₹ Tyco Electronics



### **In-Series Adapter,** Plug to Plug

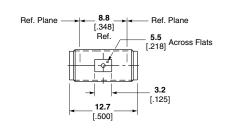


#### **In-Series Adapter,** Jack to Plug, Right-Angle

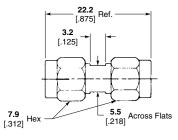


#### **In-Series Adapter,** Jack to Jack, Right-Angle



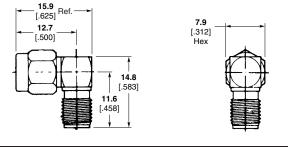


Frequency	Material & Finish	Captivation	Part No.
DC-18.0GHz	Stainless, Gold	Epoxy*	1053488-1

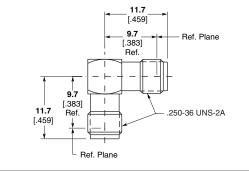


Frequency	Material & Finish	Captivation	Part No.
DC-18.0GHz	Stainless, Passivated	Epoxy*	1053635-1

\*All adapters listed above employ epoxy captivation. Mechanically captivated versions are also available. Please consult Tyco Electronics.



Frequency	Material & Finish	Captivation	Part No.
DC-12.4GHz	Stainless, Passivated	Mechanical	1055065-1



Frequency	Material & Finish	Captivation	Part No.
DC-12.4GHz	Stainless, Passivated	Mechanical	1055018-1

Note: Part Numbers are RoHS compliant except: 
 Indicates non-RoHS compliant.

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and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are standard equivalents.

Dimensions are in millimeters

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

**RF Coax Connectors** 

### SMA Connectors (Continued)





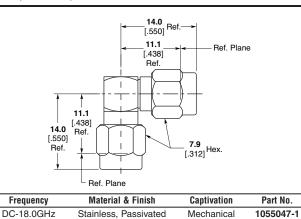
**In-Series Adapter.** Jack to Plug, Connector Saver

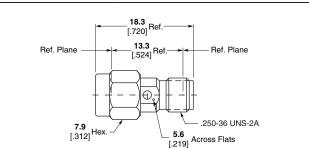


#### **In-Series Adapter**, Jack to Jack. **Bulkhead Feedthrough**

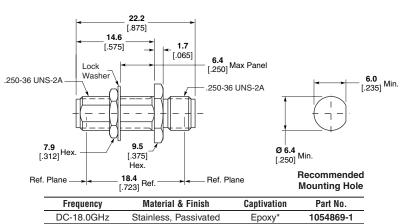


#### Test Adapter, Plug to Jack, **Quick Release**

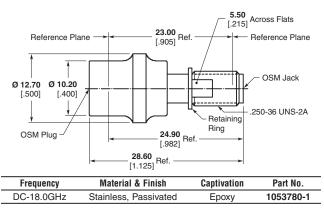




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Frequency	Material & Finish	Captivation	Part No.
DC-18.0GHz	Stainless, Passivated	Ероху	1054426-1



\*Mechanically captivated version available. Please consult Tyco Electronics.



Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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