

The Amphenol SMA connectors are semi-precision, sub-miniature, high-frequency connectors which offer reliable broadband performance DC to 18GHz with low reflection and constant 50 ohm impedance.

The main features are high mechanical strength, high durability and low VSWR. Matured design principles, careful manufacturing at all stages and thorough quality assurance organization are the basis for the well-known quality of Amphenol SMA connectors.

Electrical Specifications

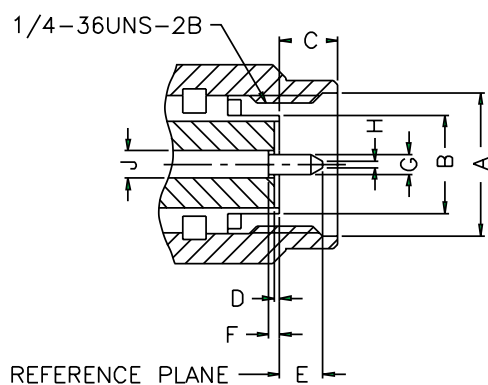
Impedance	50 ohm
Frequency range	*semi-rigid cable for .141" or .085" O.D. copper jacket: 0-18 GHz *Flexible cable: 0-12.4 GHz
Voltage rating	*RG-58, 141, 142, 233: 500v peak *RG-174, 188, 316: 375V peak
Dielectric withstanding voltage	*.141" & RG-58 cable group: 1000V RMS *.085" & RG-316 cable group: 750V RMS
VSWR-straight Connectors *f in GHz	*.141" semi-rigid cable group: 1.05 + .005f *RG-58 cable group: 1.15 + .01f *RG-174 cable group: 1.15 + .02f *RG-178 cable group: 1.20 + .025f
Contact resistance	Center: 2.0 milliohms Body: 2.0 milliohms Braid tot body: 0.5 milliohms
Insulation resistance	5000 Megohms
RF leakage	-90 db min. At 2-3 GHz
Insertion loss	db max. $\approx .06 \sqrt{\text{freq. GHz}}$ Test frequency @6.0 GHz

Military Specifications MIL-C-39012 & MIL-C-83517 SMA

Material Specifications

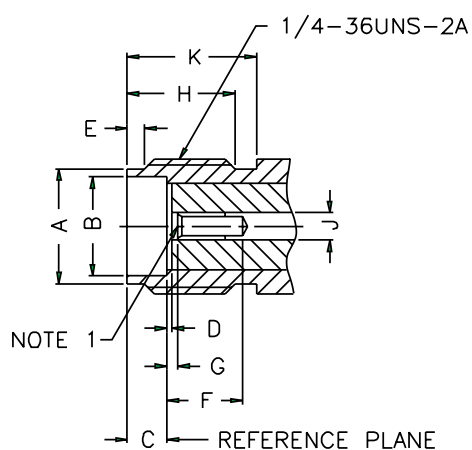
Parts Name		Mil standard	Economic type
Body, coupling nut, other metal parts		Non-magnetic stainless steel per QQ-S-764 #303 finish: passivated	Brass per QQ-B-626 finish: nickel or gold per requirement
Contacts	Male	Brass per QQ-B-626	Brass per QQ-B-626
	Female	Beryllium copper per QQ-C-530 heat treated per MIL-H-7199 Finish: .00005" min gold plated per MIL-G-45204 type 1, Grade C.	Beryllium copper per QQ-C-530 heat treated per MIL-H-7199 Finish: .00005" min gold plated per MIL-G-45204 type 1, Grade C.
Insulator		PTFE	PTFE
Gasket		Silicone rubber	Silicone rubber
Crimp ferrule		Seamless copper tubing alloy	Seamless copper tubing alloy
Selection Guide		*Suitable for direct mounting on aluminium panels *Lowest cost	*For commercial applications only *Lower cost

Interface mating dimensions



Plug

Letter	Millimeters [Inches]	
	Minimum	Maximum
A	6.35 [.250]	6.73 [.265]
B	4.53 [.178]	4.59 [.181]
C	2.54 [.100]	3.43 [.135]
D	0.00	0.25 [.010]
E	1.91 [.075]	2.54 [.100]
F	0.00	0.25 [.010]
G	0.90 [.035]	0.94 [.037]
H	0.00	0.38 [.015]
J	1.24 [.049]	1.30 [.051]



Jack

Letter	Millimeters [Inches]	
	Minimum	Maximum
A	5.28 [.208]	5.49 [.216]
B	4.60 [.181]	4.67 [.184]
C	1.88 [.074]	1.98 [.078]
D	0.00	0.25 [.010]
E	0.38 [.015]	1.14 [.045]
F	2.92 [.115]	-
G	0.00	0.25 [.010]
H	4.32 [.170]	-
J	1.24 [.049]	1.30 [.051]
K	5.54 [.218]	-

SMA Coaxial Connectors

All connectors listed, unless otherwise noted, are Commercial Grade construction, gold-plated brass bodies, with 50 μ " gold contacts.

All insulators are Teflon.

All other parameters are equal to Mil Standard construction.

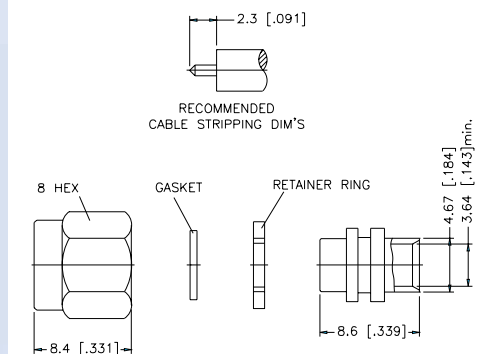
Mil Standard connectors, i.e. Stainless Steel body, available upon request as per material specifications listed in Material section on preceding page.

All dimensions are in millimeters and [inches].

Plug Direct Solder for Semi-Rigid .047", .085" and .141" Cable

Straight Solder Plug - Cable Inner Conductor Center Contact - Semi-Rigid Cable

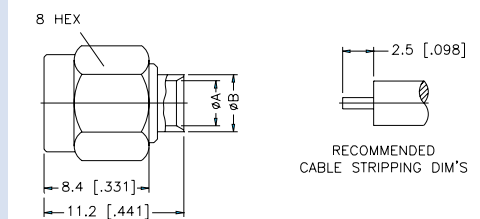
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1181K1-3G-10-50	10	Gold	N/A	50	N/A



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Straight Solder Plug - With Contact - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1181A2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA1181A1-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA1181K1-S/P-10-50 Stainless Steel	10	Gold	Teflon	50	N/A
SMA1181A2-3GT50G-13-50	13	Gold	Teflon	50	N/A



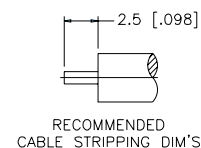
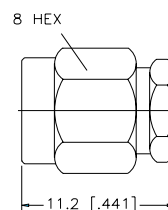
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Direct Solder for Semi-Rigid .047", .085" and .141" Cable

Straight Solder Plug - With Contact and Torque Nut - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1181A1-004-3GT50G-11-50	11	Gold	Teflon	50	N/A
Stainless Steel Nut					

Cable: .047" Cable, A = 1.24 mm [.049"] min,
 .085" Cable, A = 2.2 mm [.087"] min,
 .141" Cable, A = 3.6 mm [.142"] min,

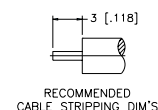
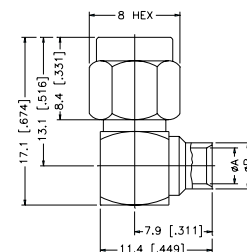


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Right Angle Solder Plug DC - 12.4 GHZ - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1182A2-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA1182Z2-3GT50G-11-50	11	Gold	Teflon	50	N/A
Stainless Steel Nut					
SMA1182A2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA1182A2-3GT50G-13-50	13	Gold	Teflon	50	N/A

Cable: .047" Cable, A = 1.24 mm [.049"] min,
 .085" Cable, A = 2.2 mm [.087"] min,
 .141" Cable, A = 3.6 mm [.142"] min,

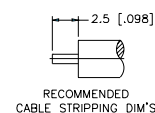
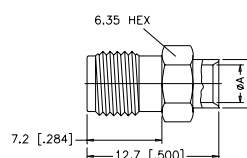


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Straight Solder Jack - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6181A1-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA6181A2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA6181A2-3GT50G-13-50	13	Gold	Teflon	50	N/A

Cable: .047" Cable, A = 1.24 mm [.049"] min,
 .085" Cable, A = 2.2 mm [.087"] min,
 .141" Cable, A = 3.6 mm [.142"] min,

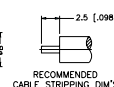
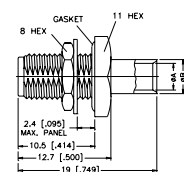
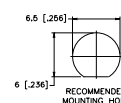


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Bulkhead Feedthrough Solder Jack - O-Ring seal - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6481A1-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA6481A2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA6481A2-3GT50G-13-50	13	Gold	Teflon	50	N/A

Cable: .047" Cable, A = 1.24 mm [.049"] min,
 .085" Cable, A = 2.2 mm [.087"] min,
 .141" Cable, A = 3.6 mm [.142"] min,



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Direct Solder for Semi-Rigid .047", .085" and .141" Cable

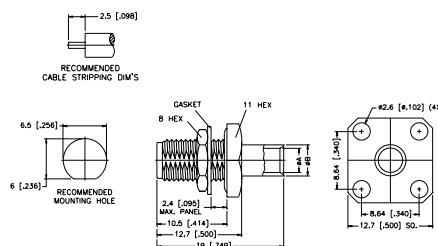
Panel Mount Solder Jack - 4 hole Square Flange - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6581A2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA6581A1-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA6581A3-3GT50G-13-50	13	Gold	Teflon	50	N/A

Cable: .047" Cable, A = 1.24 mm [.049"] min,

.085" Cable, A = 2.2 mm [.087"] min,

.141" Cable, A = 3.6 mm [.142"] min,



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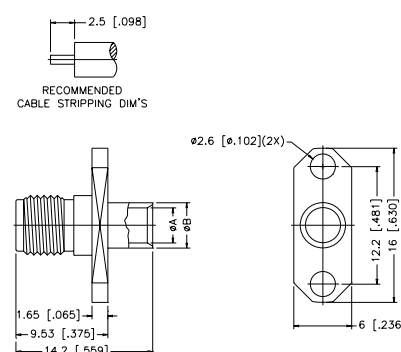
Panel Mount Solder Jack - 2 hole Square Flange - Semi-Rigid Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6581B2-3GT50G-11-50	11	Gold	Teflon	50	N/A
SMA6581B1-3GT50G-10-50	10	Gold	Teflon	50	N/A
SMA6581B3-3GT50G-13-50	13	Gold	Teflon	50	N/A

Cable: .047" Cable, A = 1.24 mm [.049"] min,

.085" Cable, A = 2.2 mm [.087"] min,

.141" Cable, A = 3.6 mm [.142"] min,

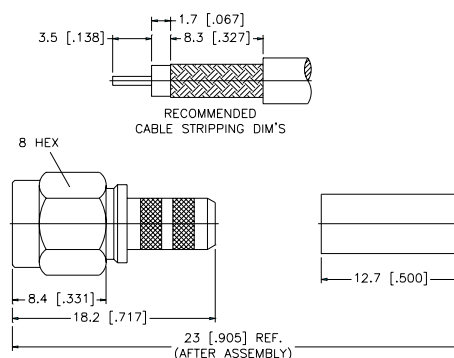


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Plug Crimp Attachment for Flexible Cable

Straight Crimp Plug - Standard Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1111A1-3GT50G-1-50	01	Gold	Teflon	50	3 or 4
SMA1111A1-3GT50G-1A-50	01A	Gold	Teflon	50	3 or 4
SMA1111A1-3GT50G-1B-50	01B	Gold	Teflon	50	3 or 4
SMA1111A1-007-3GT50G-7B-50	07B	Gold	Teflon	50	4

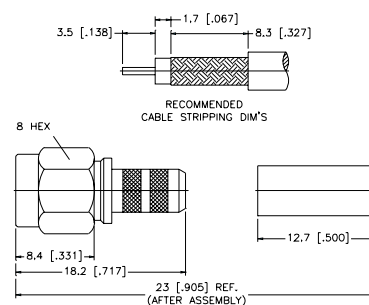


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Plug Crimp Attachment for Flexible Cable

Straight Crimp Plug - Miniature Cable

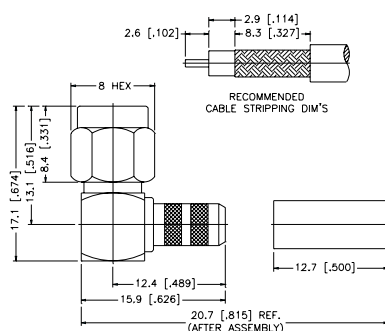
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1111A2-3GT50G-5-50	05	Gold	Teflon	50	1 or 2
SMA1111A2-S/PT50G-5-50 Stainless Steel	05	Gold	Teflon	50	1 or 2
SMA1111Z2-NT50G-5-50	05	Nickel	Teflon	50	1 or 2
SMA1111A2-3GT50G-5A-50	05A	Gold	Teflon	50	2
SMA1111G2-3GT50G-14-50	14	Gold	Teflon	50	1 or 2
SMA1111A1-3GT50G-16-50	16	Gold	Teflon	50	3
SMA1111A1-3GT50G-16A-50	16A	Gold	Teflon	50	3



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Right Angle Crimp Plug - Standard Cable

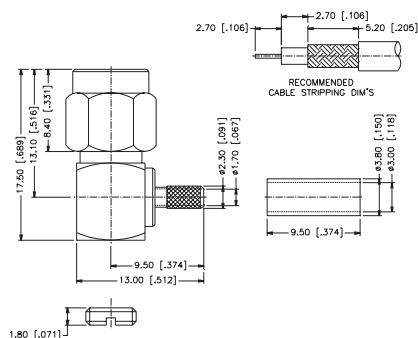
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1112A6-3GT50G-1-50	01	Gold	Teflon	50	3 or 4
SMA1112A4-S/PT50G-1-50 Stainless Steel	01	Gold	Teflon	50	3 or 4
SMA1112A6-3GT50G-1A-50	01A	Gold	Teflon	50	3 or 4
SMA1112A1-3GT50G-1B-50	01B	Gold	Teflon	50	3 or 4
SMA1112A1-3GT50G-7B-50	07B	Gold	Teflon	50	4
SMA1112A1-3GT30G-7C-50	7C	Gold	Teflon	50	6



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Right Angle Crimp Plug - Miniature Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1112A5-3GT50G-5-50	05	Gold	Teflon	50	1 or 2
SMA1112A5-3GT50G-5A-50	05A	Gold	Teflon	50	2
SMA1112A3-3GT50G-14-50	14	Gold	Teflon	50	1 or 2
SMA1112A6-3GT50G-16-50	16	Gold	Teflon	50	3
SMA1112A6-3GT50G-16A-50	16A	Gold	Teflon	50	3

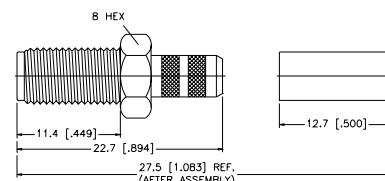
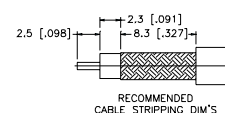


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Jack Crimp Attachment for Flexible Cable

Straight Crimp Jack - Standard Cable

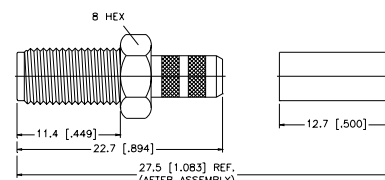
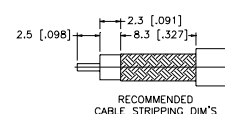
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6111A3-3GT50G-1-50	01	Gold	Teflon	50	3 or 4
SMA6111A3-3GT50G-1A-50	01A	Gold	Teflon	50	3 or 4
SMA6111A3-3GT50G-1B-50	01B	Gold	Teflon	50	3 or 4
SMA6111A5-3GT50G-7B-50	07B	Gold	Teflon	50	4



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Straight Crimp Jack - Miniature Cable

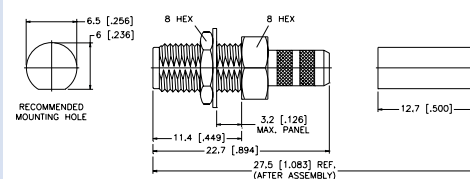
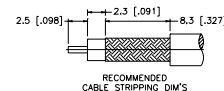
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6111A4-3GT50G-5-50	05	Gold	Teflon	50	1 or 2
SMA6111A4-3GT50G-5A-50	05A	Gold	Teflon	50	2
SMA6111A4-001-3GT50G-5-50 Short Body	05	Gold	Teflon	50	1 or 2
SMA6111G2-3GT50G-14-50	14	Gold	Teflon	50	1 or 2



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Bulkhead Crimp Jack - Standard Cable

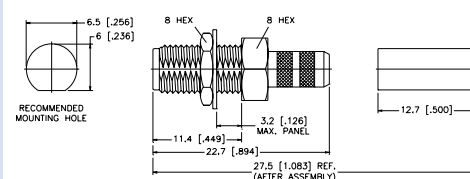
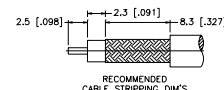
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6411A1-NT50G-1-50	01	Nickel	Teflon	50	3 or 4
SMA6411A3-3GT50G-1-50	01	Gold	Teflon	50	3 or 4
SMA6411A3-3GT50G-1A-50	01A	Gold	Teflon	50	3 or 4
SMA6411A1-3GT50G-1B-50	01B	Gold	Teflon	50	3 or 4
SMA6411A1-3GT50G-7B-50	07B	Gold	Teflon	50	4



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Bulkhead Crimp Jack - Miniature Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6411A4-3GT50G-5-50	05	Gold	Teflon	50	1 or 2
SMA6411G2-001-3GT50G-5A-50	05A	Gold	Teflon	50	2
SMA6411G2-3GT50G-14-50	14	Gold	Teflon	50	1 or 2

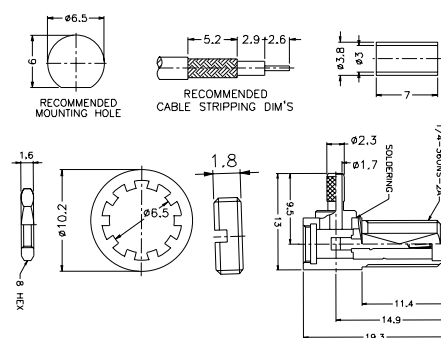


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Jack Crimp Attachment for Flexible Cable

Right Angle Bulkhead Crimp Jack - Miniature Cable

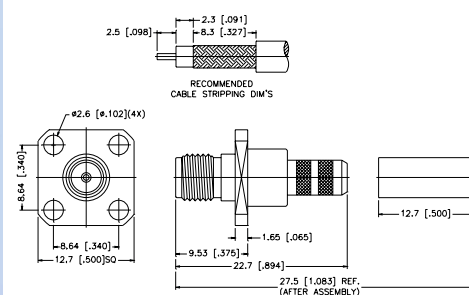
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6412A1-001-3GT50G-1-50	01	Gold	Teflon	50	1 or 2
SMA6412B1-3GT50G-5-50	05	Gold	Teflon	50	1 or 2



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Panel Crimp Jack - Standard Cable

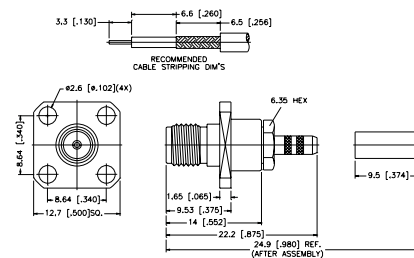
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6511A1-3GT50G-1-50	01	Gold	Teflon	50	3 or 4
SMA6511A1-3GT50G-1A-50	01A	Gold	Teflon	50	3 or 4



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Panel Crimp Jack - Miniature Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6511G1-3GT50G-5-50	05	Gold	Teflon	50	1 or 2
SMA6511G1-3GT50G-5A-50	05A	Gold	Teflon	50	3

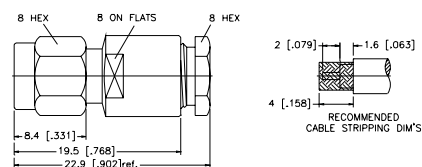


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Clamp Attachment for Flexible Cable

Straight Clamp Plug - Standard Cable

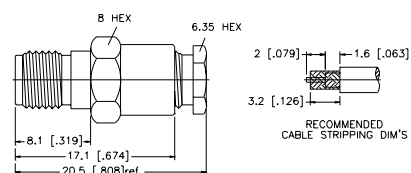
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1141C2-3GT50G-1-50	01	Gold	Teflon	50	N/A



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Straight Clamp Jack - Miniature Cable

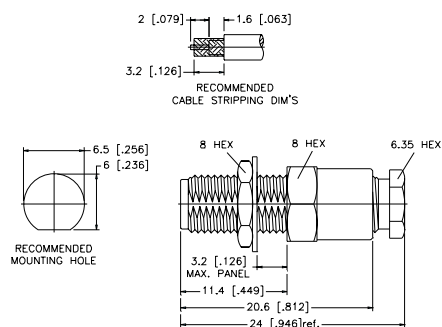
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6141C1-3GT50G-5-50	05	Gold	Teflon	50	N/A



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Bulkhead Clamp Jack - Miniature Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6441C1-3GT50G-5-50	05	Gold	Teflon	50	N/A



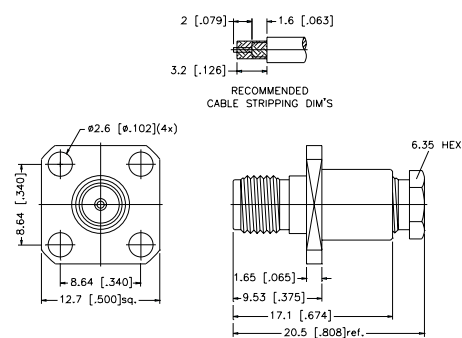
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Note:

Clamp Attachment for Flexible Cable

Panel Clamp Jack - Miniature Cable

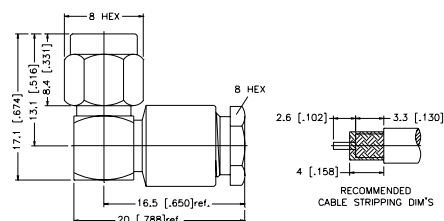
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6541C1-3GT50G-5-50	05	Gold	Teflon	50	N/A



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Right Angle Clamp Plug - Standard Cable

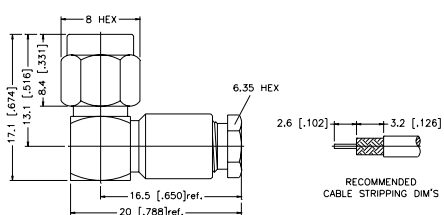
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1142C2-3GT50G-1-50	01	Gold	Teflon	50	N/A



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Right Angle Clamp Jack - Miniature Cable

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1142C1-3GT50G-5-50	05	Gold	Teflon	50	N/A

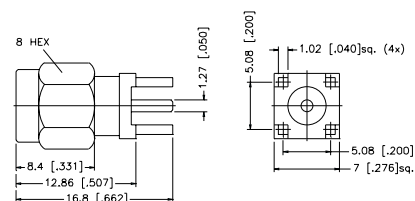


Assembly Instruction D - page 212

Printed Circuit Board Connectors

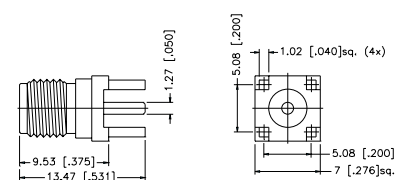
Straight Plug for P.C. Board

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1251A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



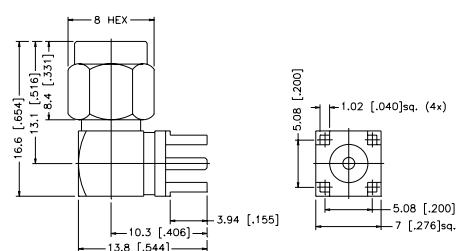
Straight Jack for P.C. Board

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6251A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



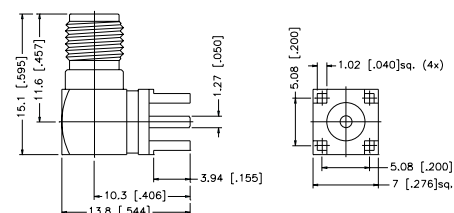
Right Angle Plug for P.C. Board

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1252A2-3GT50G-50	N/A	Gold	Teflon	50	N/A

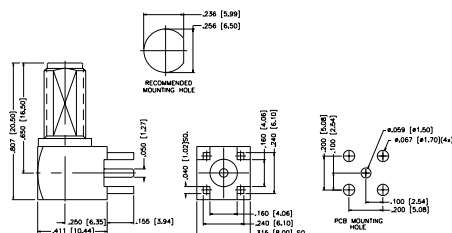


Right Angle Jack for P.C. Board

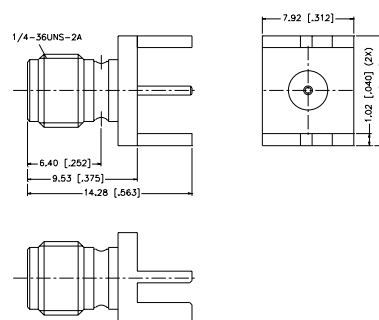
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6252A2-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6252D1-3GT50G-50 Diecast Body	N/A	Gold	Teflon	50	N/A



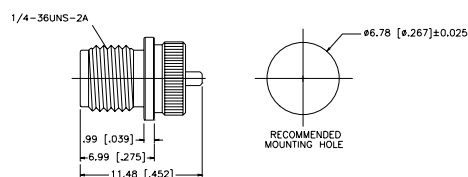
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6252A2-006-3GT50G-50	N/A	Gold	Teflon	50	N/A



P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6251A1-019-3GT50G-50	N/A	Gold	Teflon	50	N/A



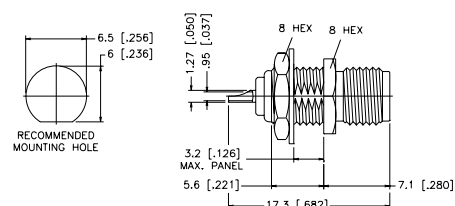
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6051A1-006-S/PT50G-50	N/A	Gold	Teflon	50	N/A



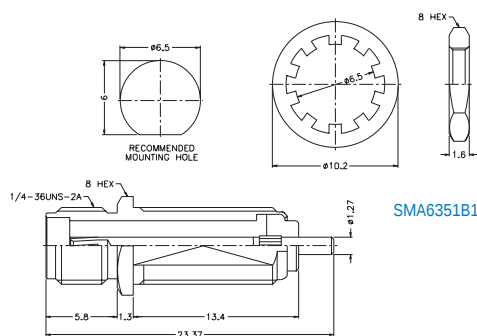
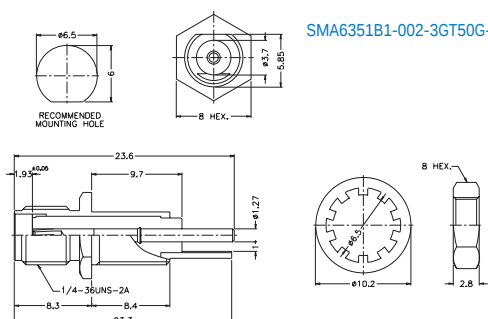
Bulkhead Receptacle/Solder Cup Terminal

Bulkhead Jack Receptacle - Front Mount

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6351B1-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6351B1-002-3GT50G-50 Bulkhead Mount	N/A	Gold	Teflon	50	N/A
SMA6351B1-003-3GT50G-50 Extended Body, Blunt Post	N/A	Gold	Teflon	50	N/A



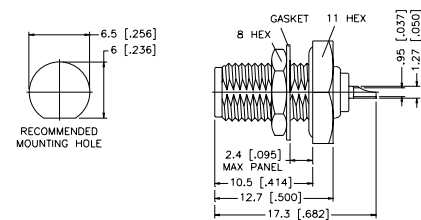
SMA6351B1-002-3GT50G-50



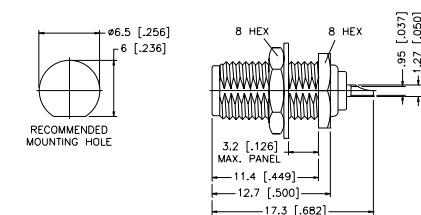
SMA6351B1-003-3GT50G-50

Bulkhead Jack Receptacle - Rear Mount

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6451A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



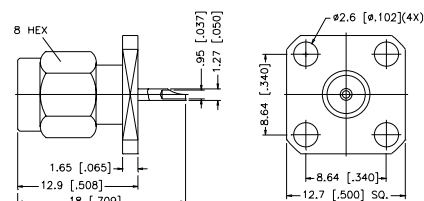
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6451B1-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6451B1-002-3GT50G-50 Flatwasher	N/A	Gold	Teflon	50	N/A



Panel Receptacle/Solder Cup terminal

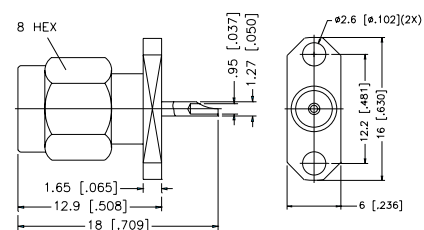
Panel Mount Plug Receptacle - 4 Hole Square Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



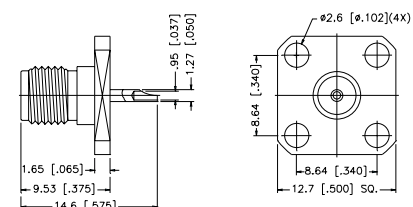
Panel Mount Plug Receptacle - 2 Hole Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551B1-3GT50G-50	N/A	Gold	Teflon	50	N/A



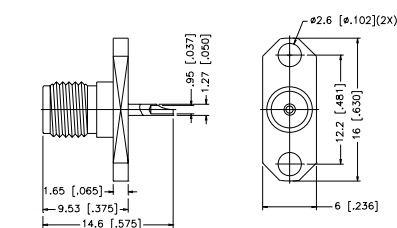
Panel Mount Jack Receptacle - 4 Hole Square Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551A1-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6551A1-001-3GT50G-50 12.7 mm [0.500"] Square Holes	N/A	Gold	Teflon	50	N/A



Panel Mount Jack Receptacle - 2 Hole Flange

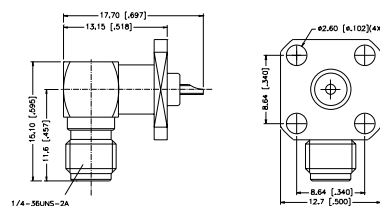
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551B1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Panel Receptacle/Solder Cup terminal

Right Angle Panel Mount Jack Receptacle - 4 Hole Square Flange

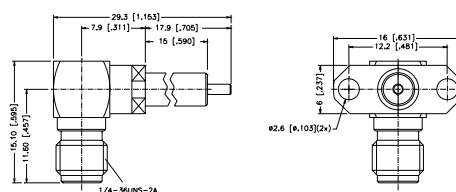
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6552A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Right Angle Panel Mount Jack Receptacle - 2 Hole 90% Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6552F1-3GT50G-50	N/A	Gold	Teflon	50	N/A

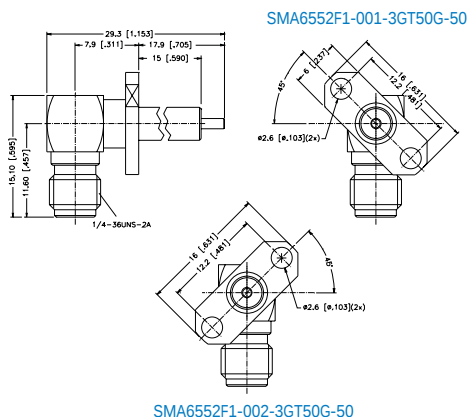
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Right Angle Panel Mount Jack Receptacle - 2 Hole 45% Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6552F1-001-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6552F1-002-3GT50G-50	N/A	Gold	Teflon	50	N/A

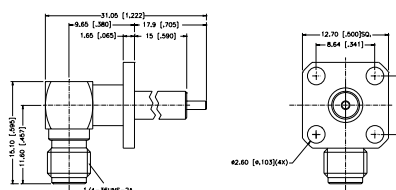
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Right Angle Panel Mount Jack Receptacle - 4 Hole Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6552E1-3GT50G-50	N/A	Gold	Teflon	50	N/A

Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.

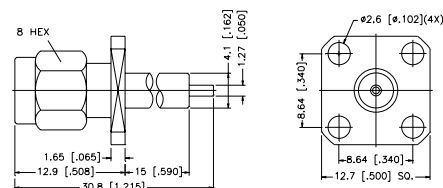


Panel Receptacle/Solder Pot terminal

Panel Mount Plug Receptacle - 4 Hole Square Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551E1-3GT50G-50	N/A	Gold	Teflon	50	N/A

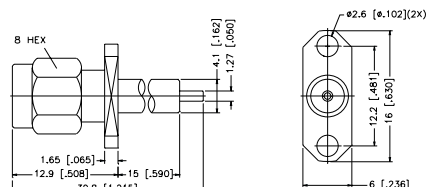
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Panel Mount Plug Receptacle - 2 Hole Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551F1-3GT50G-50	N/A	Gold	Teflon	50	N/A

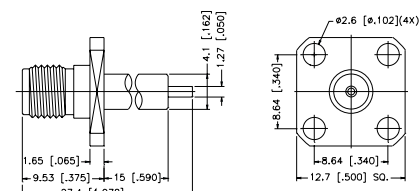
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Panel Mount Jack Receptacle - 4 Hole Square Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551E1-3GT50G-50	N/A	Gold	Teflon	50	N/A

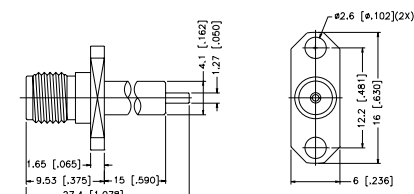
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Panel Mount Jack Receptacle - 2 Hole Flange - Exposed TFE Type

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551F1-3GT50G-50	N/A	Gold	Teflon	50	N/A

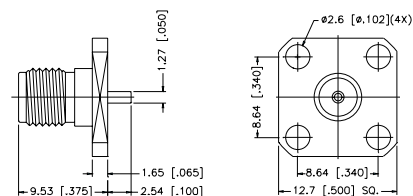
Remark: Extended teflon insulation available in various lengths.
Contact Amphenol for part number and availability.



Panel Receptacle/Solder Pot terminal

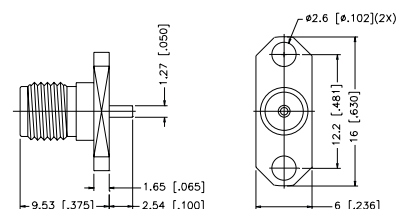
Panel Mount Jack Receptacle - 4 Hole Square Flange - Blunt Post

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551E9-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA6551E9-003-3GT50G-50	N/A	Gold	Teflon	50	N/A
6.6 mm [.260"] POST					



Panel Mount Jack Receptacle - 2 Hole Flange - Blunt Post

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551F9-3GT50G-50	N/A	Gold	Teflon	50	N/A

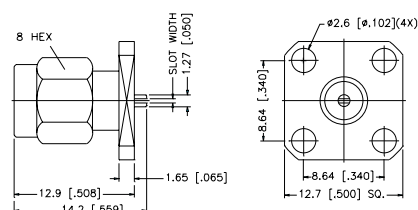


Panel Receptacle/Slot terminal

Panel Mount Plug Receptacle - 4 hole Square Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551C1-3GT50G-0.5-50	N/A	Gold	Teflon	50	N/A

Remark: Size of slot width = 0.3 mm [.01"],
0.5 mm [.02"],
0.7 mm [.03"],

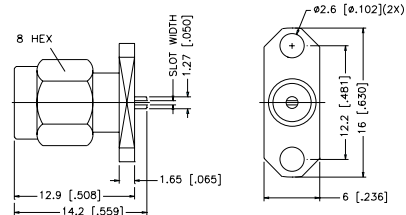


Panel Receptacle/Slot terminal

Panel Mount Plug Receptacle - 2 hole Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551D1-3GT50G-0.5-50	N/A	Gold	Teflon	50	N/A

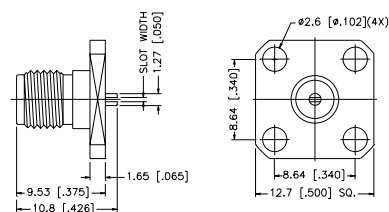
Remark: Size of slot width = 0.3 mm [.01"],
0.5 mm [.02"],
0.7 mm [.03"],



Panel mount Jack Receptacle - 4 hole Square Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551C1-3GT50G-0.5-50	N/A	Gold	Teflon	50	N/A

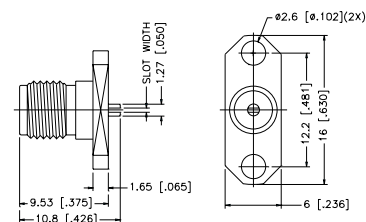
Remark: Size of slot width = 0.3 mm [.01"],
0.5 mm [.02"],
0.7 mm [.03"],



Panel mount Jack Receptacle - 2 hole Square Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551D1-3GT50G-0.5-50	N/A	Gold	Teflon	50	N/A

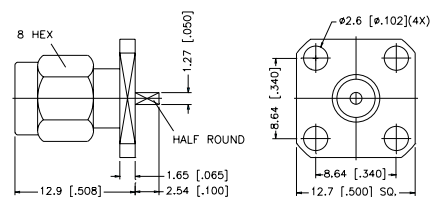
Remark: Size of slot width = 0.3 mm [.01"],
0.5 mm [.02"],
0.7 mm [.03"],



Panel Receptacle/Half Round Solder Pot Terminals

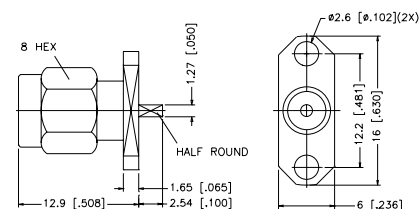
Panel Mount Plug Receptacle - 4 Hole Square Flange - Half Round Terminal

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551G1-3GT50G-50	N/A	Gold	Teflon	50	N/A



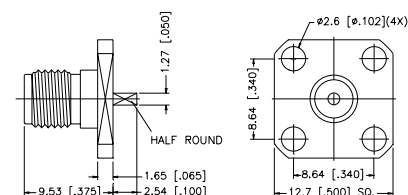
Panel Mount Plug Receptacle - 2 Hole Flange - Half Round Terminal

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551H1-3GT50G-50	N/A	Gold	Teflon	50	N/A



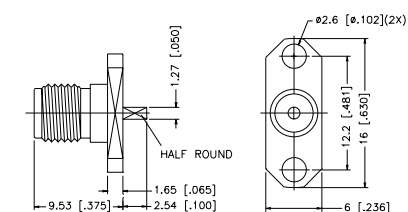
Panel Mount Jack Receptacle - 4 Hole Square Flange - Half Round Terminal

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551G1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Panel Mount Jack Receptacle - 2 Hole Flange - Half Round Terminal

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551H1-3GT50G-50	N/A	Gold	Teflon	50	N/A

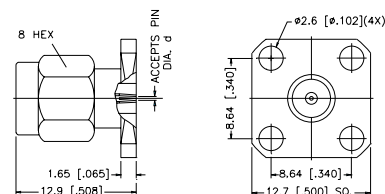


Panel Receptacle/Terminal Flush to Below Flange

Panel Mount Plug Receptacle - 4 Hole Sq. Flange - Terminal Flush to Below Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551K1-3GT50G-.015-50	N/A	Gold	Teflon	50	N/A

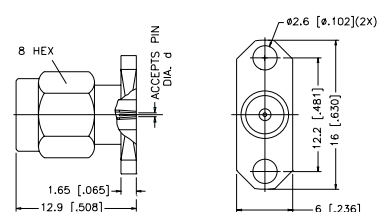
Remark: Pin size of d = .305 mm [.012"],
.381 mm [.015"],
.457 mm [.018"]



Panel Mount Plug Receptacle - 2 Hole Flange - Terminal Flush to Below Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551L1-3GT50G-.015-50	N/A	Gold	Teflon	50	N/A

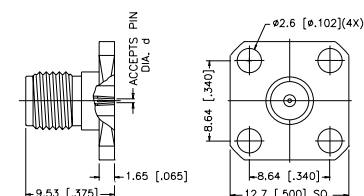
Remark: Pin size of d = .305 mm [.012"],
.381 mm [.015"],
.457 mm [.018"]



Panel Mount Jack Receptacle - 4 Hole Sq. Flange - Terminal Flush to Below Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551K1-3GT50G-.015-50	N/A	Gold	Teflon	50	N/A

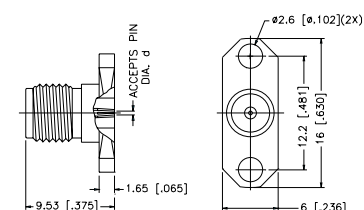
Remark: Pin size of d = .305 mm [.012"],
.381 mm [.015"],
.457 mm [.018"]



Panel Mount Jack Receptacle - 2 Hole Flange - Terminal Flush to Below Flange

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551L1-3GT50G-.015-50	N/A	Gold	Teflon	50	N/A

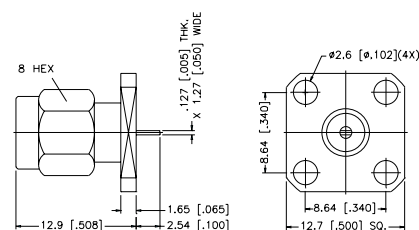
Remark: Pin size of d = .305 mm [.012"],
.381 mm [.015"],
.457 mm [.018"]



Panel Receptacle/Tab Terminal

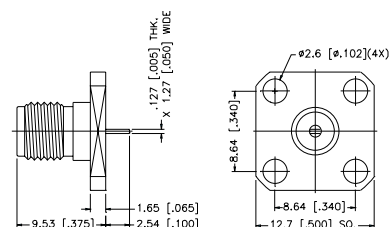
Panel Mount Plug Receptacle - 4 Hole Square Flange - Tab Terminal

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1551M1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Panel Mount Jack Receptacle - 4 Hole Square Flange - Tab Terminal

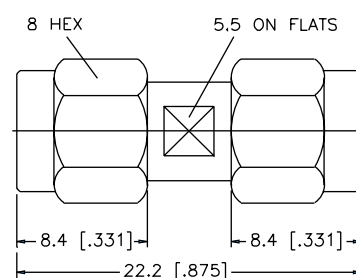
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA6551M1-3GT50G-50	N/A	Gold	Teflon	50	N/A



In-Series Adapters

Plug-to-Plug Adapter

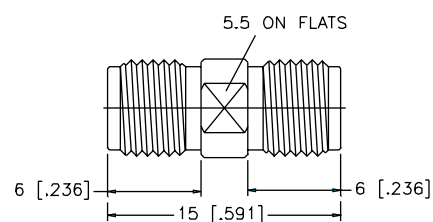
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA2071A1-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA2071A1-S/PT50G-50 Stainless Steel Body	N/A	S/S	Teflon	50	N/A



In-Series Adapters

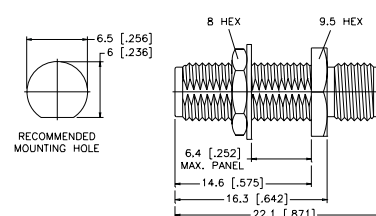
Jack-to-Jack Adapter

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA7071A2-3GT50G-50	N/A	Gold	Teflon	50	N/A
SMA7071A4-S/PT50G-50 Stainless Steel Body	N/A	S/S	Teflon	50	N/A



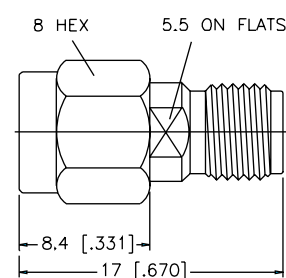
Jack-to-Jack Adapter - Bulkhead Feedthrough

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA7471B1-3GT50G-50	N/A	Gold	Teflon	50	N/A



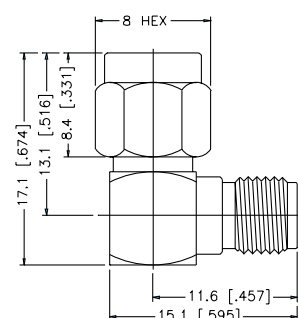
Plug-to-Jack Adapter

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA5071A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Plug-to-Jack Adapter - Right Angle

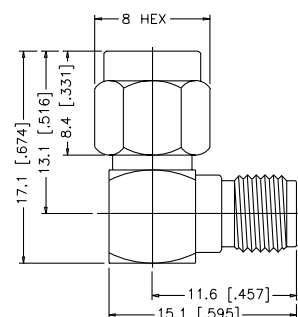
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA5072A2-3GT50G-50	N/A	Gold	Teflon	50	N/A



In-Series Adapters

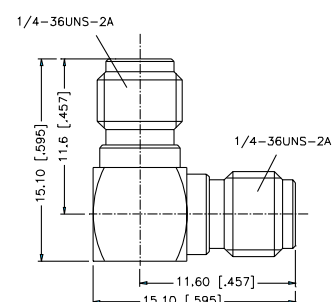
Plug-to-Jack Adapter - Right Angle

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA5072A2-3GT50G-50	N/A	Gold	Teflon	50	N/A



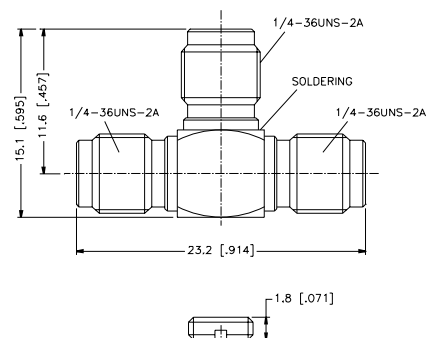
Jack-to-Jack Adapter - Right Angle

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA7072A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



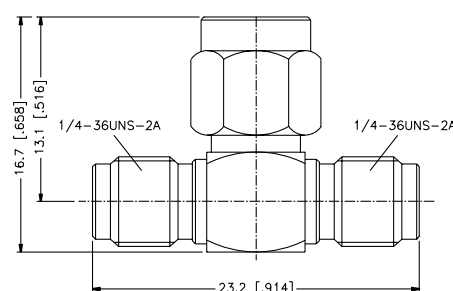
Jack-to-Jack-to-Jack Tee Adapter

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA8073A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Jack-to-Plug-to-Jack Tee Adapter

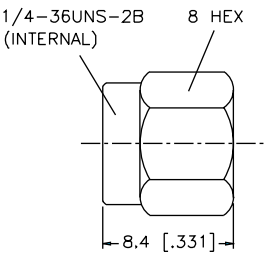
P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA9073A1-3GT50G-50	N/A	Gold	Teflon	50	N/A



Accessories

Male Cap

P.N.	Cable Group	Plt.	Ins.	Imp.	Crimp Tool
SMA1005A2-3G	N/A	Gold	Teflon	50	N/A



Note:

The Amphenol SMB/SMC subminiature coaxial connectors with 50 ohm impedance are for applications to 4 GHz (SMB) or 10 GHz (SMC). Generally less expensive than SMA, these connectors are used primarily in applications for microwave telephone and other non-defense telecommunication requirements.

SMB connectors feature quick connect/disconnect snap-on mating and operate to 4 GHz with low reflection.

SMC connectors have #10-32UNF-threaded screw-on couplings and operate reliably to 10 GHz.

Electrical Specifications

Electrical data		SMB	SMC
Impedance		50 ohm	50 ohm
Frequency range		0-4 GHz	0-10 GHz
VSWR *f in GHz	Cable dielectric dimensions	0.87 mm [.034"] 1.5 mm [.059"]	0.87 mm [.034"] 1.5 mm [.059"]
	Straight connector DC-1000 MHz	1.3 + 0.04f 1.25 + 0.04f	1.25 + 0.04f 1.15 + 0.04f
	Right angle connector DC-1000 MHz	1.4 + 0.08f 1.3 + 0.04f	1.4 + 0.06f 1.25 + 0.04f
Dielectric withstanding Voltage 50 Hz rms		750V 1000V	750V 1000V
Working voltage 50 Hz rms		250V 335V	250V 335V
Working voltage DC		350V 450V	350V 450V
Insulation resistance		1000 Megohms min	1000 Megohms min
Contact	Inner conductor	≤ 3 Megohms	≤ 3 Megohms
Resistance	Outer conductor	≤ 0.5 Megohms	≤ 0.5 Megohms
Insertion loss (db max.)	Straight connectors	.30 db max. at 1.5 GHz	.25 db max. at 4 GHz
	Right angle connectors	.60 db max. at 1.5 GHz	.50 db max. at 4 GHz

Material Specifications

Parts Name		Material	Finish
Body, Metal parts		Brass per QQ-B-626	Nickel or gold per requirement
Contacts	Male	Brass per QQ-B-626	30 μ"Gold
	Female	Female Beryllium copper, Per QQ-C-530, heat treated per MIL-H-7199	30 μ"Gold
Insulators		PTFE	None
Gasket		Silicone rubber	None
Crimp ferrules		Seamless copper tubing alloy	Nickel or gold per requirement