

SMA

(Sub Miniature A)



SMA connectors have a frequency range of DC to 12.4GHz with flexible cable.

Semi-rigid cabling extends the frequency range of the device to 18GHz. These devices offer broadband performance with low reflection and constant 50ohm impedance.

They distinguish themselves through their high mechanical strength, high durability, high reliability and low VSWR.

Electrical Specifications

Impedance		50 ohm
Frequency Range	Semi-rigid Cable	0-18 GHz
	Flexible Cable	0-12.4 GHz
Voltage Rating		500V Max. (RG-58, 141, 142, 223)
		375V Max. (RG-174, 188, 316)
Dielectric Withstanding Voltage		1000V RMS (.141&RG-58 Cable Group)
		750V RMS (.085&RG-316 Cable Group)
VSWR	Straight	1.05 + 0.005f Max.
	Right Angle	1.15 + 0.015f Max.
Contact Resistance	Center	3.0 Milliohms Max
	Body	2.0 Milliohms Max
RF Leakage		-90 dB Min. at 2.0-3.0 GHz
Insulation Resistance		5000 Megohms Min.
Insertion Loss		0.04√f GHz dB Max. at 6.0 GHz



Material Specifications

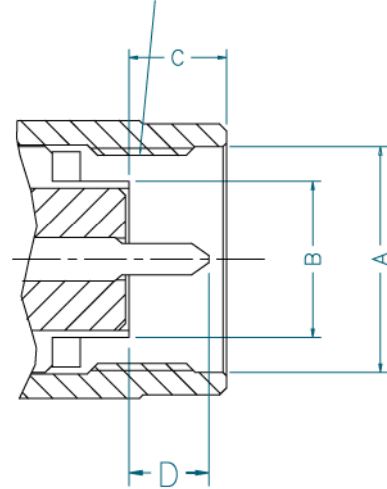
		Material	Finish
Body		Brass	Nickel or Gold
Center Contact	Male	Brass	Gold
	Female	Beryllium Copper, Phosphor Bronze	Gold
Insulator		Teflon	--
Gasket		Silicone Rubber	--
Crimp Ferrule		Annealed Copper	Same as Body

※These characteristics are typical and may not apply to all connectors.

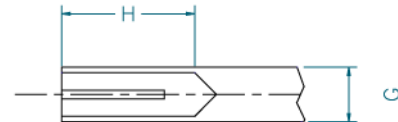
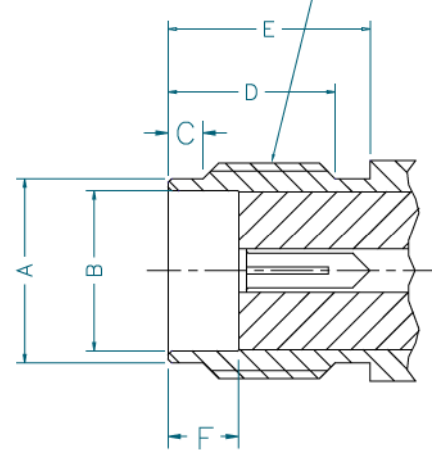
SMA Connectors Interface Mating Dimensions

SMA

1/4"-36UNS-2B



1/4"-36UNS-2A



Plug (Male)

Letter	Millimeters (Inches)	
	Min.	Max.
A	6.35 [0.250]	6.73 [0.265]
B	4.53 [0.178]	4.59 [0.181]
C	2.54 [0.100]	3.43 [0.135]
D	1.91 [0.075]	2.54 [0.100]
E	0.90 [0.035]	0.94 [0.037]
F	1.24 [0.049]	1.30 [0.051]

Jack (Female)

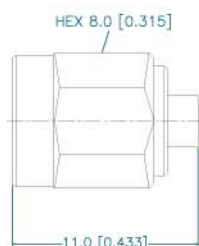
Letter	Millimeters (Inches)	
	Min.	Max.
A	5.28 [0.208]	5.49 [0.265]
B	4.60 [0.181]	4.67 [0.184]
C	0.38 [0.015]	1.14 [0.045]
D	4.32 [0.170]	—
E	5.54 [0.218]	—
F	1.88 [0.074]	1.98 [0.078]
G	1.24 [0.049]	1.30 [0.051]
H	2.67 [0.105]	—

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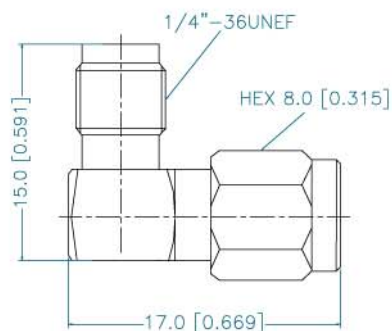
SMA, Plug Solder For Semi-Rigid Cable

- Part Number : **SMA1-7001**
- Impedance : 50
- Cable : As Specified By Customers



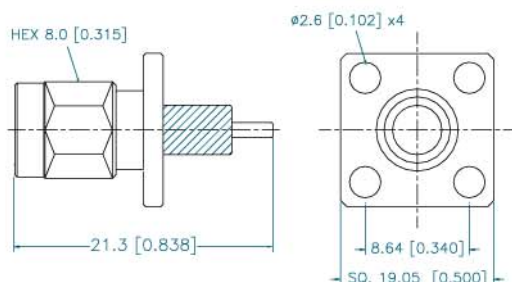
SMA, Plug To Jack Adaptor, Right Angle

- Part Number : **SMA1-7003**
- Impedance : 50



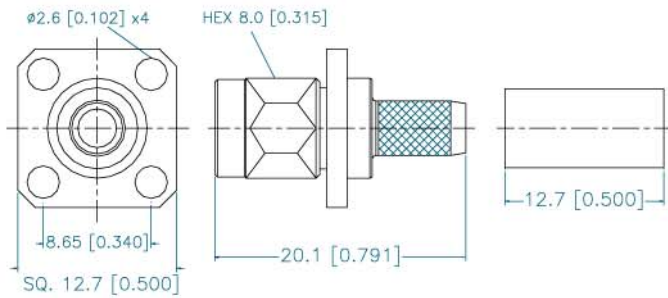
SMA, Plug Panel Mount (4 Hole Flange , Exposed Teflon)

- Part Number : **SMA1-7006**
- Impedance : 50



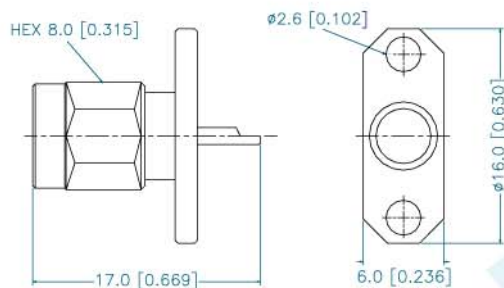
SMA, Plug Crimp Type Panel Mount (4 Hole Flange)

- Part Number : **SMA1-7008**
- Impedance : 50
- Cable : As Specified By Customers



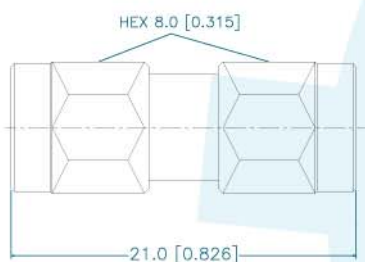
SMA, Plug Panel Mount (2 Hole Flange)

- Part Number : **SMA1-7009**
- Impedance : 50



SMA, Plug To Plug Adaptor

- Part Number : **SMA1-7019**
- Impedance : 50

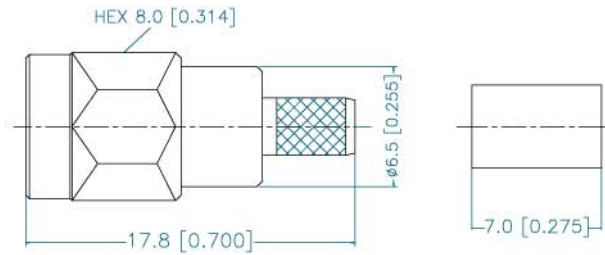


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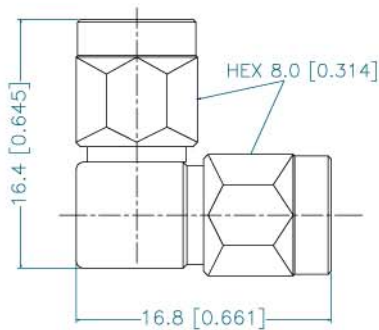
SMA, Plug Crimp Type

- Part Number : **SMA1-7026**
- Impedance : 50
- Cable : As Specified By Customers



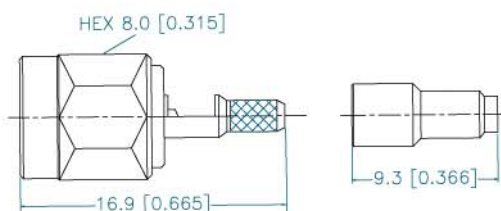
SMA, Plug To Plug Adaptor, Right Angle

- Part Number : **SMA1-7028**
- Impedance : 50



SMA, Plug Crimp/Solder Type

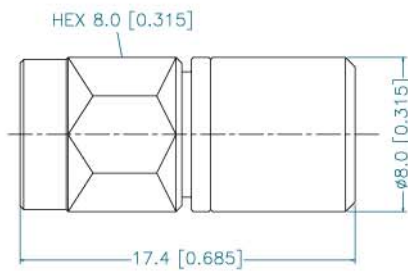
- Part Number : **SMA1-7031**
- Impedance : 50
- Cable : As Specified By Customers



SMA, Plug Terminator

■ Part Number : **SMA1-7032**

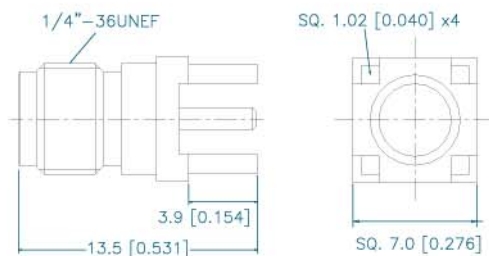
■ Impedance : 50



SMA, Jack For P.C.B Mount (4 Legs)

■ Part Number : **SMA1-7502**

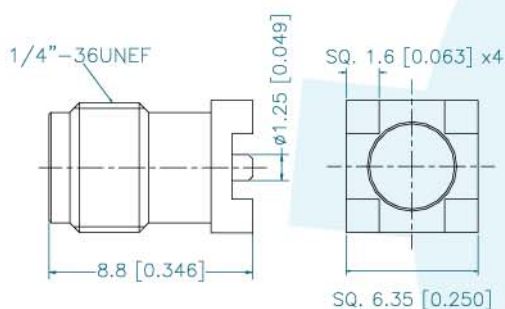
■ Impedance : 50



SMA, Jack For P.C.B Mount (SMT)

■ Part Number : **SMA1-7502A**

■ Impedance : 50

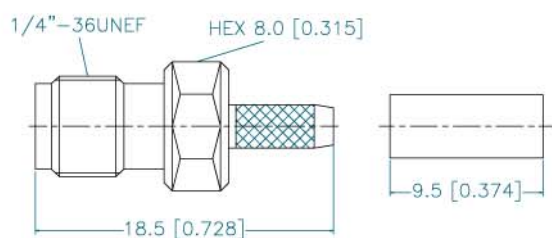


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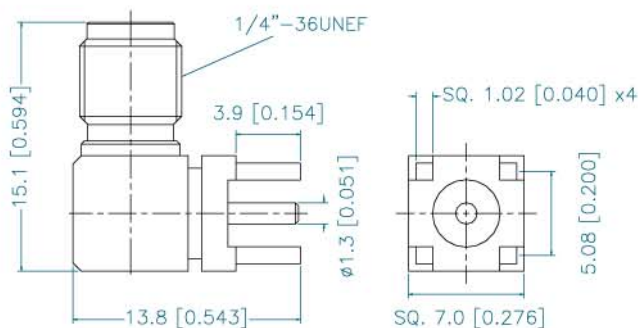
SMA, Jack Crimp Type

- Part Number : **SMA1-7507**
- Impedance : 50
- Cable : **As Specified By Customers**



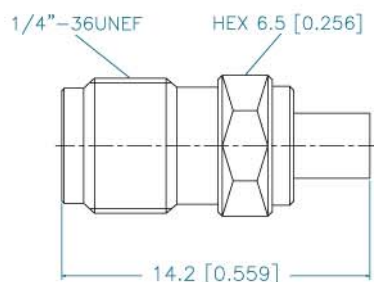
SMA, Jack For P.C.B Mount (4 Legs), Right Angle

- Part Number : **SMA1-7508**
- Impedance : 50



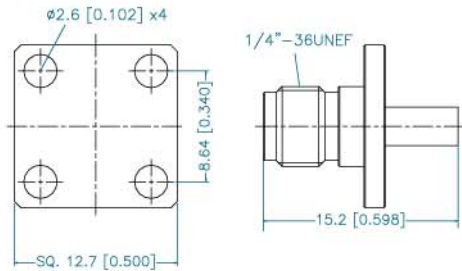
SMA, Jack Solder For Semi-Rigid Cable

- Part Number : **SMA1-7509**
- Impedance : 50
- Cable : **As Specified By Customers**



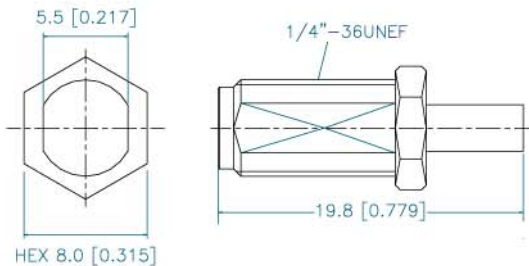
SMA, Jack Panel Mount (4 Hole Flange) For Semi-Rigid Cable

- Part Number : **SMA1-7514**
- Impedance : 50
- Cable : As Specified By Customers



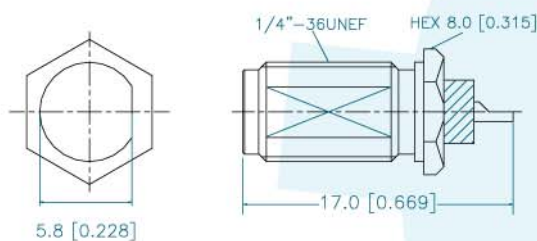
SMA, Jack Bulkhead Solder For Semi-Rigid Cable

- Part Number : **SMA1-7515**
- Impedance : 50
- Cable : As Specified By Customers



SMA, Jack Bulkhead Type (Rear Mount)

- Part Number : **SMA1-7517**
- Impedance : 50

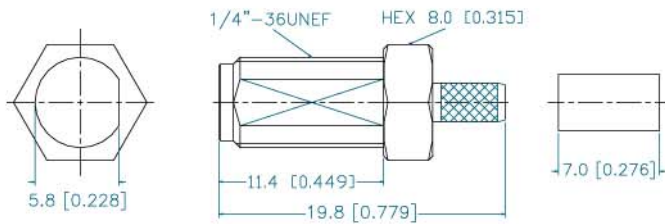


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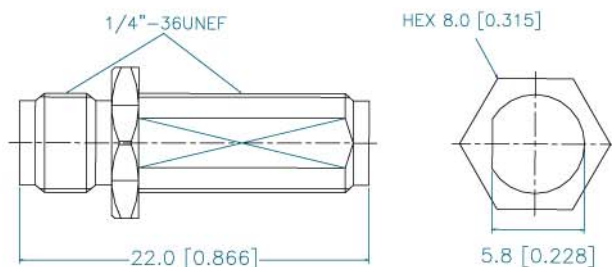
SMA, Jack Bulkhead Crimp Type

- Part Number : **SMA1-7518**
- Impedance : 50
- Cable : As Specified By Customers



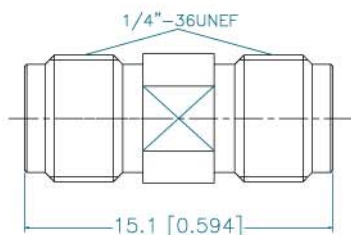
SMA, Jack To Jack Bulkhead Adaptor

- Part Number : **SMA1-7520**
- Impedance : 50



SMA, Jack To Jack Adaptor

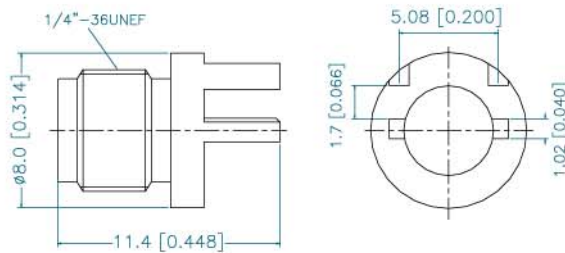
- Part Number : **SMA1-7553**
- Impedance : 50



SMA, Jack End Launch

■ Part Number : **SMA1-7557**

■ Impedance : 50

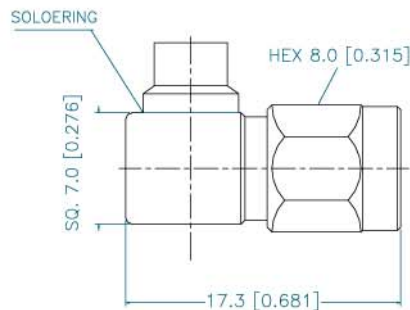


SMA, Plug Solder For Semi-Rigid Cable, Right Angle

■ Part Number : **SMA2-1182A**

■ Impedance : 50

■ Cable : As Specified By Customers

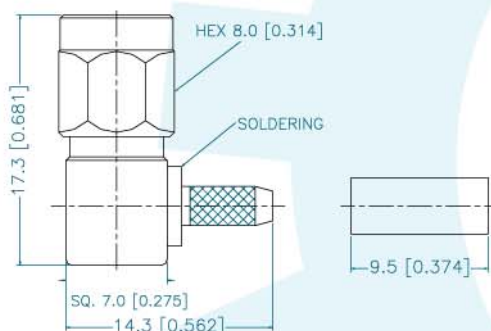


SMA, Plug Crimp Type, Right Angle

■ Part Number : **SMA2-5091**

■ Impedance : 50

■ Cable : As Specified By Customers

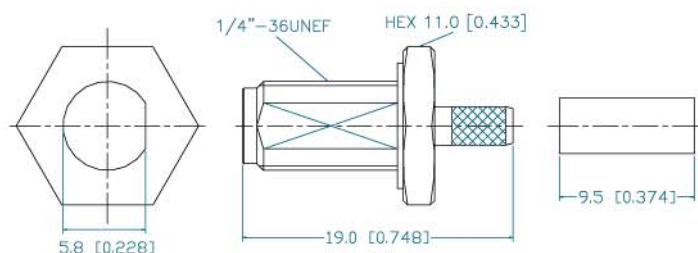


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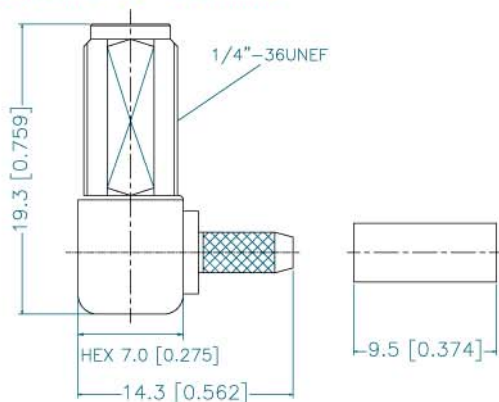
SMA, Jack Bulkhead Crimp Type (Waterproof)

- Part Number : **SMA2-6481A**
- Impedance : 50
- Cable : As Specified By Customers



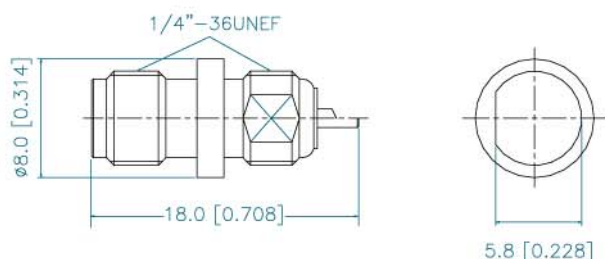
SMA, Jack Bulkhead Crimp Type, Right Angle

- Part Number : **SMA2-7015G**
- Impedance : 50
- Cable : As Specified By Customers



SMA, Jack Bulkhead Type (Front Mount)

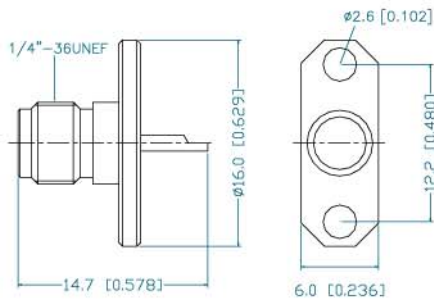
- Part Number : **SMA2-7311D**
- Impedance : 50



SMA, Jack Panel Mount (2 Hole Flange)

■ Part Number : **SMA2-7535**

■ Impedance : 50

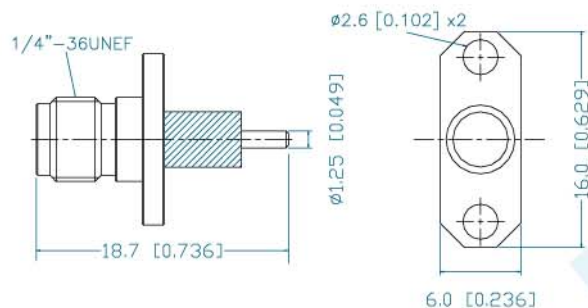


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SMA, Jack Panel Mount (2 Hole Flange , Exposed Teflon)

■ Part Number : **SMA2-7535C**

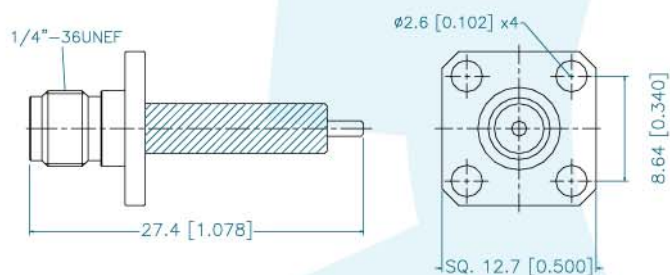
■ Impedance : 50



SMA, Jack Panel Mount (4 Hole Flange , Exposed Teflon)

■ Part Number : **SMA2-7550**

■ Impedance : 50



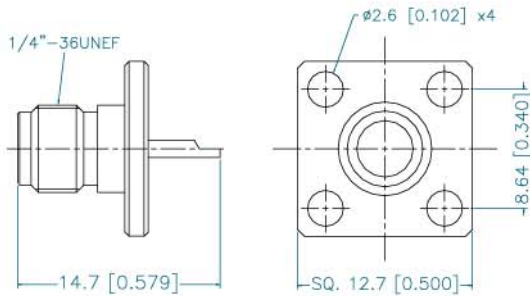
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SMA, Jack Panel Mount (4 Hole Flange)

■ Part Number : **SMA2-7550B**

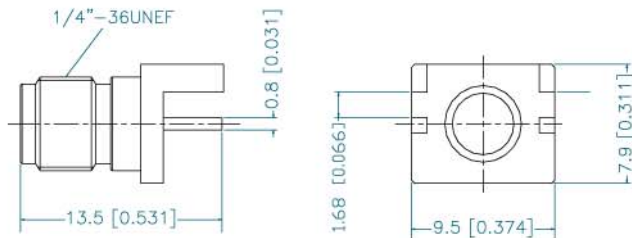
■ Impedance : 50



SMA, Jack End Launch

■ Part Number : **SMA2-7700**

■ Impedance : 50



SMA, Jack Bulkhead For P.C.B Mount (4 Legs),Right Angle

■ Part Number : **SMA2-7790B**

■ Impedance : 50

