



# Connectors

Standard Series

## CATALOGUE DIRECTORY

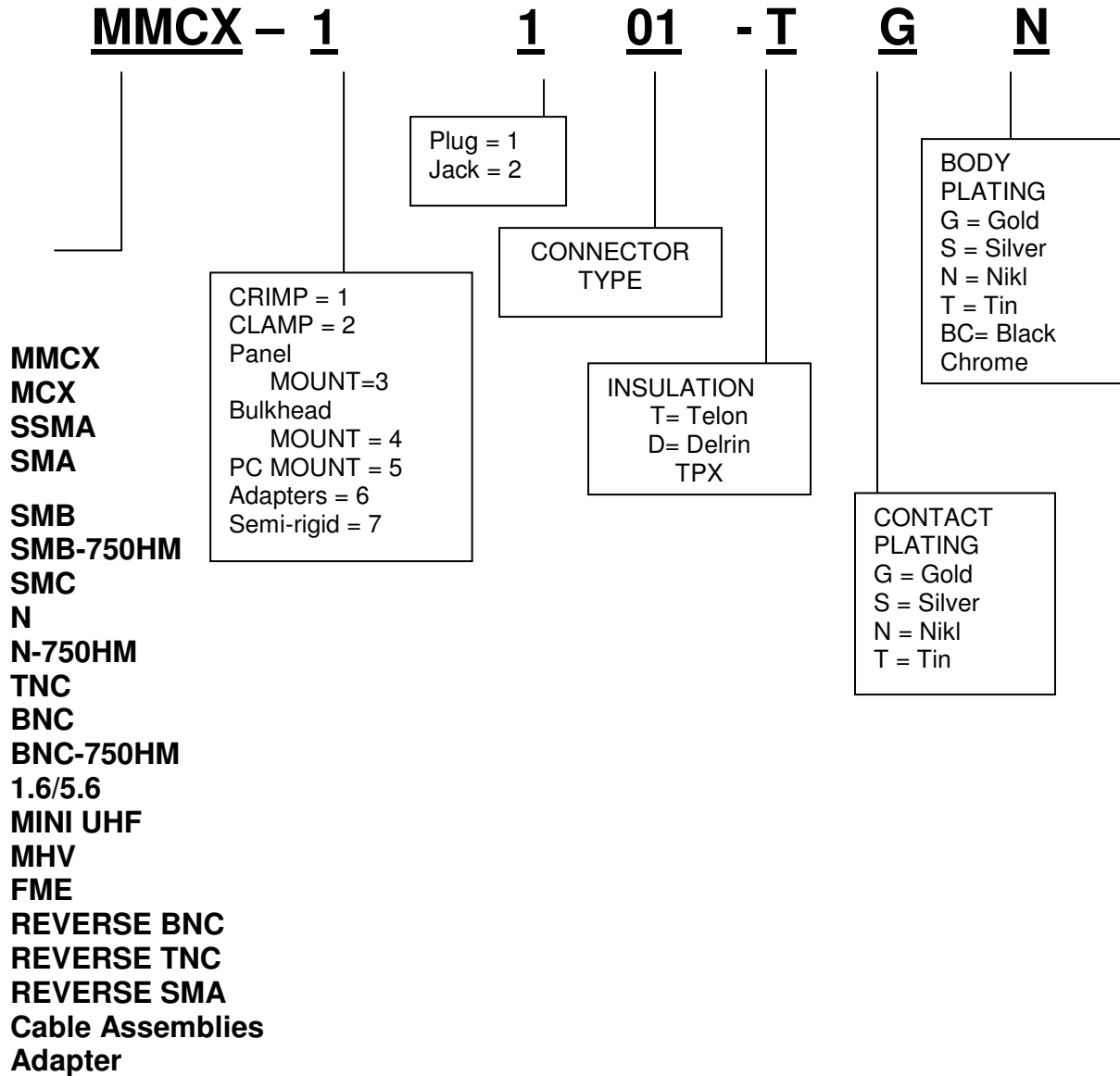
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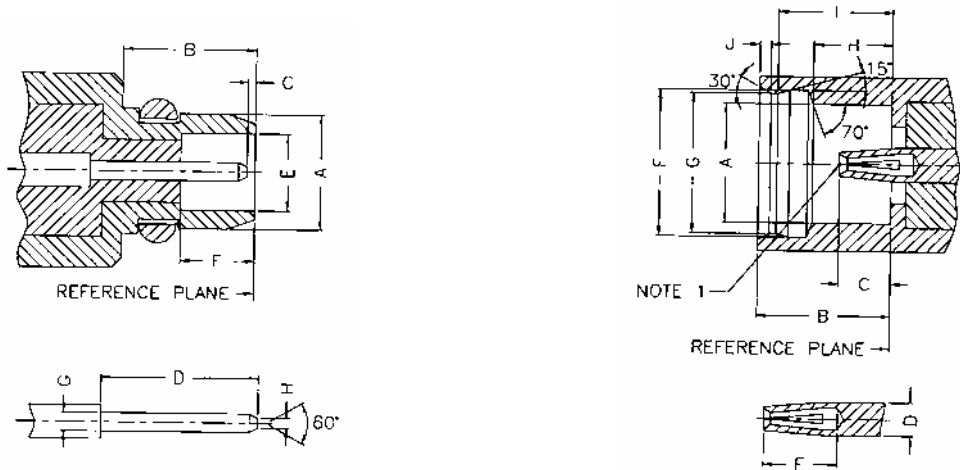
## CONNECTOR CODING KEY



## MMCX

### Specification

#### INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	-	2.40
B	2.70	-
C	0.00	0.25
D	-	3.15
E	1.58	1.62
F	1.45	-
G	0.38	0.42
H	-	0.20

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	2.41	-
B	2.60	-
C	0.90	1.20
D	0.68	0.72
E	1.40	-
F	3.00	3.04
G	2.87	2.90
H	1.57	1.63
I	2.30	2.34
J	-	0.23

#### Electrical:

<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 6.0 Ghz
<b>VSWR</b>	0 – 4 Ghz = 1.2 max (straight) 1.25 max (right angle) 4 – 6 GHz = 1.25 max (atraingt) 1.4 max (right angle)
<b>Dielectric Withstanding Voltage</b>	500 V Rms min. at sea level
<b>Contact Resistance</b>	center contact = 5.0 Milliohms max outer contact = 2.5 Milliohms max
<b>RF Leakage</b>	-60 dB min
<b>Insertion Loss</b>	.4 dB max (straight) .6 dB max (right angle)
<b>Insulation Resistance</b>	1,000 Megohms min

#### Mechanical & Environmental:

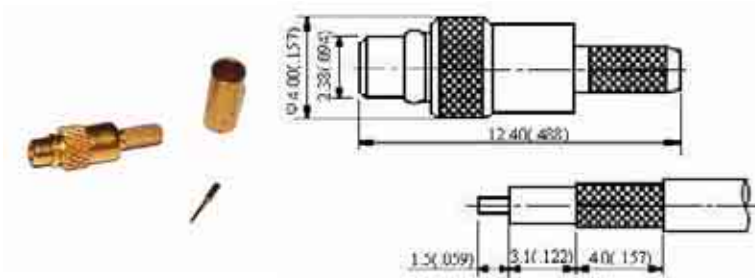
<b>Mating</b>	"Push-pull" snap-on coupling
<b>Durability</b>	500 matings
<b>Cable Retention</b>	RG – 174, 188, 316 – 20 lbs min
<b>Temperature Range</b>	-40 °C to 90 °C

Temperature shock	MIL-STD-202 Method 107
Humidity	MIL-STD-202 Method 103

**Material:**

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Crimp Ferrule	Annealed Copper	Same as Body

**Straight Plug Crimp ( MMCX )**

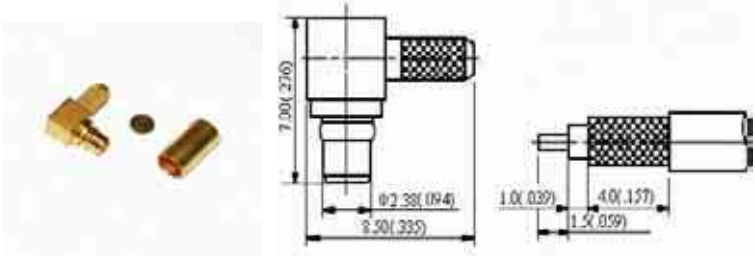


PART NO.	APPLICABLE CABLE RG/U
MMCX-1101-TGG	178, 196
MMCX-1102-TGG	174, 188, 316
MMCX-1103-TGG	RD 316u

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug Crimp ( MMCX )**

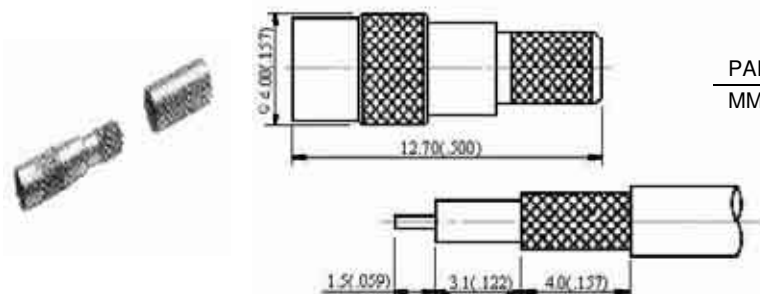


PART NO.	APPLICABLE CABLE RG/U
MMCX-1105-TGG	178, 196
MMCX-1106-TGG	174, 188, 316
MMCX-1107-TGG	RD 316u

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Jack Crimp ( MMCX )**

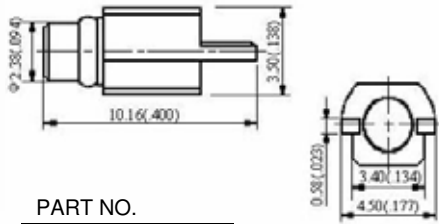


PART NO.	APPLICABLE CABLE RG/U
MMCX-1204-TGG	174, 188, 316

**Description:**  
Flexible Cable-Crimp Attachment

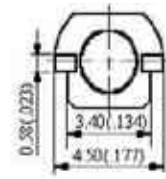
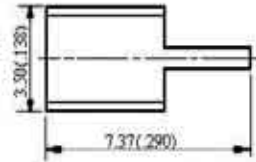
Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Edgecard Plug ( MMCX )



PART NO.  
MMCX-5101-TGG

## Straight Edgecard Jack ( MMCX )

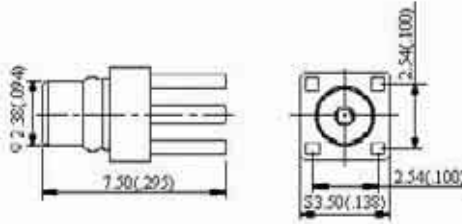


PART NO.  
MMCX-5204-TGG

**Description:**  
Edgecard Mount

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight PCB Mount Jack ( MMCX )

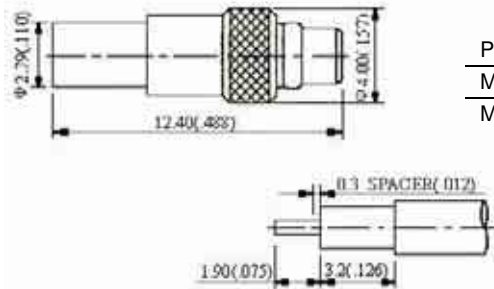


PART NO.  
MMCX-5105-TGG

**Description:**  
Edgecard Mount

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Plug ( MMCX )

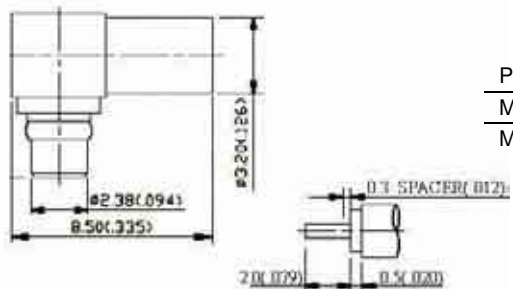


PART NO.	APPLICABLE CABLE RG/U
MMCX-7101-TGG	.086"
MMCX-7102-TGG	0.47"

**Description:**  
Direct solder for Semi-Rigid Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

## Right Angle Plug ( MMCX )



PART NO.	APPLICABLE CABLE RG/U
MMCX-7103-TGG	.086"
MMCX-7104-TGG	0.47"

**Description:**  
Direct solder for Semi-Rigid Cable

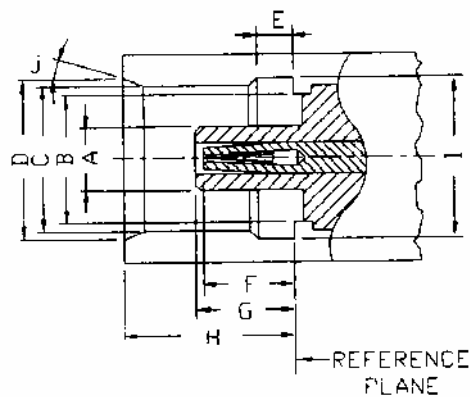
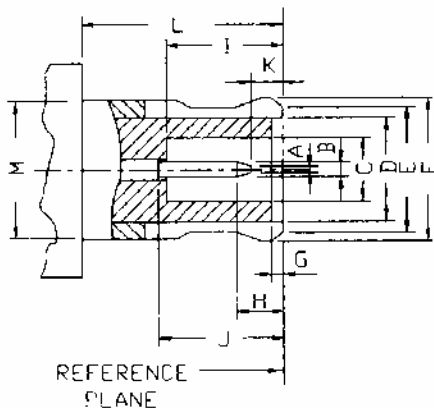
Finish: Gold plated center contact & body  
Insulation: Teflon

## MCX

50 ohm 0 – 6 GHz

MCX microminiature connectors provide repeatable performance from DC to 6 GHz. The design of these devices have taken into consideration the need for size reduction, low weight, durability and reliable performance. The MCX devices enable a 30% space reduction over similar SMB/SMC types. The MCX is available for affixment to industry standard cable and as a printed circuit board device. The “snap-on” connection feature between devices offer the user ease of assembly in dense packaging layouts. Applications for the MCX are those where size, Weight, performance and ease of assembly are the driving considerations to the final design decision. Typically, these include GPS, wireless communications (WLAN and mobile) and automotive.

### INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.00 (.079)	2.07 (.0815)
D	-	3.00 (.118)
E	-	3.60 (.142)
F	3.63 (.143)	3.80 (.150)
G	0.00 (.000)	0.30 (.012)
H	-	1.20 (.047)
I	2.80 (.110)	3.20 (.126)
J	2.80 (.110)	3.20 (.126)
K	0.15 (.006)	-
L	4.15 (.163)	-
M	-	3.40 (.134)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.80 (.079)	1.98 (.078)
B	-	3.00 (.118)
C	3.42 (.135)	3.48 (.137)
D	3.80 (.150)	-
E	0.75 (.029)	0.85 (.033)
F	2.30 (.090)	2.80 (.110)
G	2.60 (.102)	2.80 (.110)
H	4.00 (.157)	4.12 (.162)
I	3.60 (.142)	3.80 (.150)
J	18°	22°

### Electrical:

<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 6.0 GHz
<b>VSWR</b>	0 – 2 GHz = 1.22 max (straight) 1.50 max (right angle) 2 – 6 GHz = 1.35 max (straight)

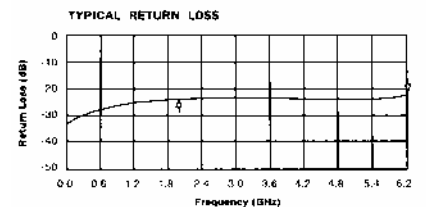
	1.63 max (right angle)
<b>Dielectric Withstanding Voltage</b>	RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 vltms rms max
<b>Contact Resistance</b>	center contact = 5.0 Milliohms max outer contact = 2.5 milliohms max
<b>RF Leakage</b>	-60 dB min
<b>Insertion Loss</b>	.4 dB max (straight) .6 dB max (right angle)
<b>Insulation Resistance</b>	1,000 Megohms min

### Mechanical & Environmental:

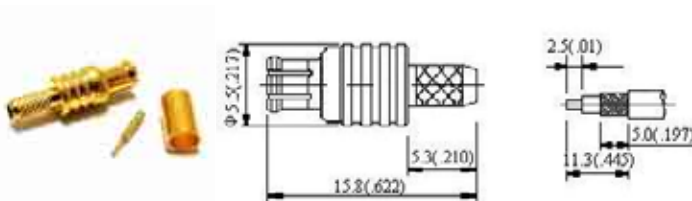
<b>Mating</b>	“Push-pull” snap-on coupling
<b>Durability</b>	500 matings
<b>Cable Retention</b>	RG – 174, 188, 316 → 20 lbs min
<b>Temperature Range</b>	-65 °C to 165 C°
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-1344 Method 1003 Test Cond. A.

### Material:

	Material	Plating
<b>Connector Body</b>	Brass	Nickel or Gold
<b>Center Contact</b>	Male: Brass Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body



### Straight Plug Crimp ( MCX )

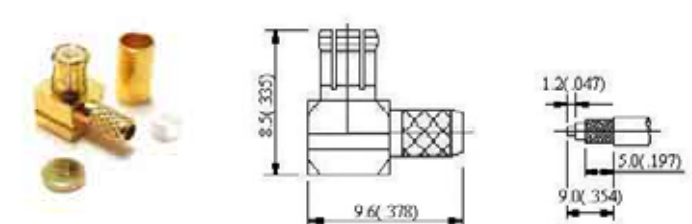


PART NO.	APPLICABLE CABLE RG/U
MCX-1101-TGG	174, 188A, 316
MCX-1102-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Right Angle Plug Crimp ( MCX )



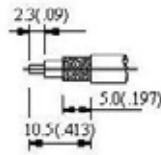
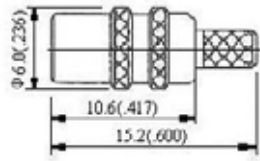
PART NO.	APPLICABLE CABLE RG/U
MCX-1105-TGG	174, 188A, 316
MCX-1106-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon



## Straight Jack Crimp ( MCX )

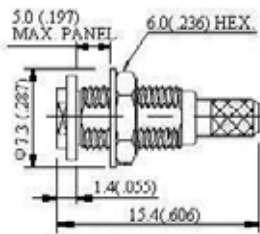


PART NO.	APPLICABLE CABLE RG/U
MCX-1203-TGG	174, 188A, 316
MCX-1204-TGG	178, 196

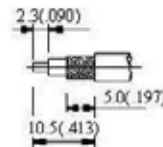
**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Bulkhead Jack Crimp ( MCX )



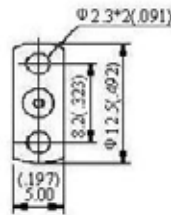
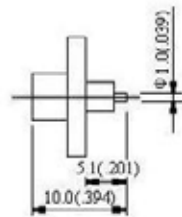
PART NO.	APPLICABLE CABLE RG/U
MCX-1207-TGG	174, 188A, 316
MCX-1208-TGG	178, 196



**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## 2 Holes Flange Jack Receptacle ( Exposed Teflon ) ( MCX )

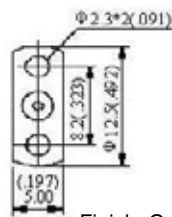
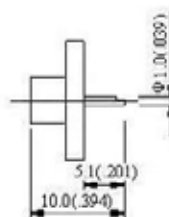


PART NO.
MCX-3201-TGG

**Description:**  
Panel Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

## 2 Holes Flange Jack Receptacle ( Solder Pot Contact ) ( MCX )

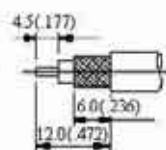
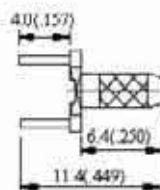
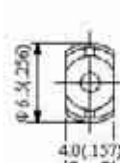


PART NO.
MCX-3202-TGG

**Description:**  
Panel Mount Receptacle

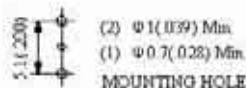
Finish: Gold plated center contact & body  
Insulation: Teflon

## PCB Cable Terminal-Crimp Type ( MCX )



PART NO.
MCX-5004-G

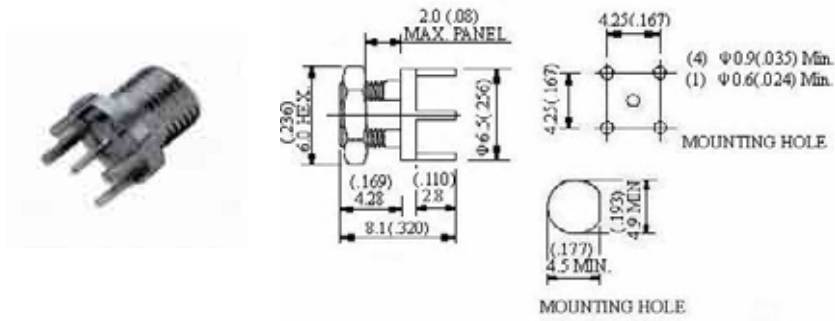
**Description:**  
Printed Circuit Board Receptacles



(2)  $\phi$  1 (039) Min.  
(1)  $\phi$  0.7 (028) Min.  
MOUNTING HOLE

Finish: Gold plated

## Straight PCB Mount Bulkhead Jack Receptacle ( MCX )

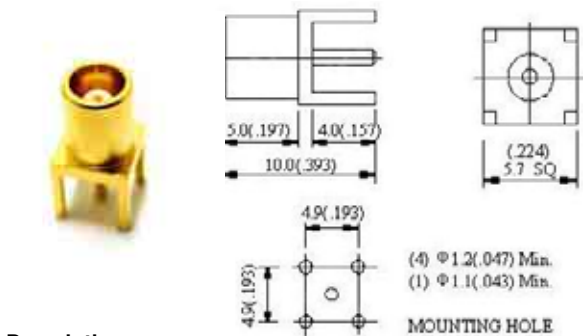


PART NO. \_\_\_\_\_  
MCX-5201-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight PCB Mount Jack Receptacle ( MCX )

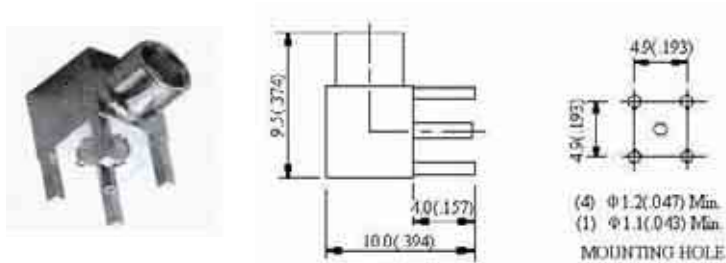


PART NO. \_\_\_\_\_  
MCX-5202-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## Right Angle PCB Mount Jack Receptacle ( MCX )

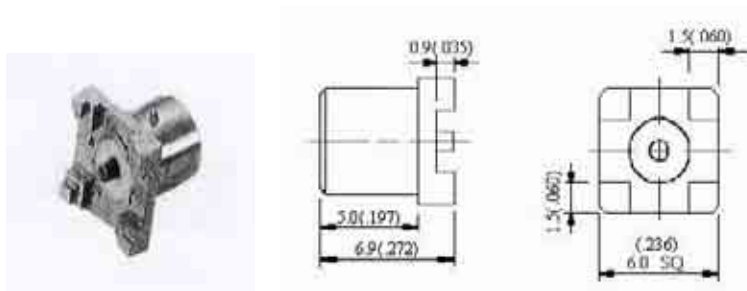


PART NO. \_\_\_\_\_  
MCX-5203-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Surface Mount Jack Receptacle ( MCX )

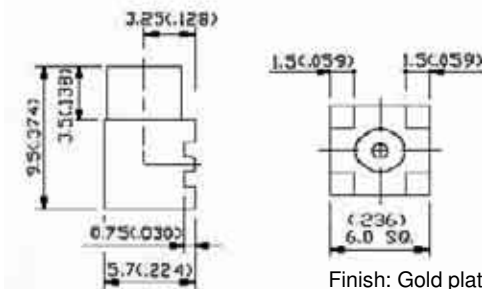


PART NO. \_\_\_\_\_  
MCX-5205-TGG

**Description:**  
Surface Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Surface Mount Jack Receptacle ( MCX )**

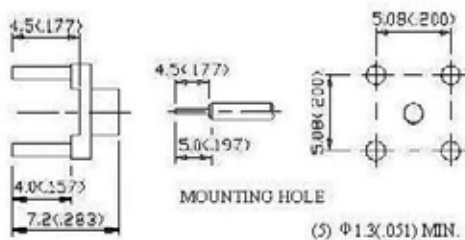


PART NO. \_\_\_\_\_  
MCX-5206-TGG

**Description:**  
Surface Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

**PCB Cable Terminal ( MCX )**

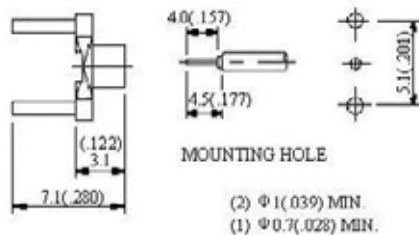


PART NO. \_\_\_\_\_  
MCX-7003-G | APPLICABLE CABLE RG/U  
RG405/u(.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated  
Insulation: Teflon

**PCB Cable Terminal ( MCX )**

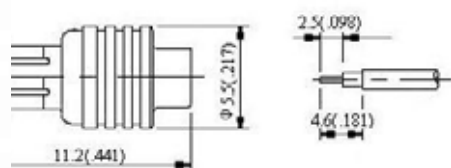


PART NO. \_\_\_\_\_  
MCX-7004-G | APPLICABLE CABLE RG/U  
RG405/u(.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated

**Straight Plug ( MCX )**

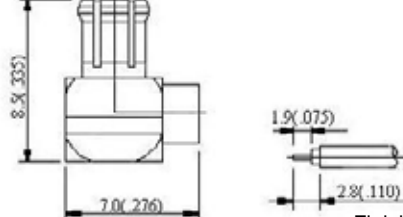


PART NO. \_\_\_\_\_  
MCX-7101-TGG | APPLICABLE CABLE RG/U  
RG405/u(.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Angle Plug ( MCX )**



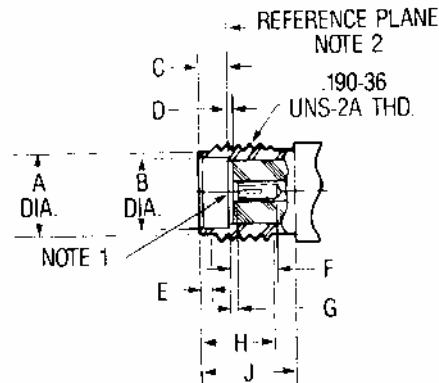
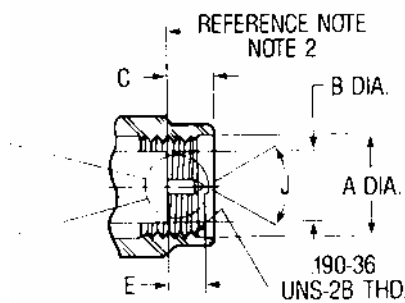
PART NO. \_\_\_\_\_  
MCX-7102-TGG | APPLICABLE CABLE RG/U  
RG405/u(.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

## SSMA

### INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Inches (Millimeters) <sup>3</sup>	
	Minimum	Maximum
A	.196 (4.98)	.202 (5.13)
B	.124 (3.15)	.1268 (3.221)
C	.100 (2.54)	.133 (3.38)
D	.000 (0.00)	.007 (0.25)
E	.050 (1.27)	.065 (1.65)
F	.000 (0.00)	.010 (0.25)
G	.0195 (0.495)	.0208 (0.528)
H	.000 (0.00)	.010 (0.25)
J	70°	95°

JACK		
Letter	Inches (Millimeters) <sup>3</sup>	
	Minimum	Maximum
A	.153 (3.89)	.160 (4.06)
B	.127 (3.23)	.130 (3.30)
C	.075 (1.91)	.077 (1.96)
D	.000 (0.00)	.007 (0.25)
E	.020 (0.51)	.040 (1.02)
F	.075 (1.91)	-
G	.000 (0.00)	.010 (.025)
H	.190 (4.83)	.210 (5.33)
J	.203 (5.84)	-

### Electrical:

<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	<ul style="list-style-type: none"> <li>for RG - 405 semi-rigid cable – 0 to 40.0 GHz</li> <li>for flexible cable → max operation frequency to 0 – 26 GHz</li> </ul>
<b>VSWR</b>	1.3 max 0 – 26 GHz 1.6 max 26 – 40 GHz
<b>Dielectric Withstanding Voltage</b>	RG 405 (.085" OD.) → 750 volts rms max RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 volts rms max
<b>Contact Resistance</b>	center contact = 2.0 Milliohms max outer contact = 2.0 milliohms max
<b>RF Leakage</b>	-(90 – f GHz) db min
<b>Insertion Loss</b>	.04 dB maximum X √f GHz (straight) .06 dB maximum X √f GHz (right angle)
<b>Insulation Resistance</b>	5,000 Megohms min

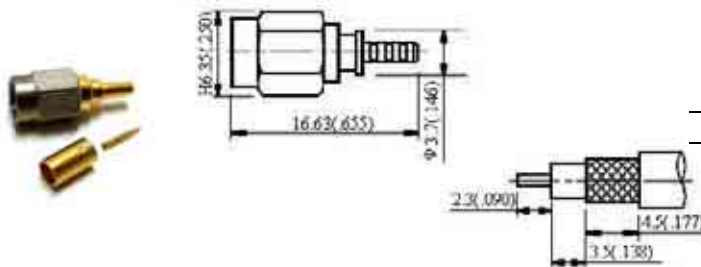
### Mechanical & Environmental:

<b>Mating</b>	10 – 36 threaded coupling
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	Min 60 lbs
<b>Recommend Nut Mating Torque</b>	7 to 8 in-lbs
<b>Temperature Range</b>	-65 °C to 155 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. D.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-202 Method 102 Test Cond. D.

### Material:

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Stainless steel Type 303 Beryllium Copper	Passivated or gold Nickel or gold
<b>Center Contact</b>	Male: Brass  Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicon Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

### Staright Plug (SSMA)

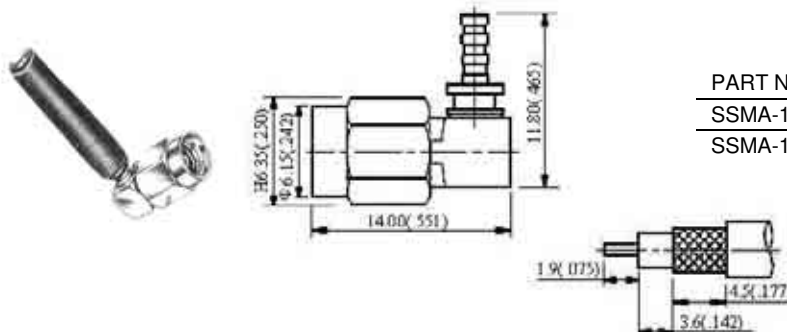


PART NO.	APPLICABLE CABLE RG/U
SSMA-1101-TGG	178, 196
SSMA-1102-TGG	174, 188, 316

**Description:**  
For Flexible Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

### Right Angle Plug (SSMA)

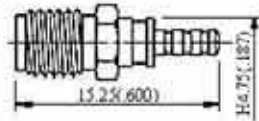


PART NO.	APPLICABLE CABLE RG/U
SSMA-1105-TGG	178, 196
SSMA-1106-TGG	174, 188, 316

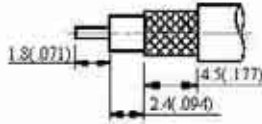
**Description:**  
For Flexible Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

## Staright Jack (SSMA)



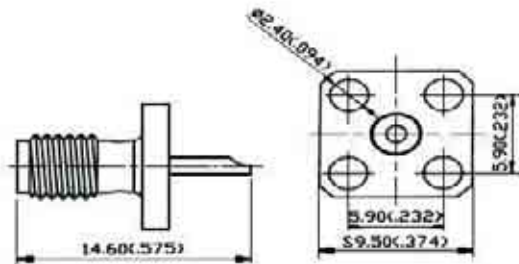
PART NO.	APPLICABLE CABLE RG/U
SSMA-1203-TGG	178, 196
SSMA-1204-TGG	174, 188, 316



**Description:**  
For Flexible Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

## Flange Mount Jack Receptacle (SSMA)

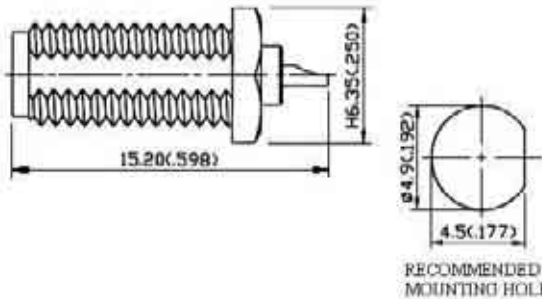


PART NO.
SSMA-3201-TGG
SSMA-3202-TGG

**Description:**  
Panel Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

## Bulkhead Feedthrough Jack Receptacle (SSMA)

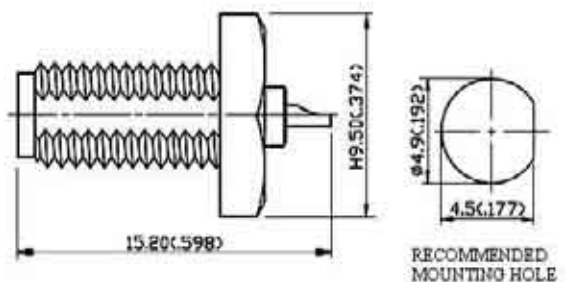


PART NO.
SSMA-4201-TGG

**Description:**  
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

## Bulkhead Feedthrough Jack Receptacle (SSMA)



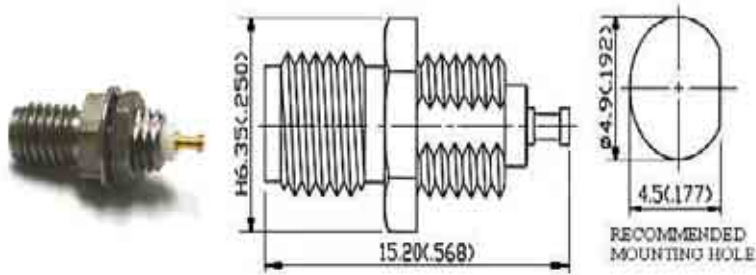
PART NO.
SSMA-4202-TGG

**Description:**  
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon



**Bulkhead Feedthrough Jack Receptacle (SSMA)**

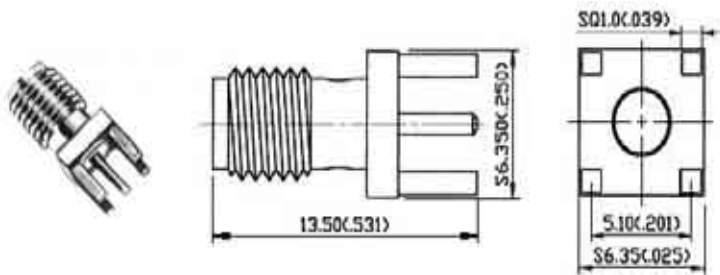


PART NO.  
SSMA-4203-TGG

**Description:**  
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body  
Insulation: Teflon

**Staright Jack (SSMA)**

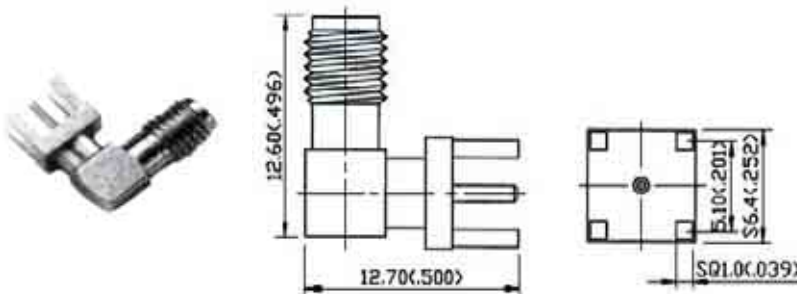


PART NO.  
SSMA-5201-TGG

**Description:**  
Printed Circuit Boards

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Jack (SSMA)**

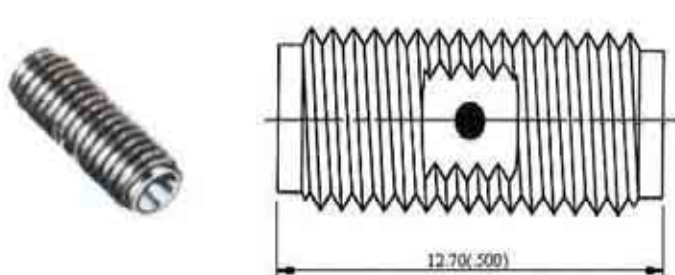


PART NO.  
SSMA-5202-TGG

**Description:**  
Printed Circuit Boards

Finish: Gold plated center contact & body  
Insulation: Teflon

**Jack to Jack (SSMA)**

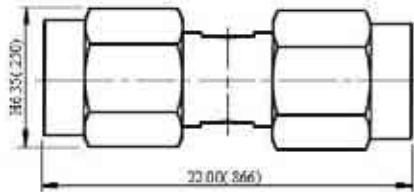


PART NO.  
SSMA-601-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

## Plug to Plug (SSMA)

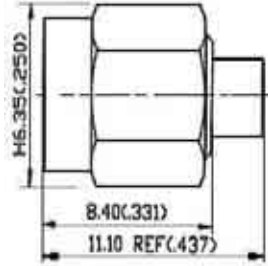


**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
SSMA-602-TGG

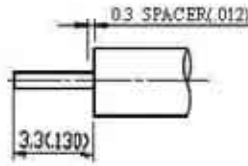
## Straight Plug With Center Contact (SSMA)



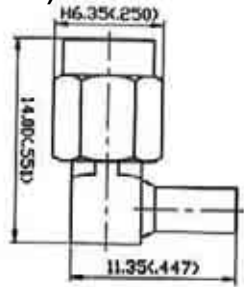
**Description:**  
For Semi-Rigid Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U
SSMA-7101-TGG	RG 405/u (.085")



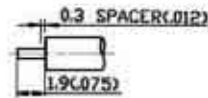
## Right Angle Plug (SSMA)



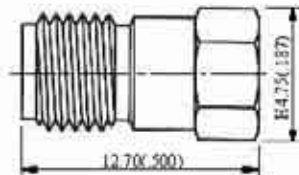
**Description:**  
For Semi-Rigid Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U
SSMA-7105-TGG	RG 405/u (.085")



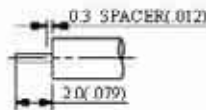
## Straight Jack With Center Contact (SSMA)



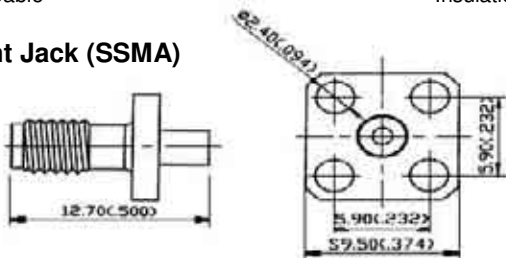
**Description:**  
For Semi-Rigid Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U
SSMA-7202-TGG	RG 405/u (.085")



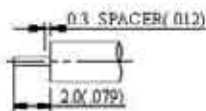
## Flange Mount Jack (SSMA)



**Description:**  
For Semi-Rigid Cable

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U
SSMA-7204-TGG	RG 405/u (.085")





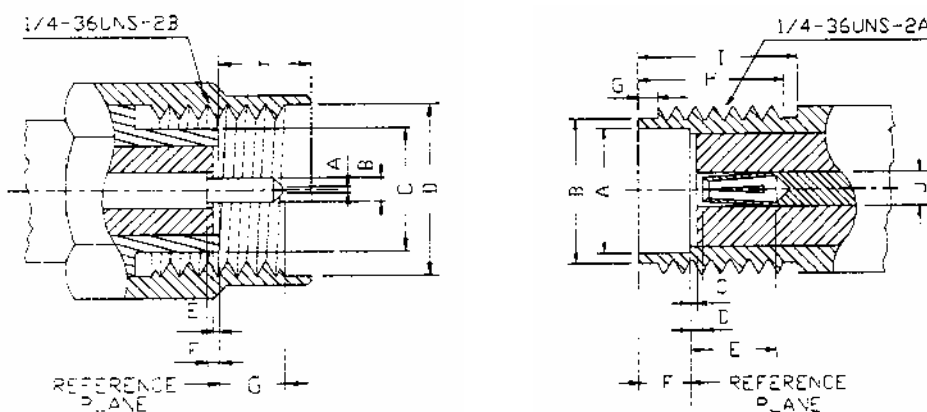
## SMA

50 ohm 0 – 18 GHz

SMA connectors are semi-precision, subminiature devices that provide repeatable electrical performance from DC to 12.4 GHz with flexible cable. Semi-rigid cabling extends the frequency range of the device to 18 GHz. These devices offer broadband performance with low reflection and constant 50 ohm impedance. These properties, along with minimum attenuation and low VSWR have made the SMA extremely popular in the microwave community.

The SMA design has been broadened to accommodate many interconnect requirements and is available in pressure crimp, clamp and solder terminal attachments. SMA design parameters have incorporated the considerations of balancing cost, size, weight and performance to yield the best value in your microwave systems. Among typical applications are components such as dividers, mixers, amplifiers, trimmers and attenuators. SMA connectors are also used to provide interconnections from printed circuit board striplines to coaxial cable.

### INTERFACE MATING DIMENSIONS:



Letter	PLUG	
	Millimeters (Inches)	
	Minimum	Maximum
A	0.00 (.000)	0.38 (.015)
B	0.90 (.0355)	0.94 (.037)
C	-	4.59 (1808)
D	6.35 (.250)	-
E	0.00 (.000)	0.18 (.007)
F	0.00 (.000)	0.25 (.010)
G	-	2.54 (.100)
H	-	3.43 (.135)

Letter	JACK	
	Millimeters (Inches)	
	Minimum	Maximum
A	4.60 (.1810)	4.67 (.1837)
B	5.28 (.208)	5.49 (.216)
C	0.00 (.000)	0.18 (.007)
D	0.00 (.000)	0.25 (.010)
E	2.92 (.115)	-
F	1.88 (.074)	1.98 (.078)
G	0.38 (.015)	1.14 (.045)
H	4.32 (.170)	-
I	5.54 (.218)	-
J	1.24 (.049)	1.30 (.051)

## Electrical:

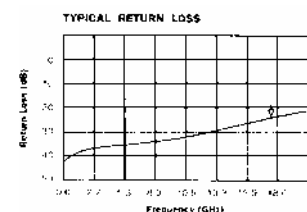
<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 18.0 GHz <ul style="list-style-type: none"> <li>for RG – 402 &amp; RG 405 semi-rigid cable – 0 to 18.0 GHz</li> <li>for flexible cable → max operation frequency of cable per MIL-C-17</li> </ul>
<b>VSWR</b>	<ul style="list-style-type: none"> <li>1.05 + 0.005 x f GHz max (straight)</li> <li>1.15 + 0.015 x f GHz max (right angle)</li> <li>RG – 402 (.141" OD.) → 1.05 + 0.005 x f GHz max</li> <li>RG – 405 (.085" OD.) → 1.05 + 0.005 x f GHz max</li> <li>RG – 58, 141, 142, 223 → 1.10 + 0.01 x f GHz max (straight)</li> <li>1.15 + 0.02 x f GHz max (right angle)</li> <li>RG – 174, 188, 316 → 1.15 + 0.01 x f GHz max (straight)</li> <li>1.18 + 0.02 x f GHz max (right angle)</li> <li>RG – 178, 196 → 1.20 + 0.020 x f GHz max (straight)</li> <li>1.25 + 0.025 x f GHz max (right angle)</li> </ul>
<b>Voltage Rating</b>	<ul style="list-style-type: none"> <li>RG – 402 (.141" OD.) → 500 volts rms max</li> <li>RG – 405 (.085" OD.) → 335 volts rms max</li> <li>RG – 58, 141, 142, 223 → 500 volts rms max</li> <li>RG – 174, 188, 316 → 335 volts rms max</li> <li>RG – 178, 196 → 250 volts rms max</li> </ul>
<b>Dielectric Withstanding Voltage</b>	<ul style="list-style-type: none"> <li>RG – 402 (.141" OD.) → 1,000 volts rms max</li> <li>RG – 405 (.085" OD.) → 750 volts rms max</li> <li>RG – 58, 141, 142, 223 → 1,000 volts rms max</li> <li>RG – 174, 188, 316 → 750 volts rms max</li> <li>RG – 178, 196 → 500 volts rms max</li> </ul>
<b>Contact Resistance</b>	center contact = 3.0 Milliohms max outer contact = 2.0 Milliohm max
<b>RF Leakage</b>	- (90 – f GHz) dB min
<b>Insertion Loss</b>	.04 dB maximum x √f GHz (straight) .06 dB maximum x √f GHz (right angle)
<b>Insulation Resistance</b>	5,000 Megohms min

## Mechanical & Environmental:

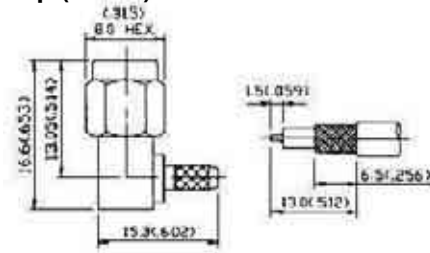
<b>Mating</b>	1/4" – 36 threaded coupling
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	Min 60 lbs
<b>Recommend Nut Mating Torque</b>	8 inch-pounds
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. D.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-202 Method 102 Test Cond. C.

## Material:

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Stainless steel Brass	Passivated or gold Nickel or gold
<b>Center Contact</b>	Male: Brass Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body



### Right Angle Plug Crimp ( SMA )

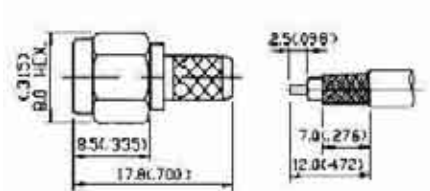


PART NO.	APPLICABLE CABLE RG/U
SMA-1101-TGG	58, 58A, 141A
SMA-1102-TGG	174, 188A, 316
SMA-1103-TGG	142B/U

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Straight Plug Crimp ( SMA )

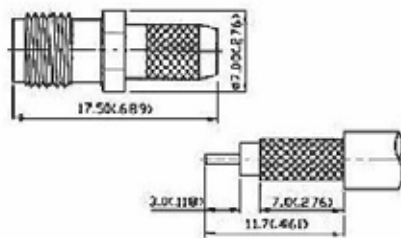


PART NO.	APPLICABLE CABLE RG/U
SMA-1104-TGG	58, 58A, 141A
SMA-1105-TGG	174, 188A, 316
SMA-1106-TGG	142B/U

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Straight Bulkhead Jack Crimp ( SMA )

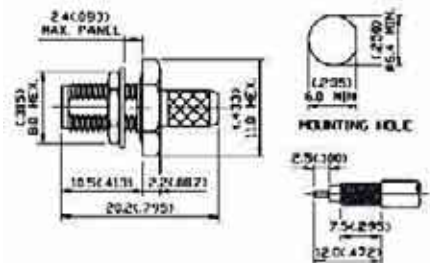


PART NO.	APPLICABLE CABLE RG/U
SMA-1207-TGG	58, 58A, 141A
SMA-1208-TGG	174, 188A, 316
SMA-1209-TGG	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Straight Bulkhead Jack Crimp ( SMA )

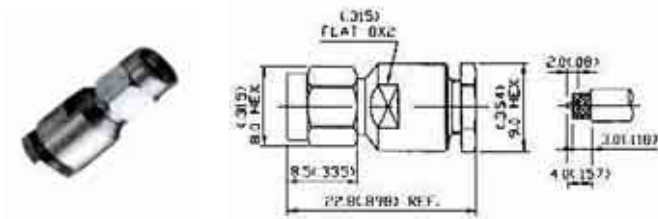


PART NO.	APPLICABLE CABLE RG/U
SMA-1210-TGG	58, 58A, 141A
SMA-1211-TGG	174, 188A, 316
SMA-1212-TGG	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Plug Clamp ( SMA )

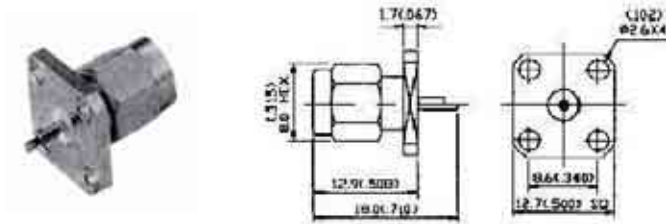


PART NO.	APPLICABLE CABLE RG/U
SMA-2101-TGG	58, 58A, 141A
SMA-2102-TGG	174, 188A, 316
SMA-2103-TGG	142B/U

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Square Flange Plug Receptacle ( Solder Pot Contact ) ( SMA )



**Description:**  
Panel Mount Receptacles (Solder Pot Contact)

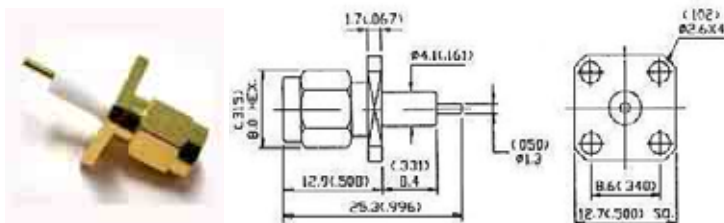
Finish: Gold plated center contact & body  
Insulation: Teflon

**Square Flange Plug Receptacle**  
PART NO.  
SMA-3101-TGG

**2 Holes Flange Plug Receptacle**  
PART NO.  
SMA-3103-TGG

**Square Flange Plug Receptacle ( For Microstrip Line Circuits)**  
PART NO.  
SMA-3112-TGG

## Square Flange Plug Receptacle ( Exposed Teflon ) ( SMA )



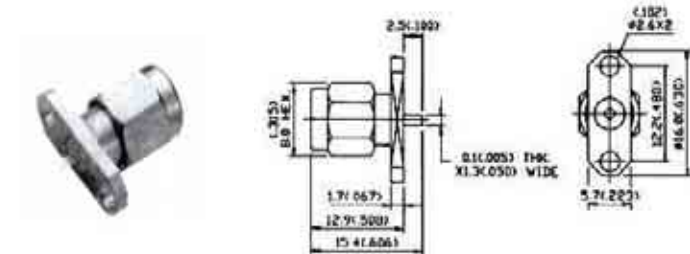
**Description:**  
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Square Flange Plug Receptacle**  
PART NO.  
SMA-3105-TGG

**2 Holes Flange Plug Receptacle**  
PART NO.  
SMA-3107-TGG

## 2 Holes Flange Plug Receptacle ( Tab Contact )( SMA )



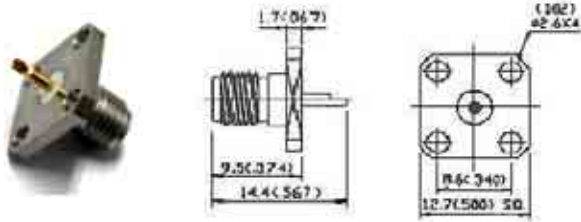
**Description:**  
Panel Mount Receptacles  
Tab Contact

Finish: Gold plated center contact & body  
Insulation: Teflon

**2 Holes Flange Plug Receptacle Tab Contact**  
PART NO.  
SMA-3110-TGG

**2 Holes Flange Plug Receptacle**  
PART NO.  
SMA-3114-TGG

**Square Flange Jack Receptacle ( Solder Pot Contact ) ( SMA )**



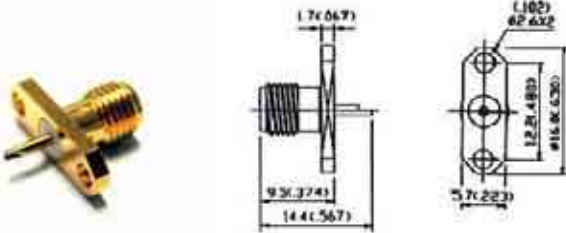
**Description:**  
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Square Flange Jack Receptacle**  
PART NO.  
SMA-3202-TGG

**Square Flange Jack Receptacle ( Tab Contact )**  
PART NO.  
SMA-3209-TGG

**2 Holes Flange Jack Receptacle ( Solder Pot Contact ) ( SMA )**

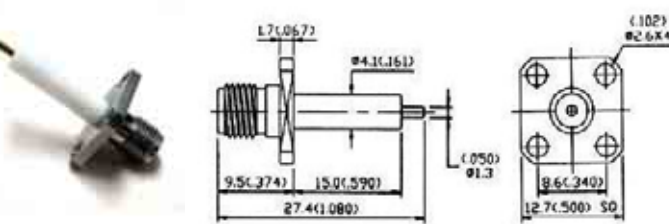


**Description:**  
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
SMA-3204-TGG

**Square Flange Jack Receptacle ( Exposed Teflon ) ( SMA )**

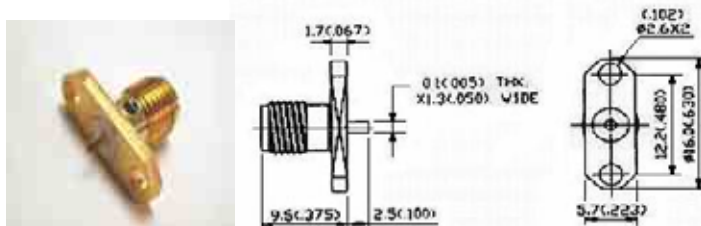


**Description:**  
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
SMA-3206-TGG

**2 Holes Flange Jack Receptacle ( Tab Contact ) ( SMA )**

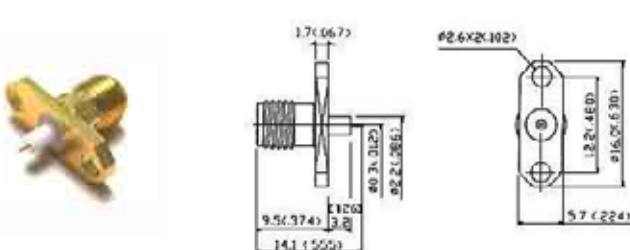


**Description:**  
Panel Mount Receptacles (Tab Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
SMA-3211-TGG

**2 Holes Flange Jack Receptacle ( For Microstrip Line Circuits ) ( SMA )**

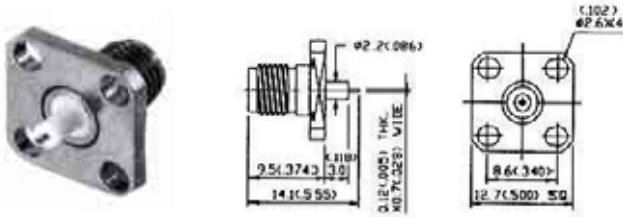


**Description:**  
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
SMA-3215-TGG

**Square Flange Jack Receptacle ( For Microstrip Line Circuits ) ( SMA )**



**Square Flange Jack Receptacle**  
PART NO. \_\_\_\_\_

SMA-3216-TGG

**2 Holes Flange Jack Receptacle**  
PART NO. \_\_\_\_\_

SMA-3217-TGG

Contact horizontal to panel

SMA-3218-TGG

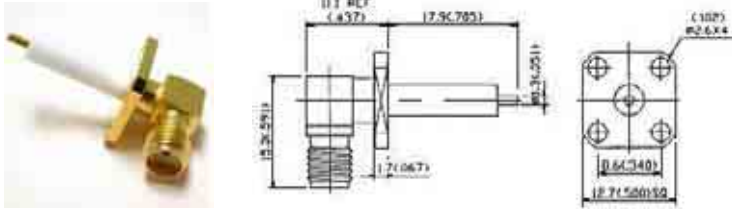
Contact vertical to panel

**Description:**  
contact & body  
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center

Insulation: Teflon

**Right Angle Square Flange Jack Receptacle ( Exposed Teflon )( SMA)**



**Right Angle Square Flange Jack Receptacle**  
PART NO. \_\_\_\_\_

SMA-3219-TGG

**Right Angle 2 Holes Flange Jack Receptacle**  
PART NO. \_\_\_\_\_

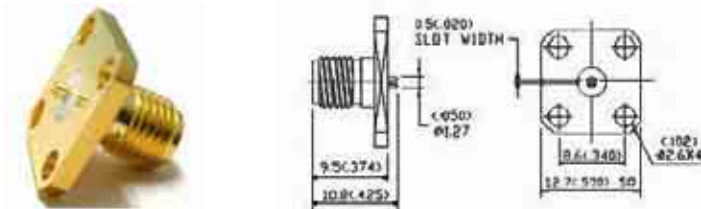
SMA-3220-TGG

**Description:**  
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body

Insulation: Teflon

**Square Flange Jack Receptacle ( Slotted Contact ) ( SMA )**



PART NO. \_\_\_\_\_

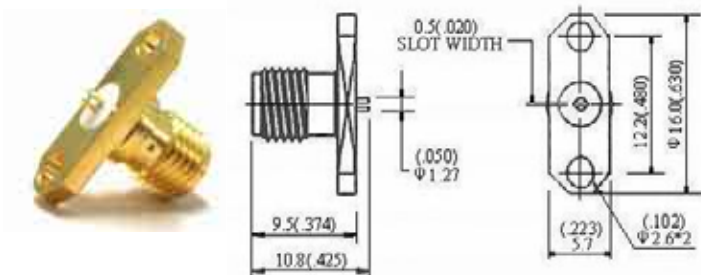
SMA-3221-TGG

**Description:**  
Panel Mount Receptacles (Slotted Contact)

Finish: Gold plated center contact & body

Insulation: Teflon

**2 Holes Flange Jack Receptacle ( Slotted Contact) (SMA)**



**2 Holes Flange Jack Receptacle (Slotted Contact)**  
PART NO. \_\_\_\_\_

SMA-3222-TGG

**2 Holes Flange Jack Receptacle ( Half Round Contact)**  
PART NO. \_\_\_\_\_

SMA-3224-TGG

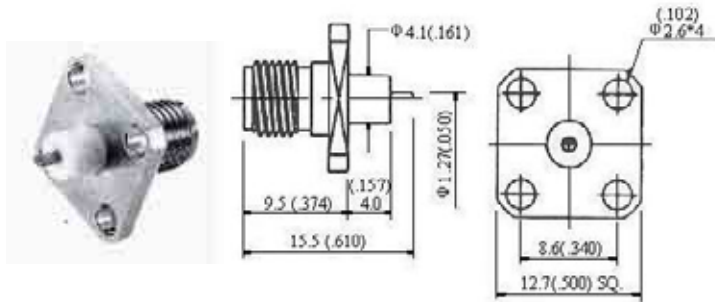
**Description:**  
Panel Mount Receptacles (Slotted Contact)

Finish: Gold plated center contact & body

Insulation: Teflon



**Square Flange Jack Receptacle ( Half Round Contact ) ( SMA )**

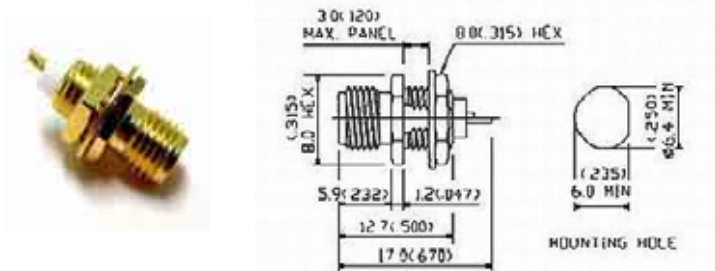


PART NO.  
SMA-3223-TGG

**Description:**  
Panel Mount Receptacles (Half Round Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Front Mount )( SMA )**

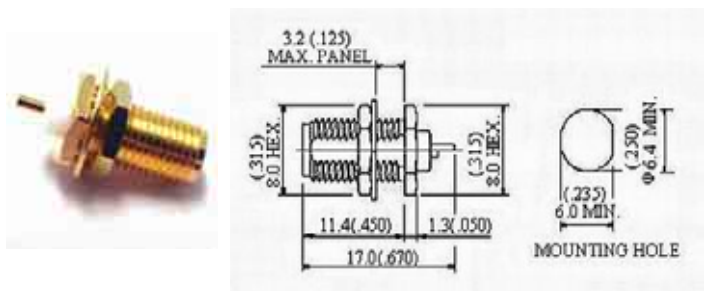


PART NO.  
SMA-4201-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Rear Mount )( SMA )**

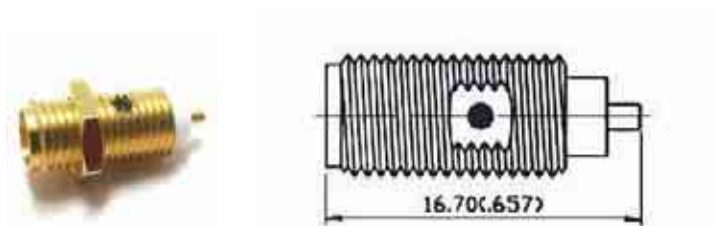


PART NO.  
SMA-4202-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Receptacles With Coaxial End ( SMA )**

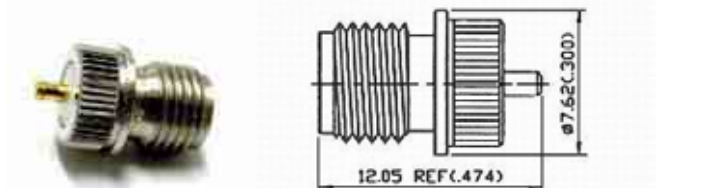


PART NO.  
SMA-4203-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Press Mount Receptacles ( SMA )**

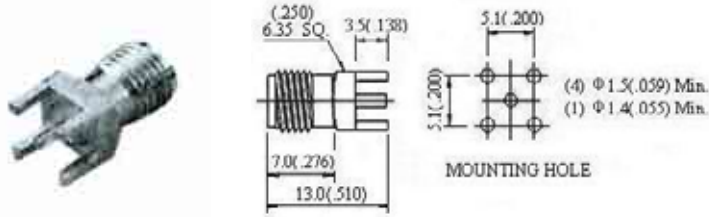


PART NO.  
SMA-4204-TGG

**Description:**  
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight PCB Mount Jack Receptacle ( SMA )

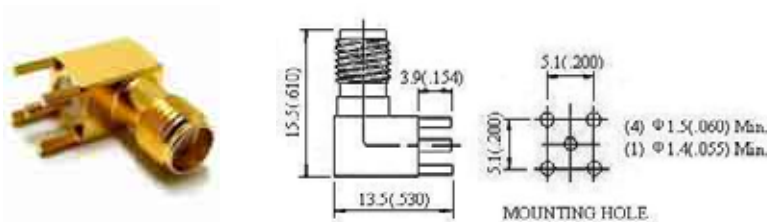


PART NO. \_\_\_\_\_  
SMA-5201-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## Right Angle PCB Mount Jack Receptacle ( SMA )

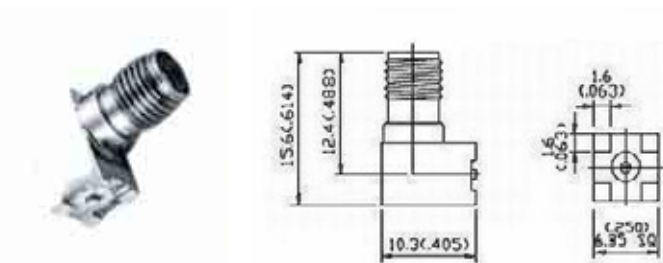


PART NO. \_\_\_\_\_  
SMA-5202-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## Right Angle Surface Mount Jack Receptacle ( SMA )

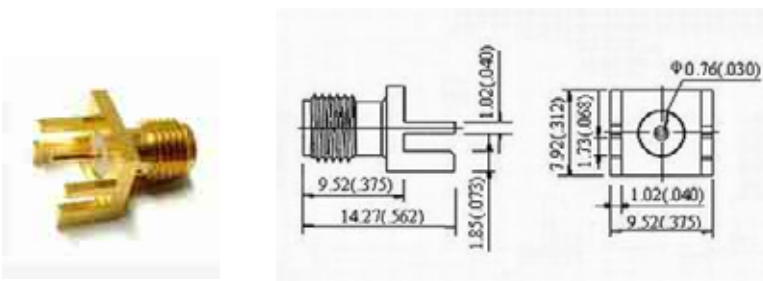


PART NO. \_\_\_\_\_  
SMA-5204-TGG

**Description:**  
Surface Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

## End Launch Jack Receptacle - Round Contact ( SMA )



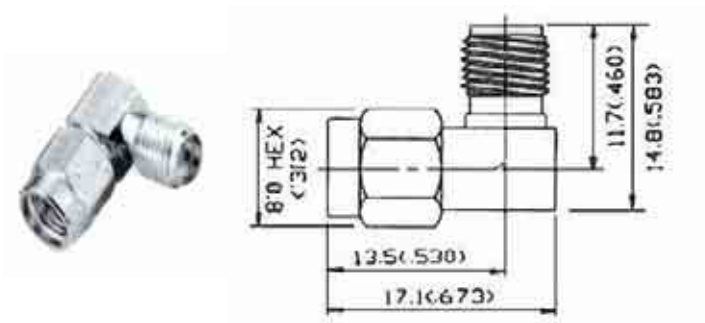
PART NO. \_\_\_\_\_  
SMA-5205-TGG

**Description:**  
Surface Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon



**Right Angle Plug - Jack ( SMA )**

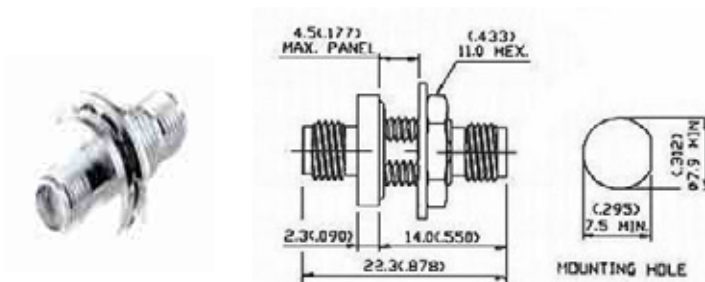


PART NO.  
SMA-601-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

**Bulkhead Jack - Jack ( SMA )**

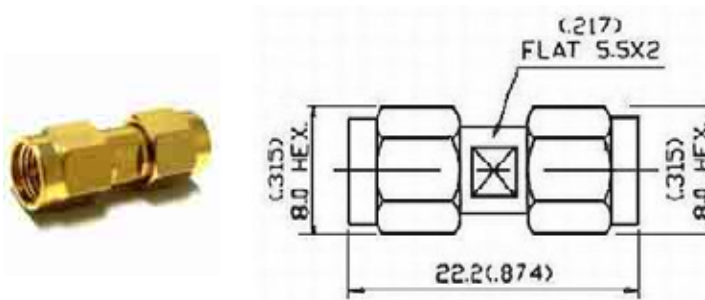


PART NO.  
SMA-602-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

**Plug - Plug ( SMA )**

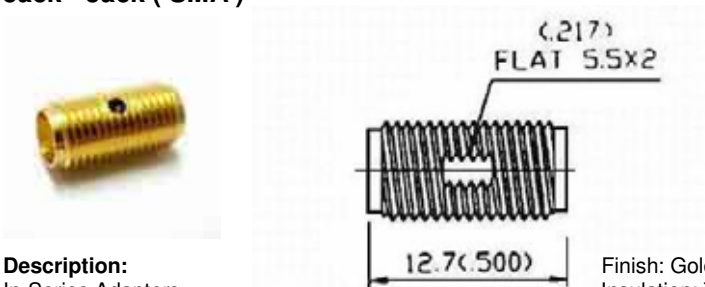


PART NO.  
SMA-603-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

**Jack - Jack ( SMA )**

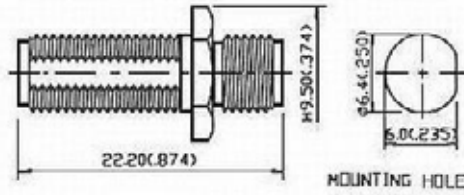


PART NO.  
SMA-604-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

## Jack - Jack Bulkhead ( SMA )

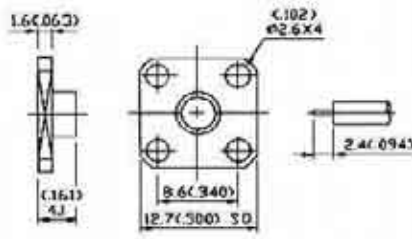


PART NO.	
	SMA-605-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

## 4 Holes Flange Cable Feed Through ( SMA )



### 4 Holes Flange Cable Feed Through ( SMA )

PART NO.	APPLICABLE CABLE RG/U
SMA-7014-G	RG 402/u (.141")
SMA-7015-G	RG 405/u (.085")

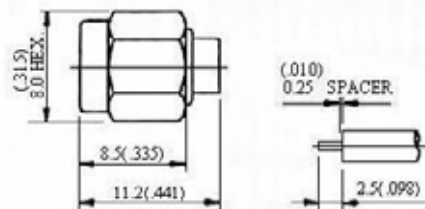
### 2 Holes Flange Cable Feed Through ( SMA )

PART NO.	APPLICABLE CABLE RG/U
SMA-7016-G	RG 402/u (.141")
SMA-7017-G	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated

## Straight Plug ( With Center Contact )( SMA )

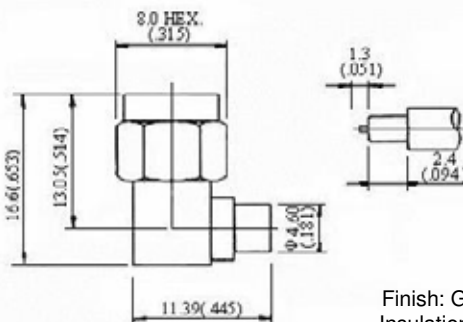


PART NO.	APPLICABLE CABLE RG/U
SMA-7101-TGG	RG 402/u (.141")
SMA-7102-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

## Right Angle Plug ( SMA )

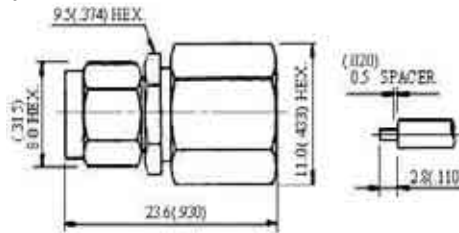


PART NO.	APPLICABLE CABLE RG/U
SMA-7111-TGG	RG 402/u (.141")
SMA-7112-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Plug ( SMA )**

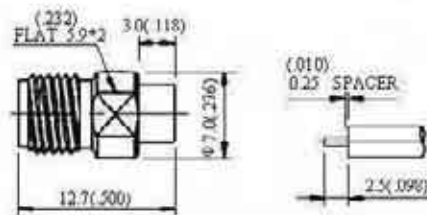


PART NO.	APPLICABLE CABLE RG/U
SMA-7113-TGG	RG 401/u (.250")

**Description:**  
For Semi-Rigid Cable  
(.025" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Jack ( SMA )**

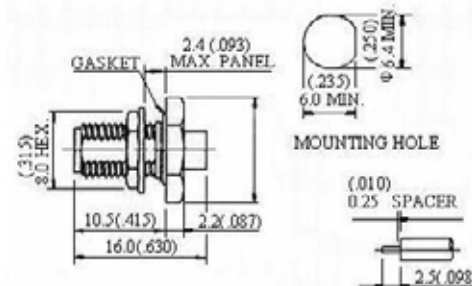


PART NO.	APPLICABLE CABLE RG/U
SMA-7203-TGG	RG 402/u (.141")
SMA-7204-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack ( SMA )**

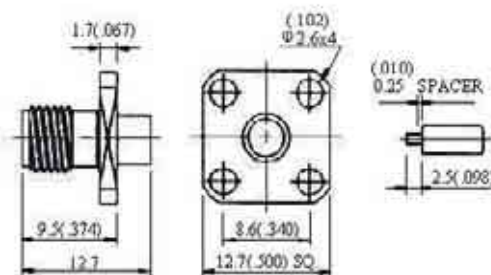


PART NO.	APPLICABLE CABLE RG/U
SMA-7205-TGG	RG 402/u (.141")
SMA-7206-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Square Flange Jack ( SMA )**



**Straight Square Flange Jack**

PART NO.	APPLICABLE CABLE RG/U
SMA-7207-TGG	RG 402/u (.141")
SMA-7208-TGG	RG 405/u (.085")

**Straight 2 Hole Flange Jack**

PART NO.	APPLICABLE CABLE RG/U
SMA-7209-TGG	RG 402/u (.141")
SMA-7210-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

## SMB

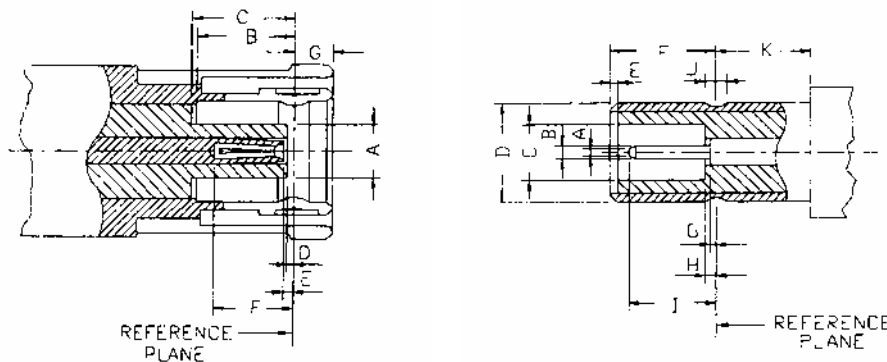
50 ohm 0 – 4 GHz

SMB connectors are semi-precision, subminiature devices that provide repeatable electrical performance to 4 GHz. the SMB family of connectors provide a means of quick-connect and disconnect through a snap-on type coupling.

Its smaller physical size and snap-on coupling make the SMB an ideal general purpose connector where pack-aging density, ease of mating/unmating and economy are prerequisites. Crimp, clamp and receptacle types are available in right angle, printed circuit board and straight body styles.

Typical applications for SMB connectors are telecommunications, test equipment, instrumentation and GPS.

### INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.01 (.079)	2.06 (.081)
B	3.58 (.141)	3.78 (.149)
C	3.58 (.141)	-
D	0.27 (.0105)	0.52 (.0205)
E	0.29 (.0115)	0.57 (.0225)
F	2.97 (.117)	-
G	-	1.63 (.064)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.08 (.082)	2.16 (.085)
D	3.66 (.144)	3.71 (.146)
E	0.04 (.0015)	0.24 (.0095)
F	3.33 (.131)	3.53 (.139)
G	0.04 (.0015)	0.18 (.007)
H	-	0.18 (.007)
I	2.39 (.094)	2.72 (.107)
J	0.69 (.027)	0.94 (.037)
K	1.65 (.065)	-

### Electrical:

<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 4.0 GHz
<b>VSWR</b>	1.25 + 0,04 x f GHz max (straight) 1.30 + 0.04 x f GHz max (right angle) <ul style="list-style-type: none"> <li>RG – 174, 188, 316 → 1.25 + 0.04 x f GHz max (straight) 1.3 + 0.04 x f GHz max (right angle)</li> <li>RG – 178, 196 → 1.3 + 0.04 x f GHz max (straight) 1.4 + 0.06 x f GHz max (right angle)</li> </ul>
<b>Voltage Rating</b>	<ul style="list-style-type: none"> <li>RG – 174, 188, 316 → 335 volts rms max</li> <li>RG – 178, 196 → 250 volts rms max</li> </ul>

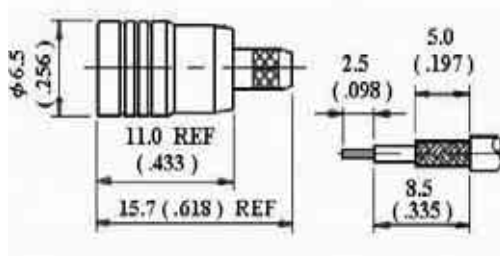
<b>Dielectric Withstanding Voltage</b>	<ul style="list-style-type: none"> <li>RG – 174, 188, 316 → 750 volts rms max</li> <li>RG – 178, 196 → 500 volts rms max</li> </ul>
<b>Contact Resistance</b>	center contact = 6.0 Milliohms max outer contact = 1.0 Milliohms max
<b>RF Leakage</b>	-55 dB min @ 3 GHz
<b>Insertion Loss</b>	.4 dB max (straight) .6 dB max (right angle)
<b>Insulation Resistance</b>	1,000 Megohms min

**Mechanical & Environmental:**

<b>Mating</b>	Snap-on coupling
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	40 lbs min
<b>Cable Retention</b>	RG – 174, 188, 316 → 20 lbs min RG – 178, 196 → 6 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-1344 Method 1003 Test Cond. A.

**Material:**

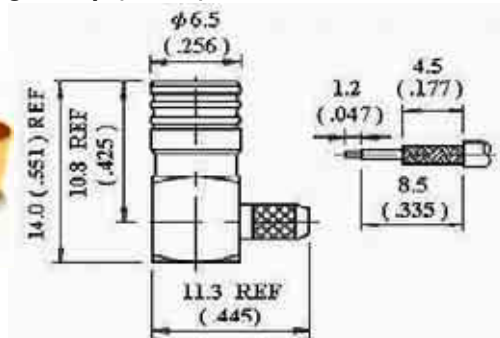
	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel or Gold
<b>Center Contact</b>	Male: Brass Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

**Straight Plug Crimp ( SMB )**


PART NO.	APPLICABLE CABLE RG/U
SMB-1101-TGG	174, 188A, 316
SMB-1102-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug Crimp ( SMB )**


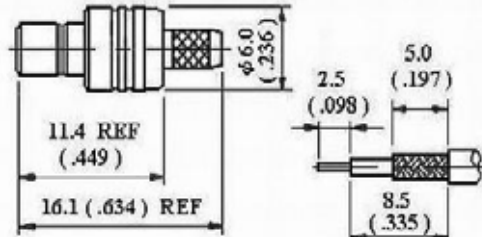
PART NO.	APPLICABLE CABLE RG/U
SMB-1107-TGG	174, 188A, 316
SMB-1108-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon



## Straight Jack Crimp ( SMB )

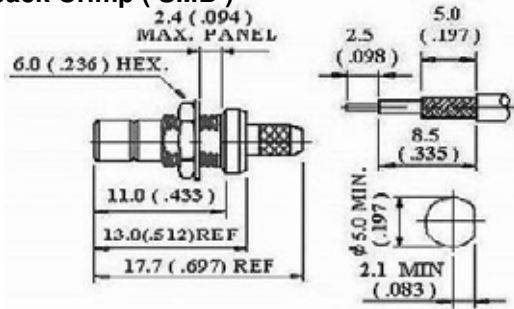


PART NO.	APPLICABLE CABLE RG/U
SMB-1203-TGG	174, 188A, 316
SMB-1204-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Bulkhead Jack Crimp ( SMB )

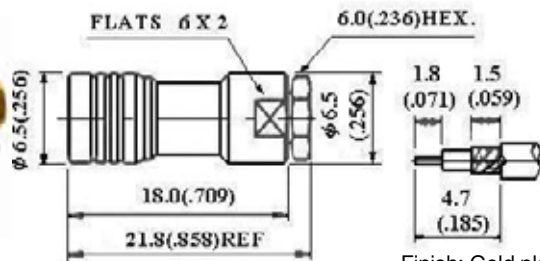


PART NO.	APPLICABLE CABLE RG/U
SMB-1205-TGG	174, 188A, 316
SMB-1206-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Plug Clamp ( SMB )

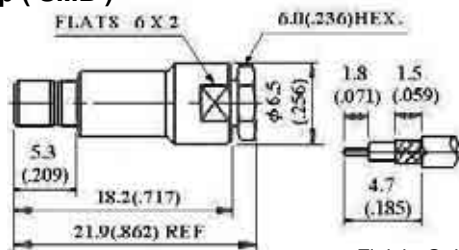


PART NO.	APPLICABLE CABLE RG/U
SMB-2101-TGG	174, 188A, 316
SMB-2102-TGG	178, 196

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Straight Jack Clamp ( SMB )

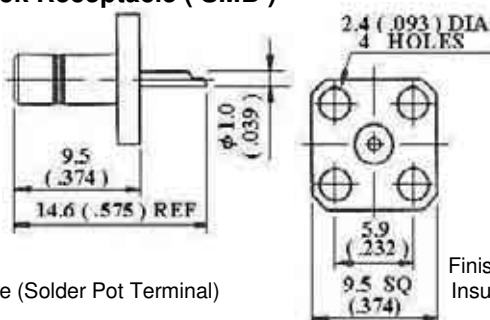


PART NO.	APPLICABLE CABLE RG/U
SMB-2103-TGG	174, 188A, 316
SMB-2104-TGG	178, 196

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

## Square Flange Jack Receptacle ( SMB )

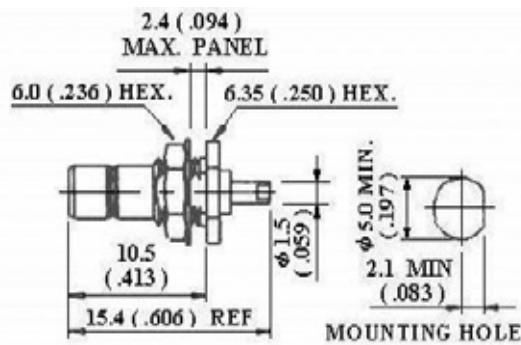


PART NO.
SMB-3201-TGG

**Description:**  
Panel Mount Receptacle (Solder Pot Terminal)

Finish: Gold plated center contact & bod  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Rear Mount ) ( SMB )**

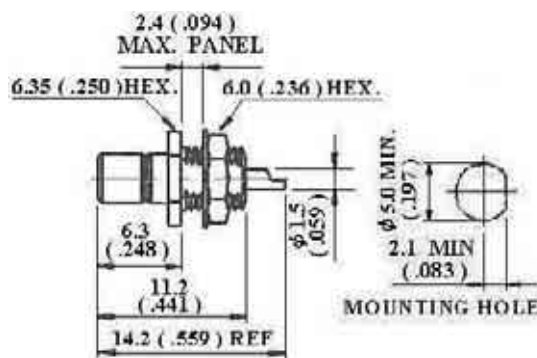


PART NO.  
SMB-4201-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Front Mount ) ( SMB )**

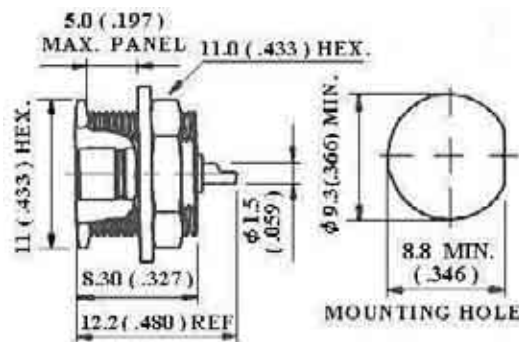


PART NO.  
SMB-4202-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Recessed Front Mount ) ( SMB )**

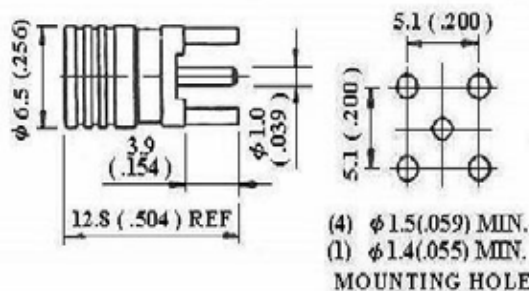


PART NO.  
SMB-4203-TGG

**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**PCB Mount Plug Receptacle ( SMB )**

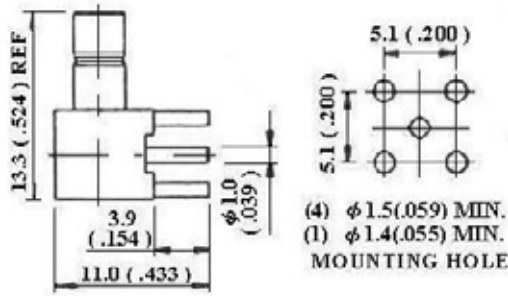


PART NO.  
SMB-5102-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle PCB Mount Jack Receptacle ( SMB )**

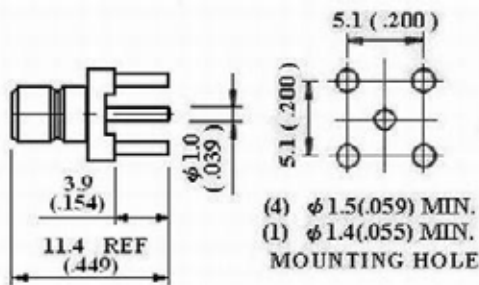


PART NO.  
SMB-5201-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**PCB Mount Jack Receptacle ( SMB )**

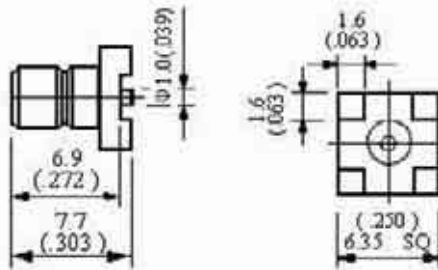


PART NO.  
SMB-5203-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**Surface Mount Receptacles**



PART NO.  
SMB-5204-TGG

**Description:**  
Surface Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**SMB PCB Bulkhead Jack Receptacle ( SMB )**



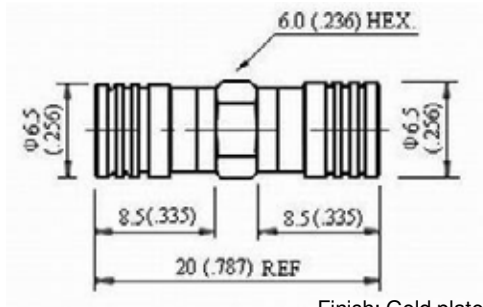
PART NO.  
SMB-5205-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon



**Plug-Plug ( SMB )**

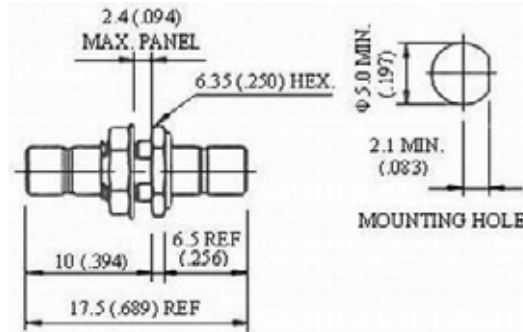


PART NO.  
SMB-601-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

**Bulkhead Jack-Jack ( SMB )**

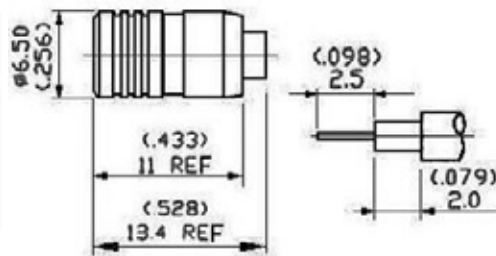


PART NO.  
SMB-602-TGG

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Plug ( SMB )**

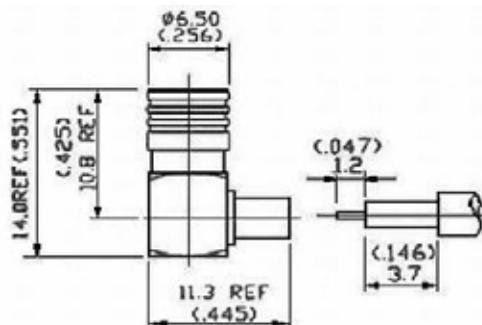


PART NO.	APPLICABLE CABLE RG/U
SMB-7101-TGG	405/U (.085)

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug ( SMB )**



PART NO.	APPLICABLE CABLE RG/U
SMB-7102-TGG	405/U (.085)

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

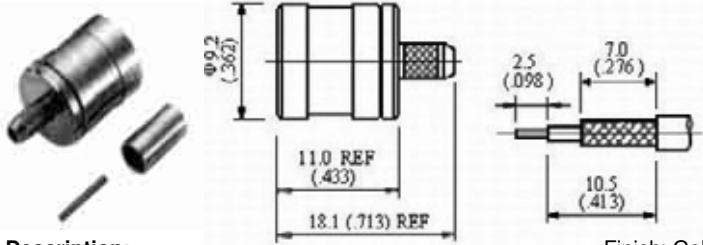
Finish: Gold plated center contact & body  
Insulation: Teflon

# 75 ohm SMB



## 75 OHM SMB

### Straight Plug Crimp ( 75 ohm SMB )

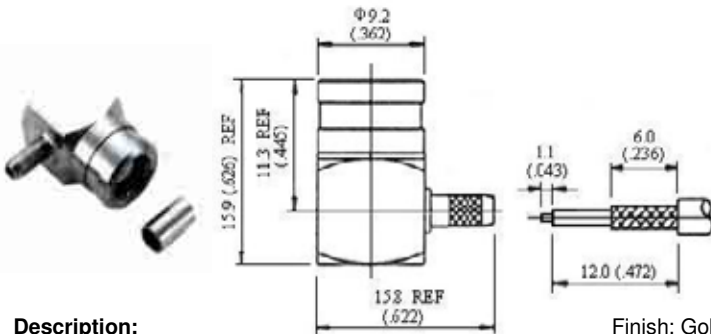


PART NO.	APPLICABLE CABLE RG/U
SMB75-1101-TGG	179B, 187A

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Right Angle Plug Crimp ( 75 ohm SMB )

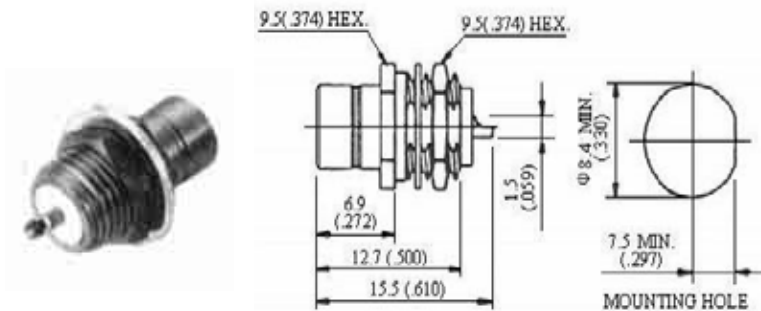


PART NO.	APPLICABLE CABLE RG/U
SMB75-1102-TGG	179B, 187A

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

### Straight Bulkhead Jack Receptacle ( 75 ohm SMB )

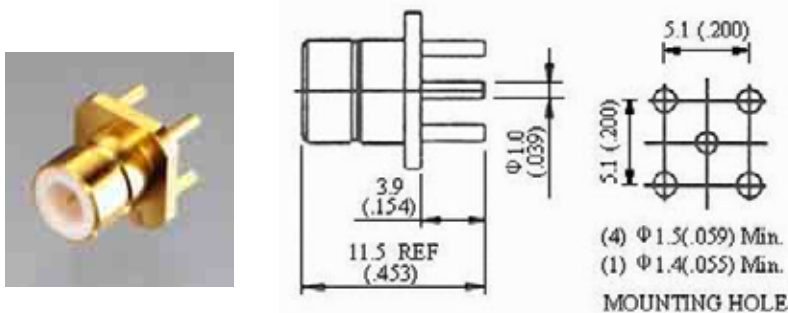


PART NO.
SMB75-4201-TGG

**Description:**  
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

### Straight PCB Mount Jack Receptacle ( 75 ohm SMB )



PART NO.
SMB75-5201-TGG

**Description:**  
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

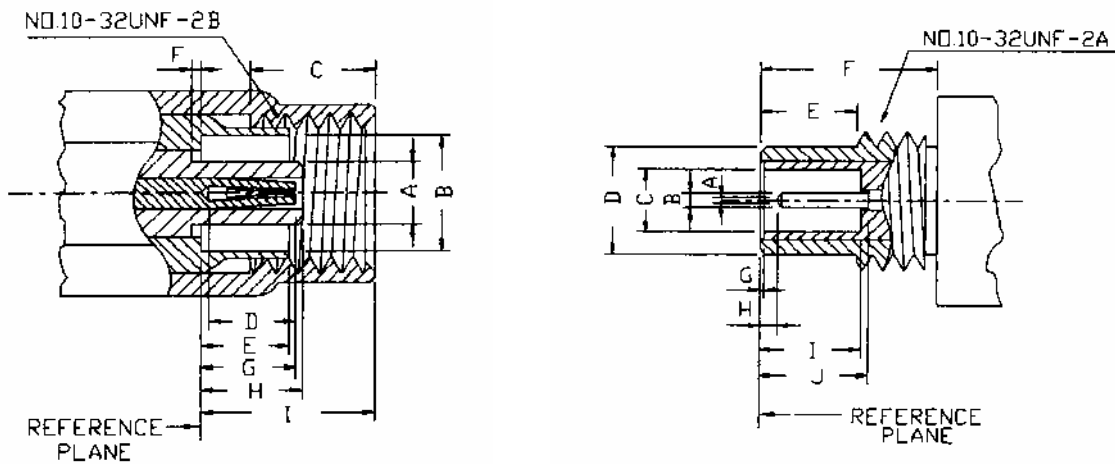
## SMC

50 ohm 0 – 10 GHz

SMC connectors are similar to the SMB in general size and performance, but feature threaded couplings rather than snap-on types.

As with the SMB, its small size, reliable performance, and moderate cost make the SMC an excellent consideration where packaging density is a must. Its threaded coupling ensures peak performance in applications where vibration or shock may be a design consideration

### INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.01 (.079)	2.06 (.081)
B	3.73 (.147)	-
C	2.79 (.110)	-
D	2.79 (.110)	-
E	-	3.10 (.122)
F	0.00 (.000)	-
G	3.23 (.127)	3.40 (.134)
H	3.30 (.130)	3.40 (.134)
I	-	5.92 (.233)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.08 (.082)	2.16 (.085)
D	3.66 (.144)	3.71 (.146)
E	3.12 (.123)	3.38 (.133)
F	5.94 (.234)	-
G	0.00 (.000)	-
H	0.79 (.031)	-
I	3.40 (.134)	3.61 (.142)
J	3.40 (.134)	3.51 (.138)

### Electrical:

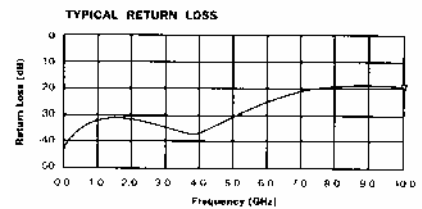
<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 10.0 GHz
<b>VSWR</b>	$1.15 + 0.04 \times f$ GHz max (straight) $1.25 + 0.04 \times f$ GHz max (right angle) <ul style="list-style-type: none"> <li>RG – 174, 188, 316 → <math>1.15 + 0.04 \times f</math> GHz max (straight)  <math>1.25 + 0.04 \times f</math> GHz max (right angle)</li> <li>RG – 178, 196 → <math>1.25 + 0.04 \times f</math> GHz max (straight)  <math>1.4 + 0.06 \times f</math> GHz max (right angle)</li> </ul>
<b>Voltage Rating</b>	<ul style="list-style-type: none"> <li>RG – 174, 188, 316 → 335 volts rms max</li> <li>RG – 178, 196 → 250 volts rms max</li> </ul>
<b>Dielectric Withstanding Voltage</b>	<ul style="list-style-type: none"> <li>RG – 174, 188, 316 → 750 volts rms max</li> <li>RG – 178, 196 → 500 volts rms max</li> </ul>
<b>Contact Resistance</b>	center contact = 6.0 Milliohms max outer contact = 1.0 Milliohms max
<b>RF Leakage</b>	-55 dB min @ 3 GHz
<b>Insertion Loss</b>	.4 dB max (straight) .6 dB max (right angle)
<b>Insulation Resistance</b>	1,000 Megohms min

### Mechanical & Environmental:

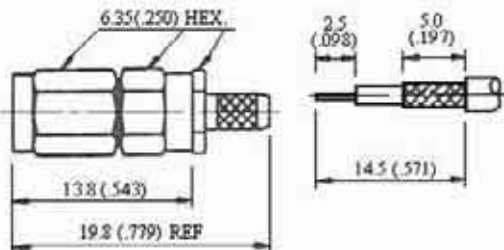
<b>Mating</b>	# 10 – 32 threaded coupling
<b>Cable Retention</b>	RG – 174, 188, 316 → 20 lbs min RG – 178, 196 → 6 lbs min
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	40 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C
<b>Vibration</b>	MIL-STD-1344 Method 2005 Test Cond. IV.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-1344 Method 1003 Test Cond. A.

### Material:

	Material	Plating
<b>Connector Body</b>	Brass	Nickel or Gold
<b>Center Contact</b>	Male: Brass Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body



### Straight Plug Crimp ( SMC )

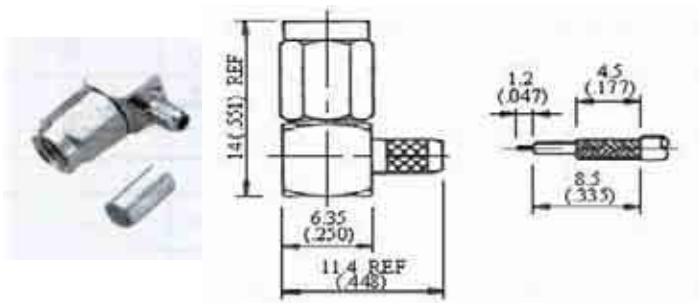


PART NO.	APPLICABLE CABLE RG/U
SMC-1101-TGG	174, 188A, 316
SMC-1102-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug Crimp ( SMC )**

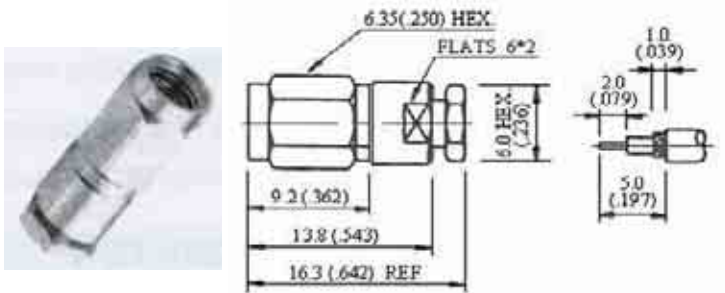


PART NO.	APPLICABLE CABLE RG/U
SMC-1103-TGG	174, 188A, 316
SMC-1104-TGG	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Plug Clamp ( SMC )**

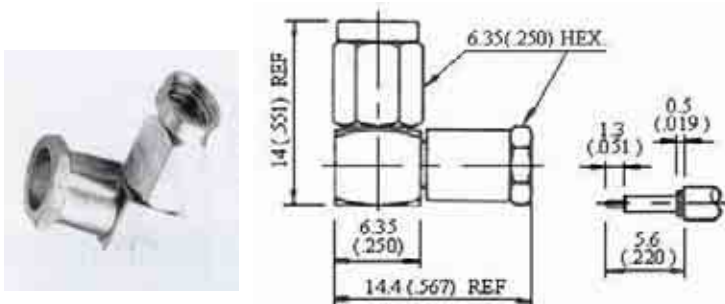


PART NO.	APPLICABLE CABLE RG/U
SMC-2101-TGG	174, 188A, 316
SMC-2102-TGG	178, 196

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug Clamp ( SMC )**

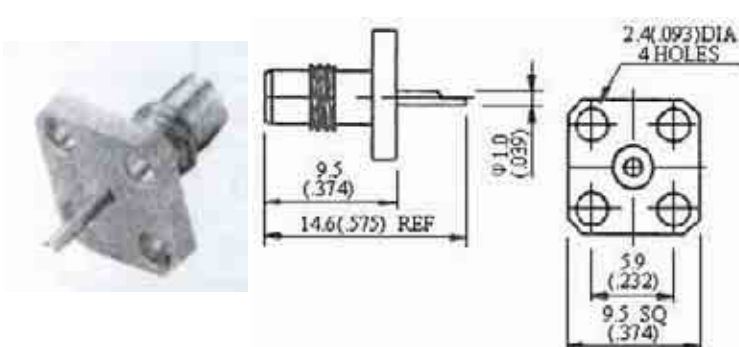


PART NO.	APPLICABLE CABLE RG/U
SMC-2103-TGG	174, 188A, 316
SMC-2104-TGG	178, 196

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

**Square Flange Jack Receptacle ( SMC )**

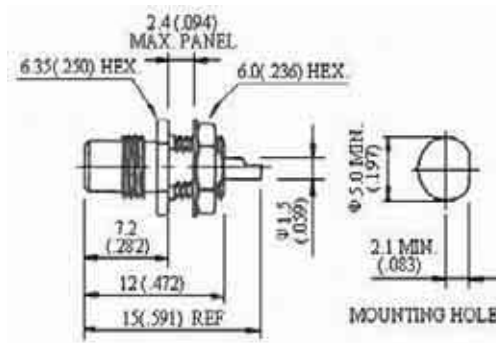


PART NO.
SMC-3201-TGG

**Description:**  
Bulkhead, Panel Mount Receptacles  
(Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Front Mount ) ( SMC )**

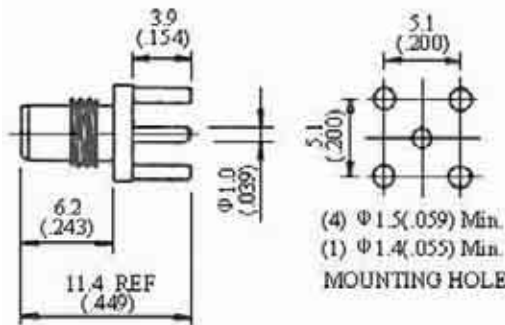


PART NO. \_\_\_\_\_  
SMC-4201-TGG

**Description:**  
Bulkhead, Panel Mount Receptacles  
(Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight PCB Mount Jack Receptacle ( SMC )**

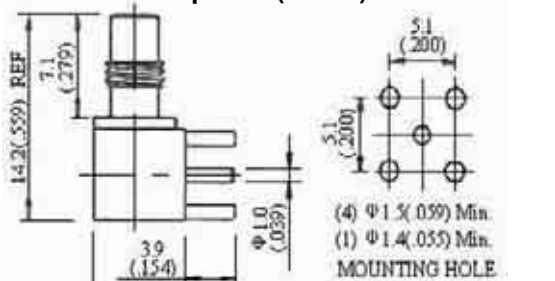


PART NO. \_\_\_\_\_  
SMC-5201-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle PCB Mount Jack Receptacle ( SMC )**

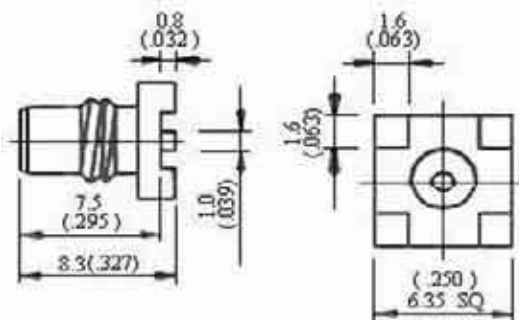


PART NO. \_\_\_\_\_  
SMC-5202-TGG

**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Surface Mount Jack Receptacle ( SMC )**



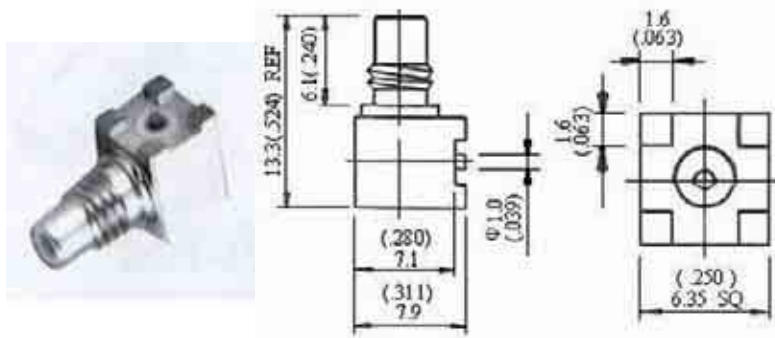
PART NO. \_\_\_\_\_  
SMC-5203-TGG

**Description:**  
Surface Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon



**Right Angle Surface Mount Jack Receptacle ( SMC )**

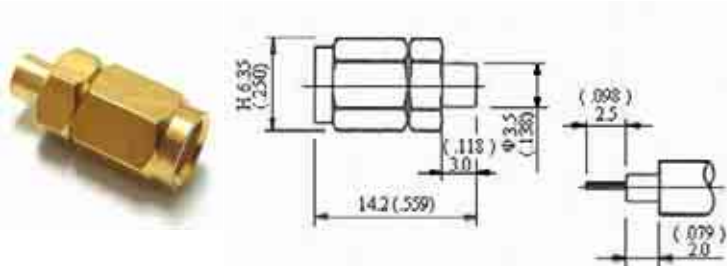


PART NO.  
SMC-5204-TGG

**Description:**  
Surface Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

**Straight Plug ( SMC )**

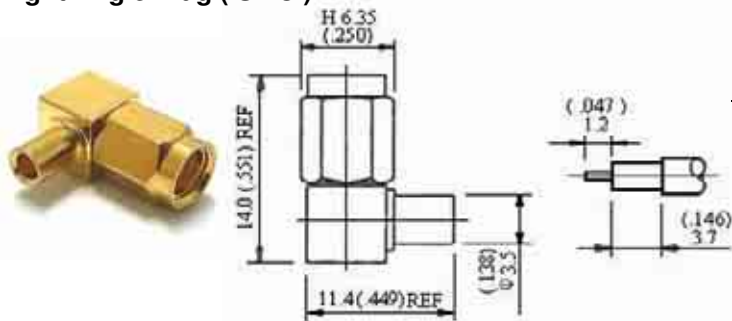


PART NO.	APPLICABLE CABLE RG/U
SMC-7101-TGG	RG/U (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

**Right Angle Plug ( SMC )**



PART NO.	APPLICABLE CABLE RG/U
SMC-7102-TGG	RG/U (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body  
Insulation: Teflon

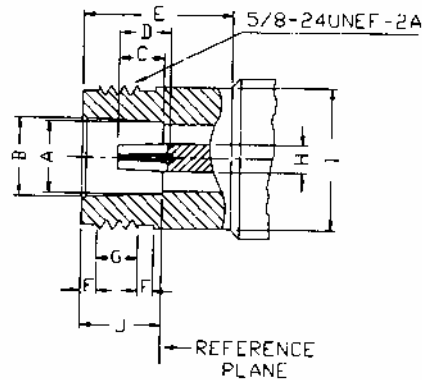
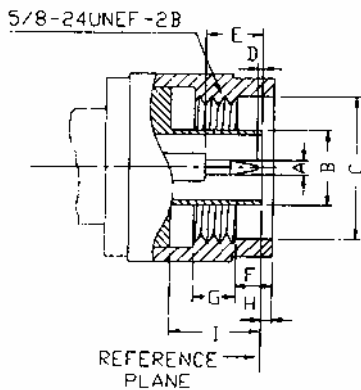
50 ohm 0 – 11 GHz

N series coaxial connectors are medium-sized, threaded coupling connectors designed for use from DC to 12.4 GHz. Their consistently low broadband –VSWR have made them popular over the years in many applications. The N series connector is impedance matched to 50 ohm cables.

Cable terminations are available in crimp, clamp and solder configurations. The threaded coupling ensures proper mating in applications where shock and extreme vibration are design considerations.

N connectors are used in aerospace, broadcast, audio and video applications as well as many microwave components such as filters, couplers, dividers, amplifiers and attenuators to name a few.

**INTERFACE MATING DIMENSIONS:**



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.60 (.063)	1.68 (.066)
B	7.95 (.313)	8.03 (.3158)
C	16.00 (.630)	-
D	0.08 (.003)	-
E	5.33 (.210)	5.84 (.230)
F	4.01 (.158)	4.27 (.168)
G	4.50 (.177)	-
H	0.41 (.016)	1.52 (.060)
I	10.11 (.398)	10.46 (.412)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	8.03 (.316)	8.13 (.320)
B	8.53 (.336)	8.74 (.344)
C	4.75 (.187)	5.26 (.207)
D	5.33 (.210)	-
E	10.72 (.422)	-
F	1.19 (.047)	1.96 (.077)
G	4.37 (.172)	5.13 (.202)
H	3.00 (.118)	3.15 (.124)
I	-	15.93 (.627)
J	9.04 (.356)	9.19 (.362)

**Electrical:**

<b>Impedance</b>	50 ohm	75 ohm
<b>Frequency Range</b>	0 to 12.4 GHz	0 to 1.5 GHz
<b>VSWR</b>	1.15 + 0.015 x f GHz max	
<b>Voltage Rating</b>	1,500 volts rms max <ul style="list-style-type: none"> <li>• RG – 58, 141, 142, 223 → 500 volts rms max</li> <li>• RG – 174, 188, 316 → 335 volts rms max</li> </ul>	
<b>Dielectric Withstanding Voltage</b>	2,500 volts rms max <ul style="list-style-type: none"> <li>• RG – 58, 141, 142, 223 → 1,000 volts rms max</li> <li>• RG – 174, 188, 316 → 750 volts rms max</li> </ul>	
<b>Contact Resistance</b>	center contact = 1.0 Milliohms max	



	outer contact = 0.2 Milliohms max
<b>RF Leakage</b>	- (90 – f GHz) dB min
<b>Insertion Loss</b>	.05 dB max x √f GHz
<b>Insulation Resistance</b>	5,000 Megohms min

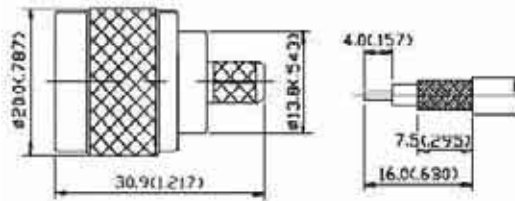
**Mechanical & Environmental:**

<b>Mating</b>	5/8" – 24 threaded coupling
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min RG – 59, 62A, 210 → 40 lbs min RG – 174, 188, 316 → 20 lbs min RG – 8A, 9B, 213, 214 → 80 lbs min
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	100 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.
<b>Temperature Cycling</b>	MIL-STD-202 Method 107 Test Cond. B.

**Material:**

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel or Silver
<b>Center Contact</b>	Male: Brass Female: Brass Phosphor Bronze or Beryllium Copper	Gold Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber, Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

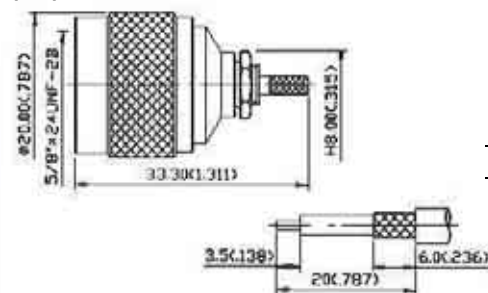
**Straight Plug Crimp ( N )**



**Description:**  
Flexible Cable-Clamp Attachment  
  
Finish: Gold plated center contact & nickel plated body  
  
Insulation: Teflon  
  
Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-1101-TGN	8A, 213	UG No. 1681/I
N-1102-TGN	9B, 214	UG No. 1682/U
N-1103-TGN	58, 58A, 141A	
N-1104-TGN	59, 62A, 210	

**Straight Plug Crimp ( N )**



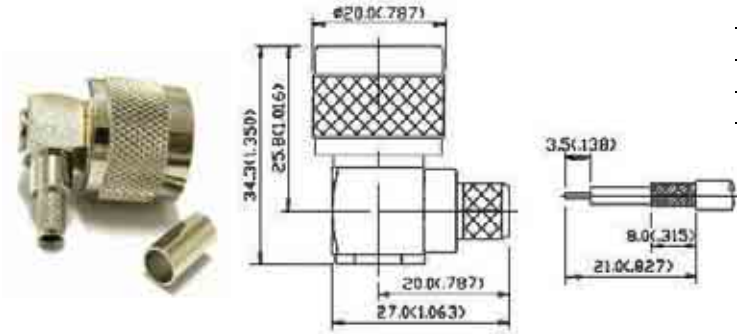
PART NO.	APPLICABLE CABLE RG/U
N-1105-TGN	223U, 58U, 141U
N-1106-TGN	174U, 316U

**Description:**  
Flexible Cable-Crimp Attachment  
Captive contact

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

# N

## Right Angle Plug Crimp ( N )



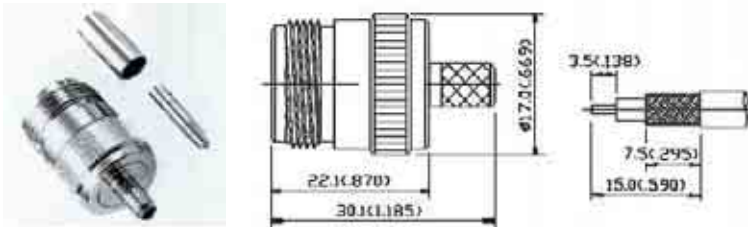
PART NO.	APPLICABLE CABLE RG/U
N-1113-TGN	8A, 213
N-1114-TGN	9B, 214
N-1115-TGN	58, 58A, 141A
N-1116-TGN	59, 62A, 210

**Description:**

Flexible Cable-Crimp Attachment  
Solder center contact directly

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Jack Crimp ( N )



**Description:**

Flexible Cable-Crimp Attachment

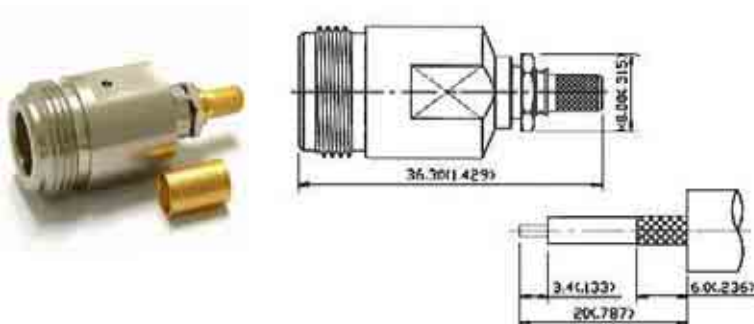
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-1207-TGN	8A, 213	UG No. 1688/U
N-1208-TGN	9B, 214	UG No. 1689/U
N-1209-TGN	58, 58A, 141A	
N-1210-TGN	59, 62A, 210	

## Straight Jack Crimp ( N )



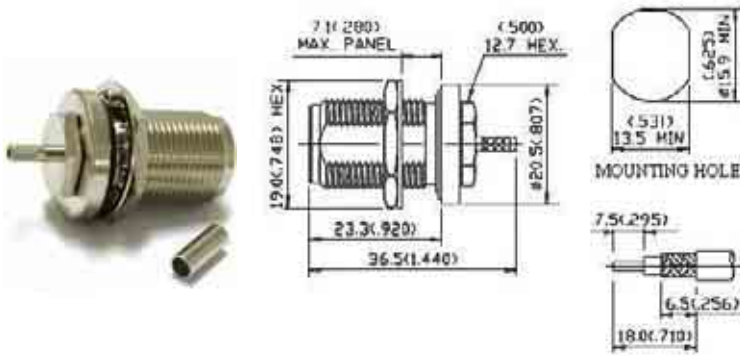
PART NO.	APPLICABLE CABLE RG/U
N-1113-TGN	8A, 213
N-1114-TGN	9B, 214

**Description:**

Flexible Cable-Crimp Attachment  
Solder center contact directly

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack Crimp ( N )**

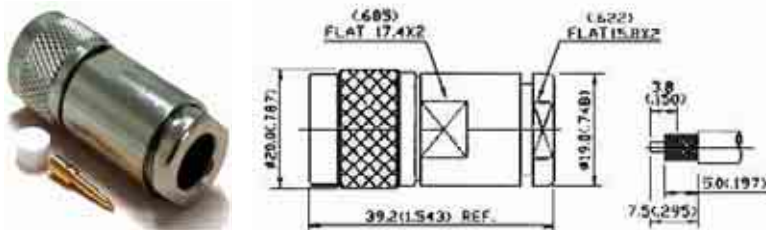


PART NO.	APPLICABLE CABLE RG/U
N-1217-TGN	174, 188A, 316

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Plug Clamp ( N )**



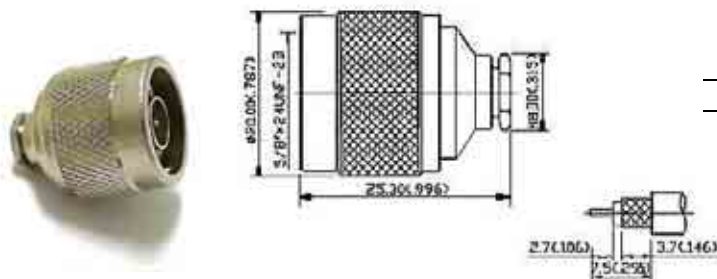
**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-2101-TGN	8A, 213	UG No. 21B/U
N-2102-TGN	9B, 214	
N-2103-TGN	8A, 213	captive contact
N-2104-TGN	9B, 214	
N-2105-TGN	58, 58A, 141A	UG No. 536B/U
N-2106-TGN	59, 62A, 210	UG No. 603A/U

**Straight Plug Clamp ( N )**

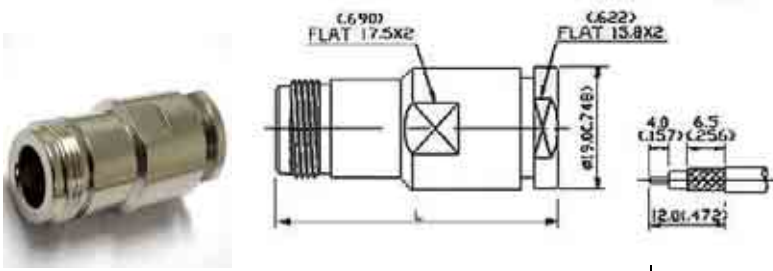


PART NO.	APPLICABLE CABLE RG/U
N-2107-TGN	58U
N-2108-TGN	174U, 316U, 188U

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body  
Insulation: Teflon

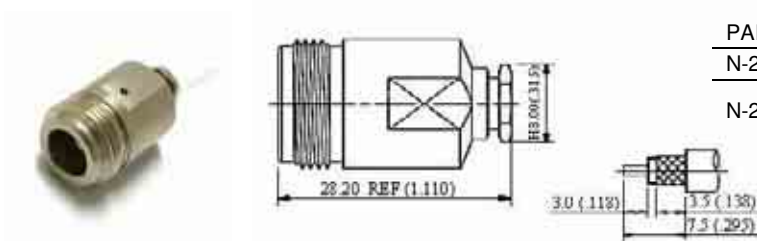
**Straight Jack Clamp ( N )**



**Description:**  
Flexible Cable-Clamp Attachment  
  
Finish: Gold plated center contact & nickel plated body  
  
Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-2109-TGN	8A, 213	L: 46,5 mm
N-2110-TGN	9B, 214	L: 46,5 mm
N-2111-TGN	8A, 213	captive contact L: 41,0 mm
N-2112-TGN	9B, 214	L: 35,7 mm
N-2113-TGN	58, 58A, 141A	

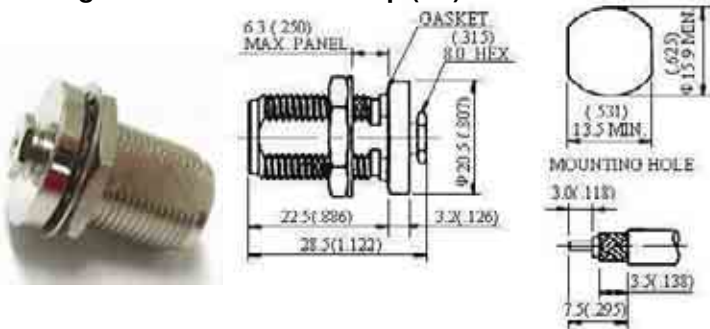
**Straight Jack Clamp ( N )**



PART NO.	APPLICABLE CABLE RG/U
N-2214-TGN	174U, 316U, 178, 188, 179U
N-2215-TGN	58A, 223U, 55U, 141, 142U, 303U

**Description:**  
Flexible Cable-Clamp Attachment  
  
Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

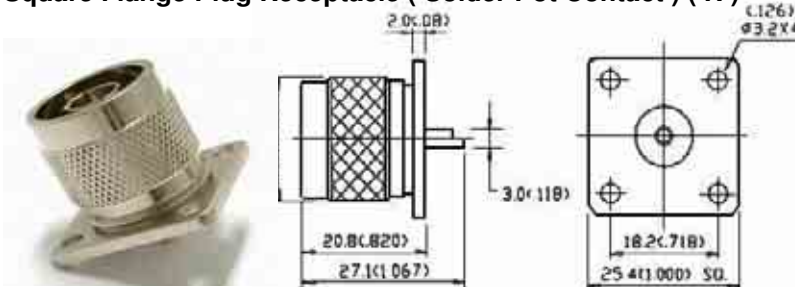
**Straight Jack Bulkhead Clamp ( N )**



PART NO.	APPLICABLE CABLE RG/U
N-2117-TGN	58U, 55U, 141, 142, 223, 303
N-2118-TGN	174, 118A, 316

**Description:**  
Flexible Cable-Clamp Attachment  
  
Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Square Flange Plug Receptacle ( Solder Pot Contact ) ( N )**



**Square Flange Plug Receptacle ( Solder Pot Contact )**  
PART NO.

N-3103-TGN

**Square Flange Plug Receptacle ( Tab Contact )**  
PART NO.

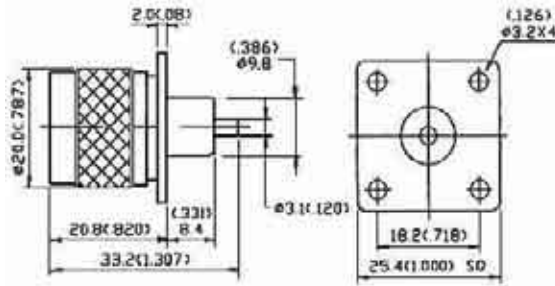
N-3105-TGN

**Square Flange Plug Receptacle ( Slotted Contact )**  
PART NO.

N-3106-TGN

**Description:**  
Panel Mount Receptacles  
  
Insulation: Teflon  
Finish: Gold plated center contact & nickel plated body

**Square Flange Plug Receptacle ( Exposed Teflon ) ( N )**

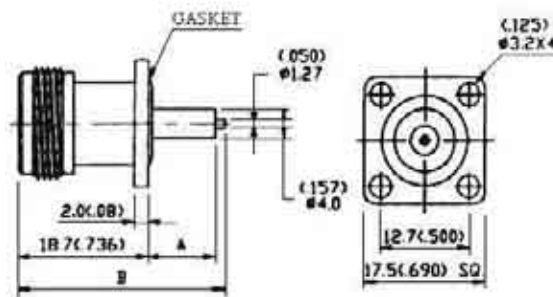


PART NO. \_\_\_\_\_  
N-3104-TGN

**Description:**  
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Square Flange Jack Receptacle ( Exposed Teflon ) ( N )**

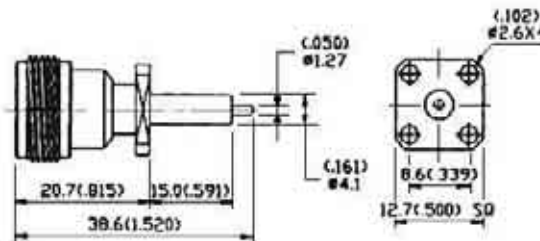


PART NO.	NOTES
N-3201-TGN	(A: 6.5; B: 28)

**Description:**  
Panel Mount Receptacles  
(A=6.5, B=28)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Square Flange Jack Receptacle ( Exposed Teflon )( N )**

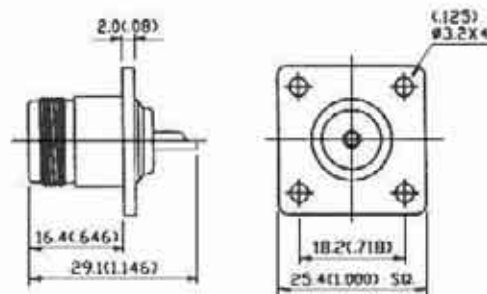


PART NO. \_\_\_\_\_  
N-3202-TGN

**Description:**  
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Square Flange Jack Receptacle ( Solder Pot Contact ) ( N )**



**Square Flange Jack Receptacle ( Solder Pot Contact )**

PART NO. \_\_\_\_\_  
N-3207-TGN  
Notes: UG No. 58/U

**Square Flange Jack Plug Receptacle ( Slotted Contact )**

PART NO. \_\_\_\_\_  
N-3208-TGN

**Square Flange Jack Receptacle ( Tab Contact )**

PART NO. \_\_\_\_\_  
N-3209-TGN

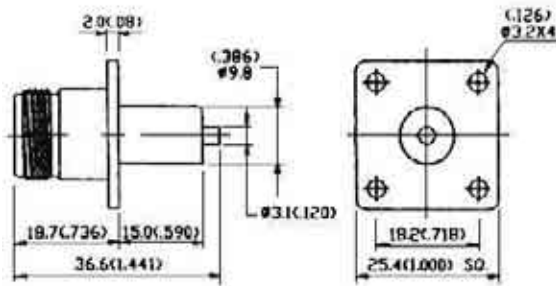
**Description:**  
center contact & nickel plated body  
Panel Mount Receptacles  
UG No. 58/U

Finish: Gold plated  
Insulation: Teflon



# N

## Square Flange Jack Receptacle ( Exposed Teflon ) ( N )

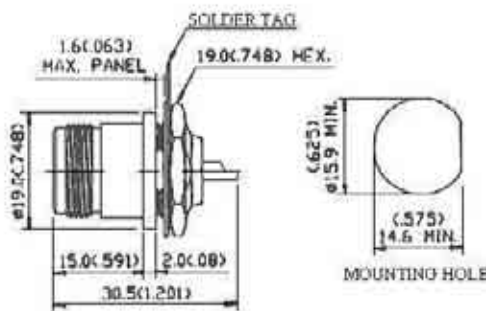


PART NO.  
N-3210-TGN

**Description:**  
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Bulkhead Jack Receptacle ( Solder Pot Contact )( N )

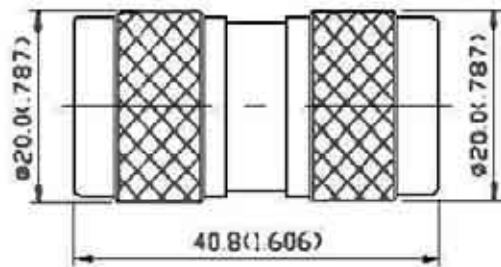


PART NO. | NOTES  
N-4201-TGN | UG No. 680A/U

**Description:**  
Bulkhead Mount Receptacles  
UG No. 680A/U

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Plug - Plug ( N )

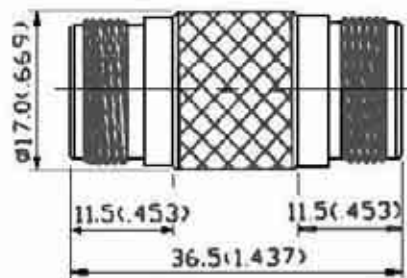


PART NO. | NOTES  
N-601-TGN | UG No. 57B/U

**Description:**  
In-Series Adapters  
UG No. 57B/U

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Jack - Jack ( N )



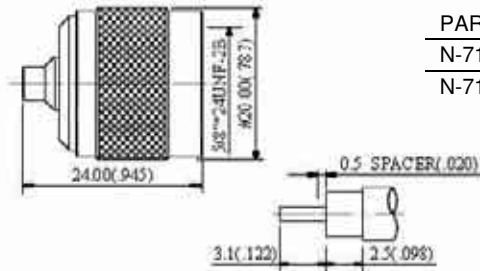
PART NO. | NOTES  
N-602-TGN | UG No. 29B/U

**Description:**  
In-Series Adapters  
UG No. 29B/U

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon



**Straight Plug ( N )**

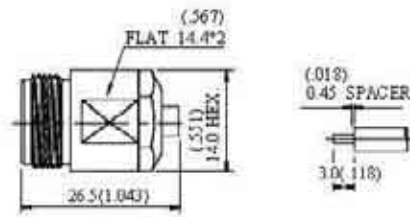


PART NO.	APPLICABLE CABLE RG/U
N-7101-TGN	RG 402/u (.141")
N-7102-TGN	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable  
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Jack ( N )**

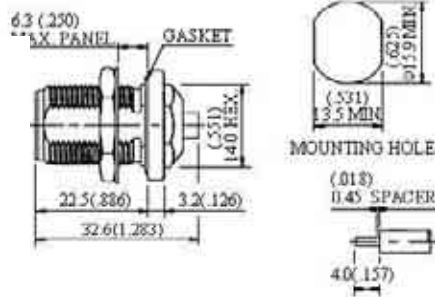


PART NO.	APPLICABLE CABLE RG/U
N-7203-TGN	RG 402/u (.141")
N-7204-TGN	RG 405/u (.085")
N-7205-TGN	RG 401/u (.250")

**Description:**  
For Semi-Rigid Cable  
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack ( BNC )**

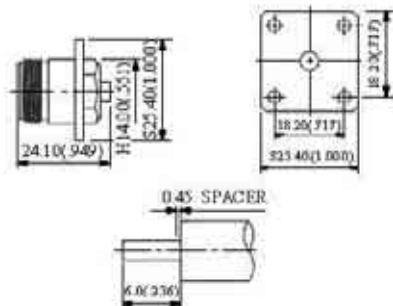


PART NO.	APPLICABLE CABLE RG/U
N-7206-TGN	RG 402/u (.141")
N-7207-TGN	RG 405/u (.085")
N-7208-TGN	RG 401/u (.250")

**Description:**  
For Semi-Rigid Cable  
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Square Flange Jack Receptacle ( N )**



PART NO.	APPLICABLE CABLE RG/U
N-7209-TGN	RG 402/u (.141")
N-7210-TGN	RG 405/u (.085")
N-7211-TGN	RG 401/u (.250")

**Description:**  
For Semi-Rigid Cable

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## TNC

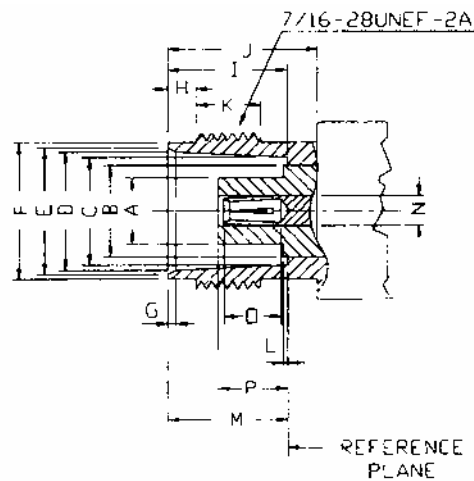
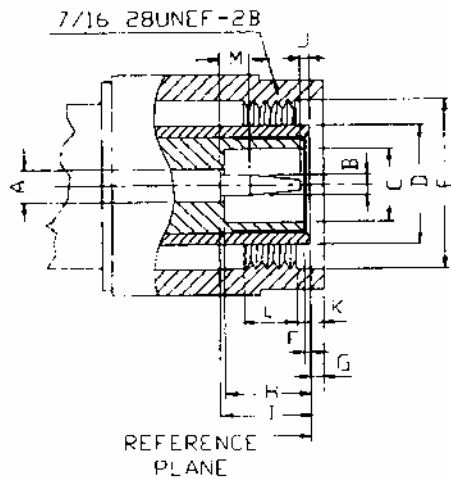
50 ohm 0 – 11 GHz

TNC series connectors are similar to BNC connectors except for their mating threaded coupling. Which is designed to provide low reflection from DC to 11 GHz under extreme environmental conditions, especially shock and vibration.

Cable terminations are available in crimp, clamp, twist-on and solder configurations. The 7/16" – 28 thread coupling provides positive mating.

Although their rugged design was initially developed for high vibration environments, TNC connectors are widely accepted and used for data transmission, medical equipment, cellular mobile telephones, test equipment, microwave components and aerospace application.

### INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.06 (.081)	2.21 (.087)
B	1.30 (.052)	1.37 (.054)
C	4.83 (.190)	-
D	-	8.08 (.318)
E	11.18 (.440)	-
F	0.15 (.006)	-
G	-	1.98 (.078)
H	5.28 (.208)	5.79 (.228)
I	5.33 (.210)	5.84 (.230)
J	0.08 (.003)	1.02 (.040)
K	1.60 (.063)	-
L	3.96 (.156)	-
M	1.98 (.078)	-

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	-	6.50 (.256)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.79 (.346)	9.04 (.356)
F	9.60 (.378)	9.68 (.381)
G	0.38 (.015)	0.77 (.030)
H	1.73 (.068)	2.24 (.088)
I	8.31 (.327)	8.51 (.335)
J	10.52 (.414)	-
K	4.75 (.187)	-
L	-	0.15 (.006)
M	4.78 (.188)	5.28 (.208)
N	2.06 (.081)	2.21 (.087)
O	4.95 (.195)	-
P	4.72 (.186)	5.23 (.206)

**Electrical:**

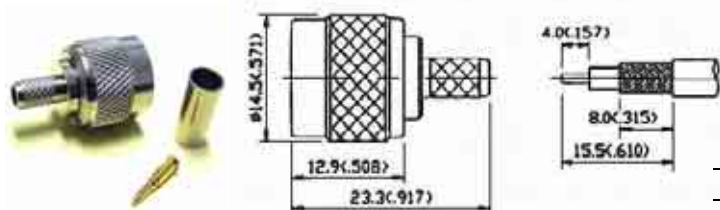
<b>Impedance</b>	50 ohm	75 ohm
<b>Frequency Range</b>	0 to 11.0 GHz	0 to 1.0 GHz
<b>VSWR</b>	1.3 max	
<b>Voltage Rating</b>	500 volts rms max <ul style="list-style-type: none"> <li>• RG- 58, 141, 142, 223 → 500 volts rms max</li> <li>• RG – 174, 188, 316 → 335 volts rms max</li> </ul>	
<b>Dielectric Withstanding Voltage</b>	1,500 volts rms max <ul style="list-style-type: none"> <li>• RG- 58, 141, 142, 223 → 1,000 volts rms max</li> <li>• RG – 174, 188, 316 → 750 volts rms max</li> </ul>	
<b>Contact Resistance</b>	center contact = 1.5 Milliohms max outer contact = 0.2 Milliohms max	
<b>RF Leakage</b>	-55 dB min @ 3 GHz	
<b>Insertion Loss</b>	.2 dB max @ 3 GHz	
<b>Insulation Resistance</b>	5,000 Megohms min	

**Mechanical & Environmental:**

<b>Mating</b>	7/16" – 28 threaded coupling
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min RG – 59, 62A, 210 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	100 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.

**Material:**

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel or Silver
<b>Center Contact</b>	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
<b>Insulation</b>	Teflon or Delrin	None
<b>Gasket</b>	Silicone Rubber, Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

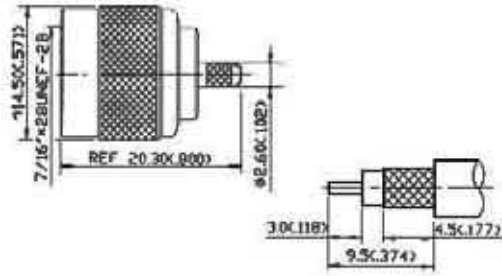
**Straight Plug Crimp ( TNC )**


PART NO.	APPLICABLE CABLE RG/U
TNC-1101-DGN	58, 58A, 141A
TNC-1102-DGN	59, 62A, 210

**Description:**  
Flexible Cable-Crimp Attachment  
Captive contact

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin TPX

## Straight Plug Crimp ( TNC )



**Description:**

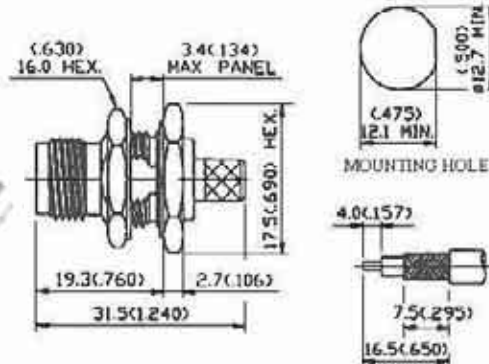
Flexible Cable-Crimp Attachment  
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin TPX

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1103-TGN	174, 188A, 316	
TNC-1104-TGN	179B, 187A	75 ohms

## Straight Bulkhead Jack Crimp ( TNC )



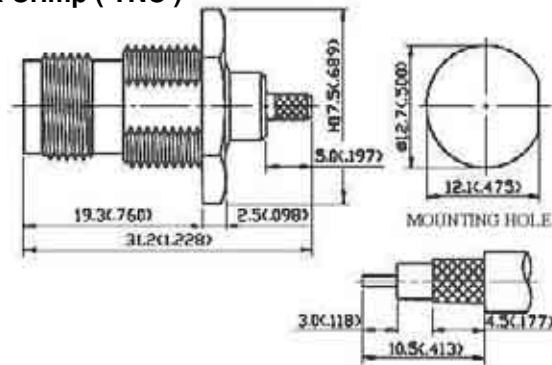
PART NO.	APPLICABLE CABLE RG/U
TNC-1205-DGN	58, 58A, 141A
TNC-1206-DGN	59, 62A, 210

**Description:**

Flexible Cable-Crimp Attachment  
Captive contact

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## Straight Bulkhead Jack Crimp ( TNC )



**Description:**

Flexible Cable-Crimp Attachment

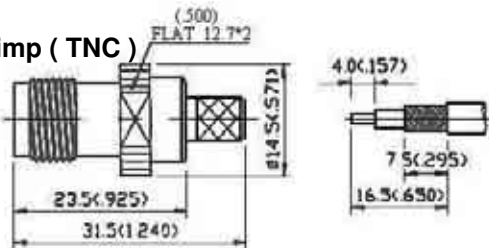
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1207-TGN	174, 188A, 316	
TNC-1208-TGN	179B, 187A	75 ohms

## Straight Jack Crimp ( TNC )



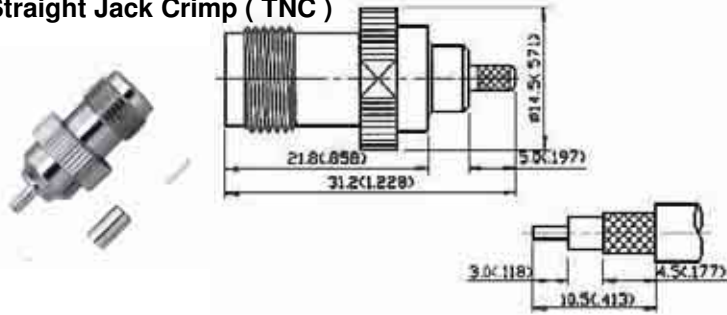
PART NO.	APPLICABLE CABLE RG/U
TNC-1205-DGN	58, 58A, 141A
TNC-1206-DGN	59, 62A, 210

**Description:**

Flexible Cable-Crimp Attachment  
Captive contact

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

**Straight Jack Crimp ( TNC )**



Flexible Cable-Crimp **Description:**  
Attachment

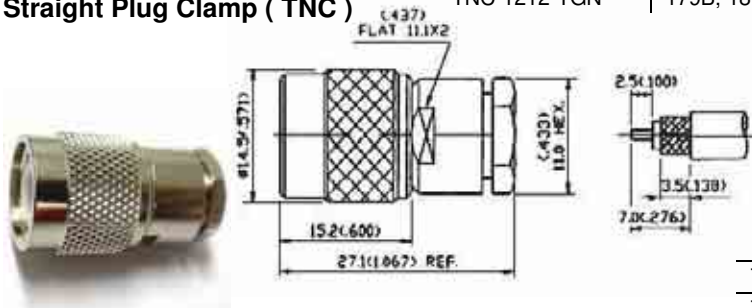
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1211-TGN	174, 188A, 316	
TNC-1212-TGN	179B, 187A	75 ohms

**Straight Plug Clamp ( TNC )**

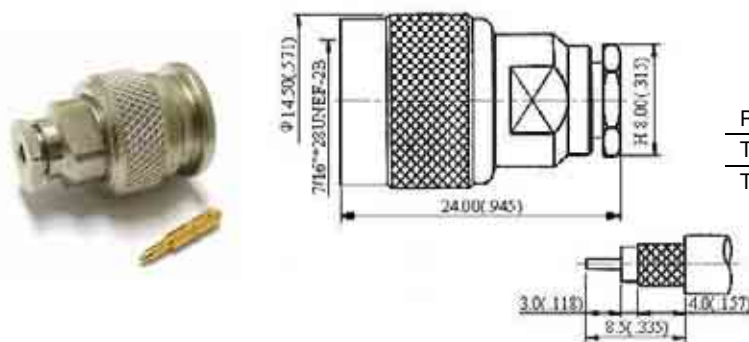


**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U
TNC-2101-DGN	58, 58A, 141A
TNC-2102-DGN	59, 62A, 210

**Straight Plug Clamp ( TNC )**

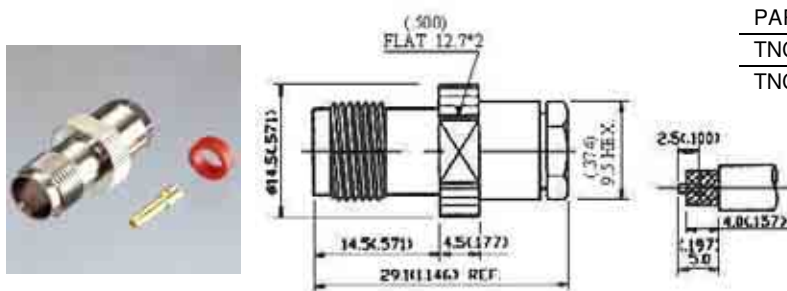


**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U
TNC-2103-TGN	58U, 55U, 223U
TNC-2104-TGN	174, 188, 316U

**Straight Jack Clamp ( TNC )**



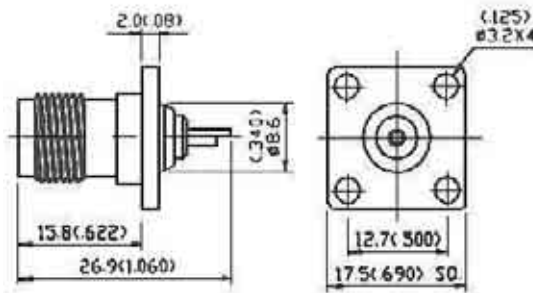
**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U
TNC-2205-DGN	58, 58A, 141A
TNC-2206-DGN	59, 62A, 210



## Square Flange Jack Receptacle ( TNC )

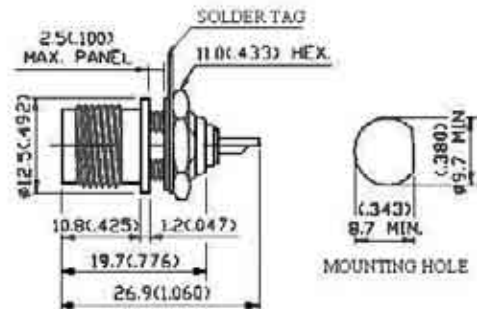


PART NO. \_\_\_\_\_  
TNC-3201-DGN

**Description:**  
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## Straight Bulkhead Jack Receptacle ( TNC )

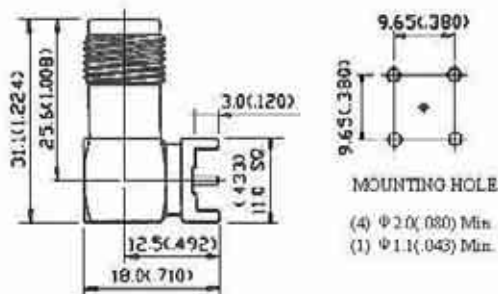


PART NO. \_\_\_\_\_  
TNC-4201-DGN

**Description:**  
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## Right Angle PCB Mount Jack Receptacle ( TNC )

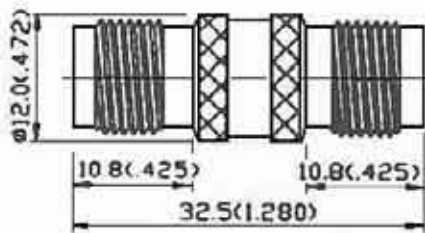


PART NO. \_\_\_\_\_  
TNC-5201-TGN

**Description:**  
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Jack - Jack ( TNC )



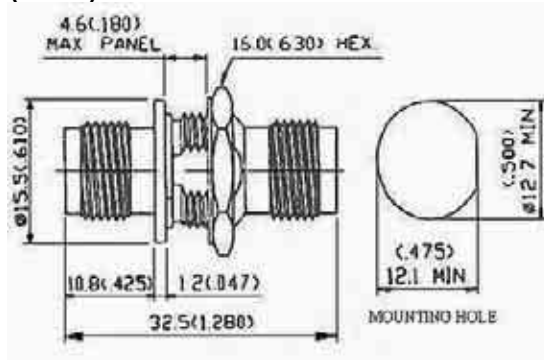
PART NO. \_\_\_\_\_  
TNC-601-DGN

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin



**Bulkhead Jack - Jack ( TNC )**

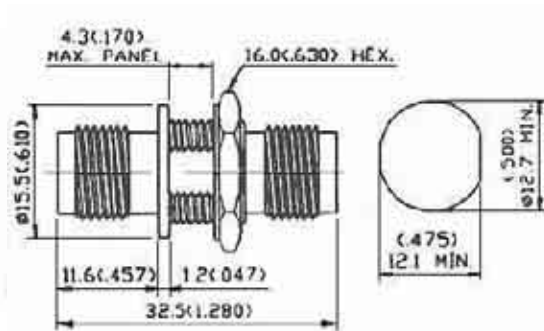


PART NO. \_\_\_\_\_  
TNC-602-DGN

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & nickel plated body  
Insulation: Derlin

**Isolated Bulkhead Jack - Jack ( TNC )**

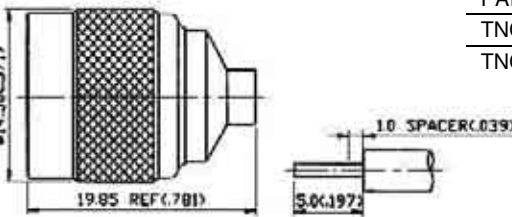


PART NO. \_\_\_\_\_  
TNC-603-DGN

**Description:**  
In-Series Adapters

Finish: Gold plated center contact & nickel plated body  
Insulation: Derlin

**Straight Plug Crimp ( TNC )**

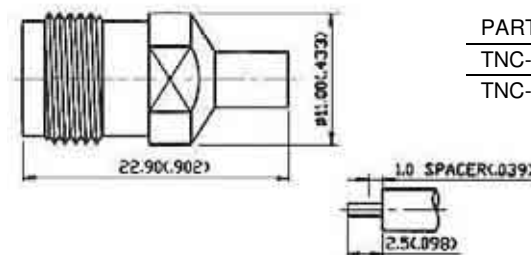


PART NO.	APPLICABLE CABLE RG/U
TNC-7101-TGG	.141"
TNC-7102-TGG	.085"

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Derlin

**Straight Plug Crimp ( TNC )**



PART NO.	APPLICABLE CABLE RG/U
TNC-7203-TGG	.141"
TNC-7204-TGG	.085"

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Derlin

## BNC

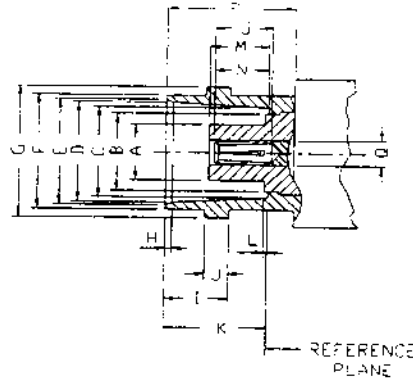
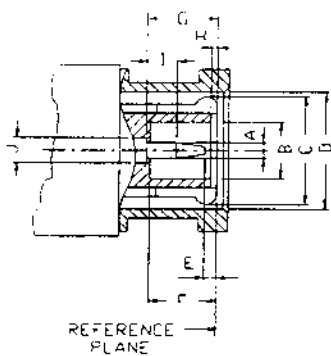
50 ohm 0 – 4 GHz

BNC coaxial connectors are one of the world's most popular RF connectors. They are miniature, lightweight and can operate satisfactorily up to 11 GHz. The BNC is typically used in applications from DC to 4 GHz and yield low reflection this frequency range.

Cable terminations are available in crimp, clamp, solder and jacket quick twist configurations. The twostud bayonet lock coupling provides ease of connecting and disconnecting and is ideally suited for applications such as test equipment where this feature is notably significant.

BNC connectors are most prevalent in computer networks, audio, video, data processing and telecommunication equipment because of their size and relatively low installed cost.

### INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.32 (.052)	1.37 (.054)
B	4.83 (.190)	-
C	SLOTTED AND FLATED TO MEET	
D	9.78 (.385)	9.91 (.390)
E	0.08 (.003)	
F	5.28 (.208)	5.79 (.228)
G	5.33 (.210)	5.84 (.230)
H	0.15 (.006)	0.46 (.018)
I	2.00 (.078)	-
J	2.06 (.081)	2.21 (.087)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	-	6.50 (.256)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.80 (.346)	9.04 (.356)
F	9.60 (.378)	9.70 (.382)
G	10.97 (.432)	11.07 (.436)
H	0.38 (.015)	0.76 (.030)
I	5.18 (.204)	5.28 (.208)
J	1.91 (.075)	2.06 (.081)
K	8.31 (.327)	8.51 (.335)
L	-	0.15 (.006)
M	4.80 (.189)	5.28 (.208)
N	4.72 (.186)	5.23 (.206)
O	4.95 (.195)	-
P	10.52 (.414)	-
Q	2.06 (.081)	2.21 (.087)

### Electrical:

<b>Impedance</b>	50 ohm	75 ohm
<b>Frequency Range</b>	0 to 4.0 GHz	0 to 1 GHz
<b>VSWR</b>	1.3 max	
<b>Voltage Rating</b>	500 volts rms max ▪ RG – 58, 141, 142, 223 – 500 volts rms max	

	<ul style="list-style-type: none"> <li>RG – 174, 188, 316 – 335 volts rms max</li> </ul>
<b>Dielectric withstanding Voltage</b>	1,500 volts rms max <ul style="list-style-type: none"> <li>RG- 58, 141, 142, 223 – 1,000 volts rms max</li> <li>RG – 174, 188, 316 – 750 volts rms max</li> </ul>
<b>Contact Resistance</b>	center contact = 1.5 Milliohms max outer contact = 0.5 Milliohms max
<b>RF Leakage</b>	-55 dB min @ 3 GHz
<b>Insertion Loss</b>	.2 dB max @ 3 GHz
<b>Insulation Resistance</b>	5,000 Megohms min

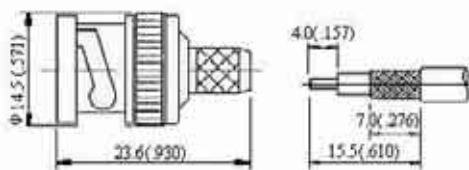
**Mechanical & Environmental:**

<b>Mating</b>	Two stud bayonet coupling
<b>Durability</b>	5800 matings
<b>Coupling Nut Retention</b>	100 lbs. min
<b>Cable Retention</b>	RG – 58, 141, 142, 223 – 40 lbs min RG – 59, 62A, 210 – 40 lbs min RG – 174, 188, 316 – 20 lbs min RG – 179B, 187A – 20 lbs min
<b>Temperature Range</b>	-65 °C to 85 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.

**Material:**

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel or Gold
<b>Center Contact</b>	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold Gold
<b>Insulation</b>	Teflon or Delrin	None
<b>Basket</b>	Silicone Rubber Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

**Straight Plug Crimp**



**Description:**

Flexible Cable-Crimp Attachment

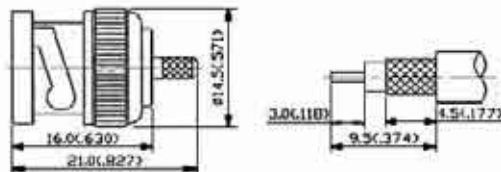
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin (or TPX)

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1101-DGN	58, 58A, 141A	1.2
BNC-1102-DGN	59, 62A, 210	1.2
BNC-1104-DGN	174, 188A, 316	1.2

**Straight Plug Crimp ( BNC )**



**Description:**

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

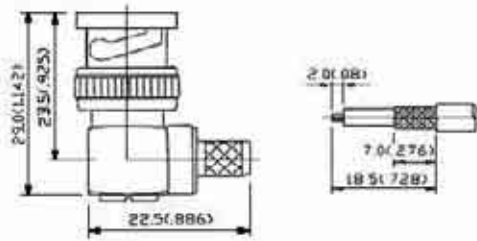
Insulation: Teflon TPX

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1103-TGN	174, 188A, 316	2

# BNC

## Right Angle Plug Crimp ( Solder Contact ) ( BNC )



**Description:**

Flexible Cable-Crimp Attachment

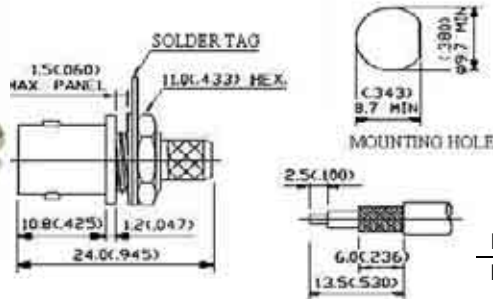
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1112-DGN	58, 58A, 141A	1.2
BNC-1113-DGN	59, 62A, 210	1.2
BNC-1114-TGN	174, 188A, 316	2

## Straight Bulkhead Jack Crimp ( BNC )



PART NO.	APPLICABLE CABLE RG/U
BNC-1205-TGN	174, 188A, 316

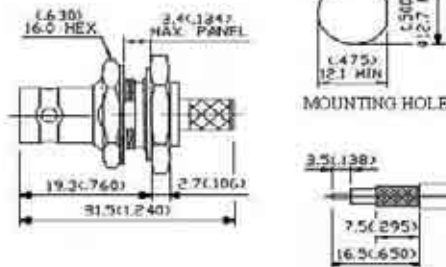
**Description:**

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body

Insulation: Teflon

## Straight Bulkhead Jack Crimp ( BNC )



PART NO.	APPLICABLE CABLE RG/U
BNC-1206-DGN	58, 58A, 141A (NOTES 1)
BNC-1207-DGN	59, 62A, 210 (NOTES 1)
BNC-1208-TGN	174, 188A, 316

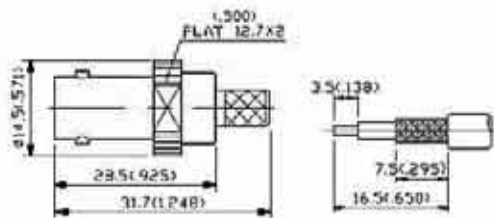
**Description:**

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body

Insulation: Teflon

## Straight Jack Crimp



**Description:**

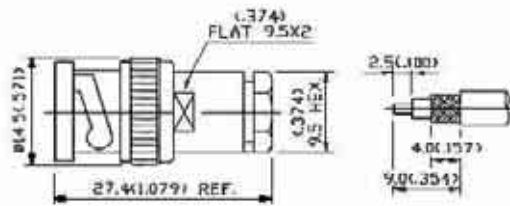
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1209-DGN	58, 58A, 141A	1
BNC-1210-DGN	59, 62A, 210	1
BNC-1211-TGN	174, 188A, 316	

**Straight Plug Clamp ( BNC )**



**Description:**  
Flexible Cable-Crimp Attachment

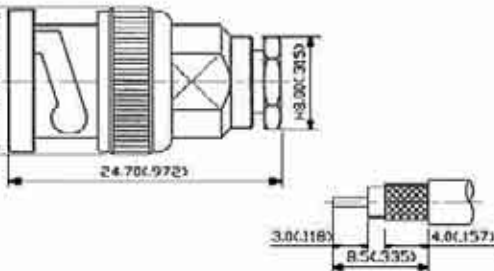
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2101-DGN	58, 58A, 141A	1.2
BNC-2102-DGN	59, 62A, 210	1.2

**Straight Plug Clamp ( BNC )**



**Description:**  
Flexible Cable-Crimp Attachment

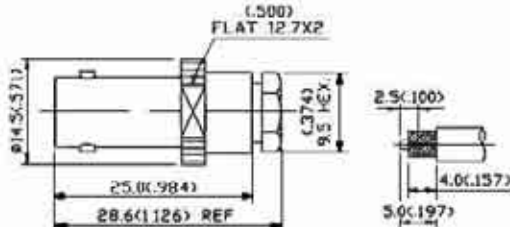
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2103-TGN	58U, 55U, 141, 142, 223, 303	1.2
BNC-2104-TGN	174U, 188, 179, 316U	1.2

**Straight Jack Clamp ( BNC )**



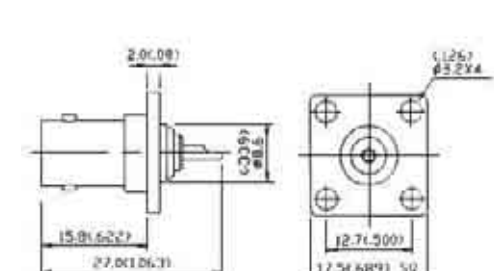
**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2205-DGN	58, 58A, 141A	1
BNC-2206-DGN	59, 62A, 210	1

**Square Flange Jack Receptacle ( BNC )**



PART NO.
BNC-3201-TGN

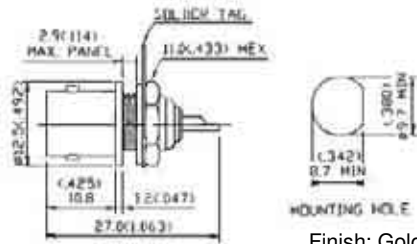
**Description:**  
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body  
Insulation: Teflon



# BNC

## Straight Bulkhead Jack Receptacle ( BNC )

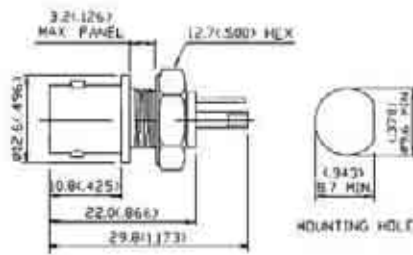


**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)  
50 Ohm (Brass Body)

Finish: Gold plated center contact & body  
Insulation: Delrin

PART NO.  
BNC-4101-DGN

## Isolated Bulkhead Jack Receptacle ( BNC )

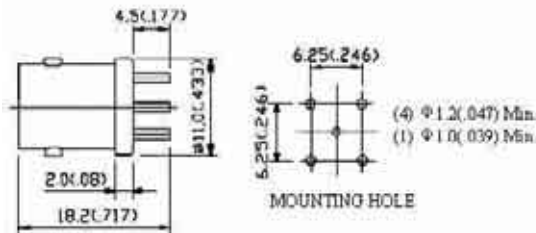


**Description:**  
Bulkhead Mount Receptacles (Solder Pot Contact)  
50 Ohm

Finish: Gold plated center contact & body  
Insulation: ABS

PART NO.  
BNC-4202-ABSGN

## Straight PCB Mount Jack Receptacle ( BNC )

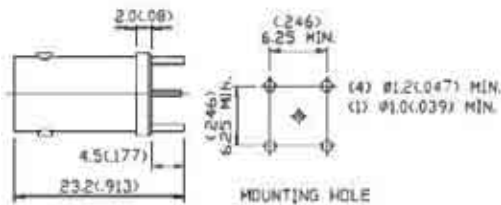


**Description:**  
Printed Circuit Board Receptacles  
50 Ohm

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
BNC-5201-TGN

## Straight PCB Mount Jack Receptacle ( BNC )

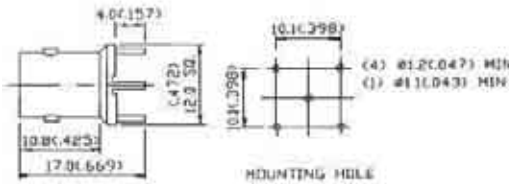


**Description:**  
Printed Circuit Board Receptacles  
50 Ohm

Finish: Gold plated center contact & body  
Insulation: Delrin

PART NO.  
BNC-5202-DGN

## Straight PCB Mount Jack Receptacle ( BNC )



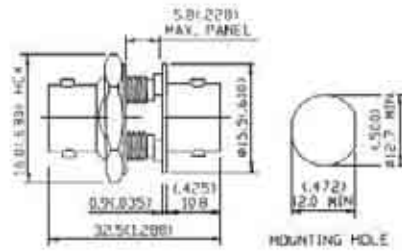
**Description:**  
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body  
Insulation: Teflon

PART NO.  
BNC-5203-TGN



**Bulkhead Jack - Jack ( BNC )**

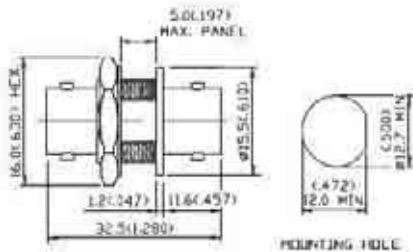


PART NO. \_\_\_\_\_  
BNC-601-DGN

**Description:**  
In series Adapters  
50 Ohms

Finish: Gold plated center contact & body  
Insulation: Delrin

**Isolated Bulkhead Jack - Jack ( BNC )**

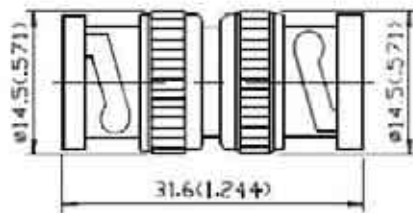


PART NO. \_\_\_\_\_  
BNC-602-DGN

**Description:**  
In series Adapters  
50 Ohms  
Brass coupling nut

Finish: Gold plated center contact & body  
Insulation: Delrin

**Plug - Plug ( BNC )**

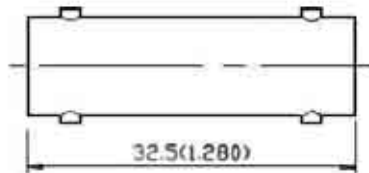


PART NO. \_\_\_\_\_  
BNC-603-DGN

**Description:**  
In series Adapters  
50 Ohms  
Brass coupling nut

Finish: Gold plated center contact & body  
Insulation: Delrin

**Jack - Jack ( BNC )**

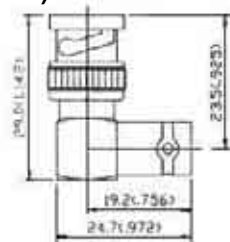


PART NO. \_\_\_\_\_  
BNC-604-DGN

**Description:**  
In series Adapters  
Brass body 50 Ohm

Finish: Gold plated center contact & body  
Insulation: Delrin

**Right Angle Plug - Jack ( BNC )**



PART NO. \_\_\_\_\_  
BNC-605-DGN

**Description:**  
In series Adapters  
Brass coupling nut

Finish: Gold plated center contact & body  
Insulation: Delrin

## MINI-UHF

50 ohm 0 – 2.5 GHz

Mini-UHF coaxial connectors are designed for use in applications from DC to 2.5 GHz where size, weight and cost elements are crucial.

These miniature 3/8" – 24 thread size connectors provide excellent RF performance and are impedance matched to 50 ohm cable. Crimp, twist-on and solder terminations are available with the Mini-UHF series.

Mini-UHF connectors combine excellent electrical characteristics, small size and light weight at a relatively inexpensive cost for many coaxial connector applications.

### Electrical:

<b>Impedance</b>	50 ohm
<b>Frequency Range</b>	0 to 2.5 GHz
<b>VSWR</b>	1.25 max
<b>Voltage Rating</b>	335 volts rms max
<b>Dielectric Withstanding Voltage</b>	1,000 volts rms max
<b>Contact Resistance</b>	center contact = 1.5 Milliohms max outer contact = 1.0 Milliohms max
<b>RF Leakage</b>	-55 dB min @ 2.5 GHz
<b>Insertion Loss</b>	.2 dB max @ 2.5 GHz
<b>Insulation Resistance</b>	5,000 Megohms min

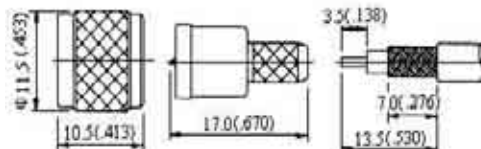
### Mechanical & Environmental:

<b>Mating</b>	3/8" – 28 threaded coupling
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
<b>Durability</b>	500 matings
<b>Temperature Range</b>	-55 °C to 85 °C
<b>Vibration</b>	MIL-STD-202 Method 204 Test Cond. B.
<b>Salt Spray</b>	MIL-STD-202 Method 101 Test Cond. B.

### Material:

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel
<b>Center Contact</b>	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
<b>Insulation</b>	Teflon or Delrin	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

### Straight Plug Crimp ( 4 piece Design ) ( Mini-UHF )



#### Description:

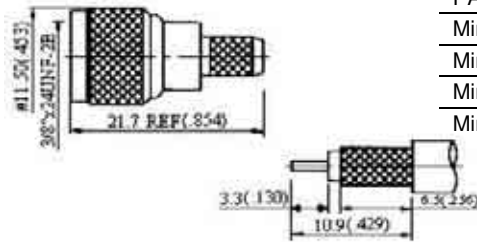
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
Mini-UHF-1103-DGN	58, 58A, 141A	Captive contact

## Straight Plug Crimp ( Mini-UHF )

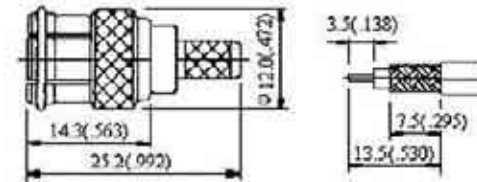


PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1104-DGN	58U
Mini-UHF-1105-DGN	8X
Mini-UHF-1106-DGN	6U
Mini-UHF-1107-DGN	PROFLEX

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Delrin

## Straight Plug Crimp Push-on ( No Thread ) ( Mini-UHF )



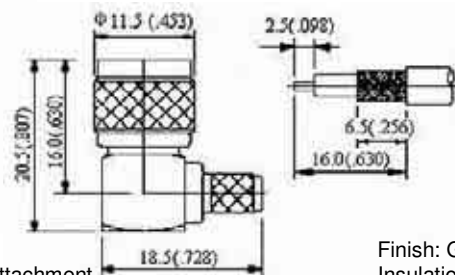
**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
Mini-UHF-1108-DGN	58, 58A, 141A	Captive contact

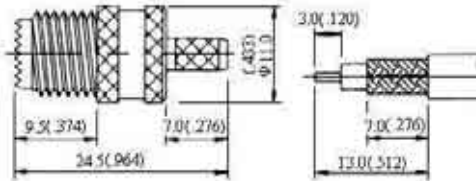
## Right Angle Plug Crimp ( Mini-UHF )



**Description:**  
Flexible Cable-Crimp Attachment  
Solder center contact directly

Finish: Gold plated center contact & body  
Insulation: Delrin

## Straight Jack Crimp ( With Teflon Sleeve ) ( Mini-UHF )

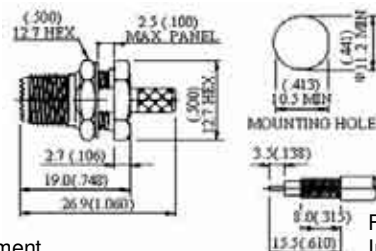


PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1201-DGN	58, 58A, 141A (NOTES: Captive contact)
Mini-UHF-1202-DGN	174, 188A, 316

**Description:**  
Gold plated center contact & body  
Flexible Cable-Crimp Attachment

Finish:  
Insulation: Delrin

## Straight Bulkhead Jack Crimp ( Mini-UHF )



PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1209-DGN	58, 58A, 141A
Mini-UHF-1210-DGN	59, 62A, 210

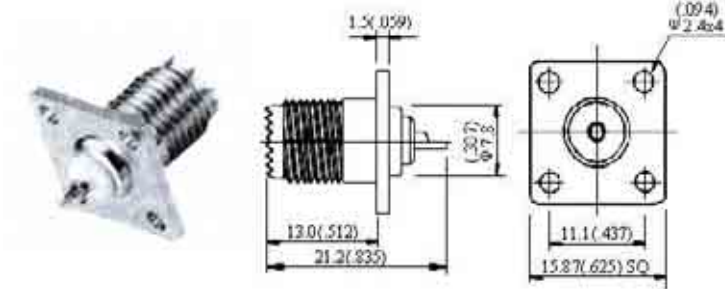
**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body  
Insulation: Delrin

# MINI-UHF



## Square Flange Jack Receptacle ( Mini-UHF )

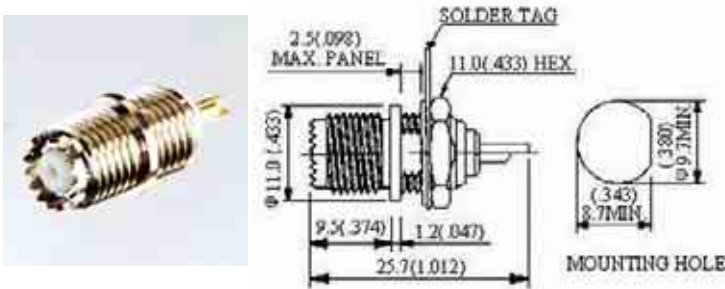


PART NO.  
Mini-UHF-3201-DGN

**Description:**  
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Delrin

## Straight Bulkhead Jack Receptacle ( Front Mount ) ( Mini-UHF )

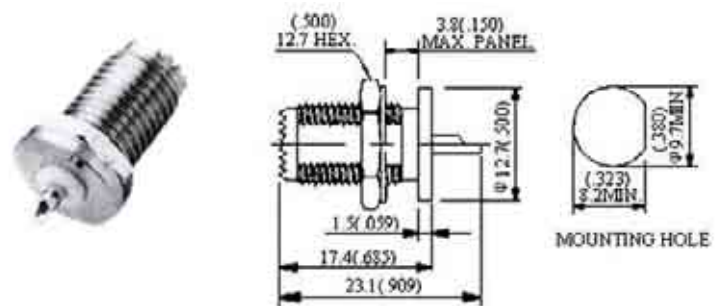


PART NO.  
Mini-UHF-4201-DGN

**Description:**  
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Delrin

## Straight Bulkhead Jack Receptacle ( Rear Mount ) ( Mini-UHF )

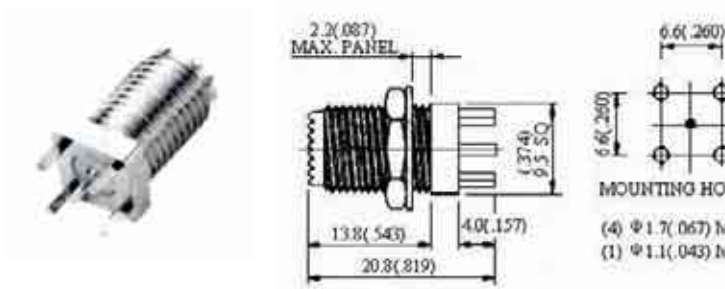


PART NO.  
Mini-UHF-4202-DGN

**Description:**  
Bulkhead, Panel & PCB Mount Receptacles  
Diecast Zinc body

Finish: Gold plated center contact & body  
Insulation: Delrin

## Straight PCB Mount Jack Receptacle ( Mini-UHF )



PART NO.  
Mini-UHF-5201-DGN

**Description:**  
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body  
Insulation: Delrin

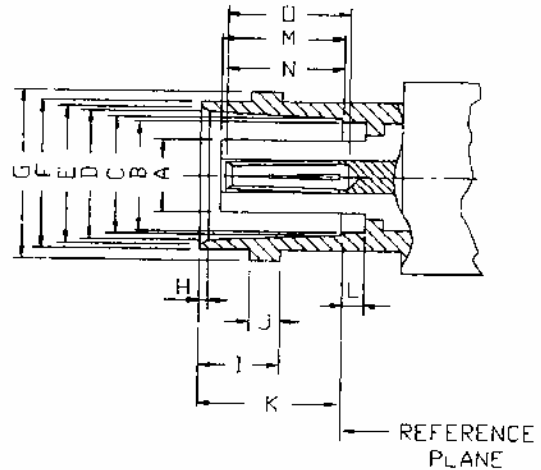
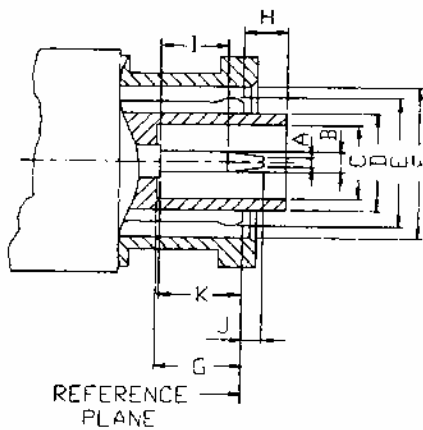
**MHV**

0 – 50 MHz

MHV connectors provide the user with shielded disconnects where high voltages are present, generally up to 5KV DC. The MHV has non-constant impedance characteristic and features polarized center contacts which connector with rated voltage applied will not result in electrical shock.

The MHV connectors are available in crimp, clamp and bulkhead receptacle jack and plug types. They are similar in size to, but are not intermateable with, BNC connectors. The devices are suitable for all high voltage applications up to 5KV DC.

**INTERFACE DIMENSIONS:**



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.64 (.025)
B	1.32 (.052)	1.37 (.054)
C	4.83 (.190)	4.93 (.194)
D	7.06 (.278)	7.16 (.282)
E	SLOTTED AND FLARED TO MEET ELECTRICAL AND MECHANICAL REQUIREMENTS	
F	9.78 (.385)	9.91 (.390)
G	7.67 (.302)	-
H	-	2.18 (.086)
I	5.26 (.207)	-
J	-	0.13 (.005)
K	7.62 (.300)	-

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	7.21 (.284)	7.37 (.290)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.79 (.346)	9.04 (.356)
F	9.60 (.378)	9.70 (.382)
G	10.97 (.432)	11.07 (.436)
H	0.38 (.015)	0.76 (.030)
I	5.18 (.204)	5.28 (.208)
J	1.91 (.075)	2.06 (.081)
K	8.31 (.327)	8.51 (.335)
L	2.18 (.086)	-
M	7.34 (.289)	7.90 (.311)
N	6.43 (.253)	7.11 (.280)
O	6.86 (.270)	-

**Electrical:**

<b>Impedance</b>	Non-constant
<b>Frequency Range</b>	0 to 50 MHz
<b>Dielectric Withstanding Voltage</b>	5,000 volts rms max
<b>Contact Resistance</b>	center contact = 2.0 Milliohms max outer contact = 1.5 Milliohms max
<b>Insulation Resistance</b>	5,000 Megohms min

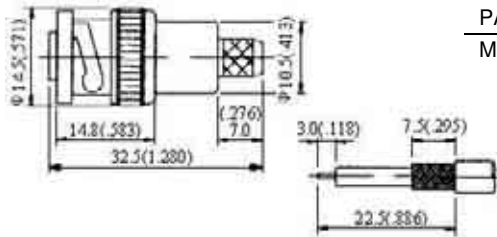
**Mechanical & Environmental:**

<b>Mating</b>	Two stud bayonet coupling
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	100 lbs min
<b>Cable Retention</b>	RG – 58, 141, 142 → 40 lbs min RG – 59, 62A → 40 lbs min
<b>Temperature Range</b>	-55 °C to 155 °C

**Material:**

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel
<b>Center Contact</b>	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

**Straight Plug Crimp ( MHV )**

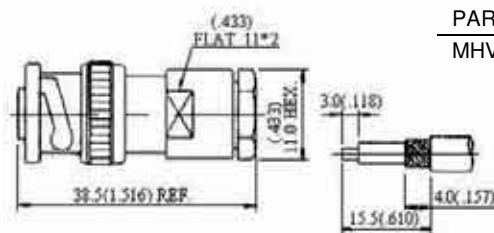


<b>PART NO.</b>	<b>APPLICABLE CABLE RG/U</b>
MHV-1101-TGN	59, 62A, 210

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Plug Clamp ( MHV )**



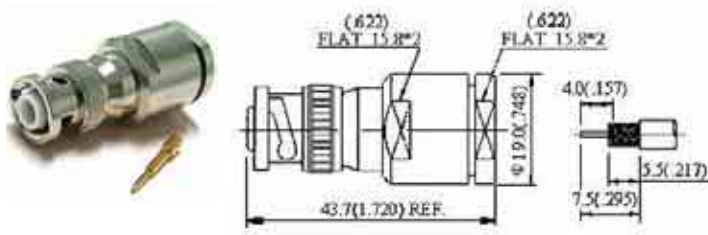
<b>PART NO.</b>	<b>APPLICABLE CABLE RG/U</b>
MHV-2102-TGN	59, 62A, 210

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon



**Straight Plug Clamp ( MHV )**

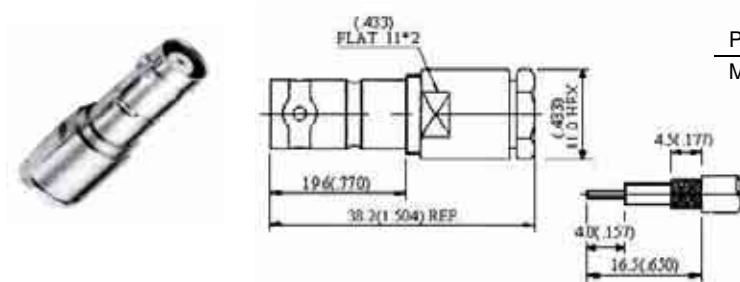


PART NO.	APPLICABLE CABLE RG/U
MHV-2103-TGN	8A, 213

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Jack Clamp ( MHV )**

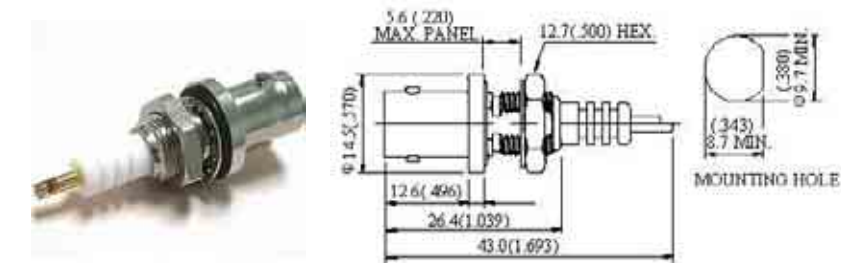


PART NO.	APPLICABLE CABLE RG/U
MHV-2201-TGN	59, 62A, 210

**Description:**  
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( MHV )**

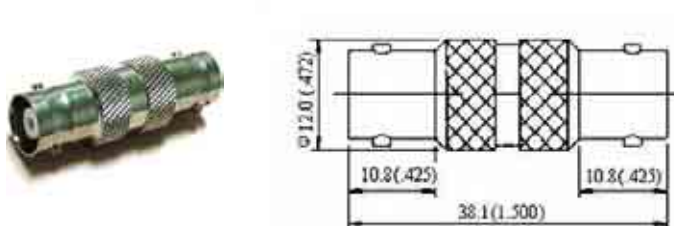


PART NO.
MHV-4201-TGN

**Description:**  
Bulkhead Mount Receptacle

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Jack-Jack ( MHV )**



PART NO.
MHV-601-TGN

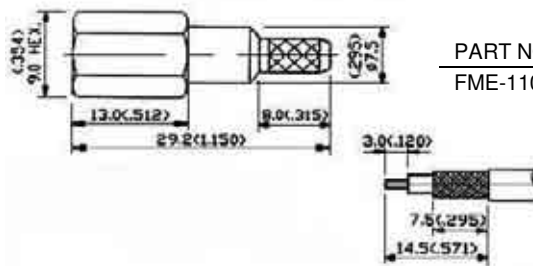
**Description:**  
In-Series Adapters

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## FME

### Flexible Cable – Crimp Attachment

#### Straight Plug Crimp (FME) ( SAP )

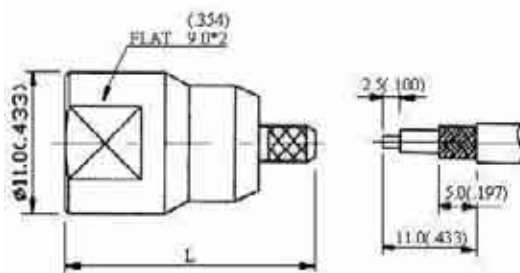


PART NO.	APPLICABLE CABLE RG/U
FME-1103-TGN	58, 58A, 141A

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

#### Straight Plug Crimp (FME) ( SAP )



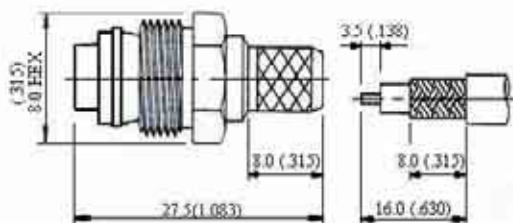
**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U	NOTES
FME-1104-TGN	58, 58A, 141A	L = 23,5 mm
FME-1105-TGN	174, 188A, 316	L = 21,5 mm

#### Straight Jack Crimp (FME) ( SAP )



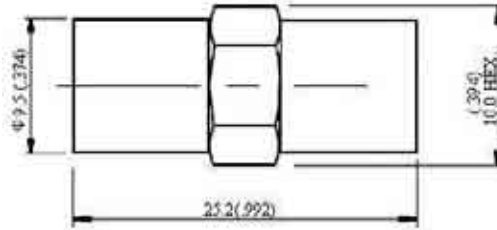
PART NO.	APPLICABLE CABLE RG/U
FME-1201-DGN	58, 58A, 141A
FME-1202-DGN	174, 188A, 316

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

**FME - Adapters**

**FME Plug - FME Plug (FME) (SAP)**

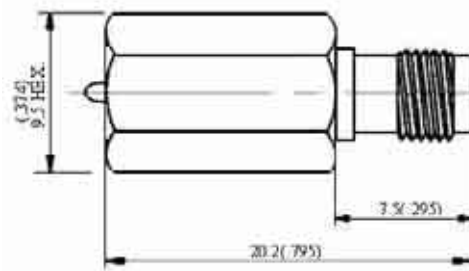


PART NO. \_\_\_\_\_  
FME-601-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

**FME Plug - SMA - Jack (FME) (SAP)**

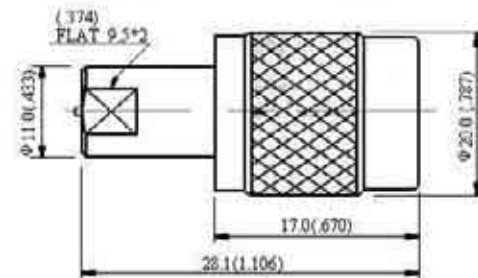


PART NO. \_\_\_\_\_  
FME-602-TGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**FME Plug - N Plug (FME) (SAP)**

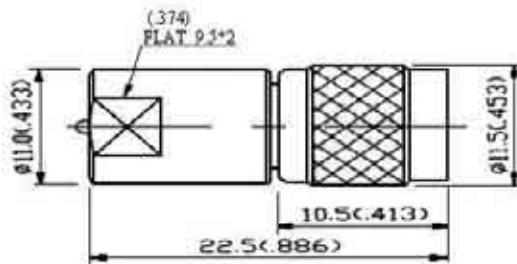


PART NO. \_\_\_\_\_  
FME-603-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

**FME Plug - Mini-UHF Plug (FME) (SAP)**

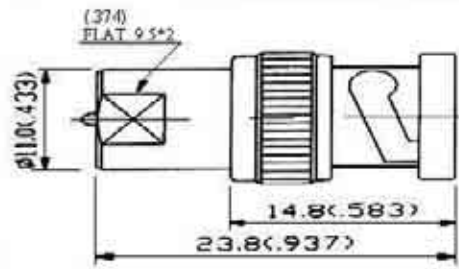


PART NO. \_\_\_\_\_  
FME-604-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## FME Plug - BNC Plug (FME) (SAP)

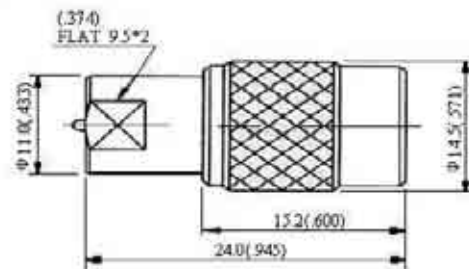


PART NO.  
FME-605-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## FME Plug - TNC Plug (FME) (SAP)

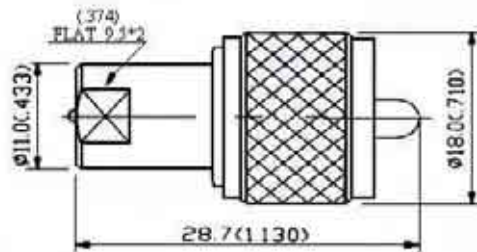


PART NO.  
FME-606-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## FME Plug - UHF Plug (FME) (SAP)

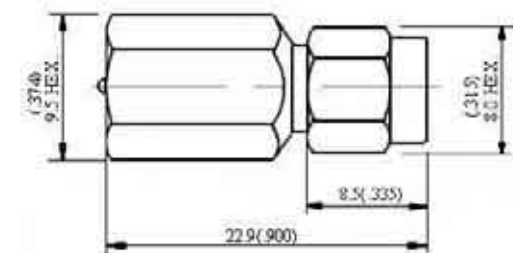


PART NO.  
FME-607-DGN

**Description:**  
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## FME Plug - SMA Plug (FME) (SAP)



PART NO.  
FME-608-TGN

**Description:**  
Adapters(FME)(SAP)

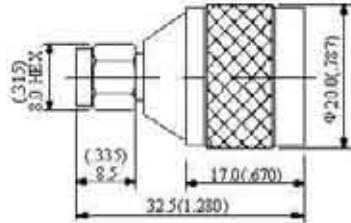
Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## BETWEEN SERIES ADAPTERS

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### SMA to N Adapters

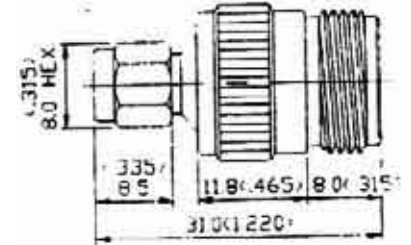
#### SMA Plug - N Plug



PART NO.  
SMAp-Np-601-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

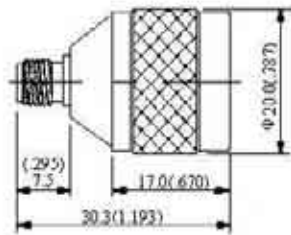
#### SMA Plug – N Jack



PART NO.  
SMAp-Nj-602-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

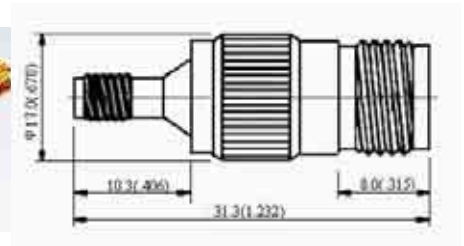
#### SMA Jack - N Plug



PART NO.  
SMAj-Np-603-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

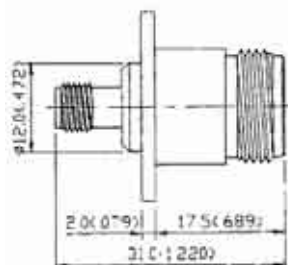
#### SMA Jack - N Jack



PART NO.  
SMAj-Nj-604-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

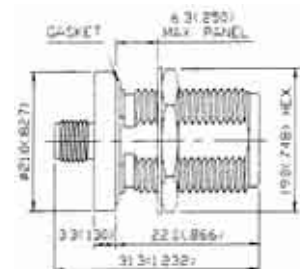
#### SMA Jack – N Jack Panel



PART NO.  
SMAj-Njp-605-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

#### SMA Jack – N Jack Bulkhead



PART NO.  
SMAj-Njb-606-TGN

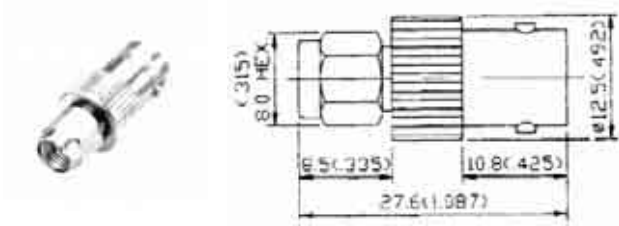
Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

# BETWEEN SERIES ADAPTERS



## SMA to BNC Adapters

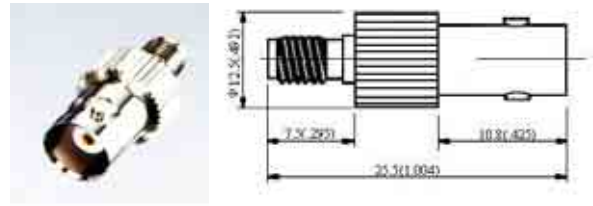
### SMA Plug – BNC Jack



PART NO.  
SMAp-BNCj-607-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

### SMA Jack - BNC Jack

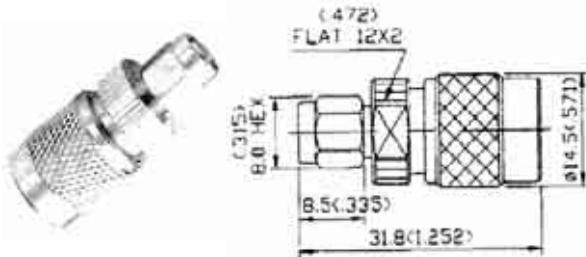


PART NO.  
SMAj-BNCj-608-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## SMA to TNC Adapters

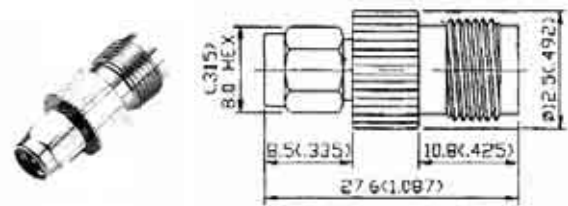
### SMA Plug – TNC Plug



PART NO.  
SMAp-TNCp-609-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

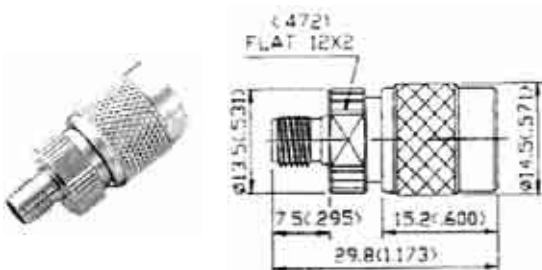
### SMA Plug – TNC Jack



PART NO.  
SMAp-TNCj-610-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

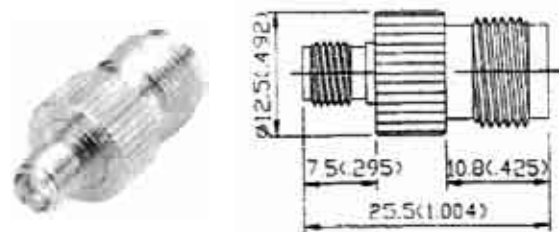
### SMA Jack – TNC Plug



PART NO.  
SMAj-TNCp-611-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

### SMA Jack – TNC Jack



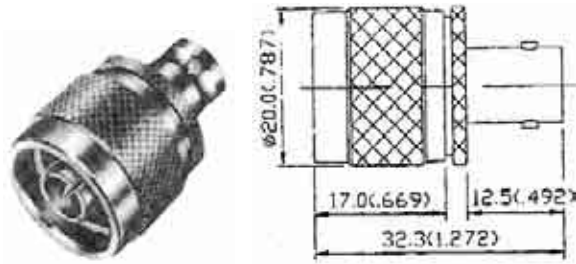
PART NO.  
SMAj-TNCj-612-TGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon



## N to BNC Adapters

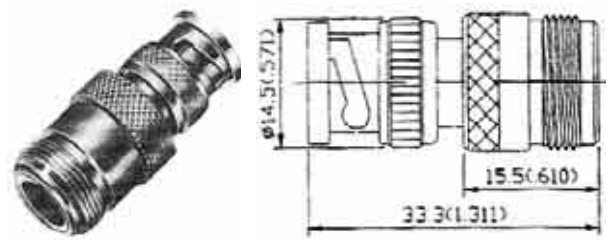
### N Plug – BNC Jack



PART NO.  
Np-BNCj-613-DGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

### N Jack – BNC Plug

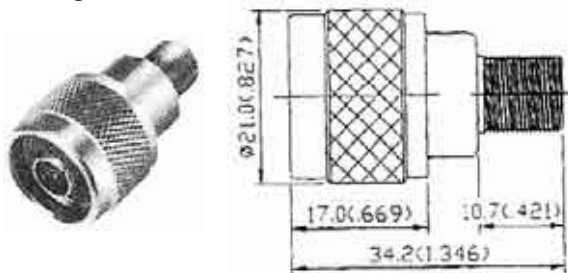


PART NO.  
Nj-BNCp-614-DGN

Finish: Gold plated center contact & nickel plated body  
Insulation: Delrin

## N to F Adapters

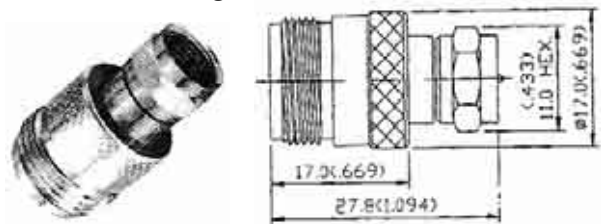
### N Plug – F Jack



PART NO.  
Np-Fj-615-TGN (75 ohm)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

### N Jack – F Plug

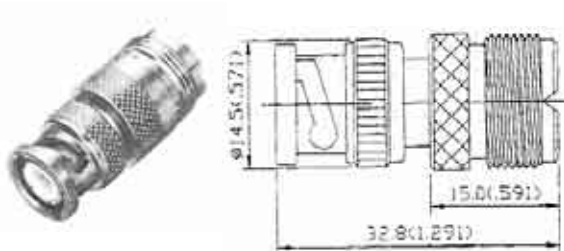


PART NO.  
Nj-Fp-616-TGN (75 ohm)

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## BNC to UHF Adapters

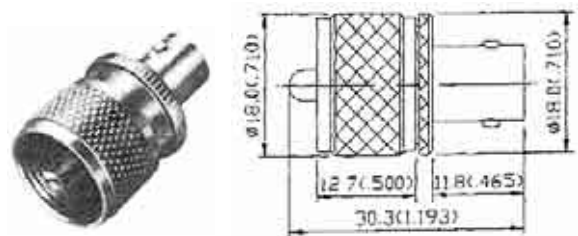
### BNC Plug – UHF Jack



PART NO.  
BNCp-UHFj-617-DNN

Finish: Gold plated center contact & body  
Insulation: Delrin

### BNC Jack – UHF Plug



PART NO.  
BNCj-UHFp-618-DNN

Finish: Gold plated center contact & body  
Insulation: Delrin

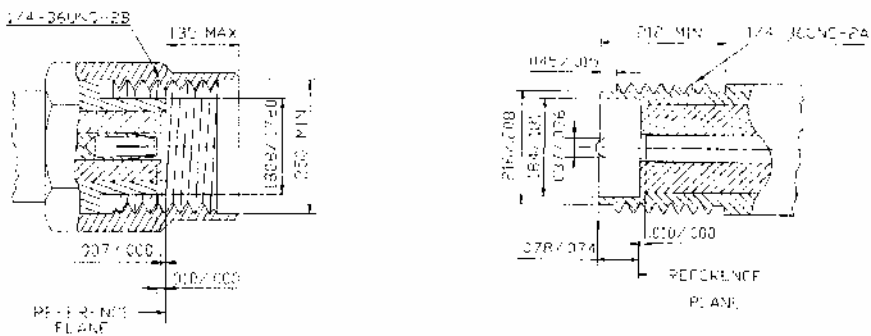
## REVERSE POLARITY CONNECTORS

(SMA, BNC, TNC)

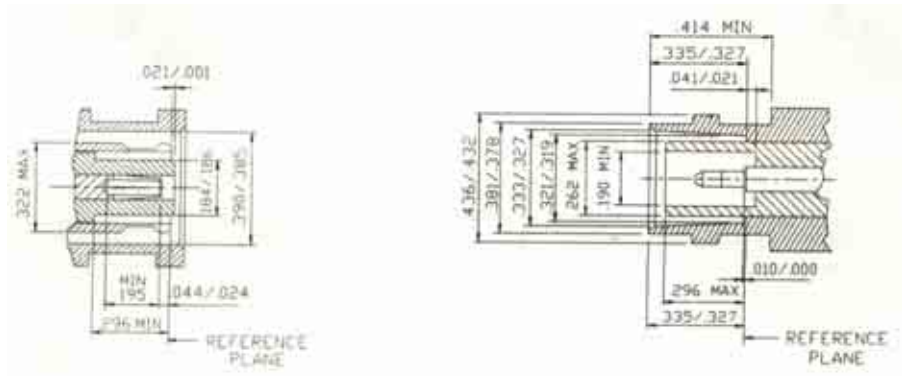
Reverse Polarity non-standard interface connectors are designed for spread spectrum wireless applications where part 15.203 of U. S. FCC regulations are applicable. The reverse polarity design prevents damage and will not mate with standard interface devices if accidentally connected. SMA, BNC and TNC devices are readily available. Standard cable affixment sizes are available with special or custom design inquires accepted.

### INTERFACE DIMENSIONS:

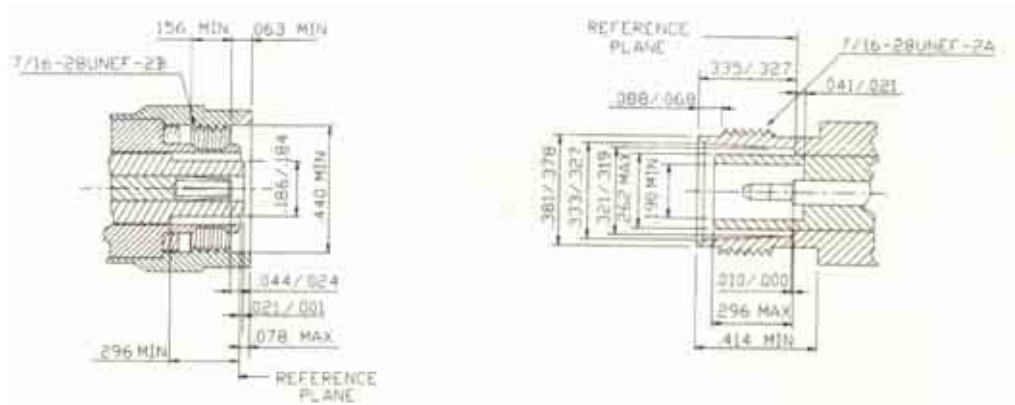
#### Reverse Polarity SMA:



#### Reverse Polarity BNC:



#### Reverse Polarity TNC:



Notes: Unit of "Inch"

## Reverse Polarity SMA:

### Electrical:

<b>Impedance</b>	50 ohm	
<b>Frequency Range</b>	0 to 18.0 GHz <ul style="list-style-type: none"> <li>for RG – 402 &amp; RG – 405 semi-rigid cable – 8 to 18.0 GHz</li> <li>for flexible cable → max operation frequency of cable per MIL-C-17</li> </ul>	
<b>VSWR</b>	Semi-rigid Cable <ul style="list-style-type: none"> <li>1.05 + 0.005 x f GHz max (straight)</li> <li>1.15 + 0.015 x f GHz max (right angle)</li> </ul>	Flexible Cable <ul style="list-style-type: none"> <li>1.15 + 0.01 x f GHz max (straight)</li> <li>1.18 + 0.02 x f GHz max (right angle)</li> </ul>
<b>Voltage Rating</b>	375 volts rms	
<b>Dielectric Withstanding Voltage</b>	1000 volts rms	
<b>Insertion Loss</b>	.04 dB maximum X $\sqrt{f}$ GHz (straight); 0.6 dB maximum X $\sqrt{f}$ GHz (right angle)	
<b>Insulation Resistance</b>	5,000 Megohms min	

### Mechanical & Environmental:

<b>Mating</b>	1/4" – 36 threaded coupling
<b>Durability</b>	500 matings
<b>Coupling Nut Retention</b>	Min 60 lbs
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min; RG – 174, 188, 316 → 20 lbs min
<b>Temperature Range</b>	-65 °C to 165 °C

### Material:

	<b>Material</b>	<b>Plating</b>
<b>Connector Body</b>	Brass	Nickel or Gold
<b>Center Contact</b>	Male: Brass Female: Beryllium Copper	Gold
<b>Insulation</b>	Teflon	None
<b>Gasket</b>	Silicone Rubber	None
<b>Crimp Ferrule</b>	Annealed Copper	Same as Body

## Reverse Polarity BNC, TNC:

### Electrical:

<b>Impedance</b>	BNC: 50 ohm	TNC: 50 ohm
<b>Frequency Range</b>	BNC: 0 – 4 GHz	TNC: 0 – 11 GHz
<b>VSWR</b>	1.3 max	
<b>Voltage Rating</b>	500 volts rms	
<b>Dielectric Withstanding Voltage</b>	1,5000 volts rms	
<b>Insertion Loss</b>	.2 dB max @ 3 GHz	
<b>Insulation Resistance</b>	5,000 Megohms min	

### Mechanical & Environmental:

<b>Mating</b>	BNC: Two stud bayonet coupling	TNC: 7/16" – 28 thread coupling
<b>Durability</b>	500 matings	
<b>Coupling Nut Retention</b>	100 lbs min	
<b>Cable Retention</b>	RG – 58, 141, 142, 223 → 40 lbs min; RG – 59, 62A, 210 → 40 lbs min;	

# REVERSE POLARITY CONNECTORS



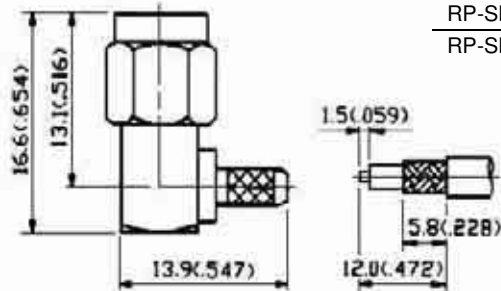
	RG – 174, 188, 316 → 20 lbs min
Temperature Range	-65 °C to 85 °C

**Material:**

	Material	Plating
Connector Body	Brass	Nickel
Center Contact	Male: Brass Female: Brass or Phosphor Bronze	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

**Right Angle Plug Crimp ( RP-SMA )**

PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1101-TGG	58, 58A, 141A
RP-SMA-1102-TGG	174, 188A, 316
RP-SMA-1103-TGG	142B/U

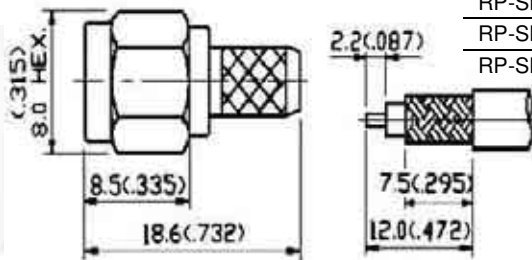


**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Plug Crimp ( RP-SMA )**

PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1104-TGG	58, 58A, 141A
RP-SMA-1105-TGG	174, 188A, 316
RP-SMA-1106-TGG	142B/U

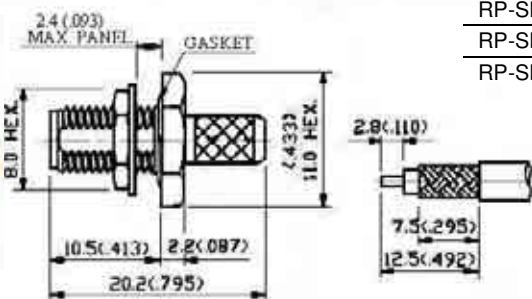


**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack Crimp ( RP-SMA )**

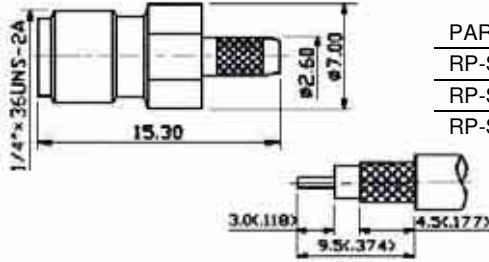
PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1207-TGG	58, 58A, 141A
RP-SMA-1208-TGG	174, 188A, 316
RP-SMA-1209-TGG	142B/U



**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack Crimp ( RP-SMA )**

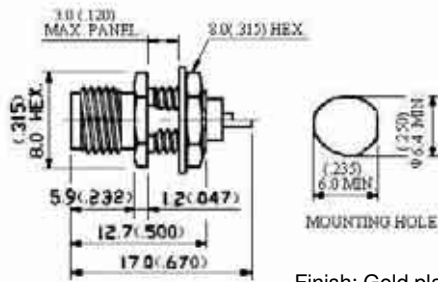


PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1210-TGG	58, 58A, 141A
RP-SMA-1211-TGG	174, 188A, 316
RP-SMA-1212-TGG	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Bulkhead Jack Receptacle ( Front Mount ) ( RP-SMA )**

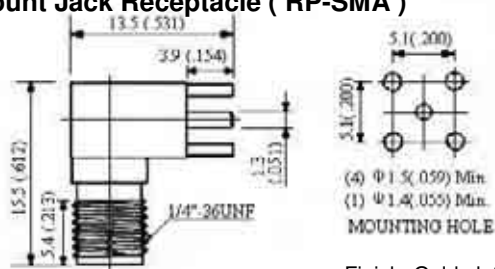


PART NO.
RP-SMA-4201-TGG

**Description:**  
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Right Angle PCB Mount Jack Receptacle ( RP-SMA )**

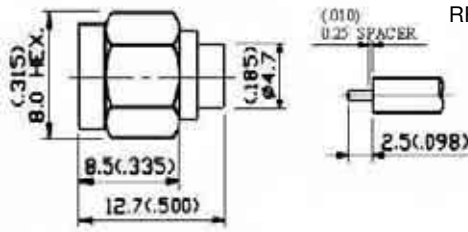


PART NO.
RP-SMA-5201-TGG

**Description:**  
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Straight Plug ( RP-SMA )**

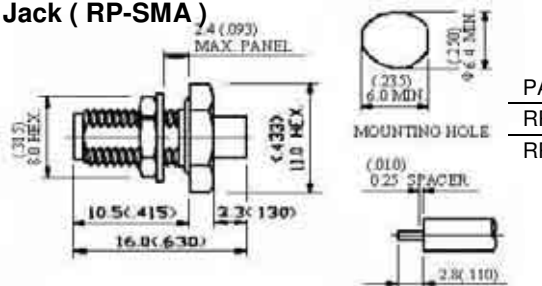


PART NO.	APPLICABLE CABLE RG/U
RP-SMA-7101-TGG	RG 402/u (.141")
RP-SMA-7102-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable Direct Solder Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

**Right Bulkhead Jack ( RP-SMA )**



PART NO.	APPLICABLE CABLE RG/U
RP-SMA-7103-TGG	RG 402/u (.141")
RP-SMA-7104-TGG	RG 405/u (.085")

**Description:**  
For Semi-Rigid Cable Direct Solder Attachment

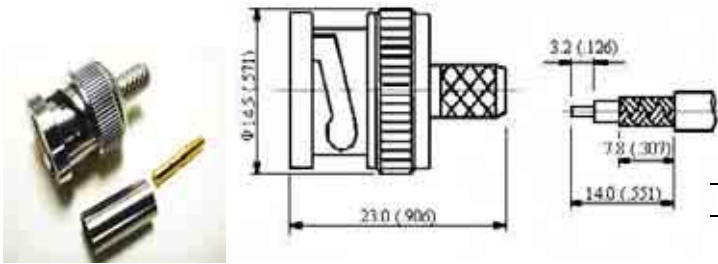
Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon



# REVERSE POLARITY CONNECTORS



## Straight Plug Crimp ( RP-BNC )

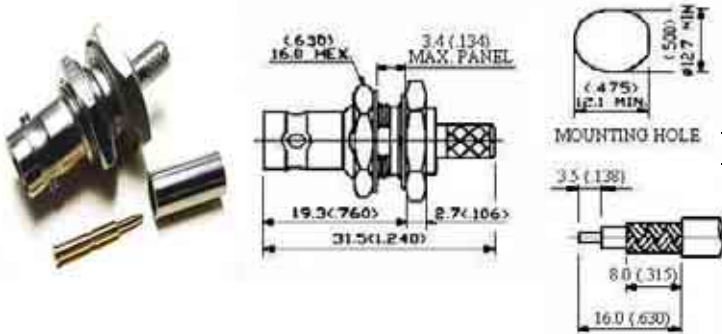


PART NO.	APPLICABLE CABLE RG/U
RP-BNC-1101-TGN	58, 58A, 141A
RP-BNC-1102-TGN	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Bulkhead Jack Crimp ( RP-BNC )

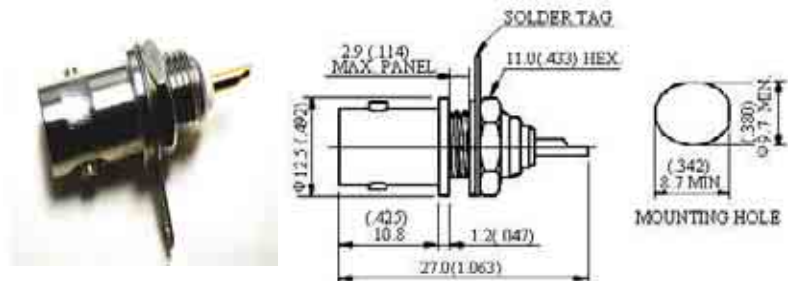


PART NO.	APPLICABLE CABLE RG/U
RP-BNC-1203-TGN	58, 58A, 141A
RP-BNC-1204-TGN	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Bulkhead Jack Receptacle ( RP-BNC )

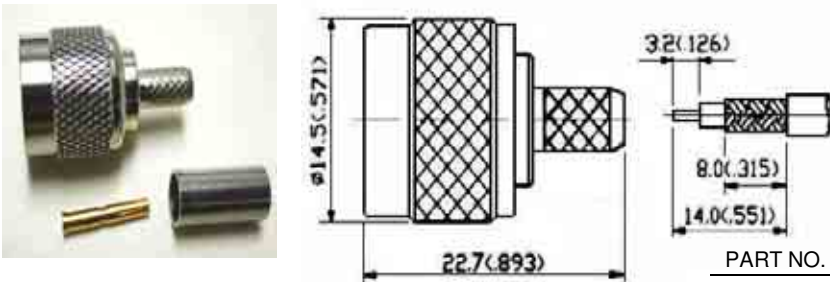


PART NO.
RP-BNC-4201-TGN

**Description:**  
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Plug Crimp ( RP-TNC )



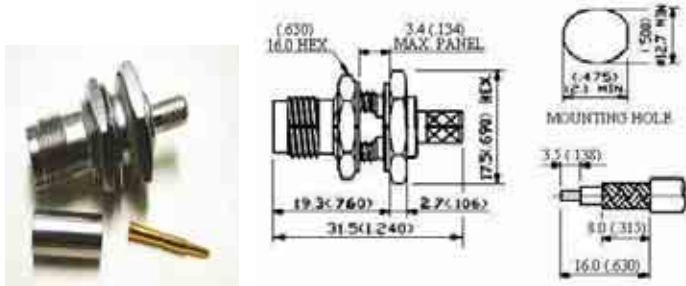
PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1101-TGN	58, 58A, 141A
RP-TNC-1102-TGN	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon



## Straight Bulkhead Jack Crimp ( RP-TNC )

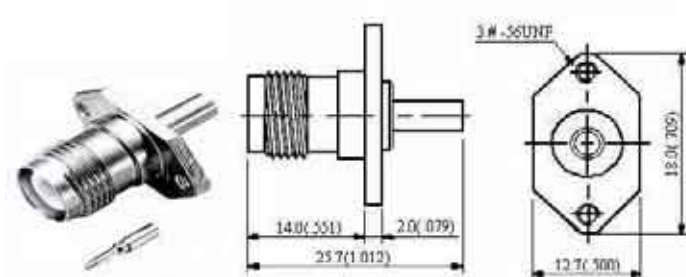


PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1203-TGN	58, 58A, 141A
RP-TNC-1204-TGN	142B/U

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## 2 Hole Flange Jack Crimp ( RP-TNC )

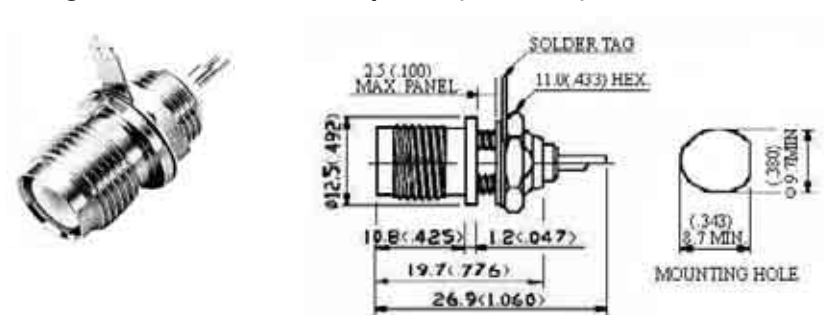


PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1205-TGN	178, 196

**Description:**  
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## Straight Bulkhead Jack Receptacle ( RP-TNC )



PART NO.
RP-TNC-4201-TGN

**Description:**  
Bulkhead Receptacle

Finish: Gold plated center contact & nickel plated body  
Insulation: Teflon

## CABLE ASSEMBLIES

### SMA SERIES

#### SMA Right Angle Plug to Right Angle Plug



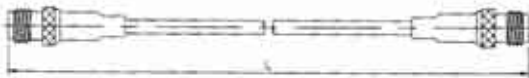
PART NO.	CONNECTORS	CABLE
SM-0001-174-XXXX	SMA-1101-TGG BOTH ENDS	174/U
SM-0002-316-XXXX	SMA-1102-TGG BOHT ENDS	316/U
SM-0003-58-XXXX	SMA-1101-TGG BOHT ENDS	58C/U

#### SMA Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	SMA-1105-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	SMA-1105-TGG BOHT ENDS	316/U
SM-0006-58-XXXX	SMA-1104-TGG BOHT ENDS	58C/U

#### SMA Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0008-174-XXXX	SMA-1208-TGG BOTH ENDS	174/U
SM-0009-316-XXXX	SMA-1208-TGG BOHT ENDS	316/U
SM-00010-58-XXXX	SMA-1207-TGG BOHT ENDS	58C/U

### SMB SERIES

#### SMB Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0001-174-XXXX	SMB-1101-TGG BOTH ENDS	174/U
SM-0002-316-XXXX	SMB-1101-TGG BOHT ENDS	316/U
SM-0003-178-XXXX	SMB-1102-TGG BOHT ENDS	178/U

#### SMB Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	SMB-1203-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	SMB-1203-TGG BOHT ENDS	316/U
SM-0006-178-XXXX	SMB-1204-TGG BOHT ENDS	178/U

#### SMB Right Angle Plug to Right Angle Plug



PART NO.	CONNECTORS	CABLE
SM-0007-174-XXXX	SMB-1107-TGG BOTH ENDS	174/U
SM-0008-316-XXXX	SMB-1107-TGG BOHT ENDS	316/U
SM-0009-178-XXXX	SMB-1108-TGG BOHT ENDS	178/U

### MCX SERIES

#### MCX Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0002-174-XXXX	MCX-1101-TGG BOTH ENDS	174/U
SM-0003-316-XXXX	MCX-1101-TGG BOHT ENDS	316/U

#### MCX Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	MCX-1203-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	MCX-1203-TGG BOHT ENDS	316/U

## MCX Right Angle Plug to Right Angle Plug



PART NO.	CONNECTORS	CABLE
SM-0006-174-XXXX	MCX-1105-TGG BOTH ENDS	174/U
SM-0007-316-XXXX	MCX-1105-TGG BOHT ENDS	316/U

## MCX PCB Cable Terminal



PART NO.	CONNECTORS	CABLE
SM-0008-174-XXXX	MCX-5003-TGG ONE END	174/U
SM-0009-316-XXXX	MCX-5003-TGG ONE END	316/U

## TNC SERIES

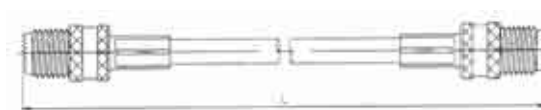
### TNC Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0002-58-XXXX	TNC-1101-DGN BOTH ENDS	58C/U
SM-0003-58-XXXX	TNC-1101-DGBC BOHT ENDS	58C/U

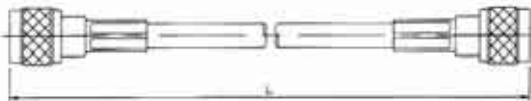
## Mini-UHF SERIES

### Mini-UHF Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0003-58-XXXX	Mini-UHF-1201-DGN BOHT ENDS	58C/U
SM-0004-174-XXXX	Mini-UHF-1201-DGN BOTH ENDS	174/U

### Mini-UHF Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0005-58-XXXX	Mini-UHF-1104-DGN BOTH ENDS	58C/U
SM-0006-174-XXXX	Mini-UHF-1109-DGN BOHT ENDS	174/U
SM-0007-58-XXXX	Mini-UHF-1104-DGBC BOTH ENDS	58C/U
SM-0008-174-XXXX	Mini-UHF-1109-DGBC BOTH ENDS	174/U

## FME (SAP) SERIES

### FME Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0001-58-XXXX	FME-1201-DGN BOTH ENDS	58C/U
SM-0002-174-XXXX	FME-1202-DGN BOHT ENDS	174/U
SM-0015-58-XXXX	FME-1201-DGBC BOTH ENDS	58C/U
SM-0009-174-XXXX	FME-1202-DGBC BOTH ENDS	174/U

### FME Straight Plug (One End)



PART NO.	CONNECTORS	CABLE
SM-0003-174-XXXX	FME-1104-TGN ONE END	174/U

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