

# Catalogue

Since 1997



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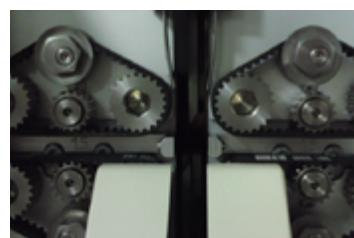
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**EnterTec Technology Inc. was established in 1997, located in Taipei Tucheng Industrial Zone. We specialize in developing, manufacturing and marketing RF connector and cable assembly and offer an experienced and flexible custom manufacturing service that meet international professional certifications such as RoHS, REACH, PFOS, PFOA, ODS and IMDS quality mark.**

For company operational management, both the quality management and customer satisfaction degree conform to international standard organization ISO 9001 quality management system certification.

With product's superiority, EnterTec offers better research energy and service to customer, from whom we get the recognition and identification.

With the technology development, quality management, service efficiency and business rapid growth, the business scope has spread to Dongguan, Mainland China in 2004 and new factory was built in Taipei Tucheng significantly in 2008. The further international service network is going to expend to Europe, USA, Asia, and Middle East.



EnterTec is a professional, sincere and effective service company. EnterTec will be your most reliable partner and choice!

**certified by:**

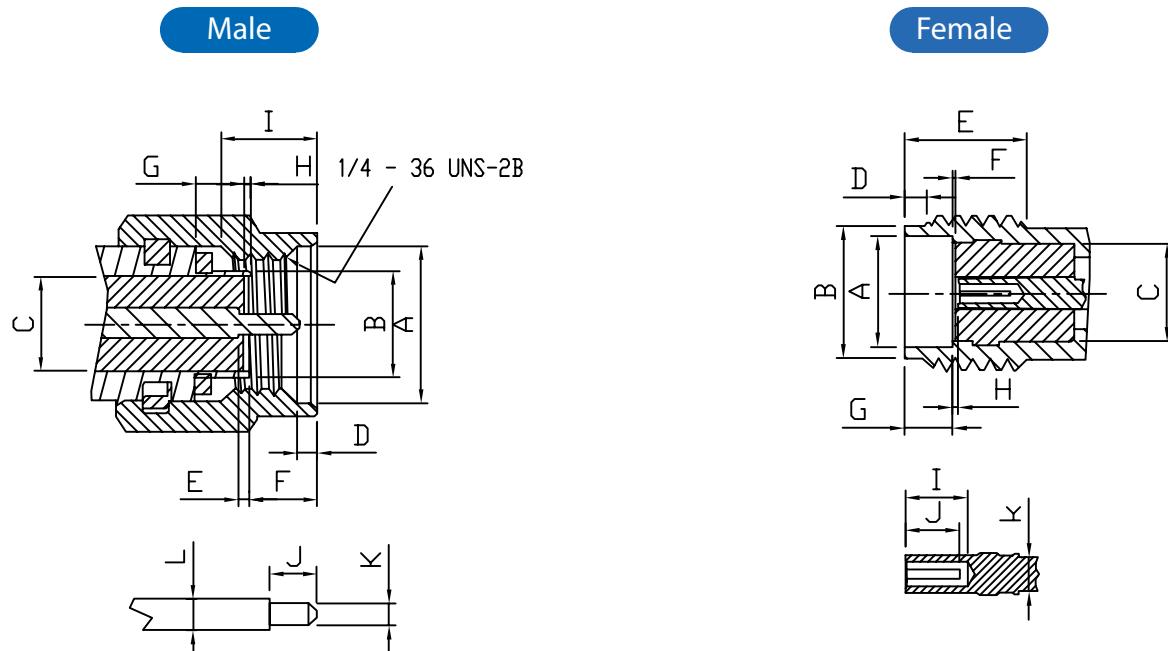
**ISO 9001 ROHS REACH IMDS PFOA PFOS ODS**

Global Sources  Verified Supplier ★★★★★

**SMA connectors are precision connectors for microwave application up to 18 GHz and higher. the high mechanical strength, high durability and low VSWR indicate the characters. Together with semi-rigid cable hi-grade lines can be installed. SMA receptacles(launchers) used to provide transition to coax from waveguide, form MIC-paks, and from stripline or microstrip on PCB.**



### Interface Mating Dimensions



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ6.48	Φ.225	Φ6.73	Φ.265
B	Φ4.34	Φ.171	Φ4.59	Φ.181
C	Φ4.10	Φ.162	Φ4.13	Φ.163
D	0.64	0.025	1.14	.045
E	0.00	.000	0.13	.005
F	2.59	.102	3.35	.132
G	2.03	0.08		
H	0.00	.000	0.25	.010
I	3.71	.146	4.32	.170
J	2.03	.080	2.29	.090
K	Φ0.90	Φ.036	Φ0.93	Φ.037
L	Φ1.25	Φ.049	Φ1.29	Φ.051

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ4.60	Φ.810	Φ4.67	Φ.184
B	Φ5.28	Φ.208	Φ5.49	Φ.216
C	Φ4.10	Φ.162	Φ4.13	Φ.163
D	0.38	.015	1.14	.045
E	3.81	.150		
F	0.00	.000	0.25	0.10
G	1.88	.074	1.98	.078
H	0.00	.000	0.25	.010
I	2.54	.100		
J	1.91	.075	2.41	.095
K	Φ1.25	Φ.049	Φ1.29	Φ.051
L	Φ0.94	Φ.037	Φ0.99	Φ.039

## Material / Finish:

	Material	Finish
Connector body	Brass per (QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per ( QQ-C-530 or JIS-C1730)	Gold plating
Sleeve	Brass per ( QQ-B-626 or JIS-C3604B )	Gold plating
Insulator	PTFE	None
Spring	Stainless steel	None
Nut	Brass per ( QQ-B-626 or JIS-C3604B )	Gold plating
Washer	Brass per ( QQ-B-626 or JIS-C3604B )	Same as body

## Electrical:

Nominal impedance	50Ω
Frequency up to	6 GHz
VSWR	<1.65
Working voltage	335 Volts rms.
Dielectric withstanding voltage	500 Volts rms
Insulation resistance	5000 MΩ min.
Contact resistance	center conductor 3.0 mΩ outer conductor 2.0 mΩ

## Mechanical & Environmental:

Mating	1/4"-36 UNS thread coupling
Durability	≥500 cycles
Temperature range	-55°C to +155°C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 05010103  
SMA(M) S/T Plug



P/N: 05010203  
SMA(M) S/T R/P Plug



P/N: 05010303  
SMA(M) R/A Plug



P/N: 05010403  
SMA(M) R/A R/P Plug



P/N: 05015103  
SMA(F) S/T Jack



P/N: 05014003  
SMA(F) S/T R/P Jack



P/N: 05011403  
SMA(F) S/T Bulkhead Jack



P/N: 05011503  
SMA(F) S/T R/P Bulkhead Jack



P/N: 05010503  
SMA(F) S/T Bulkhead Jack  
With O-Ring



P/N: 05010603  
SMA(F) S/T R/P Bulkhead Jack  
With O-Ring



P/N: 05018903  
SMA(F) R/A Jack



P/N: 05019003  
SMA(F) R/A R/P Jack



P/N: 05011903  
SMA(F) R/A Bulkhead Jack



P/N: 05011603  
SMA(F) R/A R/P Bulkhead  
Jack



P/N: 05010903  
SMA(F) S/T Jack With Panel  
2-Hole SQ. Flange



P/N: 05011103  
SMA(F) S/T R/P Jack With  
Panel 4-HoleSQ. Flange

## PCB type



P/N:05365734  
SMA(M) S/T Plug For P.C.B  
Mount



P/N:05365834  
SMA(M) S/T R/P Plug For P.C.B  
Mount



P/N:05366534  
SMA(M) R/A Plug For P.C.B  
Mount



P/N:05501234  
SMA(M) R/A R/P Plug For P.C.B  
Mount



P/N:05492834  
SMA(F) S/T Jack For P.C.B  
Mount



P/N:05366234  
SMA(F) S/T R/P Jack For P.C.B  
Mount



P/N:05014134  
SMA(F) R/A Jack For P.C.B  
Mount



P/N:05496334  
SMA(F) R/A R/P Jack For P.C.B  
Mount



P/N:13360734  
SMA(F) S/T Bulkhead Jack For  
P.C.B Mount



P/N:06498034  
SMA(F) S/T R/P Bulkhead Jack  
For P.C.B Mount



P/N:05495134  
SMA(F) R/A Bulkhead Jack  
For P.C.B Mount



P/N:05014334  
SMA(F) R/A R/P Bulkhead  
Jack For P.C.B Mount



P/N:05366034  
SMA(M) S/T Plug For Edge  
Mount



P/N:05366134  
SMA(M) S/T R/P Plug For Edge  
Mount



P/N:05362734  
SMA(F) S/T Jack For Edge  
Mount



P/N:05362434  
SMA(F) S/T R/P Jack For Edge  
Mount



P/N:05499034  
SMA(F) S/T Bulkhead Jack For Edge Mount



P/N:13019334  
SMA(F) S/T R/P Bulkhead Jack For Edge Mount



P/N:10363434  
SMA(F) S/T Jack For Panel Mount



P/N:05365934  
SMA(F) S/T Bulkhead Jack For Panel Mount



P/N:05493634  
SMA(M) S/T Plug With Panel 2-Hole SQ. Flange For



P/N:05493534  
SMA(M) S/T Plug With Panel 4-Hole SQ. Flange For



P/N:05360934  
SMA(F) S/T Jack With Panel 2-Hole SQ. Flange For



P/N:05011134  
SMA(F) S/T Jack With Panel 4-Hole SQ. Flange For



P/N:05500934  
SMA(F) R/A Jack With Panel 4-Hole SQ. Flange For



P/N:06498034  
SMA(F) S/T R/P Bulkhead Jack For P.C.B Mount



P/N:05495134  
SMA(F) R/A Bulkhead Jack For P.C.B Mount



P/N:05014334  
SMA(F) R/A R/P Bulkhead Jack For P.C.B Mount



P/N:13018234  
SMA(F) S/T Jack For Top Mount

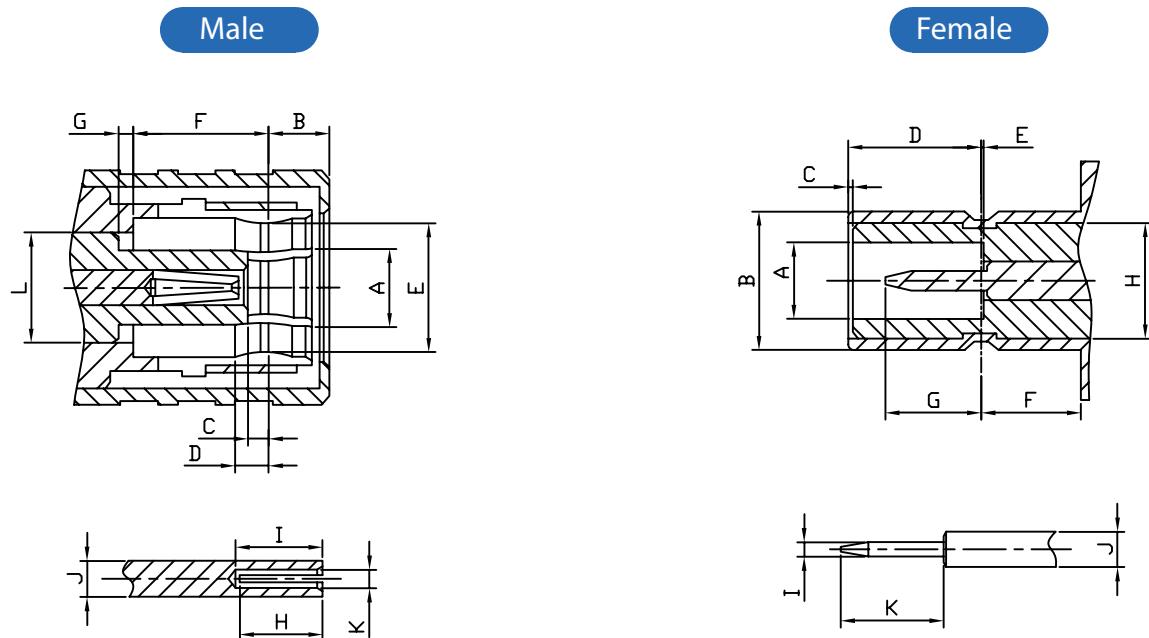


P/N:13018334  
SMA(F) R/A Bulkhead Jack For Top Mount

**SMB connectors are suitable for application from DC up to 4 GHz. respectively 4 GHz.  
SMB is quick connection/disconnection snap-on mating.**



### Interface Mating Dimensions



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.01	Φ.079	Φ2.06	Φ.081
B			1.63	.064
C	0.27	.011	0.52	.021
D	0.29	.012	0.57	.023
E	Φ3.40	Φ.134	Φ3.50	Φ.138
F	3.58	.141	0.60	.149
G	0.00	.000	0.62	.012
H	1.65	.065		
I	2.79	.110		
J	Φ1.00	Φ.039	Φ1.04	Φ.041
K	Φ0.56	Φ.022	Φ0.60	Φ.024
L	Φ3.05	Φ.120	Φ3.08	Φ.121

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.08	Φ.082	Φ2.16	Φ.085
B	Φ3.66	Φ.144	Φ3.71	Φ.146
C	0.04	.002	0.24	.010
D	3.48	.137	3.53	.139
E	0.05	.002		
F	1.65	.065		
G	2.39	.094	2.72	.107
H	Φ3.05	Φ.120	Φ3.0	Φ.121
I	Φ0.48	Φ.019	Φ0.53	Φ.021
J	Φ0.97	Φ.038	Φ0.99	Φ.039
K	2.51	.099	2.70	.103
L				

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body

## Electrical:

Nominal impedance	50Ω
Frequency up to	4.0 GHz
VSWR	1.25+0.05×f GHz
Working voltage	250 Volts rms.
Dielectric withstanding	750 Volts rms.
Insulation resistance	1000 MΩmin.
Contact resistance	Center conductor 6.0 MΩ
	Outer conductor 1.5 MΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	8 lbs typical
Engage fore	6.0 lbs MAX.
Disengage force	1.0 lbs MIN.
Durability	≥ 500 cycles
Temperature range	PTFE -55°C to +155°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Cable type

[View cable group](#)

P/N: 06050110  
SMB(F Contact) S/T Plug



P/N: 06050214  
SMB(F Contact) R/A Plug



P/N: 06050313  
SMB(M Contact) S/T Jack



P/N: 10050904  
SMB(M Contact) S/T Bulkhead Jack



P/N: 06053013  
SMB(M Contact) R/A Jack



P/N: 13050405  
SMB(M Contact) R/A Bulkhead Jack

## PCB type



P/N: 13051634  
SMB(F Contact) S/T Plug For P.C.B Mount



P/N: 06051934  
SMB(F Contact) R/A Plug For P.C.B Mount



P/N: 13055334  
SMB(M Contact) S/T Jack For P.C.B Mount



P/N: 13055634  
SMB(M Contact) S/T Bulkhead Jack For P.C.B Mount



P/N: 13053934  
SMB(M Contact) R/A Jack For Edge Mount



P/N: 13052334  
SMB(M Contact) S/T Jack For Top Mount



P/N: 13052434  
SMB(F Contact) S/T Plug For Top Mount

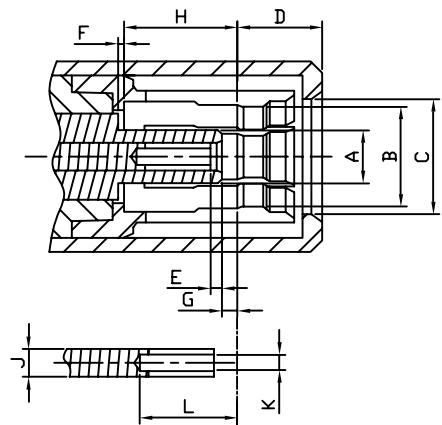
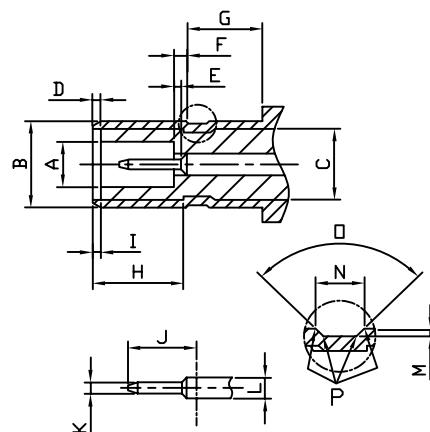


P/N: 13052534  
SMB(M Contact) S/T Jack For Top Mount

**SSMB has a snap-on coupling it is a miniaturized SMB connectors are designed for use where small, durable, light-weight interconnections are needed.**



### Interface Mating Dimensions

**Male**

**Female**


LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ1.30	Φ0.51	Φ1.35	Φ0.53
B	Φ2.46	Φ0.97	Φ2.51	Φ0.99
C	Φ2.74	Φ1.08	Φ3.21	Φ1.27
D			2.26	.089
E	0.00	.000	0.20	.008
F	0.00	.000	0.20	.008
G	0.43	.017	0.53	.021
H	2.74	.108	2.79	.110
I		Φ2.11	Φ0.83	
J	Φ0.63	Φ0.25	Φ0.68	Φ0.27
K	Φ0.45	Φ0.18	Φ0.50	Φ0.20
L	2.46	.097		
M				
N				
O				
P	Φ1.30	Φ0.51		

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ1.37	Φ.054	Φ1.42	Φ.056
B	Φ2.62	Φ.103	Φ2.68	Φ.106
C	Φ2.11			Φ.083
D	0.00	.000	0.50	.020
E	0.00	.000	0.13	.005
F	0.46	.018	0.56	.022
G	2.29	.090		
H	2.69	.106	2.74	.108
I	0.00	.000	0.13	.005
J			2.44	.096
K	Φ0.36	Φ0.14	Φ0.40	Φ0.16
L	Φ0.63	Φ0.25	Φ0.68	Φ0.27
M	0.05	.002	0.15	.006
N	0.64	.025	0.74	.029
O	9			
P	R 0.03		R 0.08	

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730) or Phosphor bronze per(QQ-B-750 or JIS-C5441B)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body
Gasket	Silicone rubber	None

## Electrical:

Nominal impedance	50Ω
Frequency up to	3.0 GHz
VSWR	1.25 max. at 1 GHz straight connector
	1.5 max. at 1 GHz right angle connector
Working voltage	250 Volts rms.
Dielectric withstanding	500 Volts rms.
Insulation resistance	500 MΩmin.
Contact resistance	Center conductor 6.0 MΩ Outer conductor 1.5 MΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	5 lbs typical
Durability	≥ 500 cycles
Engagement force	25 N max
Disengagement range	4.0 N min
Temperature range	-65°C to +165°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 13120113  
SSMB(F Contact) S/T Plug



P/N: 13123109  
SSMB(F Contact) R/A Plug



P/N: 13120313  
SSMB(M Contact) S/T Jack



P/N: 13122710  
SSMB(M Contact) R/A Jack



P/N: 13122019  
SSMB(F Contact) R/A Plug For  
Semi-Rigid/Flexible



P/N: 13123109  
SSMB(F Contact) S/T Plug  
(75 Ohm)

[PCB type](#)

P/N: 13122634  
SSMB(F Contact) S/T Plug For  
P.C.B Mount(75 Ohm)



P/N: 13122534  
SSMB(F Contact) R/A Plug For  
P.C.B Mount(75 Ohm)



P/N: 13122434  
SSMB(M Contact) S/T Jack For  
P.C.B Mount(75 Ohm)



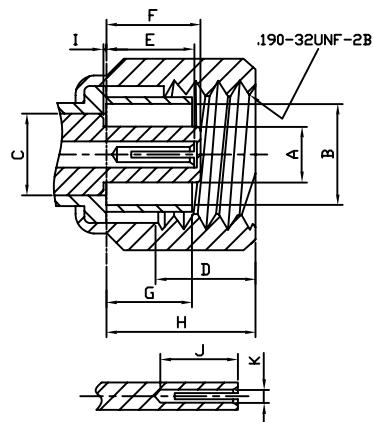
P/N: 13122334  
SSMB(M Contact) R/A Jack  
For P.C.B Mount(750hm)

**SMC connectors are suitable for application from DC up to 10 GHz, respectively 4 GHz.**

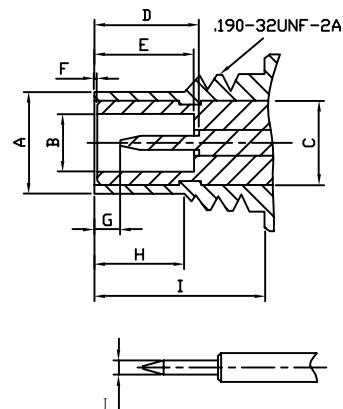


## Interface Mating Dimensions

Male



Female



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.01	Φ.079	Φ2.06	Φ.081
B	Φ3.73	Φ.147	Φ3.81	Φ.150
C	3.05	.120	3.07	.121
D	2.79	.110		
E	3.05	.120	3.10	.122
F	3.23	.127	3.40	.134
G	3.30	.130	3.40	.134
H			5.92	.233
I	0.00	.000	0.15	.006
J	2.79	.110		
K	Φ0.56	.022	Φ0.60	.024
L				

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ3.66	Φ.144	Φ3.71	Φ.146
B	Φ2.08	Φ.082	Φ2.16	Φ.085
C	Φ3.05	Φ.120	Φ3.07	Φ.121
D	3.40	.134	3.51	.138
E	3.40	.134	3.61	.142
F	0.00	.000	0.25	.010
G	0.79	.031		
H	3.12	.123	3.38	.133
I	5.94	.234		
J	Φ0.48	Φ.019	Φ0.53	Φ.039
K				
L				

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730) or Phosphor bronze per(QQ-B-750 or JIS-C5441B)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body
Gasket	Silicone rubber	None

## Electrical:

Nominal impedance	50Ω
Frequency up to	10 GHz
VSWR	1.25+0.05×f GHz
Working voltage	250 Volts rms.
Dielectric withstanding	750 Volts rms.
Insulation resistance	1000 MΩmin.
Contact resistance	Center conductor 6.0 MΩ Outer conductor 1.5 MΩ

## Mechanical & Environmental:

Mating	10-32 UNEF Thread coupling
Cable retention	10 lbs typical
Durability	≥ 500 cycles
Engagement force	≥ 25 lbs
Disengagement range	PTFE -65°C to -165°C
Temperature range	PTFE -65°C to -165°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 04110109  
SMC(F Contact) S/T Plug



P/N: 10110604  
SMC(F Contact) S/T Plug



P/N: 04110213  
SMC(F Contact) R/A Plug



P/N: 04110814  
SMC(F Contact) R/A Plug



P/N: 10110219  
SMC(F Contact) R/A Plug For  
Semi-Rigid/Flexible



P/N: 10110304  
SMC(M Contact) S/T Jack

[PCB type](#)

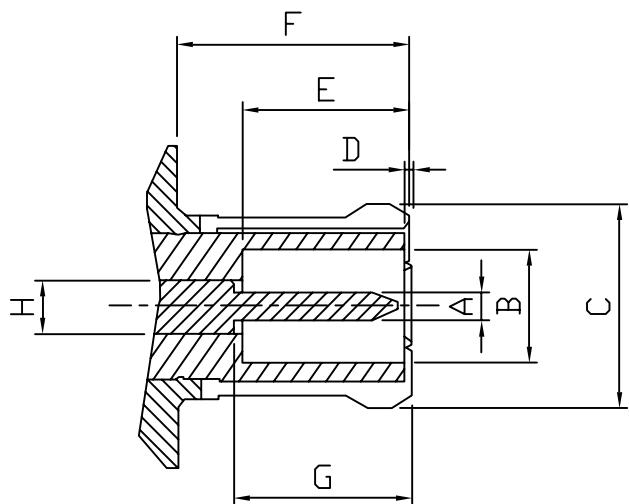
P/N: 06110734  
SMC(M Contact) R/A Jack For  
P.C.B Mount

**MCX micro miniature connectors have an essential space reduction against SMB. MCX connectors can be used from DC to 6GHz and higher. The features are high reliability and durability as well as ease of assembly to coaxial cable.**

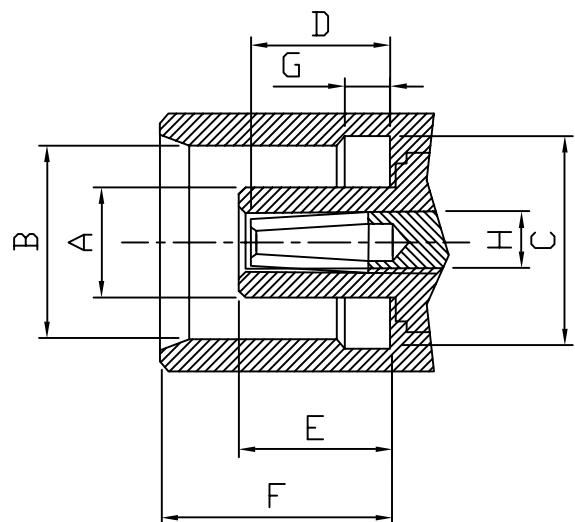


### Interface Mating Dimensions

Male



Female



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ0.48	Φ.019	Φ0.53	Φ.021
B	Φ2.00	Φ.079	Φ2.07	Φ.081
C	Φ3.66	Φ.144	Φ3.76	Φ.148
D	0.00	.000	0.30	.012
E	2.81	.111	3.20	.126
F	4.16	.164		
G	2.81	.111	3.20	.126
H	Φ0.94	Φ.037	Φ0.98	Φ.039

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ1.80	Φ.071	Φ1.97	Φ.076
B	Φ3.43	Φ.135	Φ3.48	Φ.137
C	Φ3.61	Φ.142	Φ3.75	Φ.148
D	2.31	.091	2.79	.110
E	2.61	.103	2.79	.110
F	4.00	.157	4.12	.162
G	0.75	.030	0.85	.033
H				

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730) or Phosphor bronze per(QQ-B-750 or JIS-C5441B)	
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body

## Electrical:

Nominal impedance	50 Ω
Frequency up to	6 GHz
VSWR	1.30 max. straight connector
Working voltage	250 Volts rms.
Dielectric withstanding voltage	500 Volts rms.
Insulation resistance	1000 MΩ min.
Contact resistance	Center conductor 5.0 MΩ Outer conductor 2.0 MΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	10 lbs typical
Engage force	≤ 25N
Disengage force	5 to 25 N
Durability	≥ 500 cycles
Temperature range	--65°C to +165°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body

## Electrical:

Nominal impedance	75Ω
Frequency up to	0~3 GHz
VSWR	<1.5
Working voltage	250 Volts rms.
Dielectric withstanding voltage	500 Volts rms.
Insulation resistance	1000 MΩ min.
Contact resistance	Center conductor 5.0 MΩ Outer conductor 2.0 MΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	35N typical
Engage force	25N max.
Disengage force	5 to 25 N
Durability	≥ 500 cycles
Temperature range	-55°C to +155°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B) JIS-C1730)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C1730)	Gold plating
Insulator	PTFE	None
Sleeve	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Spring	Stainless steel	None

## Electrical:

Nominal impedance	50 Ω
Frequency up to	3.0GHz
VSWR	1.40 max. at 2.5GHz
Working voltage	100 Volts rms.
Dielectric withstanding voltage	250 Volts rms.
Insulation resistance	5000 MΩ min.
Contact resistance	Center conductor 5.0 m Ω initial Outer conductor 3.0 m Ω initial

## Mechanical & Environmental:

Mating	Snap on coupling
Durability	≥ 500 cycles
Engagement force	10 N max.
Disengagement force	5 N min.
Temperature range	-45°C to +125°C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Shock	Per MIL-STD-202 Method 213 Test Condition I
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

## Cable type

[View cable group](#)

P/N: 13030204  
MCX(M) S/T Plug



P/N: 10110604  
MCX(M) S/T R/P Plug



P/N: 10030210  
MCX(M) S/T Plug(75 Ohm)



P/N: 41030105  
MCX(M) R/A Plug



P/N: 13036310  
MCX(M) R/A Plug (75 Ohm)



P/N: 13030313  
MCX(F) S/T Jack



P/N: 13033713  
MCX(F) R/A Jack



P/N: 13031913  
MCX(F) R/A Jack

## PCB type



P/N: 10030734  
MCX(M) S/T Plug For P.C.B  
Mount



P/N: 13034734  
MCX(M) R/A Plug For P.C.B  
Mount



P/N: 13031034  
MCX(F) S/T Jack For P.C.B  
Mount



P/N: 13036634  
MCX(F) S/T Jack For P.C.B  
Mount(75 Ohm)



P/N: 13037134  
MCX(F) R/A Jack For P.C.B  
Mount



P/N: 13037034  
MCX(F) S/T Jack For Top  
Mount



P/N: 41030934  
MCX(F) S/T Jack For Edge  
Mount



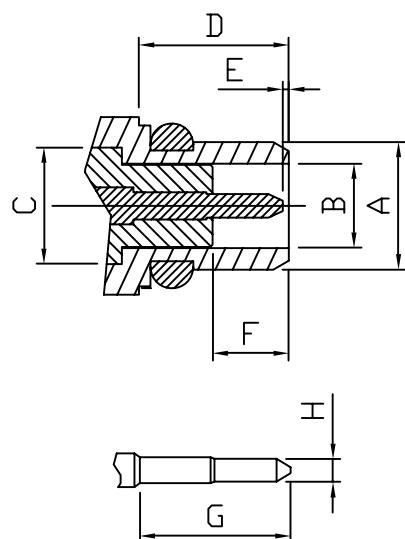
P/N: 13033234  
MCX(F) S/T Jack Switched  
Edge Card Receptacle

**MMCX connectors were developed for applications which require smallest dimensions. MMCX connectors can be used from DC up to 6GHz and higher. The locking consists of a snap-on mechanism. Also the non-slotted outer conductor the connection has a low Rf-leakage.**

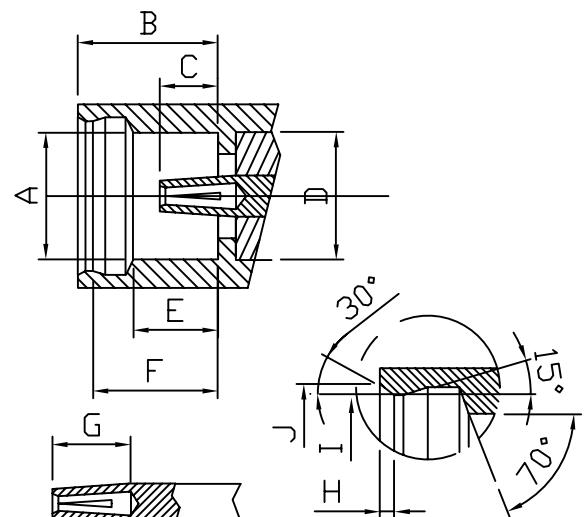


### Interface Mating Dimensions

Male



Female



LTR	Millimeters / Inches			
	Minimum		Maximum	
A			Φ2.39	Φ.094
B	Φ1.57	Φ.062	Φ1.63	Φ.064
C	Φ2.31	Φ.091	Φ2.36	Φ.092
D	2.69	.106		
E	0.00	.000	0.25	.100
F	1.45	.057		
G			3.15	.124
H	0.38	.015	0.43	.017
I				
J				

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.41	Φ.095		
B	2.59	.102		
C	0.89	.035	1.20	.047
D	Φ2.31	Φ.091	Φ2.36	Φ.093
E	1.57	.062	1.63	.064
F	2.28	.090	2.33	.092
G	1.40	.055		
H			0.23	.009
I	Φ2.87	Φ.113	Φ2.90	Φ.114
J	Φ3.00	Φ.118	Φ3.05	Φ.120

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730) or Phosphor bronze per(QQ-B-750 or JIS-C5441B)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body

## Electrical:

Nominal impedance	50 Ω
Frequency up to	6 GHz
VSWR	1.25 max.
Working voltage	125 Volts rms.
Dielectric withstanding voltage	500 Volts rms.
Insulation resistance	500 MΩ min.
Contact resistance	Center conductor 5.0 MΩ Outer conductor 2.5 MΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	10 lbs typical
Engage force	≤ 20N
Disengage force	5 to 20 N
Durability	≥ 500 cycles
Temperature range	--65°C to +165°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Material / Finish:

	Material	Finish
Connector body	Brass per ( QQ-B-626 or JIS-C3604B )	Gold plating
Center contact male	Brass per (QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per ( QQ-C-530 or JIS-C1730)	Gold plating
Insulator	PTFE	None
Spring	Stainless steel	Nickel plating
Side contact sub ass'y	Sumikasuper LCP	White

## Electrical:

Nominal impedance	50 Ω
Frequency up to	6 GHz
VSWR	<1.5
Insertion loss	<0.6dB
Dielectric withstanding voltage	500 Volts rms.
Insulation resistance	500 MΩ min.
Contact resistance	Center conductor 5.0 mΩ Outer conductor 2.5 mΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Engage force	≤ 2.5 kgf
Disengage force	0.5 to 2.5 Kgf
Durability	≤ 1000 cycles
Temperature range	-55k to +155k
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

## Cable type

[View cable group](#)

P/N: 13020313  
MMCX(M) S/T Plug



P/N: 41020304  
MMCX(M) S/T Plug



P/N: 41020113  
MMCX(M) R/A Plug



P/N: 10020204  
MMCX(M) R/A R/P Plug



P/N: 13020406  
MMCX(F) S/T Jack



P/N: 13021809  
MMCX(F) S/T Bulkhead Jack



P/N: 13024109  
MMCX(F) R/A Jack

## PCB type



P/N: 06024834  
MMCX(M) S/T Plug For P.C.B  
Mount



P/N: 13022334  
MMCX(M) R/A Plug For P.C.B.  
Mount



P/N: 13020734  
MMCX(M) S/T Plug For Edge  
Mount



P/N: 13025534  
MMCX(F) S/T Jack For P.C.B  
Mount



P/N: 41021134  
MMCX(F) R/A Jack For P.C.B.  
Mount



P/N: 13023234  
MMCX(F) S/T Jack Switch  
Edge Card Receptacle



P/N: 41025234  
MMCX(F) S/T Jack Switch  
Edge Card Receptacle



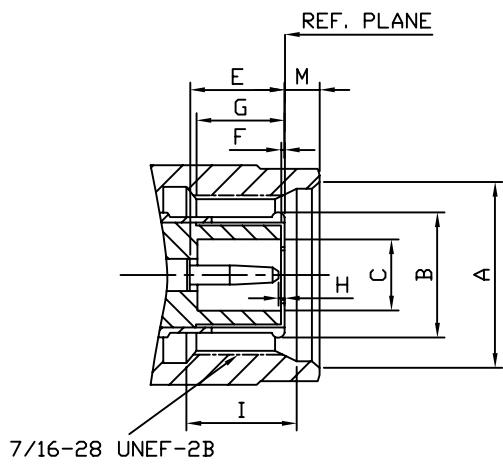
P/N: 10022404  
MMCX(F) R/A Jack For  
1.13mm And P.C.B Mount

**TNC connectors were developed for missile and aircraft application, also called the threaded version of the BNC. It's available in  $50\Omega$  and  $70\Omega$  types. TNC connectors can be used under higher environmental load than series BNC especially under vibration load.**

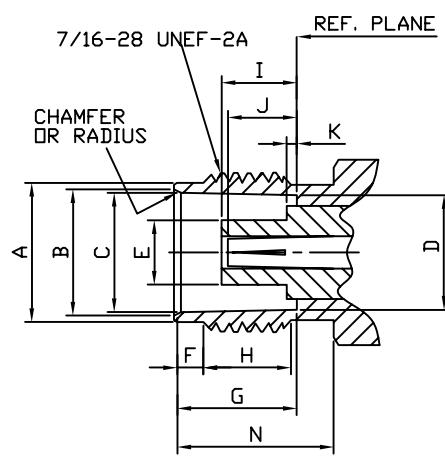


## Interface Mating Dimensions

Male



Female



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	$\phi 11.18$	$\phi .440$		
B	$\phi 7.93$	$\phi .312$	$\phi 8.12$	$\phi .319$
C	$\phi 4.83$	$\phi .190$		
D	$\phi 1.32$	$\phi .052$	$\phi 1.37$	$\phi .054$
E	5.33	.210	5.84	.230
F	0.15	.006		
G	5.28	.208	5.79	.228
H	0.08	.003	1.02	.040
I	3.96	.156		
J	2.06	.081	2.21	.087
K	1.98	.078		
L			0.64	.025
M			1.98	.078
N				

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	$\phi 9.60$	$\phi .378$	$\phi 9.68$	$\phi .381$
B	$\phi 8.79$	$\phi .346$	$\phi 9.04$	$\phi .356$
C	$\phi 8.31$	$\phi .327$	$\phi 8.46$	$\phi .333$
D	$\phi 8.10$	$\phi .319$	$\phi 8.15$	$\phi .321$
E			$\phi 4.72$	$\phi .186$
F	1.73	.068	2.24	.088
G	8.31	.327	8.51	.335
H	4.75	.187		
I	4.78	.188	5.28	.208
J	4.72	.186	5.23	.206
K			0.15	.006
L	4.95	.195		
M	2.06	.081	2.21	.087
N	10.52	.414		

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C1730) or Phosphor bronze per(QQ-B-750 or JIS-C5441B)	Gold plating
Insulator	PTFE or P.P.	None
Crimp ferrule	Annealed copper	Same as body
Gasket	Silicone rubber	None

## Electrical:

Nominal impedance	50 Ω
Frequency up to	11 GHz
VSWR	1.25 max.
Working voltage	500 Volts rms.
Dielectric withstanding voltage	1500 Volts rms.
Insulation resistance	5000 MΩ min.
Contact resistance	center conductor 4.0 mΩ outer conductor 1.5 mΩ

## Mechanical & Environmental:

Mating	7/16"-28UNEF thread coupling
Cable retention	40 lbs typical
Durability	≥ 500 cycles
Disengagement range	≥50 lbs
Temperature range	P.P. -45°C to +85°C ,PTEF -65°C to +165°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 41080113  
TNC(M) S/T Plug



P/N: 06080226  
TNC(M) S/T Plug Clamp



P/N: 41081125  
TNC(M) S/T R/P Plug



P/N: 06080313  
TNC(M) R/A Plug



P/N: 06080421  
TNC(M) R/A Plug Clamp



P/N: 41082413  
TNC(F) S/T Jack



P/N: 06082625  
TNC(F) S/T R/P Jack



P/N: 41080709  
TNC(F) S/T Bulkhead Jack  
With O-Ring



P/N: 41080806  
TNC(F) S/T R/P Bulkhead Jack  
With O-Ring



P/N: 13083004  
TNC(F) S/T Jack With Panel  
4-Hole SQ. Flange



P/N: 13083613  
TNC(F) S/T Bulkhead Jack  
Front Mount Clamp With



P/N: 04083513  
TNC(F) S/T Bulkhead Jack  
Front Mount With O-Ring



P/N: 13083613  
TNC(F) S/T Bulkhead Jack  
Front Mount Clamp With

## PCB type



P/N: 06081334  
TNC(F) R/A Jack For P.C.B  
Mount



P/N: 06083334  
TNC(F) R/A Jack For P.C.B  
Mount

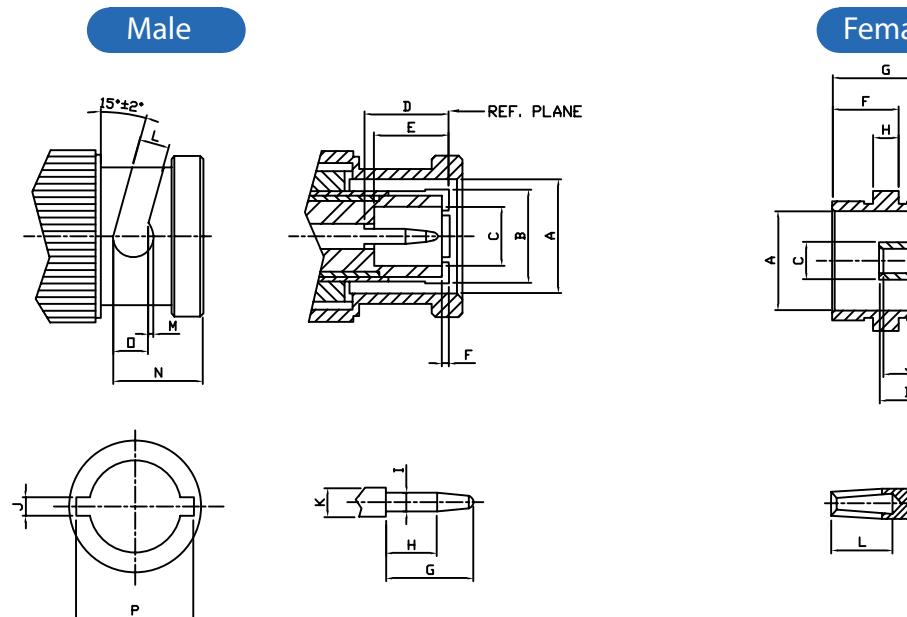


P/N: 06083734  
TNC(F) R/A Bulkhead Jack For  
P.C.B Mount

**BNC connectors are the RF connectors most frequently used in electronics and network worldwide. BNC connectors are applicable from DC up to 4 GHz with  $50\Omega$  and from DC up to 1 GHz with  $75\Omega$  characteristics impedance.**



### Interface Mating Dimensions



COUPLING MECHANISM DETAIL

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ9.78	Φ.385	Φ9.91	Φ.390
B	Φ7.92	Φ.312	Φ8.10	Φ.319
C	Φ4.83	Φ.192		
D	.5.33	.209	.5.84	.230
E	.5.28	.208	.5.79	.228
F	.015	.006		
G	4.32	.170	5.80	.228
H	1.98	.077		
I	Φ1.32	Φ.052	Φ1.37	Φ.054
J	2.31	.091	4.88	.192
K	1.40	.055	2.46	.097
L	2.31	.091	2.46	.097
M	0.46	.018	0.56	.022
N	4.57	.180	4.67	.184
O	3.15	.124		
P	11.76	.463	12.01	.473

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ8.31	Φ.0327	Φ8.51	Φ.335
B	Φ8.10	Φ.319	Φ8.15	Φ.321
C			Φ4.72	Φ.186
D	Φ9.60	Φ.378	Φ9.68	Φ.381
E			0.15	.006
F	5.18	.204	5.28	.208
G	8.31	.327	8.51	.335
H	1.91	.075	2.0	.081
I	4.78	.188	5.28	.208
J	4.72	.186	5.23	.206
K	2.06	.081	2.21	.087
L	4.95	.194		
M				
N				
O				
P				

## Material / Finish:

Impedance	50 Ohm	75 Ohm
Frequency Range	0-4 GHz	0-1 GHz
Working Voltage	500 VRMS max.	500 VRMS max.
Dielectric Withstanding Voltage	1500 VRMS min.	1500 VRMS min.
VSWR	Straight	1.3 max.
	Right Angle	1.5 max.
Contact Resistance	Center Contact	3 Milliohms max.
	Outer Contact	2 Milliohms max.
Insulator Resistance	5000 Megohms min.	5000 Megohms min.

## Electrical:

Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 3 micro-inches
	Female: Phosphor Bronze per QQ-B-750	Gold 3 micro-inches
Insulators	Teflon, Delrin	None
Crimp Ferrules	Annealed Brass	Nickel 70 micro-inches
Clamp Gaskets	Silicone rubber	None

## Mechanical & Environmental:

Engagement Force	2.5 in-lbs. max. torque
Disengagement Force	3 lbs. max. axial force
Coupling Nut Retention	100 lbs. min.
Contact Retention	6 lbs. min.
Durability (Mating)	500 cycles min. (For Beryllium copper Female Contact Only)
Temperature Range	-65°C to 165°C (For Teflon Insulator Only)
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Thermal Shock	MIL-STD-202 Method 107 Test Cond. B.

## Cable type



P/N:06060113  
BNC(M) S/T Plug



P/N:06062395  
BNC(M) S/T Plug (75 Ohm)



P/N:06063554  
BNC(M) S/T Plug Clamp



P/N:06062716  
BNC(M) R/A Plug



P/N:06060223  
BNC(F) S/T Jack



P/N:06065541  
BNC(F) S/T Bulkhead Jack  
With O-Ring



P/N:13062809  
BNC(F) S/T Bulkhead Jack  
Front Mount With O-Ring



P/N:94061749  
BNC(F) S/T Bulkhead Jack  
Front Mount



P/N:06065441  
BNC(F) R/A Jac(75 Ohm)

## PCB type



P/N:06065834  
BNC(M) S/T Plug With Panel  
4-Hole SQ. Flange For  
Receptacle



P/N:06061934  
BNC(F) S/T Jack For P.C.B  
Mount(75 Ohm)



P/N:06065734  
BNC(F) S/T Bulkhead Jack  
With O-Ring For P.C.B Mount



P/N:06065934  
BNC(F) S/T Bulkhead Jack  
Front Mount For Receptacle



P/N:03066034  
BNC(F) R/A Jack For P.C.B  
Mount(Stacked Type)



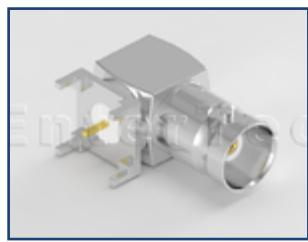
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BNC(F) R/A Jack For P.C.B  
Mount(75 Ohm)



P/N:06065234  
BNC(F) R/A Jack For P.C.B  
Mount(75 Ohm)



P/N:06066234  
BNC(F) R/A Jack For P.C.B  
Mount (75 Ohm)



P/N:06066734  
BNC(F) R/A Jack For P.C.B  
Mount

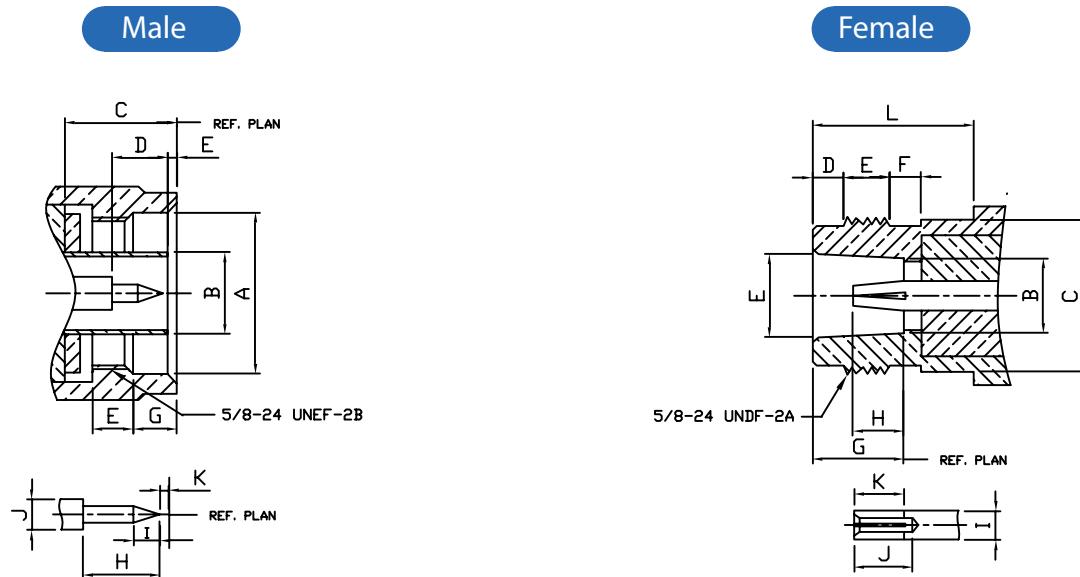


P/N:06064834  
BNC(F) R/A Bulkhead Jack For  
P.C.B Mount

**N connectors are available with 500hm and 750hm impedance operating to 11GHz on semi-rigid cable. N connectors have variety of clamp and solder types.**



## Interface Mating Dimensions



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ16.0	Φ.630		
B			Φ8.38	Φ.330
C	10.11	.398	10.46	.412
D	5.33	.210	5.84	.230
E	0.41	.016	1.52	.060
F	4.50 / .177 full thread min			
G	4.01	.158	4.27	.168
H	5.33	.210		
I	2.80	.110	3.56	.140
J	Φ160	Φ.063	Φ168	Φ.066
K	0.08	.003		
L				

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ8.53	Φ.336	Φ8.74	Φ.344
B	Φ8.03	Φ.316	Φ8.13	Φ.320
C			Φ15.93	Φ.627
D	1.19	.047	1.96	.077
E	4.37	.172	5.13	.202
F	1.19	.047	1.96	.077
G	9.04	.356	9.19	.363
H	4.75	.187	5.26	.207
I	Φ3.00	Φ.118	Φ3.15	Φ.124
J	5.33	.210		
K	4.75	.187	5.26	.207
L	10.72	.422		

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or Tril-alloy plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C1730)	Gold plating
	Phosphor bronze per(QQ-B750 or JIS-C5441B)	
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body
Gasket	Silicone rubber	None

## Electrical:

Nominal impedance	50Ω
Frequency up to	11GHz
VSWR	1.15+0.02fxGHz max.
Working voltage	500 Volts rms.
Dielectric withstanding voltage	2500 Volts rms.
Insulation resistance	5000 MΩmin.
Contact resistance	Center conductor 1.50 MΩ initial
	Outer conductor 1.50 MΩ initial

## Mechanical & Environmental:

Mating	5/8"-24 UNEF thread coupling
Cable retention	10 kgf typical
Durability	≥ 500 cycles
Coupling nut retention	20 kgf min
Temperature range	-55°C to 155°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Corrosion	Per Mil-STD-202 method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 13070109  
N(M) S/T Plug



P/N: 06071521  
N(M) S/T R/P Plug



P/N: 06070226  
N(M) S/T Plug



P/N: 06070315  
N(M) R/A Plug



P/N: 06070359  
N(M) R/A Plug O-Ring



P/N: 06070426  
N(M) R/A Plug clamp



P/N: 06074221  
N(F) S/T Jack



P/N: 00070626  
N(F) S/T Jack Clamp



P/N: 06070706  
N(F) S/T Bulkhead Jack With O-Ring



P/N: 07071406  
N(F) S/T Bulkhead Jack Front Mount With O-Ring



P/N: 10072013  
N(F) S/T Bulkhead Jack



P/N: 06071113  
N(F) S/T Jack Clamp With Panel 4-Hole SQ Flange



P/N: 06071219  
N(F) S/T Jack With Panel 4-Hole SQ Flange With O-Ring



P/N: 07071219  
N(F) S/T Jack With Panel 4-Hole SQ Flange



P/N: 06073621  
N(F) R/A Bulkhead Jack

## PCB type



P/N: 06071834  
N(F) S/T Bulkhead Jack With  
O-Ring For P.C.B Mount



P/N: 06071234  
N(F) S/T Jack With Panel  
4-Hole SQ. Flange With  
O-Ring Panel Receptacle



P/N: 06070226  
N(F) S/T Jack With Panel  
4-Hole SQ. Flange For  
Receptacle



P/N: 06073234  
N(F) S/T Jack With O-Ring  
Panel Receptacle

**FME connectors were originally developed for European wireless market, but have recently seen an increase in popularity globally.**  
**Applications are in the GPS, mobile and WLAN sectors of the communications industry.**

### Material / Finish:

Impedance	50Ω	
Frequency range	0-3 GHz	
Working voltage	500 VRMS Max.	
Dielectric withstanding voltage	1000 VRMS Min.	
VSWR	Straight	1.3 max.
	Right Angle	1.5 max.
Contact resistance	Center Contact	10 Milliohms Max.
	Outer Contact	5 Milliohms Max.
Insulator Resistance	5000 Megohms min.	

### Electrical:

Parts Name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center Contacts	Male: Brass per QQ-B-626	Gold 3 micro-inches
	Female: Phosphor Bronze per QQ-B-750	Gold 3 micro-inches
Insulators	Teflon, Delrin	None
Crimp Ferrules	Annealed Brass	Nickel 70 micro-inches
Clamp Gaskets	Silicone rubber	None

NOTE: Other Material/Finish is Available on Request

[Cable type](#)[View cable group](#)

P/N: 06100113  
FME(M) S/T Plug



P/N: 13100113  
FME(M) S/T Plug



P/N: 07100804  
FME(M) S/T Bulkhead Plug  
With O-Ring



P/N: 06101304  
FME(M) S/T Bulkhead Plug



P/N: 07100503  
FME(F) S/T Jack



P/N: 06100504  
FME(M) S/T Bulkhead Plug

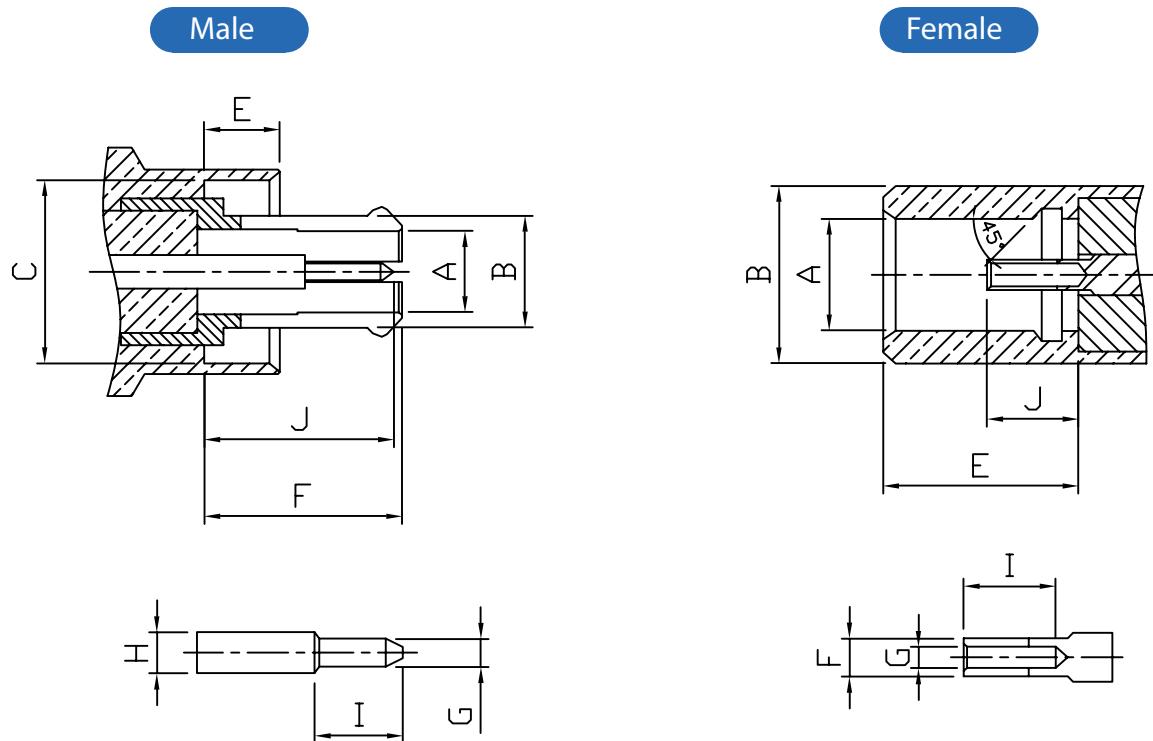
[PCB type](#)

P/N: 06100934  
FME(M) R/A Plug For P.C.B  
Mount

**MC CARD connectors are suitable for DC up to 6 GHz, Applications include wireless Network communication and etc. MC CARD is quick connection/disconnection snap-on mating.**



### Interface Mating Dimensions



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ1.35	.053	Φ1.45	.057
B	Φ1.80	.071	Φ1.90	.075
C	Φ2.97	.117	Φ3.00	.118
D	3.15	.124	3.25	.128
E	1.25	.049	1.35	.053
F	3.35	.132	3.45	.136
G	Φ0.33	.013	Φ0.37	.041
H	Φ0.58	.023	Φ0.62	.024
I	1.40	.055	1.50	.059

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ1.90	.075	Φ2.00	.079
B	Φ2.90	.144	Φ2.96	.116
C	Φ2.90	.144	Φ2.96	.116
D	1.50	.059	1.70	.067
E	3.20	.126	3.40	.134
F	Φ0.58	.023	Φ0.62	.024
G	Φ0.33	.013	Φ0.43	.017
H	Φ0.70	.027	Φ0.80	.031
I	3.20	.126	3.40	.134

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or gold plating
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730)	Gold plating
Insulator	PTFE	None
Crimp ferrule	Annealed copper	Same as body

## Electrical:

Nominal impedance	50 Ω
Frequency up to	6.0 GHz
VSWR	1.40 max. at 2.5 GHz
Working voltage	100 Volts rms.
Dielectric withstanding voltage	250 Volts rms.
Insulation resistance	500 MΩmin.
Contact resistance	Center conductor 5.0 MΩ initial Outer conductor 3.0 MΩ initial

## Mechanical & Environmental:

Mating	Snap on coupling
Durability	≥ 500 cycles
Engagement force	20 N max.
Disengagement force	5 N min.
Temperature range	-25°C to +125°C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Shock	Per Mil-STD-202 method 213 Test Condition I
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Material / Finish:

	Material	Finish
Connector body	Brass per ( QQ-B-626 or JIS-C3604B )	Gold plating
Center contact female	Beryllium copper per ( QQ-C-530 or JIS-C1730)	Gold plating
Insulator	PTFE	None
Sleeve	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Spring	Stainless steel	None

## Electrical:

Nominal impedance	50 Ω
Frequency up to	3.0GHz
VSWR	1.40 max. at 2.5GHz
Working voltage	100 Volts rms.
Dielectric withstanding voltage	250 Volts rms.
Insulation resistance	5000 MΩ min.
Contact resistance	Center conductor 5.0 m Ω initial Outer conductor 3.0 m Ω initial

## Mechanical & Environmental:

Mating	Snap on coupling
Durability	≥ 500 cycles
Engagement force	10 N max.
Disengagement force	5 N min.
Temperature range	-45°C to +125°C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Shock	Per MIL-STD-202 Method 213 Test Condition I
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

## Cable type

[View cable group](#)

P/N: 10130813  
MC CARD(M) S/T Plug



P/N: 13130204  
MC CARD(M) R/A Plug



P/N: 10131009  
MC CARD(F) S/T Jack



P/N: 10131109  
MC CARD(F) R/A Jack

## PCB type



P/N: 41131234  
MC CARD(M) S/T Plug For P.C.B  
Mount

## Switch



P/N: 10130934  
MC CARD(F) S/T Jack For  
Switch Edge Card Receptacle

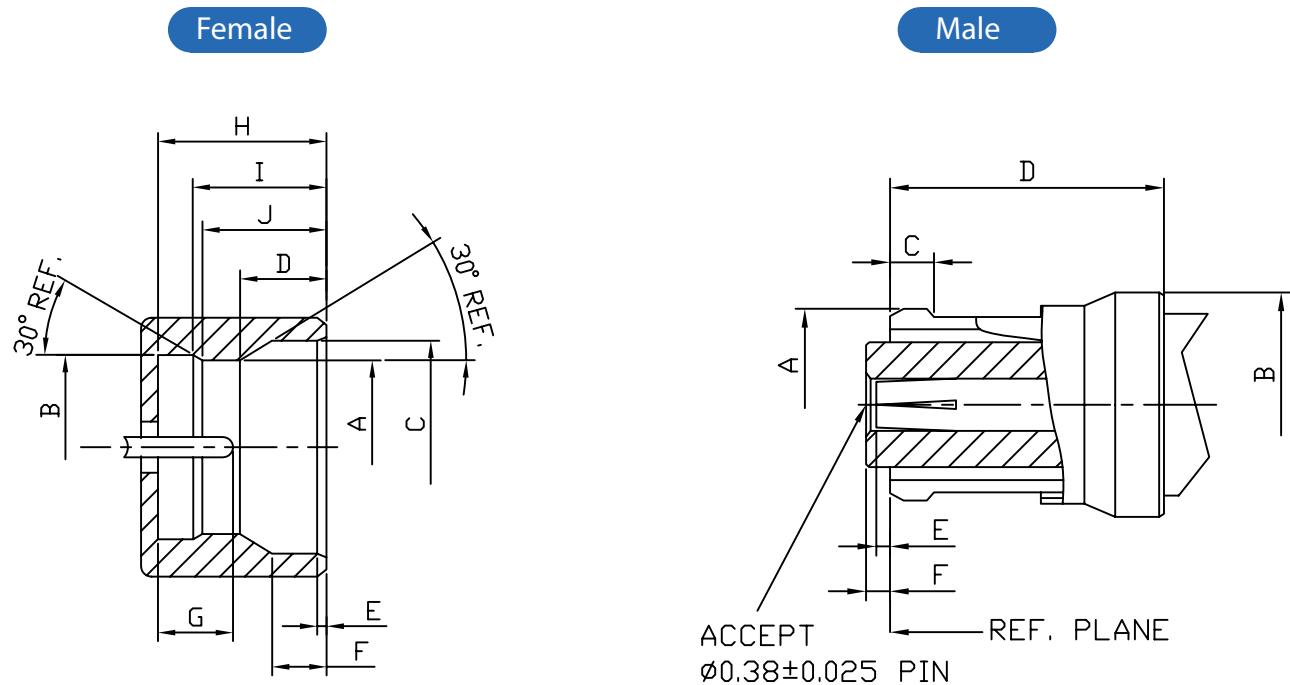


P/N: 41130334  
MC CARD(F) S/T Jack For  
Switch Edge Card Receptacle

**SMP connectors is designed for high density mounting packaging. The low profile design of SMP connectors permits module mounting with a center- to -center dimension as low as possible. Aliner SMP series provides 3 levels of retention by the male cont.**



### Interface Mating Dimensions



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.90	Φ.114	Φ3.00	Φ.118
B	Φ3.15	Φ.124	Φ3.23	Φ.127
C	Φ3.55	Φ.140	Φ3.65	Φ.144
D	Φ3.76	Φ.148	Φ3.86	Φ.152
E	0.08	.003	0.18	.007
F	0.84	.033	0.94	.037
G	0.89	.035	1.78	.070
H	2.75	.108	2.85	.112
I	2.18	.086	2.28	.090
J	1.98	.078	2.08	.082
K	1.40	.055	1.45	.057

LTR	Millimeters / Inches			
	Minimum		Maximum	
A			Φ3.43	Φ.135
B			Φ3.70	Φ.145
C	0.64	.025	0.89	.035
D	3.40	.132		
E	-0.12	-.005	0.00	0.00
F	-0.12	-.005	0.00	0.00
G				
H				
I				
J				
K				

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
	Beryllium copper per (QQ-C-530 or JIS-C1730)	
Center contact male	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C 1730)	Gold plating
Insulator	PTFE pre ASTM D1710 and ASTM D1457 or none	None
Shroud non-hermetic	Stainless steel(SUS-303)	Passivated

## Electrical:

Nominal impedance	50 Ω
Frequency up to	12GHz
VSWR	1.25 @ 6.0 GHz
	1.50 @ 12.0 GHz
Working voltage	250 Volts rms.
Dielectric withstanding voltage	500 Volts rms.
Insulation resistance	5000 MΩmin.
Contact resistance	Center conductor 6.0 mΩ
	Outer conductor 1.5mΩ

## Mechanical & Environmental:

Mating	Snap on coupling
Engage force	15 1bs full detent
	10 1bs limited detent
	2.5 1bs smooth bore
Disengage force	7 1bs full detent
	3 1bs limited detent
	0.5 1bs smooth bore
Durability	≥ 250 cycles limited detent typical.
Temperature range	-55°C to +155°C
Vibration	Per MIL-STD-202 Method 204 Test Condition D
Corrosion	Per MIL-STD-202 Method 101 Test Condition B

[Cable type](#)[View cable group](#)

P/N: 13251219  
SMP(F Contact) S/T Plug



P/N: 13250606  
SMP(F Contact) R/A Plug



P/N: 04250613  
SMP(F Contact) R/A Plug



P/N: 04250113  
SMP(M Contact) S/T Jack



P/N: 04250513  
SMP(M Contact) R/A Jack

[PCB type](#)

P/N: 04250434  
SMP(M Contact) S/T Jack For  
P.C.B Mount



P/N: 04250334  
SMP(F Contact) S/T Plug For  
P.C.B Mount



P/N: 10250834  
SMP(M Contact) S/T Jack For  
SMT



P/N: 10250734  
SMP(M Contact) S/T Jack For  
SMT

**F series are economically priced connectors specially designed for using with NTSC TV ANTENNA, MATV, and satellite communication applications.**

**Countries using the NTSC system include: The Bahama Islands, Canada, America, Japan, Korea, Mexico, Taiwan, the Philippines, and the U.S.A.**



### Electrical:

Nominal impedance	75 Ω	
Frequency up to	0-2 GHz	
Working voltage	250 Volts rms.	
Dielectric withstanding voltage	500 VRMS Min.	
VSWR	1.35 Max.	
Contact resistance	Center contact Outer contact	5 Milliohms Max. 2 Milliohms Max.
Insulator resistance	1000 Megohms min.	

### Mechanical

Parts name	Material	Finish
Body, Metal parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center contact	Male: Brass per QQ-B-626 Female: Phosphor Bronze per QQ-B-750	Gold 3 micro-inches Gold 3 micro-inches
Insulators	Teflon, Delrin	None
Crimp ferrules	Annealed Brass	Nickel 70 micro-inches
Clamp Gaskets	Synthetic rubber	None

NOTE: Other Material/Finish is Available on Request

[Cable type](#)[View cable group](#)

P/N: 03201010  
F(M) S/T Plug



P/N: 06200113  
F(M) S/T Plug



P/N: 06200211  
F(M) R/A Plug



P/N: 24200310  
F(F) S/T Jack



P/N: 06200310  
F(F) S/T Bulkhead Jack

[PCB type](#)

P/N: 06200834  
F(F) S/T Bulkhead Jack For  
P.C.B Mount



P/N: 06200734  
F(F) R/A Jack For P.C.B Mount



P/N: 06200634  
F(F) S/T Bulkhead Jack  
Receptacle



P/N: 06200534  
F(F) S/T Bulkhead Jack  
Receptacle



P/N: 03203034  
F(F) R/A Bulkhead Jack For  
P.C.B Mount

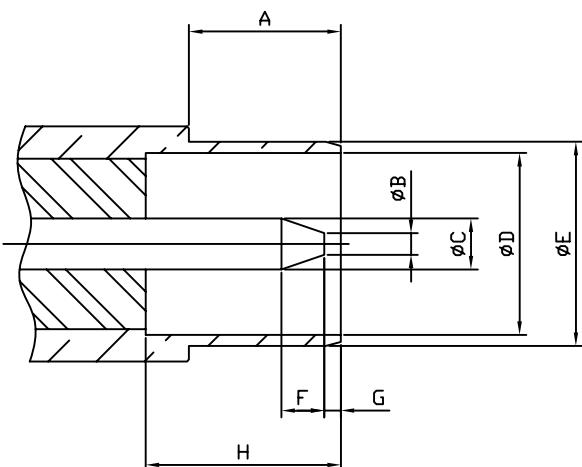


P/N: 03203034  
F(F) R/A Bulkhead Jack For  
P.C.B Mount

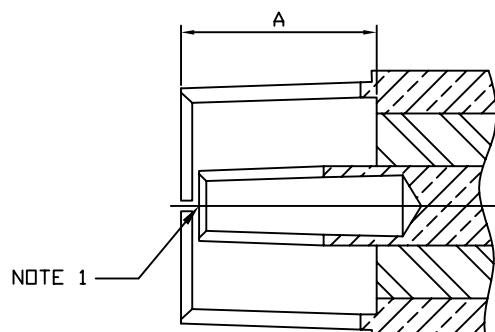
**IEC/PAL connectors are developed for use on Phase Alternate Line TV antenna receiving equipment.**  
**Countries using the PAL system include: Australia, Austria, Belgium, China, Denmark, Finland, Germany, Great Britain, Hong Kong, Kuwait, Netherlands, Norway, Portugal, Singapore, Spain, Sweden, Switzerland and Thailand.**

## Interface Mating Dimensions

Male



Female



NOTE 1 : I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 2.4 MM DIA. PIN.

PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	7.11	-
B	0.90	1.30
C	2.30	2.83
D	8.50	-
E	9.48	9.57
F	-	2.00
G	0.40	1.20
H	9.10	-

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	7.54	-

## Electrical:

Nominal impedance	75Ω	
Frequency Range	0-1 GHz	
Working voltage	500 VRMS max.	
Dielectric withstanding voltage	1500 VRMS min.	
VSWR	Straight	Not defined
	Right angle	
Contact resistance	Center contact	5 Milliohms max.
	Outer contact	2 Milliohms min.
Insulator resistance	5000 Megohms min.	

## Mechanical & Environmental:

Parts name	Material	Finish
Body, Metal Parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center contact	Male: Brass per QQ-B-626	Nickel 70 micro-inches
	Female: Brass per QQ-B-626	Nickel 70 micro-inches
Insulator	Delrin	None
Crimp ferrule	Annealed copper	Nickel 70 micro-inches

NOTE: Other Material / Finish is Available on Request

[Cable type](#)[View cable group](#)

P/N: 06240445  
IEC/PAL(M) S/T Plug



P/N: 06240410  
IEC/PAL(M) S/T Plug



P/N: 06240110  
IEC/PAL(F) S/T Jack



P/N: 06240145  
IEC/PAL(F) S/T Jack

[PCB type](#)

P/N: 06240634  
IEC/PAL(M) S/T Bulkhead Plug  
Receptacle



P/N: 06240834  
IEC/PAL(M) S/T Bulkhead Plug  
Receptacle



P/N: 06240534  
IEC/PAL(F) S/T Bulkhead Jack  
Receptacle



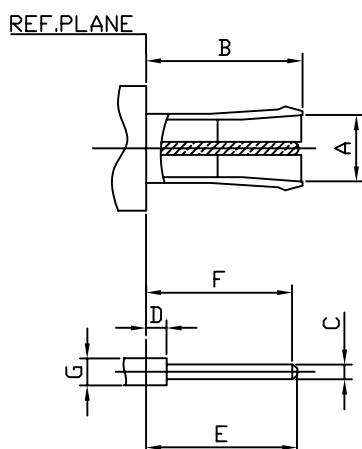
P/N: 06240734  
IEC/PAL(F) S/T Bulkhead Jack  
Receptacle

**1.0/2.3 series is a compact design which provides a push-pull coupling system allowing quick installation; they are ideally suited to applications where space is limited. 1.0/2.3 coaxial connectors are 50ohm units operating from 0-6 GHz**

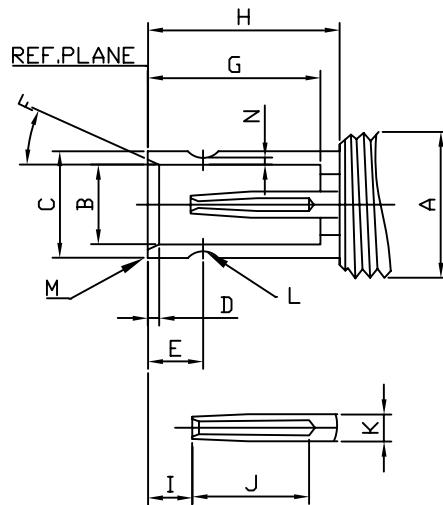


## Interface Mating Dimensions

Male



Female



LTR	Millimeters / Inches			
	Minimum		Maximum	
A	Φ2.30	Φ.091	nominal	
B	5.40	.213	5.70	.224
C	Φ0.47	Φ0.018	Φ0.52	Φ0.020
D			1.15	.045
E			5.50	.217
F	4.50	.177		
G	Φ1.00	Φ.039	nominal	
H				
I				
J				
K				
L				

LTR	Millimeters / Inches			
	Minimum		Maximum	
A	M5.5*0.5			
B	Φ3.00	Φ.118	Φ3.06	Φ.120
C	Φ4.03	Φ.159	Φ4.14	Φ.163
D	0.50	.020	0.60	.024
E	1.80	.071	1.90	.075
F	30°±2°			
G	5.80	.228	5.90	.232
H	6.40	.252	6.50	.256
I	1.15	.045	1.75	.069
J	4.50	.177		
K	Φ1.00	Φ.039	nominal	
L	R0.75	R .030	R0.85	R .033
M			R0.30	R .011
N	Φ3.53	Φ.139	Φ3.60	Φ.142

## Material / Finish:

	Material	Finish
Connector body	Brass per(QQ-B-626 or JIS-C3604B)	Nickel or Gold plating
Gold plating	Brass per(QQ-B-626 or JIS-C3604B)	Gold plating
Center contact female	Beryllium copper per(QQ-C-530 or JIS-C1730)	Gold plating
	Phosphor bronze per(QQ-B750 or JIS-C5441B)	
Insulator	PTFE	None

## Electrical:

Nominal impedance	50Ω
Frequency up to	6.0 GHz
VSWR	1.35 Max.
Working voltage	250 Volts rms Max.
Dielectric withstanding voltage	500 Volts rms Min.
Insulation resistance	1000 MΩ min.
Contact resistance	Center conductor 4.0 mΩ initial
	Outer conductor 2.0 mΩ initial

## Mechanical & Environmental:

Mating	Snap on coupling
Cable retention	2.3 Kgf typical
Durability	≥ 500 cycles
Engagement force	2.75 Kgf Max.
Disengagement force	0.4 Kgf Min
Temperature range	-55 °C to +155 °C
Vibration	Per Mil-STD-202 method 204 Test Condition D
Corrosion	Per Mil-STD-202 method 101 Test Condition B

## Cable type

[View cable group](#)

P/N: 13040148  
1.0/2.3(M) S/T Plug



P/N: 06040310  
1.0/2.3(M) R/A Plug(75 Ohm)



P/N: 11040348  
1.0/2.3(M) R/A Plug  
Push-Lock Type(75 Ohm)



P/N: 06040213  
1.0/2.3(F) S/T Bulkhead Jack



P/N: 11040172  
1.0/2.3(M) S/T Plug(75 Ohm)



P/N: 06040313  
1.0/2.3(M) R/A Plug



P/N: 11040448  
1.0/2.3(F) R/A Bulkhead Jack  
Receptacle

## PCB type



P/N: 06040734  
1.0/2.3(F) S/T Jack For P.C.B  
Mount(75 Ohm)



P/N: 06040934  
1.0/2.3(F) S/T Bulkhead Jack  
For P.C.B Mount(75 Ohm)



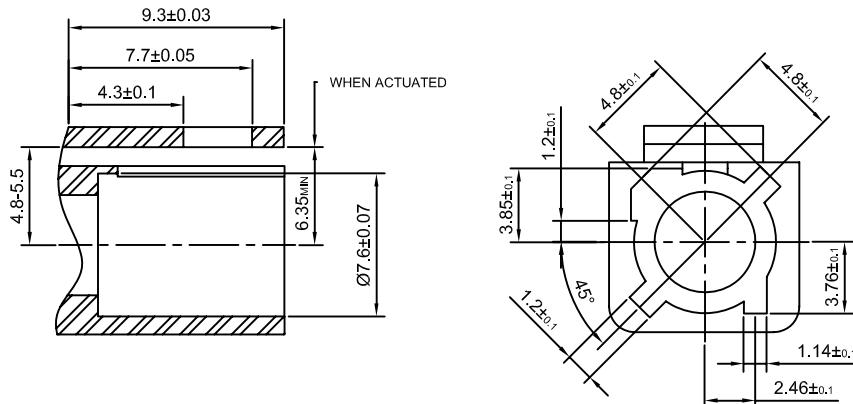
P/N: 06040834  
1.0/2.3(F) R/A Jack For P.C.B  
Mount(75 Ohm)

To cope with growth demands in telematics and multimedia applications for modern automobile, Automotive Industries created a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards. Based on SMB interface, FAKRA connectors include a plastic housing and are designed with multiple colored codes for easy identification.

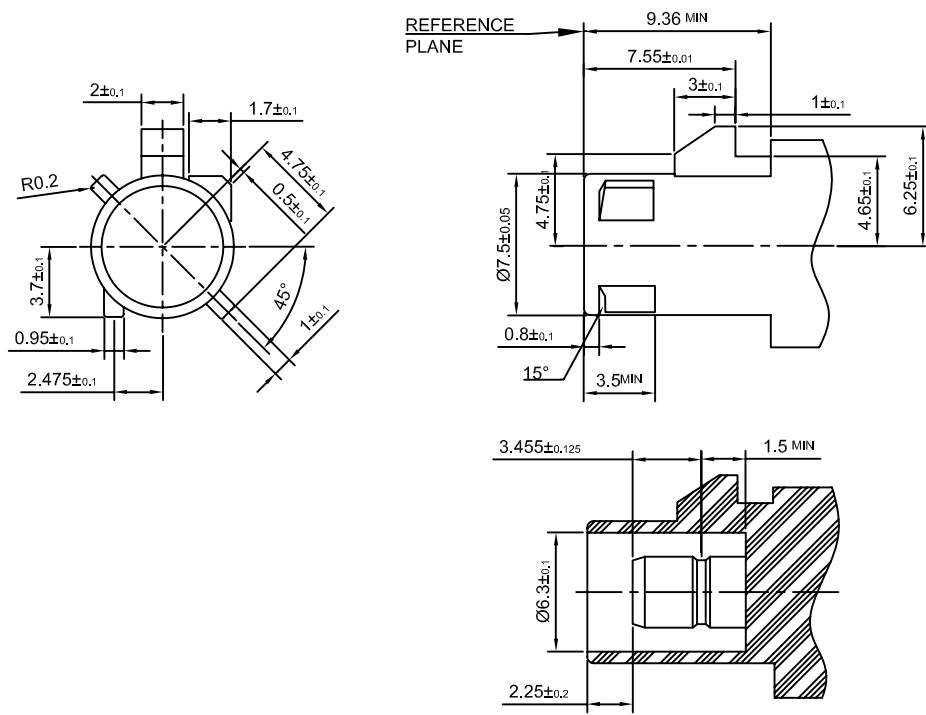
FAKRA connectors are designed to operate up to 4GHz and for applications of particular mechanical and environmental requirements of the automobile industry such as Digital Satellite Radio(SDARS),GSM,GPS.

## Interface Mating Dimensions

Plug



Jack



## Material / Finish:

	Material	Finish
Plastic housing	PA66 W / 15%Glass Fiber	See Coding Color
Body, Metal parts	Brass per QQ-B-626	Nickel 70 micro-inches
Center contact	Male: Brass per QQ-B-626	Gold 3 micro-inches
	Female:Beryllium copper per QQ-C-530	Gold 3 micro-inches
Insulators	Teflon	None
Crimp ferrules	Annealed Brass	Nickel 70 micro-inches

## Electrical:

Nominal impedance	50Ω	
Frequency range	0 - 4GHz	
Working voltage	RG-178; 250 VRMS max. RG-316, .085"; 335 VRMS max.	
Dielectric withstandin g voltage	RG-178; 750 VRMS min. RG-316, .085" ; 1000 VRMS min.	
VSWR	Straight	1.30 Max.
	Right Angle	1.50 Max
Contact resistance	Center contact	20 Milliohms Max.
	Outer contact	10 Milliohms Max.
Insulator resistance	1000 Megohms min.	

## Mechanical & Environmental:

Engagement force	25N.max.
Disengagement	2N.min.
Contact Retention	4 1bs.min.
Durability(Mating)	25 cycles min
Temperature Range	-40°C to 105°C
Vibration	MIL-STD-202 Method 204 Test Cond.B.
Salt Spray	MIL-STD-202 Method 101 Test Cond.B.
Thermal Shock	MIL-STD-202 Method 107 Test Cond.B.

**NOTE: Other Material/Finish is Available on Request**

## Cable type

[View cable group](#)

P/N:06210113  
FAKRA SMB(F Contact) S/T  
Plug Code A



P/N: 06211913  
FAKRA SMB(F Contact) S/T  
Plug Code B



P/N: 06210213  
FAKRA SMB(M Contact) S/T  
Jack Code A



P/N: 06211013  
FAKRA SMB(M Contact) S/T  
Jack Code Z



P/N: 10210141  
FAKRA SMB(F Contact) S/T  
Plug Code A



P/N: 10210309  
FAKRA SMB(F Contact) S/T  
Plug Code C

## PCB type



P/N: 06216534  
FAKRA SMB(M Contact) S/T  
Jack For P.C.B Mount Code C



P/N: 06216634  
FAKRA SMB(M Contact) S/T  
Jack For P.C.B Mount Code D



P/N:00530434  
FAKRA SMB(M Contact) R/A  
Jack For P.C.B Mount Code D



P/N: 06216434  
FAKRA SMB(M Contact) R/A  
Jack For P.C.B Mount Code Z



P/N:07232835  
SMA(M) S/T Plug To SMA(M)  
S/T Plug



P/N:05438835  
SMA(M) S/T Plug to  
SMA(F) S/T R/P Jack



P/N:06431535  
SMA(F) S/T Bulkhead Jack  
With O-Ring To SMA(F) S/T  
Jack



P/N:05234335  
SMA(F) S/T Jack To SMA(F) S/T  
R/P Jack



P/N:05230235  
SMA(M) R/A Plug To SMA(F)  
R/A Jack



P/N:05237135  
SMA(M) R/A Plug To SMA(M)  
R/A Plug



P/N:78435135  
SMA(M) R/A Plug To SMB(M  
Contact) R/A Jack



P/N:06430935  
SMA(M) S/T Plug To FME(F) S/  
T Jack Adaptor



P/N:01235435  
SMA(M) S/T Plug To MHF-I&II  
Receptacle



P/N:07232835  
SMA(M) S/T Plug To SMA(M)  
S/T Plug



P/N:07232835  
SMA(M) S/T Plug To SMB(F  
Contact) S/T Plug



P/N:10430435  
SMA(F) S/T Jack To SSMB(F  
Contact) S/T Plug



P/N:06434235  
SMA(F) Jack To SMA(M) Plug  
To SMA(F) Jack T-Angle



P/N:13233935  
SMB(M Contact) S/T Bulkhead  
Jack To SMB(M Contact) S/T  
Jack



P/N:10239435  
SMB(M Contact) S/T Bulkhead  
Jack To SMB(F Contact) S/T  
Plug



P/N:10430635  
SMP(F Contact) S/T Plug To  
SMP(F Contact) S/T Plug



P/N:13435735  
SSMA(F) S/T Jack To SSMA(F)  
S/T Jack



P/N:06237835  
TNC(F) S/T Bulkhead Jack  
To TNC(F) S/T Jack



P/N:06430135  
TNC(M) R/A Plug To TNC(F) R/  
A Jack



P/N:78435535  
TNC(M) S/T Plug To TNC(F)  
S/T Bulkhead Jack With  
Solder Tag



P/N:05230235  
SMA(M) R/A Plug To SMA(F)  
R/A Jack



P/N:05237135  
SMA(M) R/A Plug To SMA(M)  
R/A Plug



P/N:78435135  
SMA(M) R/A Plug To SMB(M  
Contact) R/A Jack



P/N:06430935  
SMA(M) S/T Plug To FME(F) S/  
T Jack Adaptor



P/N:01235435  
SMA(M) S/T Plug To MHF-I&II  
Receptacle



P/N:07232835  
SMA(M) S/T Plug To SMA(M)  
S/T Plug



P/N:07232835  
SMA(M) S/T Plug To SMB(F  
Contact) S/T Plug



P/N:10430435  
SMA(F) S/T Jack To SSMB(F  
Contact) S/T Plug



P/N:06434235  
SMA(F) Jack To SMA(M) Plug  
To SMA(F) Jack T-Angle



P/N:13233935  
SMB(M Contact) S/T Bulkhead  
Jack To SMB(M Contact) S/T  
Jack



P/N:10239435  
SMB(M Contact) S/T Bulkhead  
Jack To SMB(F Contact) S/T  
Plug



P/N:10430635  
SMP(F Contact) S/T Plug To  
SMP(F Contact) S/T Plug



Con1: IPEX(1.5H)  
Cable: 0.81mm  
Con2: Strip&Tin



Con1: SMA(F) S/T Bulkhead Jack With O-Ring  
Cable: 0.81mm  
Con2: IPEX(2.5H)



Con1: FME(M) S/T Bulkhead Plug  
Cable: 0.81mm  
Con2: IPEX(2.5H)



Con1: Murata MXTK92  
Cable: 0.81mm  
Con2: Murata MXTK92



Con1: U.FL(2.0H)  
Cable: 0.81mm  
Con2: Strip&Tin



Con1: IPEX(2.5H)  
Cable: 0.81mm  
Con2: IPEX(2.5H)



Con1: FME(M) S/T Bulkhead Plug With O-Ring  
Cable: 1.13mm  
Con2: IPEX



Con1: SMA(F) R/A Jack For Cable And P.C.B Mount  
Cable: 1.13mm  
Con2: IPEX



Con1: IPEX  
Cable: 1.13mm  
Con2: Strip&Tin



Con1: MCX(M) S/T Plug  
Cable: 1.13mm  
Con2: Strip&Tin



Con1: SMA(F) S/T R/P Bulkhead Jack With O-Ring  
Cable: 1.13mm  
Con2: IPEX



Con1: N(F) S/T Bulkhead Jack With O-Ring  
Cable: 1.13mm  
Con2: IPEX



Con1: TNC(F) S/T Bulkhead Jack With O-Ring  
Cable: 1.13mm  
Con2: IPEX



Con1: IPEX  
Cable: 1.32mm D/S  
Con2: IPEX



Con1: SMB(F Contact) R/A Plug  
Cable: 1.32mm  
Con2: SMB(F Contact) R/A Plug



Con1: SMB(M Contact) R/A Bulkhead Jack  
Cable: 1.32mm  
Con2: IPEX



Con1: MCX(F) R/A Jack For  
P.C.B Mount(75 Ohm)  
Cable: 1.32mm  
Con2: IPEX



Con1: SMA(M) S/T Bulkhead Plug  
Front Mount With O-Ring  
Cable: 1.37mm  
Con2: MMCX(M) R/A Plug



Con1: SMA(M) S/T Bulkhead Plug  
Front Mount With O-Ring  
Cable: 1.37mm  
Con2: IPEX



Con1: TNC(F) S/T Bulkhead Jack  
Front Mount With O-Ring  
Cable: 1.37mm  
Con2: IPEX



Con1: MS-147(M) R/A Plug  
Cable: 1.37mm  
Con2: IPEX



Con1: SMA(F) S/T Bulkhead  
Jack  
Cable: 1.48mm  
Con2: H.FL



Con1: MCX(M) R/A Plug  
Cable: 1.48mm  
Con2: H.FL



Con1: MCX(F) R/A Jack For  
P.C.B Mount(75 Ohm)  
Cable: 1.48mm  
Con2: IPEX



Con1: SMA(M) R/A Plug  
Cable: RG-174  
Con2: SMA(F) S/T Bulkhead  
Jack With O-Ring



Con1: SMA(M) S/T Plug  
Cable: RG-174  
Con2: Molding SR / Strip&Tin



Con1: SMA(M) S/T R/P Plug  
Cable: RG-174  
Con2: SMA(F) S/T R/P Jack



Con1: MMCX(M) S/T Plug  
Cable: RG-174  
Con2: Strip&Tin



Con1: N(M) S/T Plug  
Cable: RG-174  
Con2: SMA(M) S/T Plug



Con1: SSMB(F Contact) S/T Plug  
Cable: RG-174  
Con2: SSMB(F Contact) S/T Plug



Con1: TNC(F) S/T R/P Bulkhead  
Jack With O-Ring  
Cable: RG-174  
Con2: TNC(M) S/T R/P Plug



Con1: TNC(F) S/T Bulkhead  
Jack With O-Ring  
Cable: RG-174  
Con2: MMCX(M) R/A Plug



Con1: SMA(M) S/T Plug  
Cable: RG-316  
Con2: SMA(M) S/T Plug



Con1: SMA(M) R/A Plug  
Cable: RG-316  
Con2: SMA(F) S/T Bulkhead Jack



Con1: SMA(M) R/A Plug  
Cable: RG-316  
Con2: MMCX(M) S/T Plug



Con1: BNC(M) S/T Plug  
Cable: RG-316  
Con2: BNC(F) S/T Jack



Con1: N(M) R/A Plug  
Cable: RG-316  
Con2: MMCX(M) R/A Plug



Con1: N(F) S/T Bulkhead Jack With O-Ring  
Cable: RG-316  
Con2: MMCX(M) R/A Plug



Con1: MCX(M) R/A Plug  
Cable: RG-316  
Con2: MCX(M) R/A Plug



Con1: N(F) S/T Bulkhead Jack With O-Ring&Cap  
Cable: RG-316  
Con2: MMCX(M) R/A Plug



Con1: BNC(F) S/T Bulkhead Jack With O-Ring  
Cable: RG-178  
Con2: MCX(M) S/T Plug



Con1: TNC(F) S/T Bulkhead Jack Front Mount  
Cable: RG-178  
Con2: MCX(M) S/T Plug



Con1: MMCX(M) R/A Plug  
Cable: RG-178  
Con2: Strip&Tin



Con1: BNC(F) S/T Bulkhead Jack Front Mount With O-Ring  
Cable: RG-178  
Con2: IPEX



Con1: BNC(F) S/T Jack  
Cable: RG-179  
Con2: SMB(F) Contact S/T Plug



Con1: SMB(F) Contact R/A Plug  
Cable: RG-179  
Con2: SMB(F) Contact R/A Plug



Con1: BNC(F) S/T Bulkhead Jack Front Mount  
Cable: RG-179  
Con2: MCX(M) S/T Plug



Con1: F(F) S/T Jack  
Cable: RG-179  
Con2: MCX(M) S/T Plug



Con1: MMCX(M) S/T Plug  
 Cable: SS405  
 Con2: SMA(F) S/T Bulkhead Jack With O-Ring



Con1: SMA(M) S/T Plug  
 Cable: SS405  
 Con2: SMP(F Contact) S/T Plug



Con1: SMA(M) R/A Plug  
 Cable: SS405  
 Con2: MMCX(M) S/T Plug



Con1: N(F) S/T Jack With O-Ring  
 Cable: SS405  
 Con2: MMCX(M) R/A Plug



Con1: TNC(M) S/T R/P Plug  
 Cable: LMR-100 A  
 Con2: 1.0/2.3(F) S/T Bulkhead Jack



Con1: N(M) S/T Plug  
 Cable: LMR-100A  
 Con2: MS-156-C(LP)-01



Con1: SMA(M) S/T Plug  
 Cable: LMR-100A  
 Con2: MCX(M) R/A Plug



Con1: SMA(F) S/T Bulkhead Jack  
 Cable: LMR-100A  
 Con2: MS-151-C-LP



Con1: SMA(M) S/T Plug  
 Cable: LMR-195  
 Con2: SMA(M) S/T Plug



Con1: SMA(M) S/T Plug  
 Cable: LMR-195  
 Con2: SMA(F) S/T R/P Bulkhead Jack



Con1: N(M) S/T Plug  
 Cable: LMR-240  
 Con2: N(M) S/T Plug



Con1: SMA(M) S/T Plug  
 Cable: LMR-240  
 Con2: SMA(M) S/T Plug



Con1: N(M) S/T Plug Clamp  
 Cable: LMR-400  
 Con2: N(M) S/T Plug Clamp



Con1: N(M) S/T Plug  
 Cable: LMR-400  
 Con2: N(M) S/T Plug



Con1: N(F) S/T Bulkhead Jack With O-Ring  
 Cable: LMR-400  
 Con2: N(M) S/T Plug



Con1: SMA(M) S/T Plug  
 Cable: LMR-400  
 Con2: SMA(M) S/T Plug



Con1: SMA(M) S/T Plug  
Cable: .141 Semi-Flexible RG-402  
Con2: SMA(M) R/A Plug



Con1: SMA(M) S/T Plug  
Cable: .047 Semi-Flexible  
Con2: Strip



Con1: SMA(M) S/T Plug  
Cable: .141 Semi-Flexible RG-402  
Con2: SMA(M) S/T Plug



Con1: SMA(M) S/T Plug  
Cable: Semi-Flexible RG-405  
Con2: SMA(M) S/T Plug



Con1: SMA(M) R/A Plug  
Cable: .085 Semi-Flexible  
Con2: SMA(F) S/T Bulkhead Jack



Con1: SMA(M) R/A Plug  
Cable: .141 Semi-Flexible RG-402  
Con2: BMA(F) S/T Jack



Con1: SMA(M) S/T Plug  
Cable: RG-405 Semi-Flexible  
Con2: SMA(M) S/T Plug



Con1: N(F) S/T Jack With O-Ring  
Cable: RG-405 Semi-Flexible  
Con2: MMCX(M) R/A Plug



Con1: SMA(M) S/T Plug  
Cable: .085 Semi-Rigid  
Con2: SMA(M) S/T Plug



Con1: SMA(M) S/T Plug  
Cable: .085 Semi-Rigid  
Con2: SMA(M) S/T Plug



Con1: N(F) S/T Bulkhead Jack With O-Ring  
Cable: .085 Semi-Rigid  
Con2: SMA(M) R/A Plug



Con1: SMA(F) S/T Jack With Panel 4-Hole SQ. Flange  
Cable: .085 Semi-Rigid  
Con2: Strip



Con1: SMA(F) S/T Jack  
Cable: .047 Semi-Rigid  
Con2: SMA(F) S/T Jack



Con1: SMA(M) S/T Plug  
Cable: HAVERHILL .141 semi-rigid  
Con2: SMA(M) S/T Plug



Con1: SMA(F) S/T Jack  
Cable: .047 Semi-Rigid  
Con2: Strip



Con1: Mini SMP(F Contact) S/T Plug  
Cable: HAVERHILL .047 Semi-Rigid  
Con2: Mini SMP(F Contact) S/T Plug



Con1: MMCX(M) R/A Plug  
Cable: RD-174  
Con2: TNC(F) S/T Bulkhead Jack With O-Ring



Con1: TNCC(F) S/T Bulkhead Jack With O-Ring  
Cable: RD-174  
Con2: Strip&Tin



Con1: SMA(M) S/T Plug  
Cable: RD-316  
Con2: SMA(M) S/T Plug



Con1: SMB(F Contact) S/T Plug  
Cable: RD-179  
Con2: SMB(F Contact) R/A Plug



Con1: SMB(F Contact) R/A Plug  
Cable: RD-179  
Con2: SMB(F Contact) R/A Plug



Con1: F(M) R/A Plug  
Cable: RD-179  
Con2: Strip&Tin



Con1: SMB(F Contact) S/T Plug  
Cable: RD-179  
Con2: SMB(F Contact) R/A Plug



Con1: SMA(M) S/T Plug  
Cable: RD-316  
Con2: SMA(M) S/T Plug



Con1: SMA(F) S/T Bulkhead Jack  
Cable: RD-316  
Con2: MMCX(M) S/T Plug



Con1: IPEX(1.5H)  
Cable: 0.81mm  
Con2: IPEX(1.5H)



Con1: IPEX(1.5H)  
Cable: 0.81mm  
Con2: Strip&Tin



Con1: IPEX(2.0H)  
Cable: 0.81mm  
Con2: Strip&Tin



Con1: IPEX(2.5H)  
Cable: 1.13mm  
Con2: Strip&Tin



Con1: IPEX(2.5H)  
Cable: 1.32mm  
Con2: IPEX(2.5H)



Con1: IPEX(2.5H)  
Cable: 1.37mm  
Con2: IPEX(2.5H)



Con1: IPEX(2.5H)  
Cable: 1.37mm  
Con2: Strip&Tin



Con1: IPEX(2.5H)  
Cable: RG-178  
Con2: Strip&Tin

**Our IP68 WaterProof series, to be derived from RF hardwares requiring high frequency signal transmission in harsh environment. The Unique sealing technology ensures high frequency signal which will not be affected by external environment, and maintain the stability of the transmission quality.**



**They are suitable for hardwares in outdoor, waterproof, higher UV Protection. Meanwhile, they can be successfully applied to different kinds of solutions according to market demand.**

- Water tank content/Water level monitoring. Water/Electric meter, and Pollution prevention monitoring programmes
- Renewable energy power transmission projects
- Energy conservation managements
- Indoor and outdoor solutions in LED market
- Industrial Automation testing and monitoring programmes
- High-speed broadband transmission and Telecom system integration solutions
- Technology development solutions in severe environments based on communication industries.
- The wild animals and plants tracking and monitoring programmes

With improving design philosophy and innovative concept, EnterTec designs two different types of coaxial assemblies, which can be used properly under harsh conditions in severe environments.

There are Panel Type and Quick Type with connectors of SMA / SMB / MCX / MMCX, impedance of 50 & 75 Ohm for Customized Selections.

### Panel type



Con1: SMA(F) S/T Jack  
Cable: RG-316  
Con2: Strip&Tin



Con1: Quick SMA(M) S/T Plug  
Cable: RG-316  
Con2: Strip&Tin



Con1: SMA(F) S/T Jack  
Cable: RG-174  
Con2: Strip&Tin



Con1: SMB(F Contact) S/T Plug  
Cable: RG-174  
Con2: SMB(M Contact) S/T Jack

### Quick type



Con1: Quick SMA(M) S/T Plug  
Cable: RG-316  
Con2: Strip&Tin



Con1: SMA(F) S/T Jack  
Cable: RG-316  
Con2: Strip&Tin



Quick SMA(M) S/T Plug GSM /  
GPRS Antenna



Quick SMA(M) Plug R/A WiFi  
Antenna

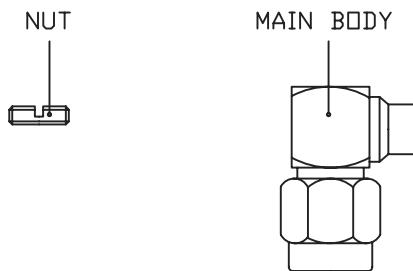
In our production range, there is IPEX equivalent to Hirose U.FL. As for the compatibility details, please refer to the below.

IPEX P/N	IPEX Receptacle	Coaxial Outer Diameter	Height	Hirose P/N	Hirose Receptacle
20278-111R-08	20279-001E-01	OD0.81mm	2.5mm	U.FL-LP-040	U.FL-R-SMT
20278-111R-13	20279-001E-01	OD1.13mm	2.5mm	U.FL-LP-068	U.FL-R-SMT
20278-111R-32	20279-001E-01	OD1.32mm	2.5mm	U.FL-LP-066	U.FL-R-SMT
20278-111R-18	20279-001E-01	OD1.80mm	2.5mm	N/A	N/A
20351-111R-37	20279-001E-01	OD1.37mm	2.5mm	U.FL-LP-088	U.FL-R-SMT
20311-011R-08	20279-001E-01	OD0.81mm	2.0mm	U.FL-LP(V)-040	U.FL-R-SMT
20367-001R	20369-001E	OD0.81mm	1.5mm	W.FL-LP-040	W.FL-R-SMT-1

Cable	Ohm	Conductor OD	Dielectric OD	Shield OD	Jacket OD	Typically Used With
0.81mm	50	0.15mm(0.006)	0.41mm( 0.016)	0.66mm( 0.026)	0.81mm( 0.032)	MMCX, MCX, SMB, SMA
1.13mm	50	0.23mm( 0.009)	0.69 mm( 0.027)	0.89mm( 0.035)	1.12mm(0.044)	MMCX, MCX, SMB, SMA
1.32mm	50	0.23mm( 0.009)	0.69mm( 0.027)	0.89mm ( 0.035)	1.32mm(0.052)	MMCX, MCX, SMB, SMA
1.48mm	50	0.3mm(0.012)	0.84mm(0.033)	1.24mm( 0.049)	1.47mm(0.058)	MMCX, MCX, SMB, SMA
RG-178B/U	50	0.3mm(0.012)	0.86mm(0.034)	1.37mm(0.054)	1.80mm(0.071)	MMCX, MCX, SMB, SMA,
RG-196A/U	50	0.3mm(0.012)	0.86mm(0.034)	1.37mm(0.054)	1.80mm (0.071)	1.0/2.3, FAKRA
RG-179B/U	75	0.3mm(0.012)	1.60mm(0.063)	2.13mm(0.084)	2.79mm(0.110)	MMCX, MCX, SMB
RG-187A/U	75	0.3mm(0.012)	1.52mm(0.060)	2.13mm (0.084)	2.79mm(0.110)	
RD-179	75	0.3mm(0.012)	1.60mm(0.063)	2.62mm(0.103)	3.05mm(0.120)	MMCX, MCX, SMB
RD-187	75	0.3mm(0.012)	1.52mm(0.060)	2.54 mm(0.100)	3.05mm (0.120)	
RG-174/U	50	0.48mm(0.019)	1.52mm(0.060)	2.03mm(0.080)	2.79mm(0.110)	MMCX, MCX, SMB, SMA,
RG-188A/U	50	0.51mm(0.020)	1.52mm(0.060)	2.06mm(0.081)	2.79mm(0.110)	1.0/2.3
RG-316/U	50	0.51mm(0.020)	1.52mm(0.060)	2.06mm(0.081)	2.79mm(0.110)	
LMR-100	50	0.56mm(0.022)	1.57mm(0.062)	2.16mm(0.085)	2.67mm(0.105)	
HDF-100	50	0.48mm(0.019)	1.52mm(0.060)	2.11mm(0.083)	2.79mm(0.110)	
RD-188	50	0.51mm(0.020)	1.52mm(0.060)	2.54mm(0.100)	3.05mm(0.120)	MMCX, MCX, SMB, SMA
RD-316	50	0.51mm(0.020)	1.52mm(0.060)	2.54mm (0.100)	3.05mm(0.120)	
RG-59B/U	75	0.99mm(0.039)	2.95mm(0.116)	3.71mm(0.146)	4.83mm(0.190)	BNC, TNC, N
LMR-195	50	0.94mm(0.037)	2.79mm(0.110)	3.53mm(0.139)	4.95mm(0.195)	BNC, TNC, N
HDF-195	50	0.94mm(0.037)	2.84mm(0.112)	3.53mm (0.139)	4.95mm(0.195)	
RG-58C/U	50	0.97mm(0.038)	2.95mm(0.116)	3.81mm(0.150)	4.95mm(0.195)	
RG-141A/U	50	0.99mm(0.039)	2.87mm(0.113)	3.71mm(0.146)	4.95mm(0.190)	
RG-303/U	50	0.99mm(0.039)	2.95mm(0.116)	3.71mm(0.146)	4.95mm(0.190)	
LMR-200	50	1.12mm(0.044)	2.95mm(0.116)	3.66mm(0.144)	4.95mm(0.195)	BNC, TNC, N, FAKRA
HDF-200	50	1.12mm (0.044)	2.95mm(0.116)	3.66mm (0.144)	4.95mm(0.195)	
CFD-200	50	1.12mm (0.044)	2.95mm(0.116)	3.66mm (0.144)	4.95m (0.197)	
RG-55A/U	50	0.81mm(0.032)	2.95mm(0.116)	4.47mm(0.176)	5.23mm(0.206)	BNC, TNC, N
RG-223/U	50	0.81mm (0.032)	2.95mm(0.116)	4.47mm(0.176)	5.23mm(0.206)	
LMR-240	50	1.42mm(0.056)	3.81mm(0.150)	4.52mm(0.178)	6.10mm(0.240)	BNC, TNC, N
HDF-155	50	1.47mm(0.058)	3.91mm(0.154)	4.50mm(0.177)	5.41mm(0.213)	BNC, TNC, N
RG-213/U	50	2.16mm(0.085)	7.24mm(0.285)	8.64mm(0.340)	10.29mm(0.405)	SMA, BNC, N, 7/16 DIN
LMR-400	50	2.74mm(0.108)	7.24mm (0.285)	8.13mm(0.320)	10.29mm (0.405)	
HDF-400	50	2.74mm(0.108)	7.24mm (0.285)	8.13mm(0.320)	10.29mm (0.405)	
LMR-600	50	4.47mm(0.176)	11.56mm(0.455)	12.45mm(0.490)	14.99mm(0.590)	N
.250	50	1.65mm(0.065)	5.31mm(0.209)	6.35mm(0.250)	-- --	MMCX, MCX, SMA, SMB,N
.141 SR (RG-402/U)	50	0.99mm(0.039)	2.97mm(0.117)	3.58mm(0.141)	-- --	
.085 SR (RG-405/U)	50	0.51mm(0.020)	1.65 mm(0.065)	2.16mm(0.085)	-- --	
.047 SR (M17/151 Type)	50	0.28mm(0.011)	0.86 mm(0.034)	1.19mm(0.047)	-- --	

## Cable Assembly Instructions-Solder (Semi-Rigid)

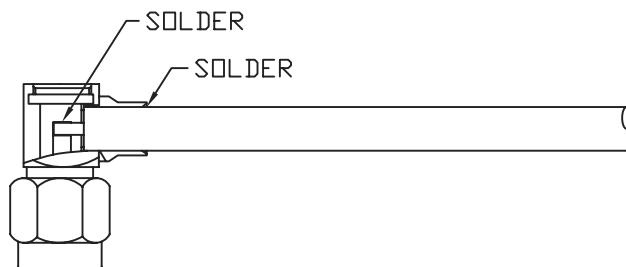
STEP 1.



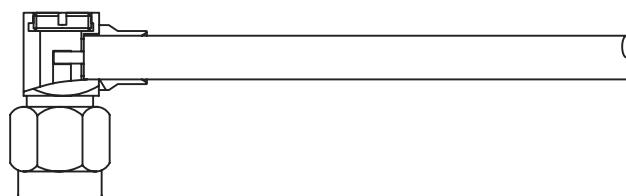
STEP 2.



STEP 3.



STEP 4.



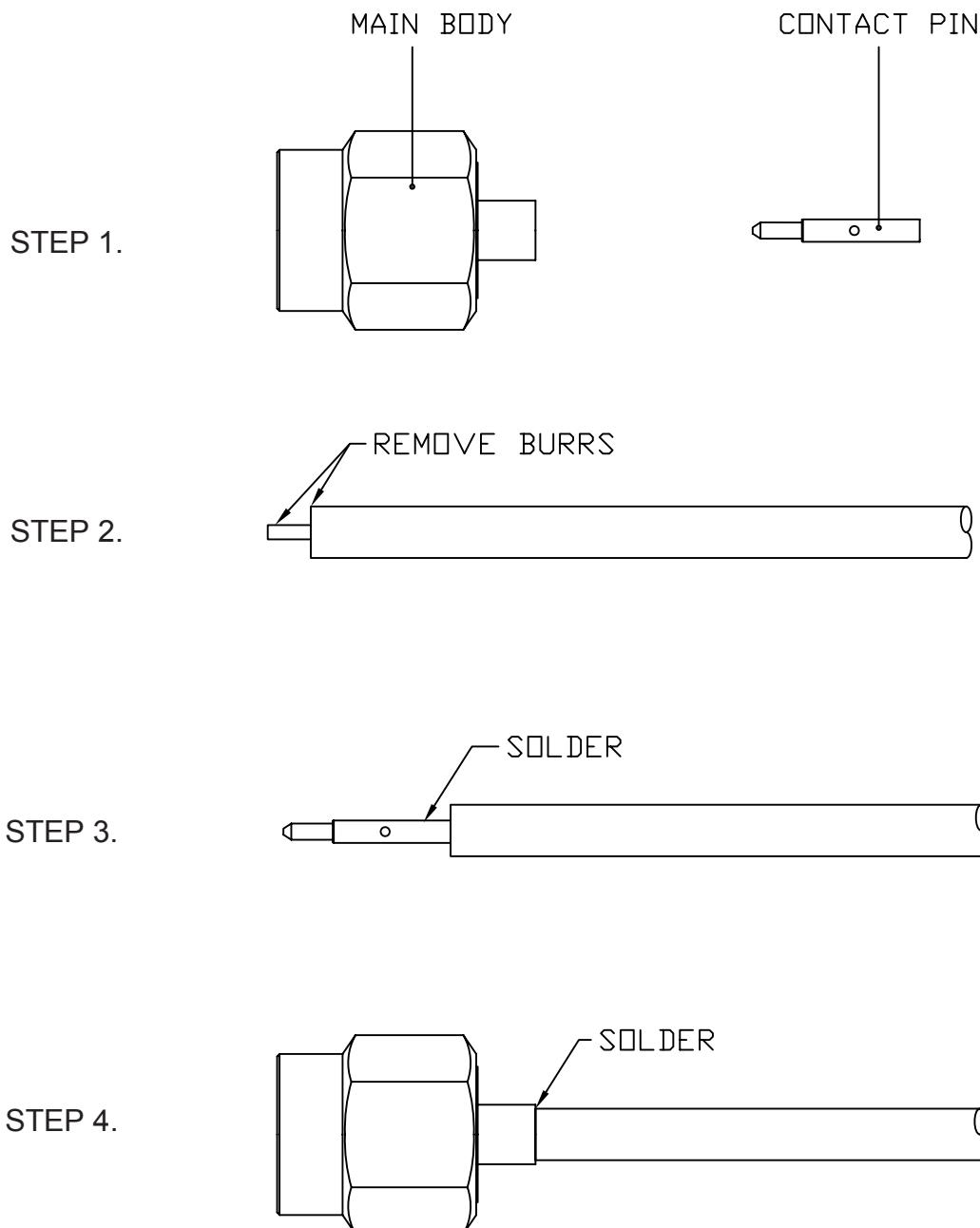
STEP 1. A II parts of the connector are shown.

STEP 2. S trip the inner conductor, dielectric.

STEP 3. S older inner conductor to the contact pin of MAIN BODY, and solder cable jacket to the MAIN Body as shown.

STEP 4. S crew the NUT into the MAIN BODY until it stops.

## Cable Assembly Instructions-Solder (Semi-Rigid)



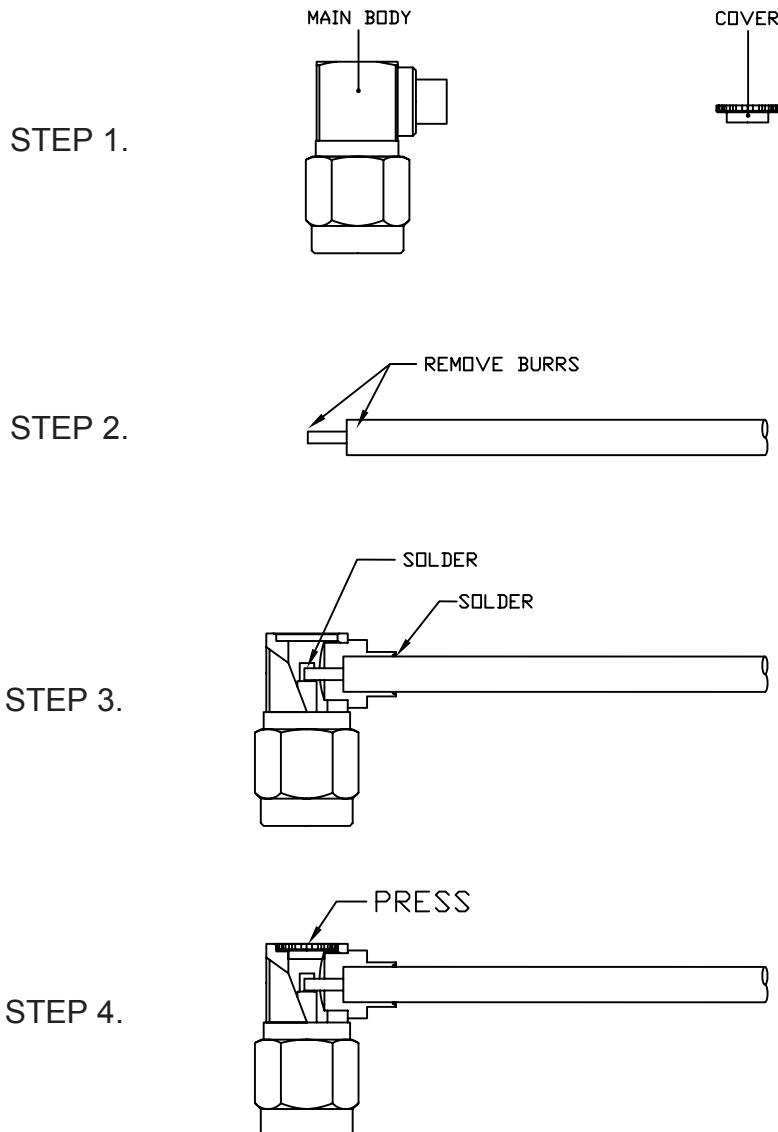
**STEP 1. A** ll parts of the connector are shown.

**STEP 2. S** trip the inner conductor, dielectric.

**STEP 3.** Insert inner conductor into the **CONTACT PIN** and solder it as shown.

**STEP 4. S** older the **MAIN BODY** to cable as shown.

## Cable Assembly Instructions-Solder (Semi-Rigid)



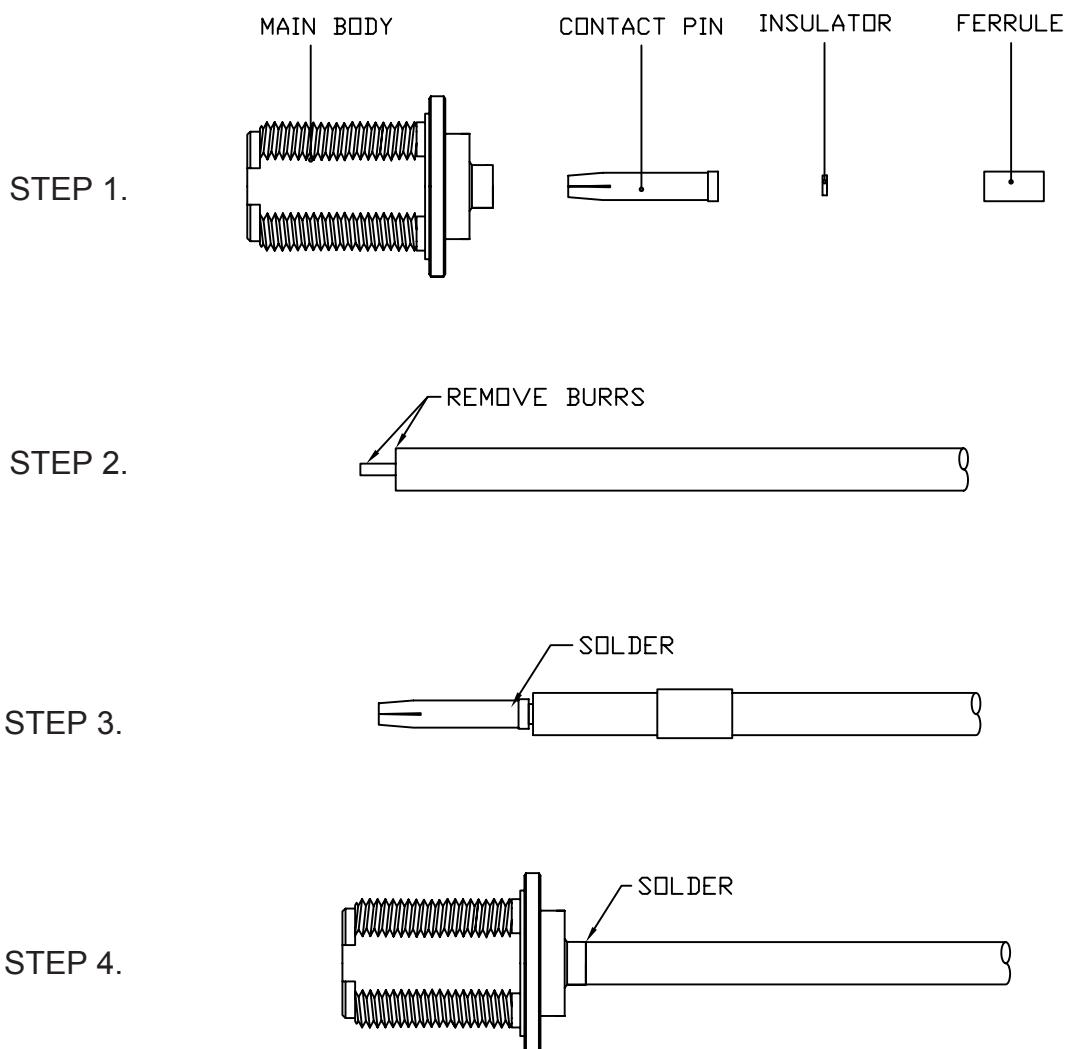
**STEP 1. A** ll parts of the connector are shown.

**STEP 2. S**trip the inner conductor, dielectric.

**STEP 3.** Solder inner conductor to the contact pin of **MAIN BODY**, and solder cable jacket to the **MAIN BODY** as shown.

**STEP 4. P**ress the **COVER** into the **MAIN BODY** until it flat with the **MAIN BODY**.

## Cable Assembly Instructions-Solder (Semi-Rigid)



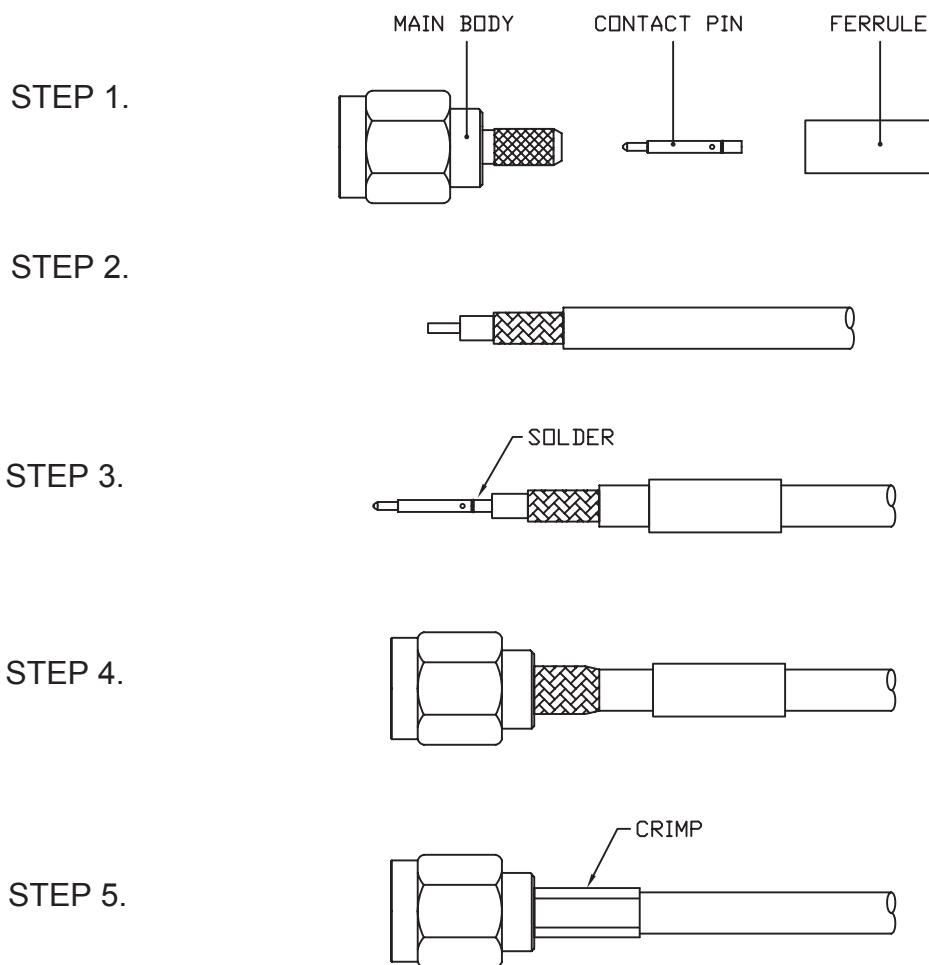
**STEP 1. A** ll parts of the connector are shown.

**STEP 2. S**trip the cable inner conductor, dielectric.

**STEP 3.** Slide FERRULE onto cable and INSULATOR onto center conductor.  
Insert inner conductor into the CONTACT PIN and solder it as shown.

**STEP 4. P**ush cable and parts into the MAIN BODY until it stops. Solder the  
MAIN BODY to cable as shown.

## Cable Assembly Instructions-Solder / Crimp



**STEP 1. A** All parts of the connector are shown.

**STEP 2. S** Strip the cable inner conductor, dielectric, braid.

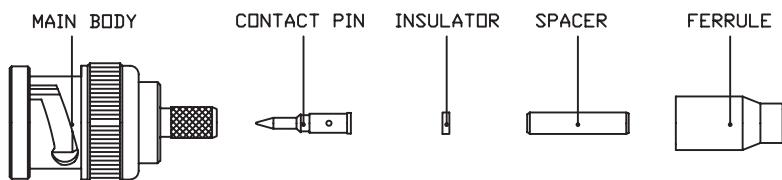
**STEP 3.** Insert inner conductor into the CONTACT PIN and solder it as shown.  
Then slide the FERRULE onto cable.

**STEP 4. I** Insert the MAIN BODY into braid and dielectric.

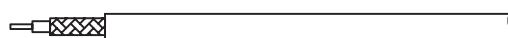
**STEP 5. S** Slide the FERRULE over braid and crimp it .

## Cable Assembly Instructions-Solder / Crimp

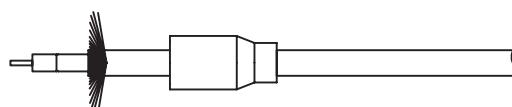
STEP 1.



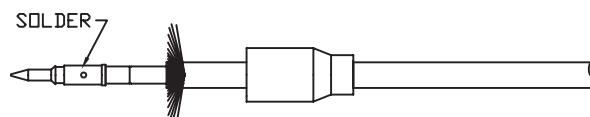
STEP 2.



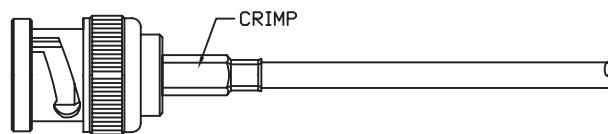
STEP 3.



STEP 4.



STEP 5.



STEP 1. A      II parts of the connector are shown.

STEP 2. S      strip the inner conductor, dielectric, braid .

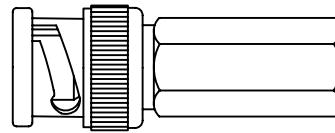
STEP 3. S      slide the FERRULE onto cable, then fold back braid wire and slide the SPACER and INSULATOR onto dielectric as shown.

STEP 4. I      insert inner conductor into the CONTACT PIN and solder it .

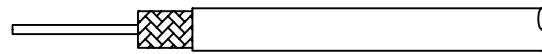
STEP 5.      Push cable and parts into the MAIN BODY until it stops. Then slide the FERRULE over braid wire and against the MAIN BODY, crimp it .

## Cable Assembly Instructions-Solder / Crimp

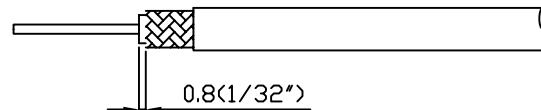
STEP 1.



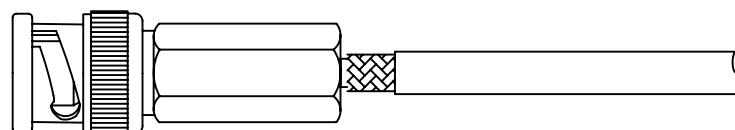
STEP 2.



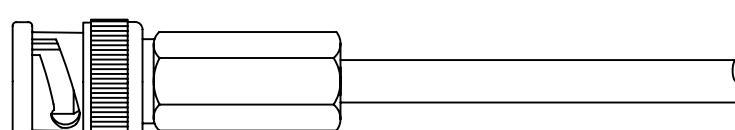
STEP 3.



STEP 4.



STEP 5.



STEP 1. The connector is shown.

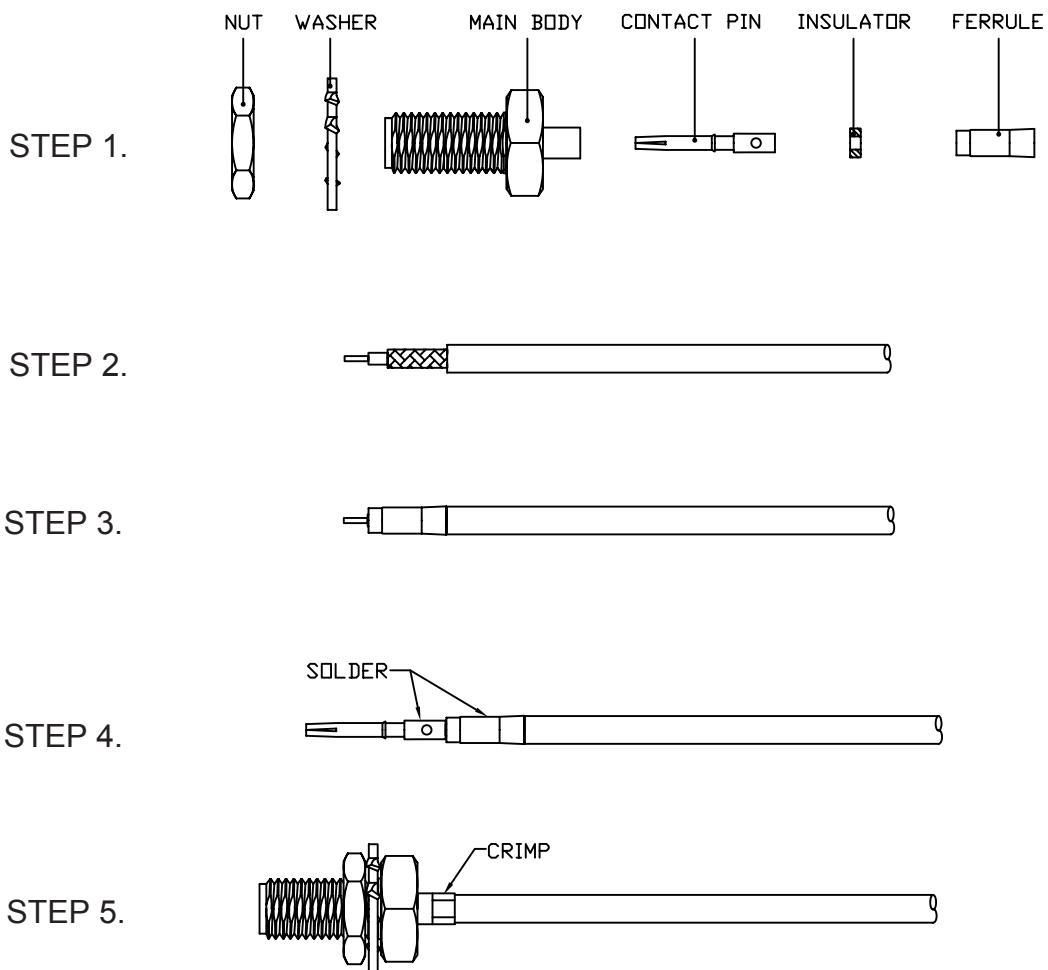
STEP 2. S trip the cable inner conductor, dielectric, braid.

STEP 3. T wist braid in a clockwise direction so that at least 0.8mm of dielectric is bared, and braid is left flat.

STEP 4. Insert inner conductor into the back end of connector gently, and feed it into the guide hole.

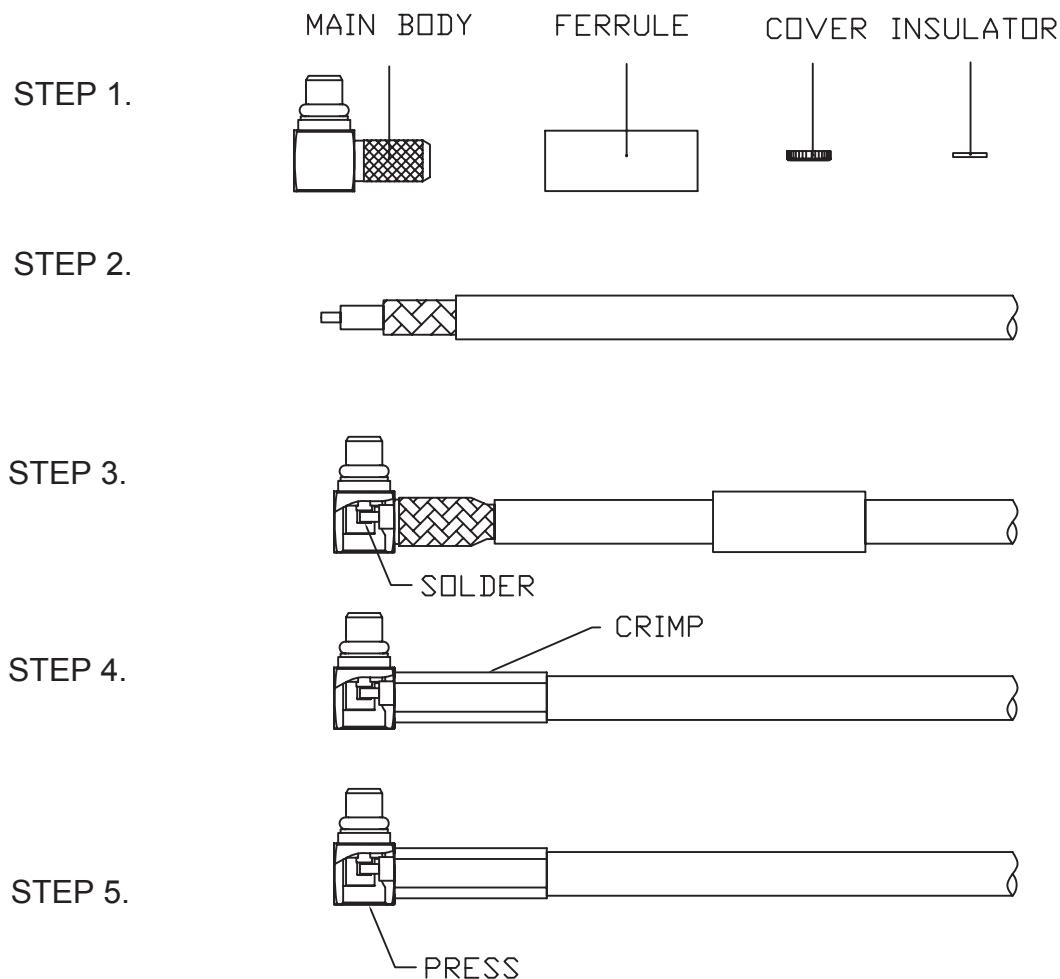
STEP 5. Push and screw the connector onto cable in a clockwise direction until it stops.

## Cable Assembly Instructions-Solder / Crimp



- STEP 1.** All parts of the connector are shown.
- STEP 2.** Strip the inner conductor, dielectric, braid.
- STEP 3.** Slide the FERRULE onto braid and solder, then INSULATOR onto dielectric as shown.
- STEP 4.** Insert inner conductor into the CONTACT PIN and solder it as shown.
- STEP 5.** Push FERRULE into the MAIN BODY until it stops. Then crimp it as shown.

## Cable Assembly Instructions-Solder / Crimp



STEP 1. A      All parts of the connector are shown.

STEP 2. S      strip the inner conductor, dielectric, braid .

STEP 3. S      slide the FERRULE onto cable, insert the MAIN BODY into braid and dielectric, then solder inner conductor to the contact pin of MAIN BODY as shown.

STEP 4. S      slide the FERRULE over braid and crimp it .

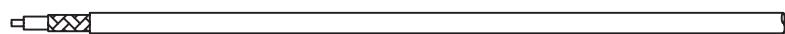
STEP 5.      Press the COVER into the MAIN BODY until it flat with the MAIN BODY.

## Cable Assembly Instructions-Solder / Crimp

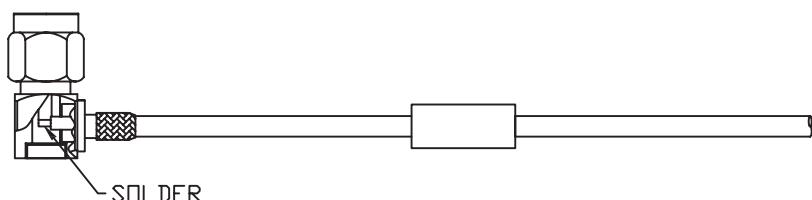
STEP 1.



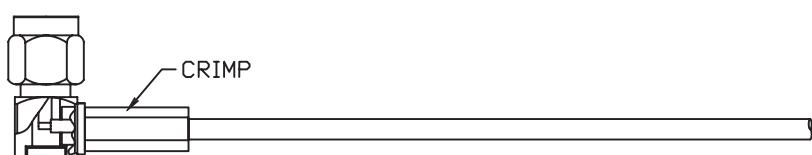
STEP 2.



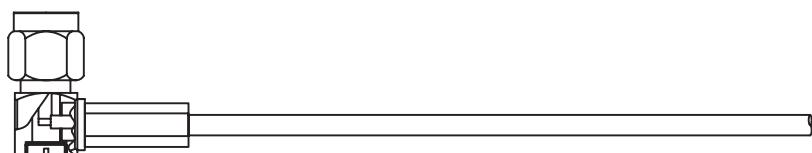
STEP 3.



STEP 4.



STEP 5.



STEP 1. A All parts of the connector are shown.

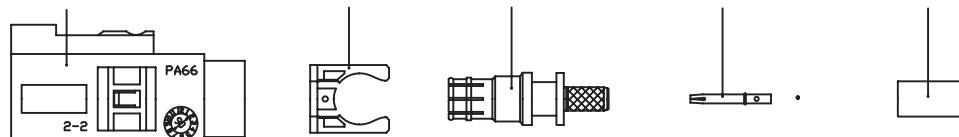
STEP 2. S Strip the cable inner conductor, dielectric, braid.

STEP 3. S Slide the FERRULE onto cable, insert the MAIN BODY into braid and dielectric, then solder inner conductor to the contact pin of MAIN BODY as shown.

STEP 4. S Slide the FERRULE over braid and crimp it.

STEP 5. S Screw the COVER into the MAIN BODY until it stops.

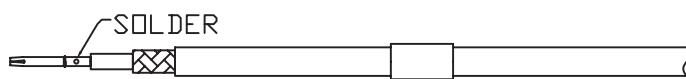
STEP 1. PLASTIC HOUSING      LOCK CLIP MAIN BODY      CONTACT PIN FERRULE



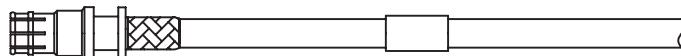
STEP 2.



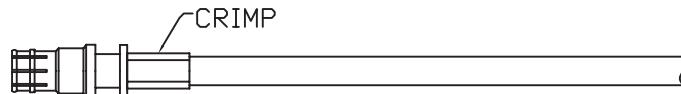
STEP 3.



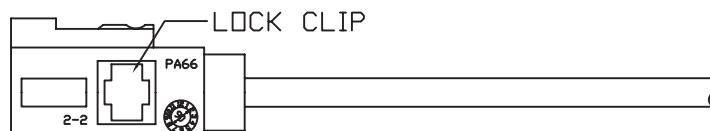
STEP 4.



STEP 5.



STEP 6.



STEP 1. A      All parts of the connector are shown.

STEP 2. S      Strip the inner conductor, dielectric, braid.

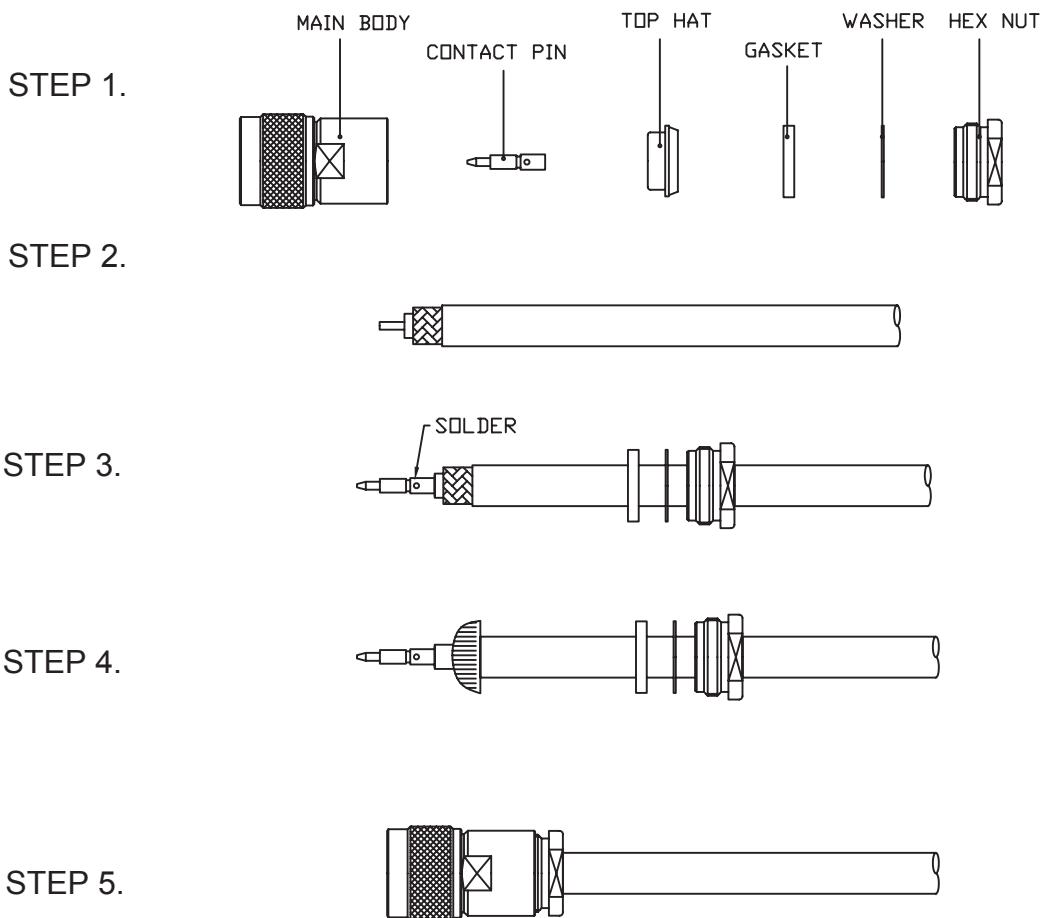
STEP 3. I      Insert inner conductor into the CONTACT PIN and solder it. Then slide the FERRULE onto cable.

STEP 4.      Insert the MAIN BODY into braid and dielectric.

STEP 5. S      Slide the FERRULE over braid and crimp it .

STEP 6. I      Insert MAIN BODY into the PLASTIC HOUSING, and press the LOCK CLIP into it.

## Cable Assembly Instructions-Clamp / Solder



**STEP 1. A** ll parts of the connector are shown.

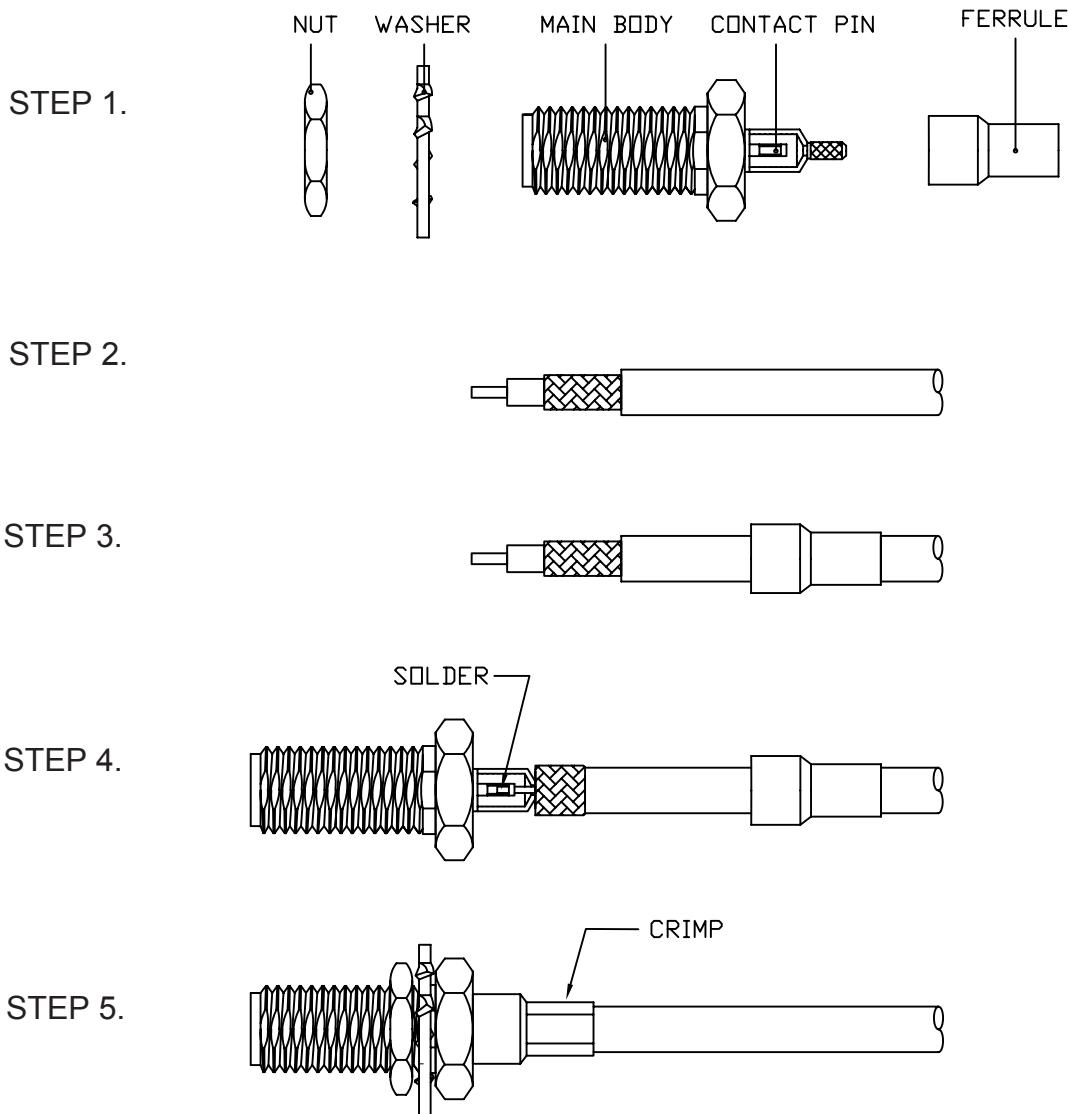
**STEP 2. S**trip the inner conductor, dielectric, braid .

**STEP 3. I** nsert inner conductor into the CONTACT PIN and solder it as shown.  
Then slide the HEX NUT, WASHER, and GASKET onto cable one by one.

**STEP 4. P**lace the TOP HAT over braid and push back against cable jacket.  
Fold back braid wire as shown.

**STEP 5. I**nsert cable and parts into the MAIN BODY, then screw the HEX NUT until it is tightened.

## Cable Assembly Instructions-Crimp



**STEP 1. A** All parts of the connector are shown.

**STEP 2. S**trip the inner conductor, dielectric, braid.

**STEP 3.** Slide the FERRULE onto cable.

**STEP 4.** Solder inner conductor to contact pin of the MAIN BODY as shown.

**STEP 5.** Slider the FERRULE over braid; crimp it.