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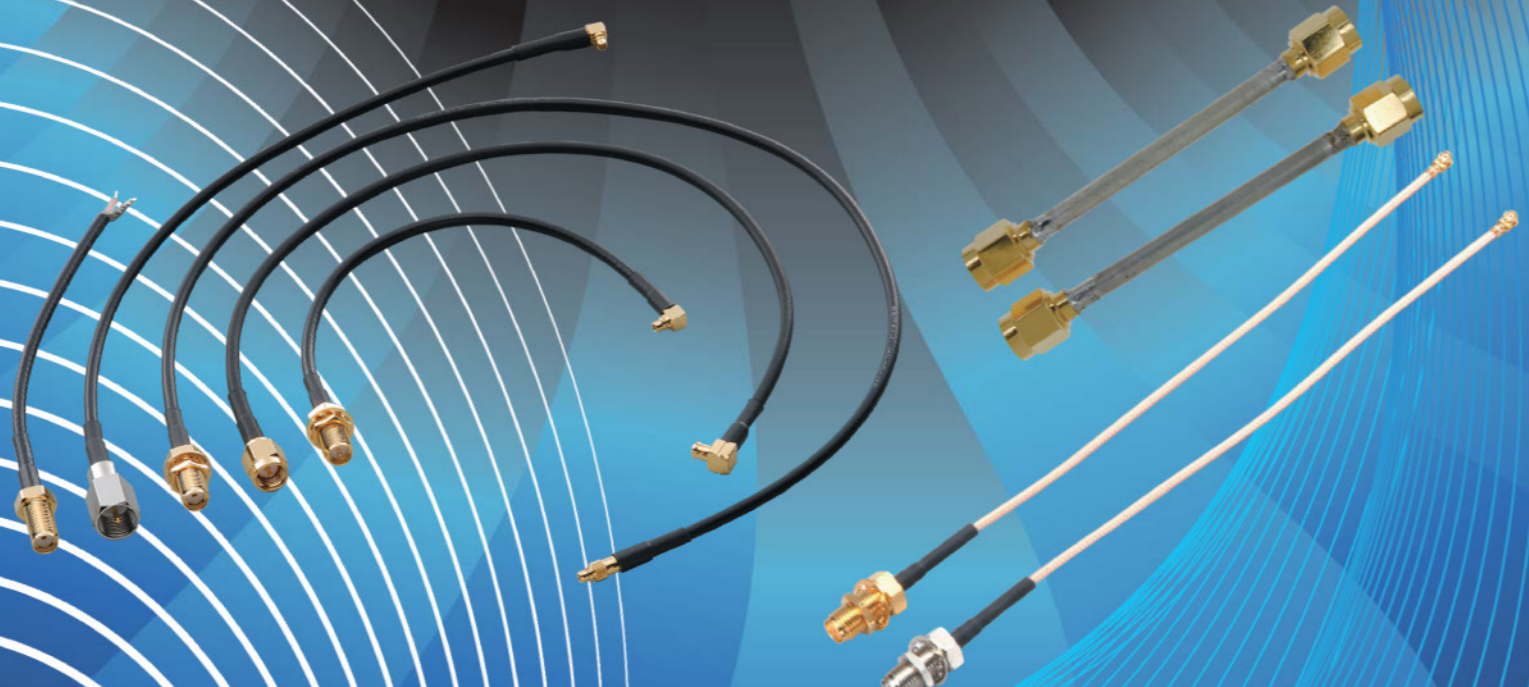
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Hank Sun



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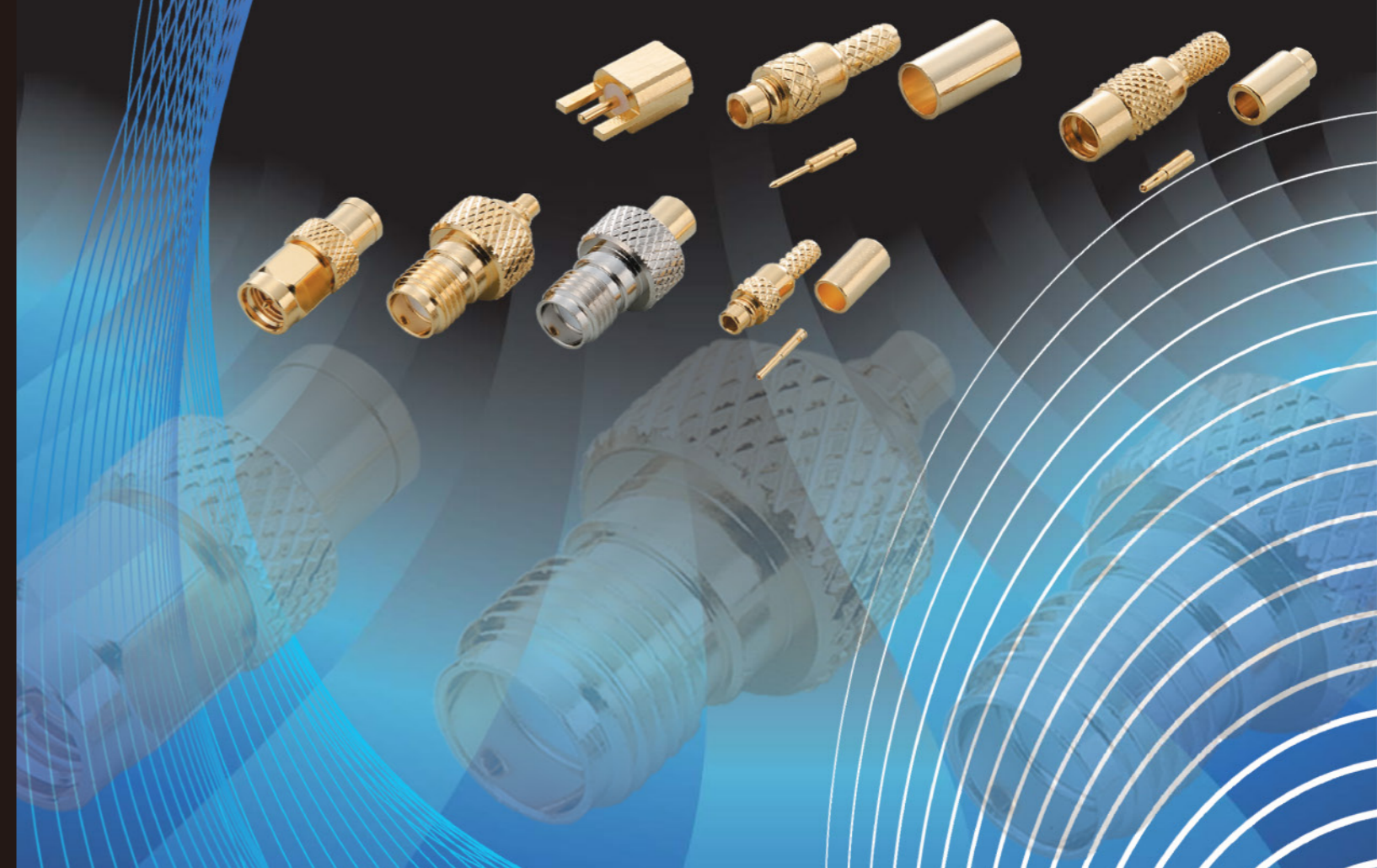
S-CONN ENTERPRISE CO., LTD.

**RF/Microwave Connectors
Cable Assemblies**

S-CONN ENTERPRISE CO., LTD.



2011



1. MMCX
2. MCX
3. 1.0/2.3
4. 1.6/5.6
5. SMA
6. SMB
7. SMZ
8. Reverse Polarity (RP)
9. BNC
10. 12G-SDI BNC
11. Twin BNC
12. TNC
13. N
14. UHF
15. Mini UHF
16. F
17. FME
18. SSMB
19. SMC
20. SMP
21. BMA
22. Ultra Tiny BNC
23. Surge Protector Series
24. Other Series
25. Adapter
26. Cable Assembly instruction



Connector and cable play a significant role for interconnection. S-Conn knows how important it is. To meet that commitment, we integrate both together to provide customers with a total solution.

For connectors, advanced CNC machines and measuring equipments to ensure the dimensions in range. After terminating with cable, a Vector Network Analyzer to guarantee the performance can meet your expectations.

Contact us, and let S-Conn's sales teams to look after your interests.



S-Conn started running in 2008 and provides an extensive range of connectors that are primarily used in the industries of communications and information processing for products such as CATV, cellular phone, data communications, and many other applications.

Product Range

This publication will help you to select the proper S-Conn RF/Microwave connectors to meet your requirements. To this end, we have included virtually all S-Conn coaxial connectors in one volume. Our RF/Microwave connectors are furnished in a wide variety of styles and configurations to suit almost any design requirements. In addition to the standard ranges, custom-built connectors to meet customer specifications can be designed, developed and manufactured by S-Conn.

RF-Cable Assemblies

As a result of many years of experience in interconnection technology, S-Conn is now able to provide a broad range of coaxial assemblies to meet the ever more demanding specifications requested by customers. Today, S-Conn is here to take care of our customers' needs. We are happy and proud to commit ourselves to provide the best solutions, with quick and cost effective professional response to our customers.

Hand Tools Guide for RF & Microwave Connector

S-Conn also provides a broad choice of hand tool to meet exact production needs for cable connectors. This combination of connector and hand tools guarantee trouble-free terminations at a low applied cost.

Nowadays, to meet of oversea market, S-Conn is putting the marketing policy of " highest Quality, competitive price " in practice. We would like to reiterate that we accept customization of products to suit your requirements.

New Product

Please surfing our web regularly to see what we are developing.

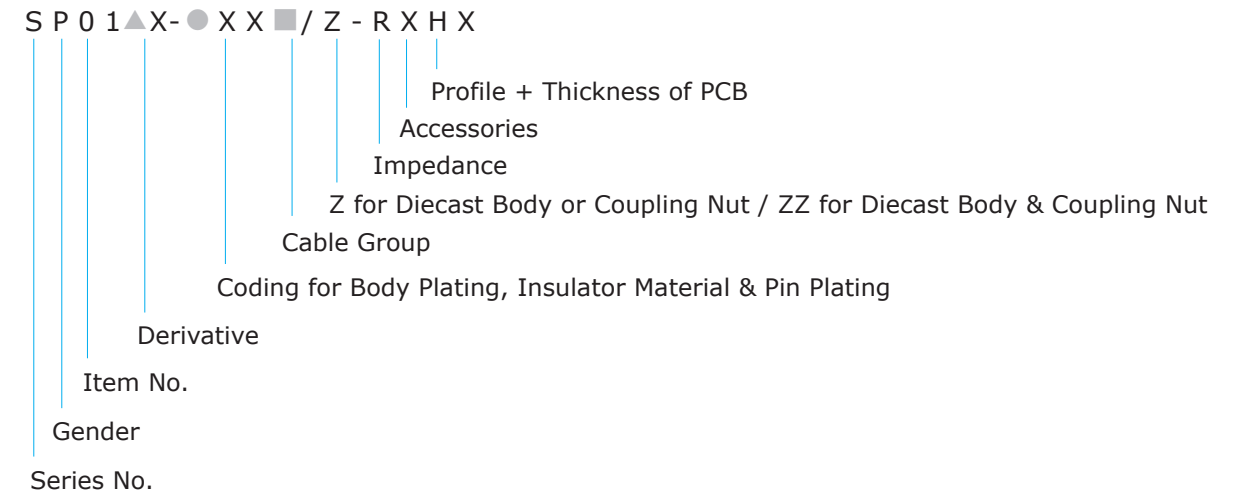
Note

Only the most commonly used products are included here; should you require other styles, contact our local agent or sales department of S-Conn.



Ordering Information

RF/Microwave Connector Part Number is Constructed as Follows Part Number:



RF/Microwave Connector Part Number Series & Abbreviation

A	FME Series	K	2.92 Series	SB	SMB Series
AL	Alprox	L	2.4 Series	SC	SMC Series
A-	Adapter	M	Mini UHF Series	LA	Lightning Arrester
B	BNC Series	MC	MC-Card Series	SM	SSMB Series
BM	BMA Series	MM	MMCX Series	SO	Solderless Series
BT	SMZ(BT43) Series	MX	MCX Series	SP	SMP Series
C	1.0/2.3 Series	N	N Series	SS	SSMA Series
D	DIN 7/16	Q	QMA Series	SV	SHV Series
E	European Series	R	RCA Series	T	TNC Series
F	F Series	R*	Reverse Polarity Series (see catalog inside)	TB	Twin BNC Series
G	1.6/5.6 Series			U	UHF Series
HB	12G-SDI BNC Series	S	SMA Series	UB	Ultra Tiny BNC

Gender	
P	Plug
J	Jack
X	Unspecified
T	3-Way

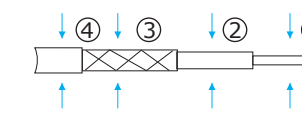
Pin Plating	
G	Gold
S	Silver
N	Nickel
T	Tin

Body Plating	
G	Gold
S	Silver
N	Nickel
T	Tin
BC	Black Chrome
BN	Black Nickel
M	White Bronze
P	SUS Passivated

Insulator	
T	PTFE
D	Delrin
TX	TPX
B	Bakelite
A	ABS
P	PBT
PP	Polypropylene
PE	Polyethylene
PR	PR Polyamide Resin

Customized Connector

For any customized connector, please provide the OD of each section on cable per drawing on the right with impedance.



1. OD of Conductor
2. OD of Dielectric
3. OD of Braided Wire
4. OD of Outer Jacket

Ordering Information

Cable Group Coding Table

Code	Cable Group	Code	Cable Group
A	RG6, 6A, 143, 212, B1694A	AE	B88281
AA	RG6 Plenum, B1695A	AF	B8227, 89207
B	RG8A, 213, 393 ; URM67 ; B8267	AG	B1694A, B9248
BB	RG8X; LMR240; B7808A; H155	AH	RA519
C	RG9, 214	AI	BT2002
D	RG11, 12	AJ	URM202
F	LMR600	AK	CT100LSOH
G	LMR200, B7807A, HDF200, CFD200	AL	LMR300; CFD300
H	RG58; LMR195; HDF195; URM43, 76; B9907; PSF1/6	AM	CT100; H109F
HH	RG58 Plenum; Thinnet; 122U; B88240, 89907	AN	CT125; H47
I	Mini RG59	AO	CFD400
J	RG59, 62; URM70, 90	AQ	RG108
JJ	RG59/U-20AWG	AR	Digital Video Cable 0.6/2.8/4.5
J1	59/U Plenum	AS	Type 735
J2	59/U Plenum-20 AWG	AT	B1855A
JT	RG59, 62 Teflon	AV	HF-Kabel KOKA 777(75 Ohm)
K	B9913; LMR400; B7810A, 8214, RG8	AZ	1.37 Cable
L	RG55, 142, 223, 400	AY	1.48 Cable
L5	LL335	BA	Dacar 302 (198259000)
LL	L910(Nexans)	BC	B1794A
M	RG174, 188, 316; B7805A; URM95, LMR100A	BD	BT2003
MM	316/U Double Braided	BE	BT3002
N	RG178, 168A, 196	BG	Flex-2(2.0mm)75Ohm
P	RG179, 187; B9221	BZ	1.37 Cable (75Ohm)
PP	179/U Double Braided	P2	PSF 1/2M
Q	401 (.141") ; RG402/U	P3	PSF 1/3M
R	.250, Semi Rigid	P7	PSF 1/7M
S	405 (.085") ; RG405/U	C2	0.6L/2.4 AlZ
T	.047 Semi Rigid	CA	1.5C-2V
U	.086 Semi Rigid (75ohm)	CB	1.5C-2V.CW
V	11/U-14 AWG, B8213, B9292, B7731, B1859A	CC	1.5C-2E
X	0.8 Cable	CD	2.5C-2V
Y	1.13 Cable	CE	2.5C-2V.CW
YZ	1.24 mm	CF	2.5C-2V.S
Z	1.32 Cable	CG	2.5C-2E
XY	Mini Coaxial Cable	CH	3C-2V
DA	0.8D-2V	CI	3C-2V.CW
DB	1.5D-2V	CJ	3C-2W
DC	2.5D-2V	CK	3C-2W.S
DD	3D-2V	CL	3C-2T
DE	5D-2V	CM	3C-2E
DF	5D-2W	CN	5C-2V
DG	8D-2V	CO	5C-2V.S
DH	10D-2V	CP	5C-2W
DI	8DSFA	CQ	5C-2E
DJ	5DFB	CR	7C-2V
DK	12DFB	CS	7C-2E
DL	10DFB	CT	10C-2V
AB	B89113	CV	10C-2W
AC	RG180, 195, 122; B8218, 1865A, B185	CW	10C-2E
AD	B8281, 9231, 9141	CY	4C-2V
		CZ	2C-2V

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We reserve the right to change the design w/ o notice.

MMCX Series

Description

The MMCX family of products is a 6 GHz 50 ohm interconnection system.

Applications

- PCMCIA Cards
- Wireless Applications
- Antennas
- Wireless LANs
- Broadband communications
- Instrumentation
- RF Test Ports
- Cellular Telephones
- Global Positioning Systems (GPS)
- Base Stations
- Radio Boards
- Satellite Reception Terminals

Features

- Mating cycles ≥ 500
- Conforms to CECC 22000 specifications.
- Interface according to CECC 22340, EN 122340



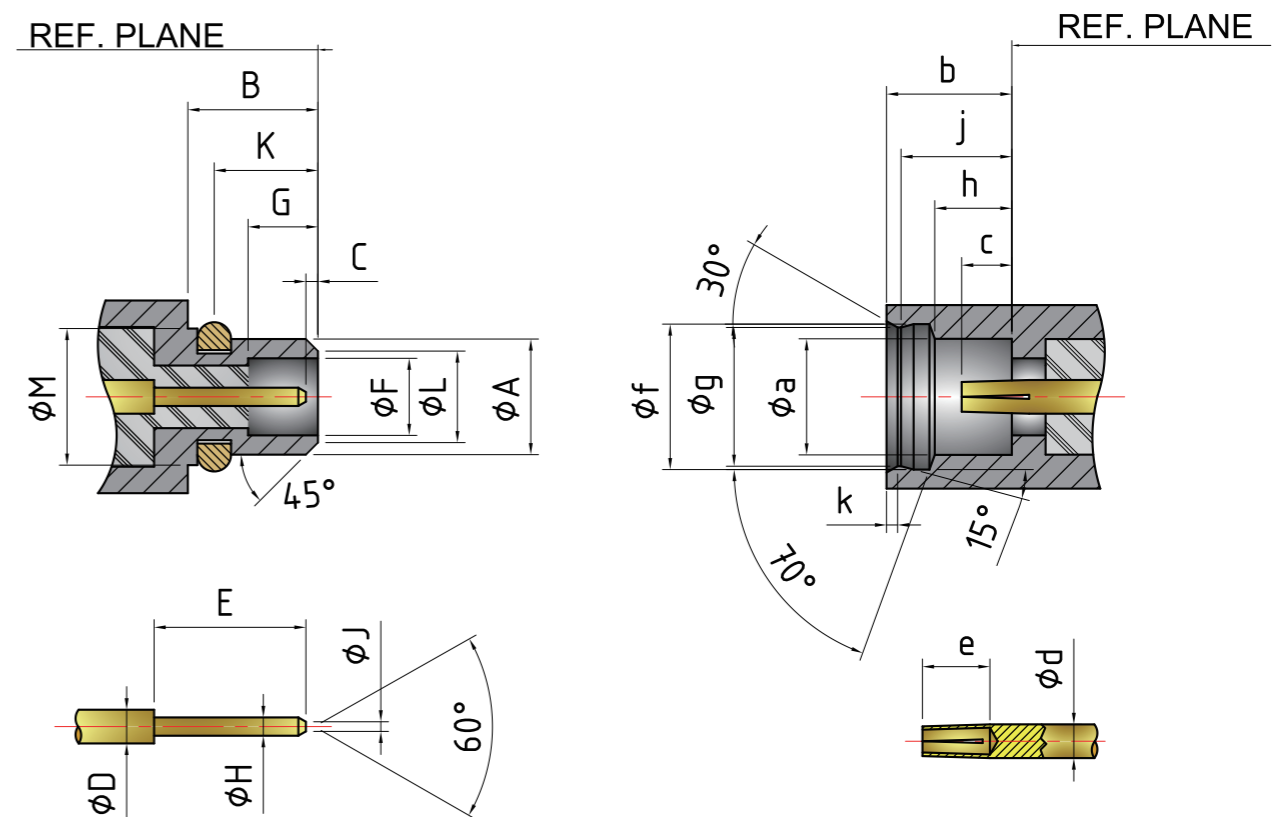
Specification

MMCX

MMCX, micro-miniature connectors are designed with a 50 ohm characteristic impedance, The working frequency is up to 6 GHz. The reliable snap-on mating design offers "low RF-leakage". Also, the small dimensions allow you to use the connectors where space requirements are critical.

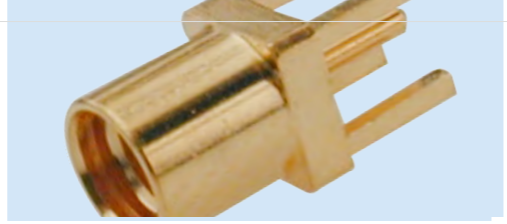
MMCX connectors are most commonly seen on external GPS antennas on small devices like PDAs or GPS receivers.

Interface Mating Dimensions



Letter	Millimeters/Inchs	
	Minimum	Maximum
A	-	2.40(.094)
B	2.70(.106)	-
C	0.00(.000)	0.25(.010)
D	0.70(.028)nom	
E	-	3.15(.124)
F	1.58(.062)	1.62(.064)
G	1.45(.057)	-
H	0.38(.015)	0.42(.017)
J	-	0.20(.008)
K	2.08(.0819)	2.12(.0835)
L	2.00(.0787)	-
M	-	2.83(.111)

Letter	Millimeters/Inchs	
	Minimum	Maximum
a	2.41(.095)	-
b	2.60(.102)	2.69(.106)
c	0.90(.035)	1.20(.047)
d	0.70(.028)nom	
e	1.40(.055)	-
f	3.00(.118)	3.04(.120)
g	2.88(.113)	2.90(.114)
h	1.57(.062)	1.63(.064)
j	2.30(.090)	2.34(.092)
k	0.18(.007)	0.23(.009)



Electrical

Impedance	50Ω
Frequency Range	0 to 6 GHz
VSWR	≤1.15 @ DC to 4 GHz ≤1.40 @ 4 to 6 GHz
RF Leakage	≥60 dB (flexible cable) ≥70 dB (semi-rigid cable)
Dielectric Withstanding Voltage	500 V rms
Voltage Rating	≤170 V rms (depending on cable)
Inner Contact Resistance	≤10 mΩ
Outer Contact Resistance	≤5 mΩ
Insulation Resistance	≥1 GΩ

Mechanical

Mating	Snap-on Coupling
Connector Durability	≥500 Cycles (for beryllium copper female contact only)
Engagement Force	≤3.4 lbs
Disengagement Force	1.4 lbs ~ 3.4 lbs
Cable Retention Force	≥7.3 lbs (for RG178) ≥12.1 lbs (for RG316)

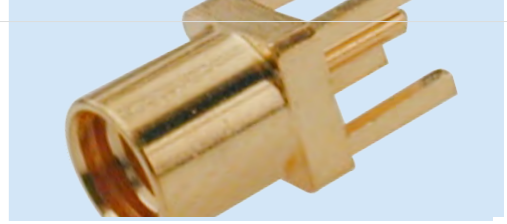
Environmental

Temperature Range	-55° C to 155° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. C
Thermal Shock	MIL-STD-202, Method 107, Cond. F
Mechanical Shock	MIL-STD-202, Method 213, Cond. B

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male : Brass Female : Phosphor Bronze Beryllium Copper	Gold
Insulator	PTFE	
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.



Crimp Type (for Flexible Cable)

MMCX S/T Plug, Crimp Type

<p>MM101</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

MMCX R/A Plug, Crimp Type

<p>MM105</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

MMCX R/A Plug, Crimp Type

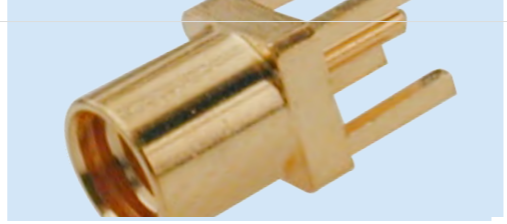
<p>MM110</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

MMCX S/T Jack, Crimp Type

<p>MM201</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

MMCX R/A Jack, Crimp Type

<p>MM204</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C



MMCX B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG178/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

Solder Type (for Semi-Rigid Cable)

MMCX S/T Plug, Solder Type

		Hand Tool	Nil
		Cable	RG402/U, 405/U, and more....
		Cable Assembly Instruction	See Appendix A Code M

MMCX R/A Plug, Solder Type

		Hand Tool	Nil
		Cable	Cable : RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code N

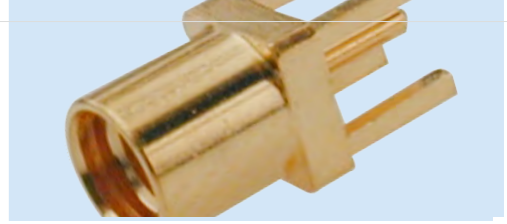
MMCX S/T Jack, Solder Type

		Hand Tool	Nil
		Cable	RG402/U, 405/U, and more....
		Cable Assembly Instruction	See Appendix A Code M

Edge Mount Type

MMCX S/T Plug, Edge Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing



MMCX S/T Plug, Edge Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

MMCX S/T Jack, Edge Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

Panel Mount Type

MMCX P/M 2-Hole Jack, Receptacle

		Hand Tool	Nil
		Cable	Nil

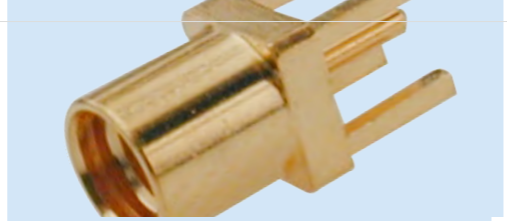
PCB Mount Type

MMCX S/T Plug, PCB Mount Type


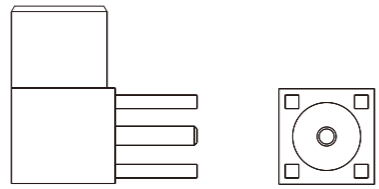
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

MMCX S/T Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


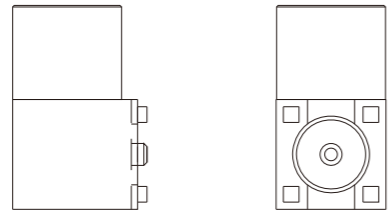


MMCX R/A Jack, PCB Mount Type


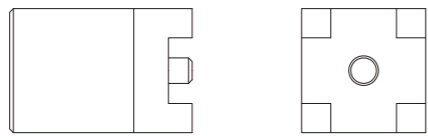
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMT Type


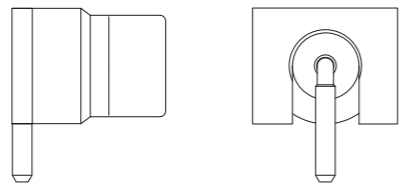
MMCX R/A Jack, SMT Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

MMCX S/T Jack, SMT Type


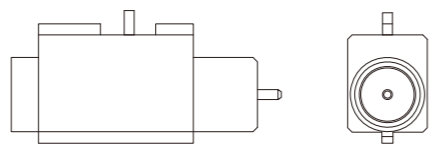
		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

MMCX S/T Jack, SMT Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

Switch

MMCX Jack Switch, Edge Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

MCX Series

Description

MCX provides broadband capability through 6 Ghz. Ranges of configurations are available including printed circuit board and cable termination. This series gives design engineers options in applications where weight and physical space are limited.

Applications

- Telecommunications
- Instrumentation
- Wireless
- Process Controls
- PC/LAN

Features

- Low cost combined with high quality.
- Broadband performance with low reflection DC to 6 GHz.
- Quick connect/disconnect snap-on mating.
- 50 ohm impedance.
- Interface according to IEC 169-36, CECC 22220

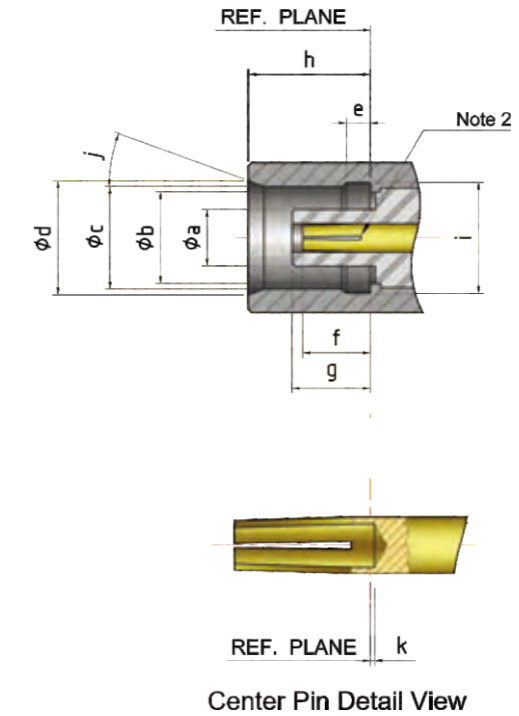
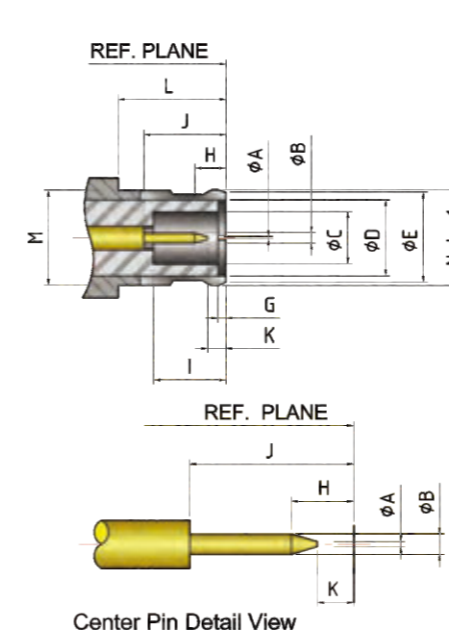


Specification

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 Mating Dimensions



Note :
1. Must meet the force to engage and disengage when mated with mating part.

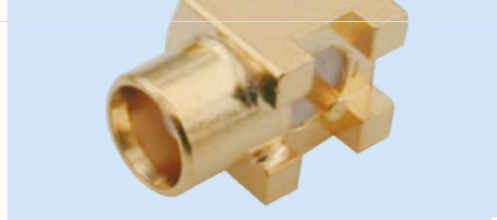
Note :
2. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.653) male contact.

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	—	0.25(.010)
B	0.48(.019)	0.53(.021)
C	2.00(.079)	—
D	—	3.00(.118)
E	—	3.60(.142)
G	0.00(.000)	0.30(.012)
H	—	1.20(.047)
I	2.80(.110)	—
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(.071)	1.98(.078)
b	3.05 NOM	
c	3.42(.135)	3.48(.137)
d	3.80(.150)	—
e	0.75(.029)	0.85(.033)
f	2.30(.091)	2.80(.110)
g	2.60(.102)	2.80(.110)
h	4.00(.157)	4.12(.162)
i	3.60(.142)	3.75(.148)
j	18°	22°
k	0.00(.000)	—
m	—	3.00(.118)



Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 6 GHz
VSWR	≅ 1.2
RF Leakage	≧ 60 dB (flexible cable) ≧ 70 dB (semi-rigid cable)
Dielectric Withstanding Voltage	750 V rms
Voltage Rating	≧ 335 V rms (depending on cable)
Inner Contact Resistance	≅ 5 mΩ
Outer Contact Resistance	≅ 2.5 mΩ
Insulation Resistance	≧ 1 GΩ

Mechanical

Mating	Snap-on Coupling
Connector Durability	≧ 500 Cycles (for beryllium copper female contact only)
Engagement Force	≅ 3.4 lbs
Disengagement Force	1.4 lbs ~ 3.4 lbs
Cable Retention Force	≧ 7.3 lbs (for RG178) ≧ 12.1 lbs (for RG316)

Environmental

Temperature Range	-55° C to 155° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. C
Thermal Shock	MIL-STD-202, Method 107, Cond. F
Mechanical Shock	MIL-STD-202, Method 213, Cond. B

Material


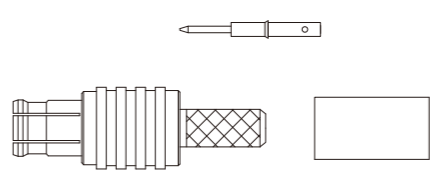
Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Outer Contact	Beryllium Copper	Gold or Nickel
Inner Contact	Male : Brass Female : Phosphor Bronze Beryllium Copper	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.


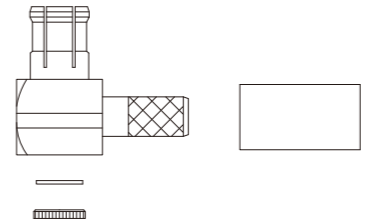


Crimp Type (for Flexible Cable)


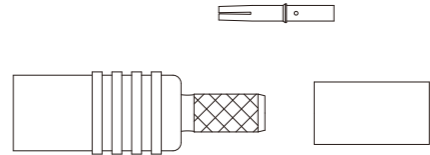
MCX S/T Plug, Crimp Type

 <p>MX101</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


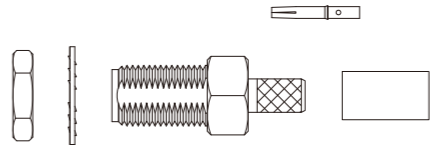
MCX R/A Plug, Crimp Type

 <p>MX102</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C


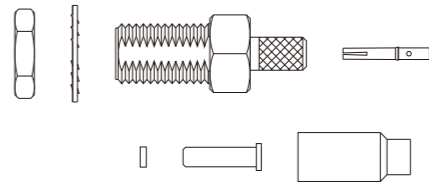
MCX S/T Jack, Crimp Type

 <p>MX201</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

MCX B/H Jack, Crimp Type

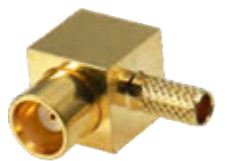
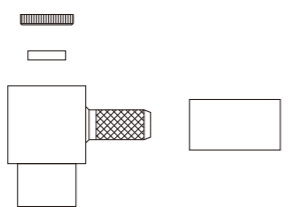
 <p>MX204</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

MCX B/H Jack, Crimp Type

 <p>MX210</p>		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178 and more....
		Cable Assembly Instruction	See Appendix A Code E


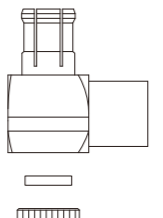


MCX R/A Jack, Crimp Type


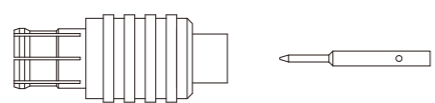
 <p>MX235</p>		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

Solder Type (for Semi-Rigid Cable)


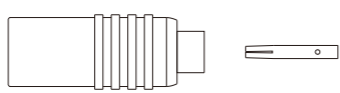
MCX R/A Plug, Solder Type

 <p>MX121</p>		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code N


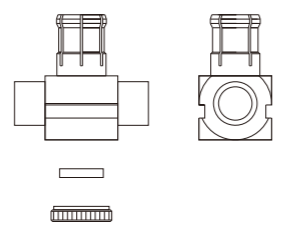
MCX S/T Plug, Solder Type

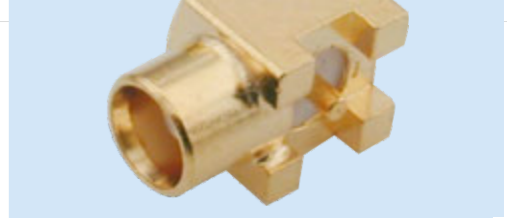
 <p>MX122</p>		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

MCX S/T Jack, Solder Type

 <p>MX221</p>		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M


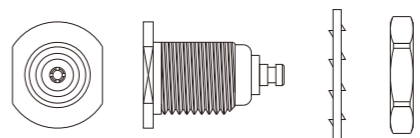
MCX T-Style Plug, Solder Type

 <p>MX501</p>		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code N




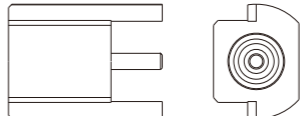
Chassis Mount Type

MCX B/H Jack, Receptacle

 <p>MX205</p>		Hand Tool	Nil
		Cable	Nil


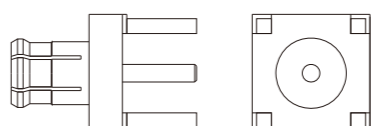
Edge Mount Type

MCX S/T Jack, Edge Mount Type


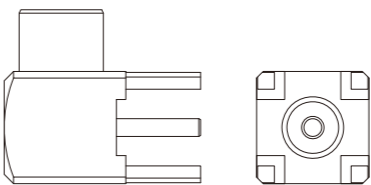
 <p>MX236</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

PCB Mount Type


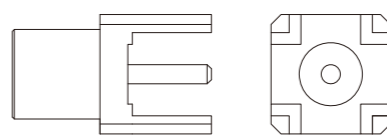
MCX S/T Plug, PCB Mount Type

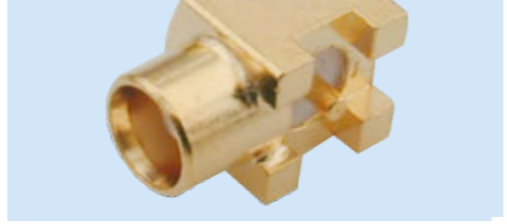
 <p>MX105</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

MCX R/A Jack, PCB Mount Type

 <p>MX208</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

MCX S/T Plug, PCB Mount Type

 <p>MX231</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



SMT Type

MCX R/A Jack, SMT Type

<p>MX209</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

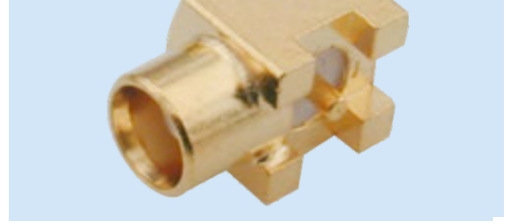
MCX S/T Jack, SMT Type

<p>MX232</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

Switch

MCX Switch Jack, Edge Mount Type

<p>MX904</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing



1.0/2.3 Series

Description

1.0/2.3 coaxial connectors are miniature 50 ohm units with threaded coupling mechanisms which provide positive mating. The compact design of the 1.0 / 2.3 permits dense connector packing, making these connectors ideally suited to applications where space saving is factor.

Applications

- Telecommunications
- Switching equipment and routers
- Datacom

Features

- Meets DIN 41626, DIN 47297 and NFC 93-571 international specifications.
- Plugs and bulkhead jacks available in push pull types ensuring high reliability and a lower installed cost.
- Mates with DIN 41612 Two-Piece connectors.
- Interface according to IEC 169-29, CECC22230, DIN47297

Specification

These connectors have been specially developed for application in communication engineering. The maximum operating frequency of the 50 ohm version is approximately 4 GHz. Plug style are available for screw-on, snap-on (two versions: simple snap-on and an automatic latching quick-lock), and slide-on coupling. Female styles are identical for all versions.

Type A (Screw-on coupling)

The connector is fitted with a coupling nut with which the plug and socket sections can be screwed by hand in accessible locations.

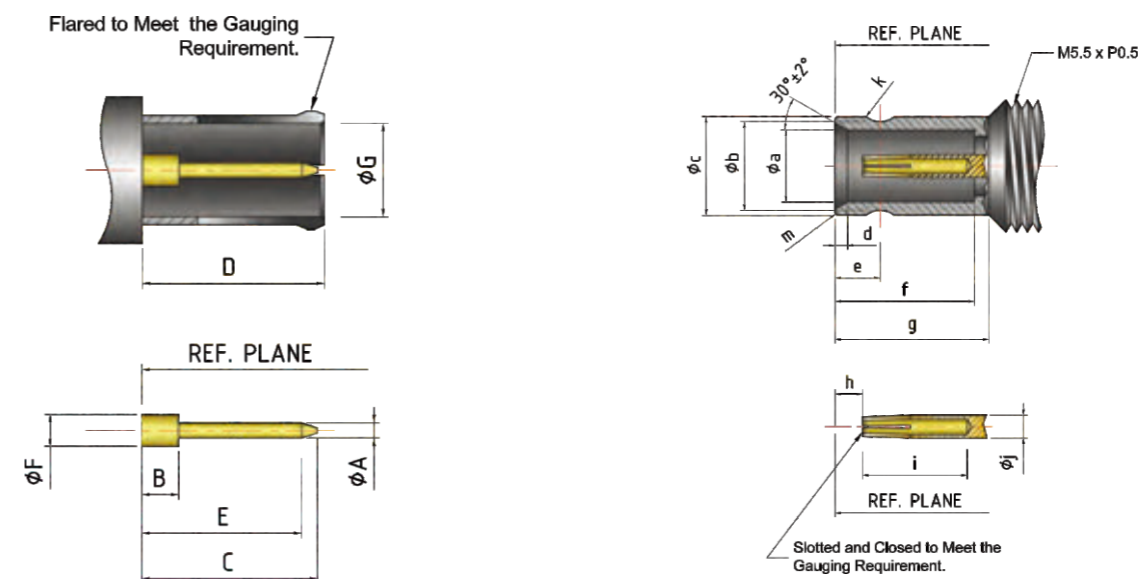
Type C (Slide-on coupling with centering sleeve)

The movable (floating) inserted male connector used in a panel plate is provided with a conical insertion guide to facilitate its connection to the fixed part (female connector). The interconnection is a slide fit.

Type F (Quick-lock automatic latching coupling)

Plugs possess a latching sleeve fitted with an additional spring device which snaps into a corresponding slot of the jack when it plugged together. Pulling the latching sleeve of the plug disengages the connection. Rapid and simple connection and disconnection is possible.

Interface Mating Dimensions



PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	0.48(.0187)	0.52(.0205)
B	—	1.15(.045)
C	—	5.50(.217)
D	5.40(.213)	5.70(.224)
E	4.50(.177)	—
F	1(.039)NOM.	
G	2.3(.091)NOM.	

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	3.00(.118)	3.06(.120)
b	3.53(.139)	3.60(.142)
c	4.03(.159)	4.14(.163)
d	0.50(.020)	0.60(.024)
e	1.80(.071)	1.90(.075)
f	5.80(.228)	5.90(.232)
g	6.40(.252)	6.50(.256)
h	1.15(.045)	1.75(.069)
I	4.50(.177)	—
j	1(.039)NOM.	
k	Radius 0.80±0.05(.03±.002)	
m	Radius 0.3 .010 MAX.	





Electrical	
Impedance	50Ω / 75Ω
Frequency Range	0 to 10 GHz / 0 to 2 GHz
VSWR	≤ 1.4
RF Leakage	≥ 90 dB
Dielectric Withstanding Voltage	750 V rms
Voltage Rating	250 V rms (depending on cable)
Inner Contact Resistance	≤ 10 mΩ
Outer Contact Resistance	≤ 3 mΩ
Insulation Resistance	≥ 1 GΩ

Mechanical	
Mating	Screw-on / Slide-on / Quick-lock
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Engagement Force	≤ 2.3 lbs
Disengagement Force	≤ 2.3 lbs
Cable Retention Force	≥ 12.1 lbs (for RG316, RG179)

Environmental	
Temperature Range	-40° C to 85° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. A
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. B

Material		
Parts Name	Material	Plating
Male (Plug)	Body:Brass Outer Contact:Phosphor Bronze Inner Contact:Brass	Nickel Gold Gold
Female (Jack)	Body:Brass Inner Contact:Beryllium Copper	Gold/ Nickel Gold
Insulator	PTFE	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

1.0/2.3 S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 179/U, 316/U, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code E

1.0/2.3 R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 179/U, 316/U, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code H

1.0/2.3 S/T Plug, Dual Crimp Type (Type A, Screw-On Coupling)

		Hand Tool	See Appendix B
		Cable	Belden 1855A Cable (75 Ohm) and more....
		Cable Assembly Instruction	See Appendix A Code E

1.0/2.3 B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 179/U, 316/U, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code E

PCB Mount Type

1.0/2.3 S/T Jack, PCB Mount Type


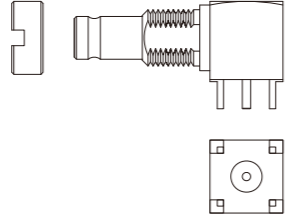
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



1.0/2.3 R/A Bulkhead Jack, PCB Mount Type

1.0/2.3

1.0/2.3

 <p>C204</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

1.6/5.6 Series

Description

1.6/5.6 coaxial connectors are miniature 75 ohm units with threaded coupling mechanisms which provide positive mating. The compact design of the 1.6/5.6 permits dense connector packing, making these connectors ideally suited to applications where space limitation is an important factor.

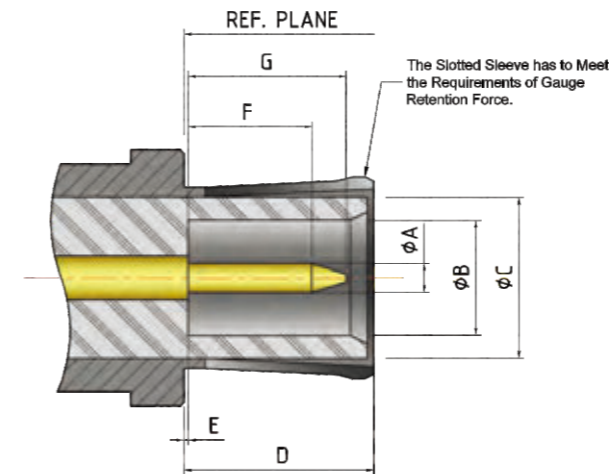
Applications

- Telecommunications
- Switching equipment and routers

Features

- 1.6/5.6 connectors meet IEC 169-13, DIN 47295 and NFC 93-570 international specifications.
- 1.6 / 5.6 plugs and bulkhead jacks are available as crimp termination types ensuring high reliability in connector assembly and a lower cost installation method.
- Interface according to IEC 169-13, DIN 47295

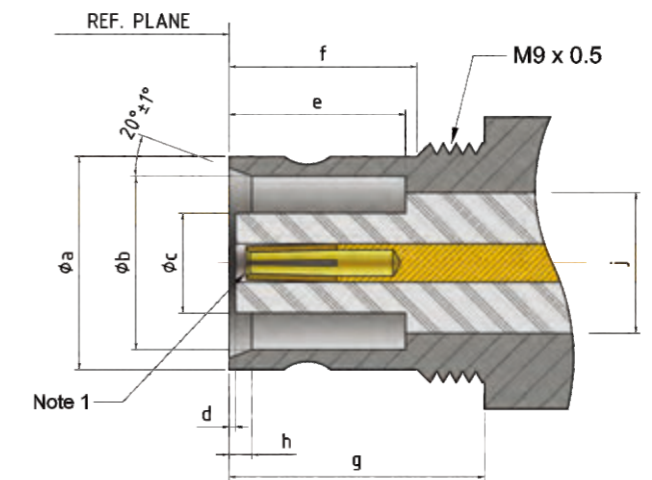
Interface Mating Dimensions



Note :
Each Diameter shall be Concentric with a Common Axis within t/2. Where t is the Total Tolerance of that Diameter.

PLUG

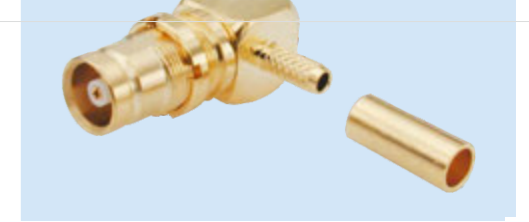
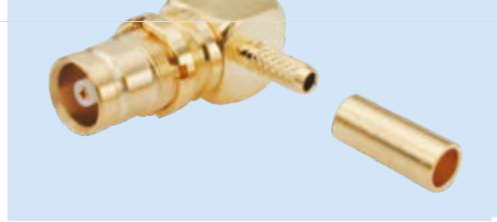
Letter	Millimeters (inches)	
	Minimum	Maximum
A	0.97(.0382)	1.03(.0406)
B	4.00(.157)	—
C	5.60(.220) NOM.	
D	6.40(.252)	6.60(.260)
E	—	0.15(.0059)
F	3.90(.1535)	4.30(.1693)
G	—	5.50(.217)



Note 1: Dimensions shall be chosen to meet the specified insertion/ withdrawal force of this standard.

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	8.10(.319)	8.25(.325)
b	6.60(.260)	6.69(.263)
c	0.90(.035)	3.80(.150)
d	0.25(.010)	—
e	6.70(.264)	7.50(.295)
f	7.00(.276)	—
g	9.70(.382)	1.10(.043)
h	0.90(.035)	—
j	5.60(.220) ref.	



Electrical

Impedance	75Ω
Frequency Range	0 to 1 GHz
VSWR	≤1.2
RF Leakage	≥100 dB
Dielectric Withstanding Voltage	1000 V rms
Voltage Rating	≥335 V rms (depending on cable)
Inner Contact Resistance	≤4 mΩ
Outer Contact Resistance	≤2 mΩ
Insulation Resistance	≥10 GΩ

Mechanical

Mating	M9xP0.5 Screw-on Coupling
Connector Durability	≥500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	≤6.75 lbs
Engagement Force	0.5 lbs ~ 2.7 lbs
Disengagement Force	0.5 lbs ~ 2.7 lbs
Cable Retention Force	≥12.1 lbs (for RG179) ≥38.3 lbs (for RG59)

Environmental

Temperature Range	-40° C to 85° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. B

Material

Parts Name	Material	Plating
Male (Plug)	Body/Metal parts:Brass Outer Contact:Phosphor Bronze Inner Contact:Brass	Nickel Gold Gold
Female (Jack)	Body/Metal Parts:Brass Inner Contact:Beryllium Copper Phosphor Bronze	Gold/ Nickel Gold
Insulator	PTFE	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

1.6/5.6 S/T Plug, Crimp Type

<p>G101</p>		Hand Tool	See Appendix B
		Cable	RG59/U, 179/U, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code E

1.6/5.6 R/A Plug, Crimp Type

<p>G102</p>		Hand Tool	See Appendix B
		Cable	RG179/U, BT3002, 2.5C-2V and more....
		Cable Assembly Instruction	See Appendix A Code H

1.6/5.6 B/H Jack, Crimp Type

<p>G201</p>		Hand Tool	See Appendix B
		Cable	RG179/U and more....
		Cable Assembly Instruction	See Appendix A Code E

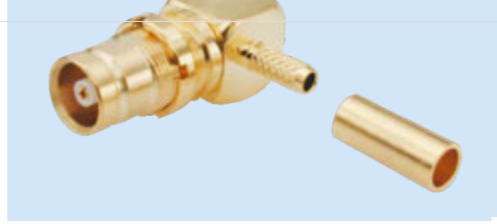
1.6/5.6 R/A Bulkhead Jack, Crimp Type

<p>G205</p>		Hand Tool	See Appendix B
		Cable	RG179/U, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code H


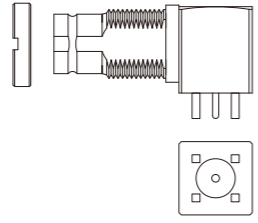
PCB Mount Type

1.6/5.6 B/H Jack, PCB Mount Type


<p>G204</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



1.6/5.6 R/A Bulkhead Jack, PCB Mount Type

 <p>G207</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

1.6/5.6 S/T Jack, PCB Mount Type (75 Ohm)

 <p>G209</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMA Series

Description

SMA connectors are adaptable to interconnection requirements of both systems and components. S-Conn offers a wide variety of cable connectors, receptacles, feed thrus, end launches, and precision adapters to allow for interfacing with other connector.

Applications

- Civil & Military Telecommunication
- Instrumentation
- Wireless
- Process Control PC/LAN
- Microwave Components(power splitters and combiners, filters, amplifiers)

Features

- Commercial Grade (Brass SMA) available.
- Various cable groups including double shielded 316.
- Built in accordance with MIL-C-39012 and CECC 22110 / 1111.
- Gold or stainless steel passivated finish available.
- Interface according to IEC 169-15, EN 122110, MIL-C-39012 SMA, MIL-STD-348



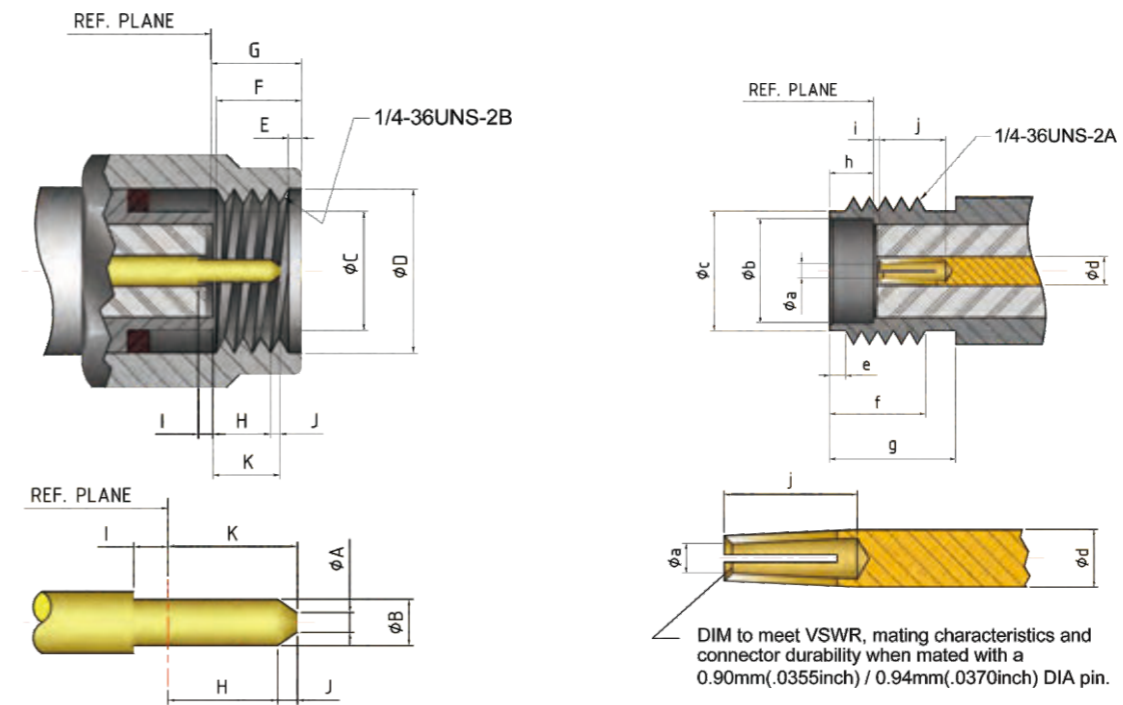
Specification

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 system. 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

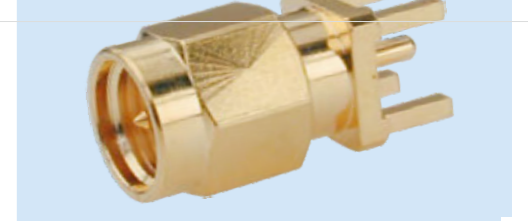
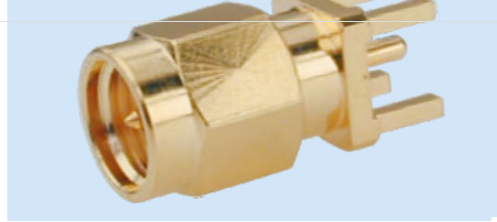


PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	—	0.38(.015)
B	0.90(.0355)	0.94(.037)
C	—	4.59(.1808)
D	6.35(.025)	—
E	0.38(.015)	1.15(.045)
F	3.30(.130)	—
G	—	3.43(.135)
H	1.27(.050)	—
I	0.00(.000)	0.245(.010)
J	—	0.38(.015)
K	—	2.54(.100)

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	0.90(.0355)	0.94(.037)
b	4.60(.181)	—
c	5.28(.208)	5.49(.216)
d	1.25(.049)	1.30(.051)
e	0.38(.015)	1.15(.045)
f	4.32(.170)	—
g	5.54(.218)	—
h	1.88(.074)	1.98(.078)
i	0.00(.000)	0.25(.010)
j	2.92(.115)	—



Crimp Type (for Flexible Cable)

Electrical

Impedance	50Ω
Frequency Range	0 to 18 GHz
VSWR	$\leq 1.2 + .03 f$ (GHz)
RF Leakage	≥ 60 dB
Dielectric Withstanding Voltage	1000 V rms
Voltage Rating	≥ 500 V rms (depending on cable)
Inner Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2.5 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical

Mating	1/4-36 UNS Screw-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	7.1 lbs ~ 9.7 lbs
Coupling Nut Retention Force	≥ 60.7 lbs
Cable Retention Force	≥ 7.3 lbs (for RG178) ≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. I

Material

Parts Name	Material	Plating
Body	Stainless steel Brass	Passivated or Gold Nickel or Gold
Inner Contact	Male: Brass Female: Beryllium Copper Phosphor Bronze	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

SMA B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Cable: 1.32 and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA R/A Plug, Crimp Type

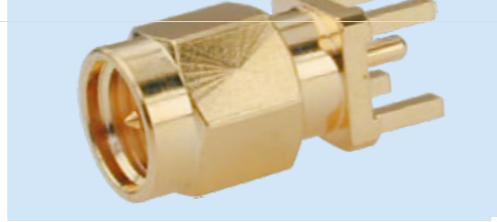
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG8/X, 58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

SMA S/T Plug, Crimp Type


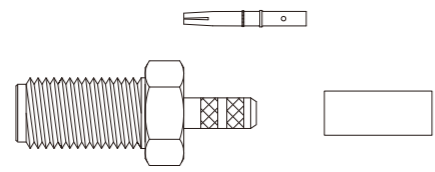
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I

SMA S/T Plug, Crimp Type (Antenna)


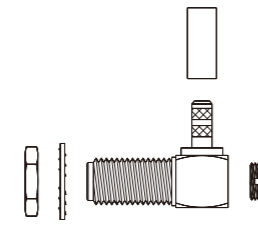
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code M




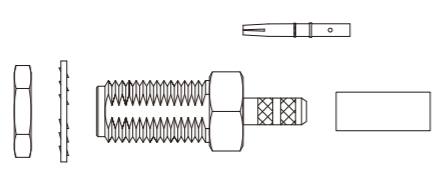
SMA S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


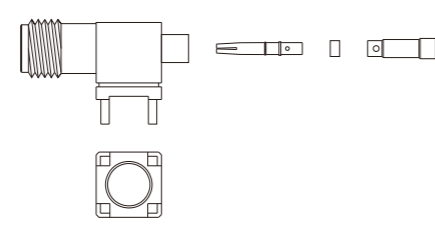
SMA R/A Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H


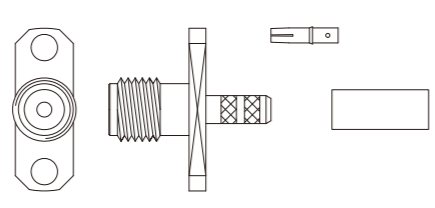
SMA B/H Jack, Crimp Type

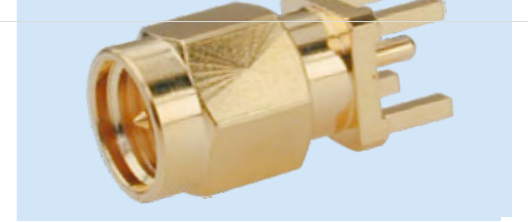
		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA R/A Jack, PCB Mount Crimp Type


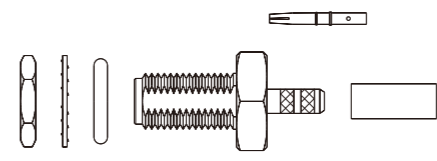
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA P/M 2-Hole Jack, Crimp Type


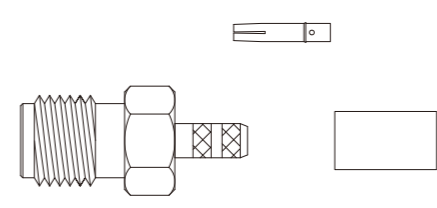
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E




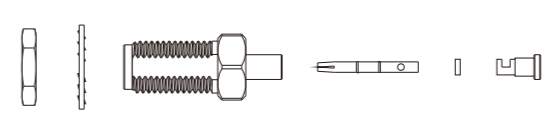
SMA B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


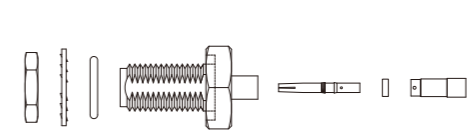
SMA S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG178/U, 174/U, 316/U, 58/U, 142/U, LMR400 and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA B/H Jack, Crimp Type (Direct Solder Type is also available)


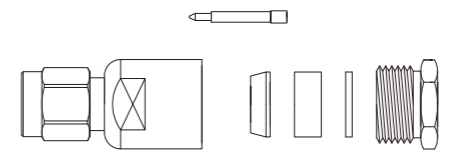
		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I

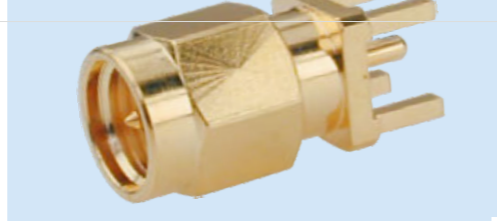
SMA B/H-O Jack, Crimp Type (Direct Solder Type is also available)

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I


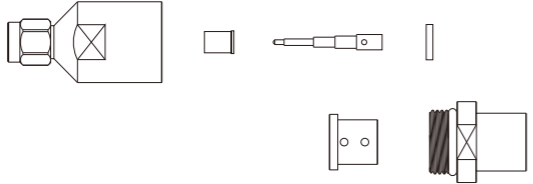
Clamp Type (for Flexible Cable)

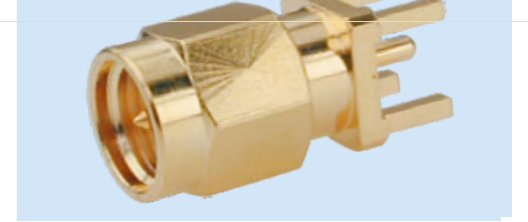
SMA S/T Plug, Clamp Type

		Hand Tool	Nil
		Cable	RG174/U, RG316/U, RG58/U and more....
		Cable Assembly Instruction	See Appendix A Code L


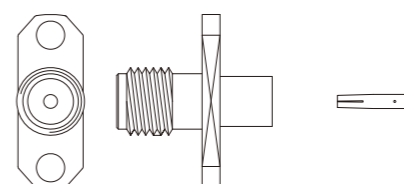


SMA S/T Plug, Clamp Type

		Hand Tool	Nil
		Cable	LL335, and more....
		Cable Assembly Instruction	See Appendix A Code L


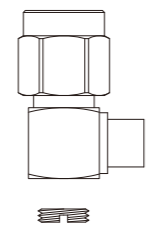


SMA P/M 2-Hole Jack, Solder Type


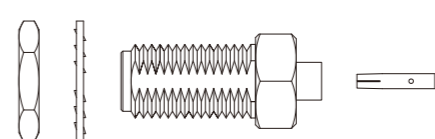
		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

Solder Type (for Semi-Rigid Cable)


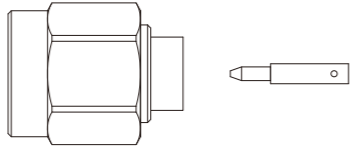
SMA R/A Plug, Solder Type

		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code N

SMA B/H Jack, Solder Type


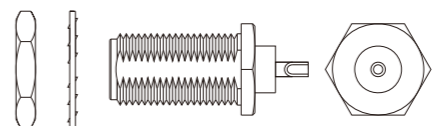
		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

SMA S/T Plug, Solder Type


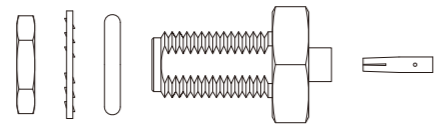
		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

Chassis Mount Type


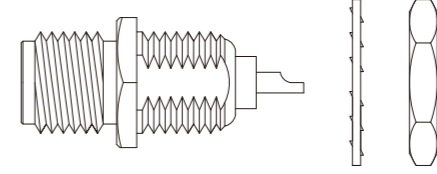
SMA B/H Jack, Solder Type

		Hand Tool	Nil
		Cable	Nil


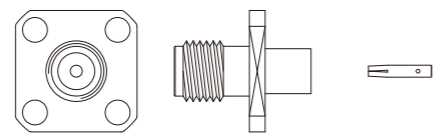
SMA B/H-O Jack, Solder Type

		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

SMA B/H Jack, Front Mount Solder Type


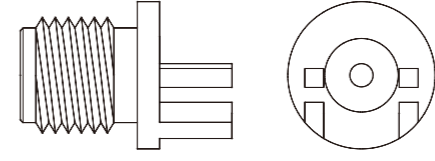
		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Jack, Solder Type

		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

End Launch Type

SMA S/T Jack, End Launch Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing



SMA B/H Jack, End Launch Type

<p>S250</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

SMA S/T Jack, End Launch Type

<p>S251</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

SMA S/T Jack, End Launch Type

<p>S252</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

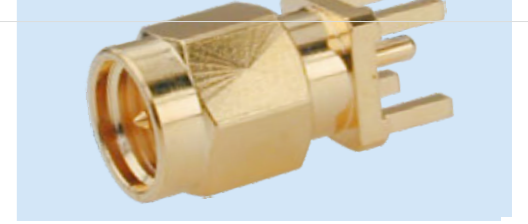
SMA S/T Jack, Edge Mount Type

<p>S278</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

Panel Mount Type

SMA P/M 4-Hole Plug, Receptacle (Tab Contact)

<p>S107</p>		Hand Tool	Nil
		Cable	Nil



SMA P/M 2-Hole Plug, Receptacle (Tab Contact)

<p>S108</p>		Hand Tool	Nil
		Cable	Nil

SMA P/M 2-Hole Plug, Receptacle (Extended PTFE)

<p>S117</p>		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Plug, Receptacle (Extended PTFE)

<p>S119</p>		Hand Tool	Nil
		Cable	Nil

SMA P/M 2-Hole Jack, Solder Type


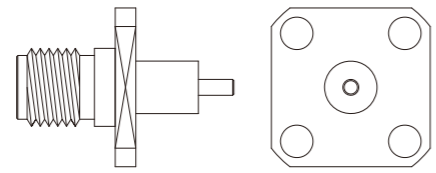
<p>S215</p>		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Jack, Solder Type


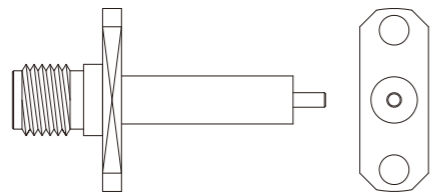
<p>S216</p>		Hand Tool	Nil
		Cable	Nil




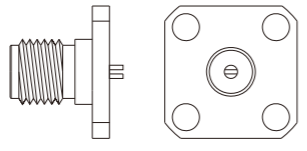
SMA P/M 4-Hole Jack, Receptacle (Extended PTFE)

 S220		Hand Tool	Nil
		Cable	Nil


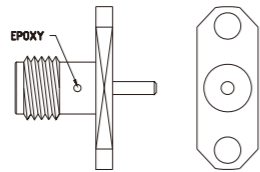
SMA P/M 2-Hole Jack, Receptacle (Extended PTFE)

 S221		Hand Tool	Nil
		Cable	Nil


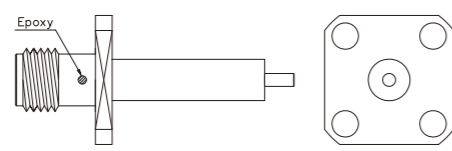
SMA P/M 4-Hole Jack, Receptacle (R-Contact w/Slot)

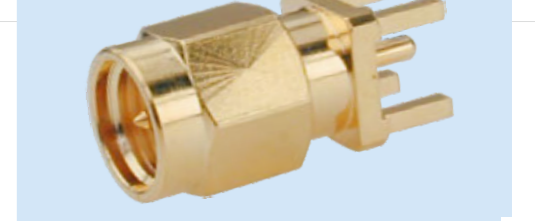
 S222		Hand Tool	Nil
		Cable	Nil

SMA P/M 2-Hole Jack, Receptacle (Epoxy)


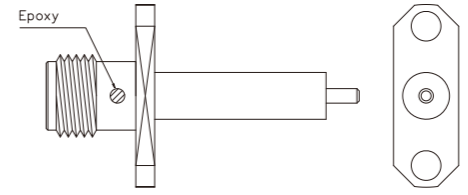
 S236		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Jack, Receptacle (Extended PTFE, Epoxy)


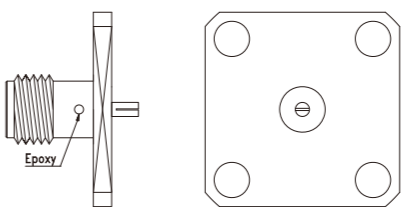
 S253		Hand Tool	Nil
		Cable	Nil




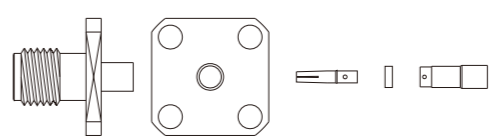
SMA P/M 2-Hole Jack, Receptacle (Extended PTFE, Epoxy)

 S255		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Jack, Receptacle (R-Connect w/Slot, Epoxy)


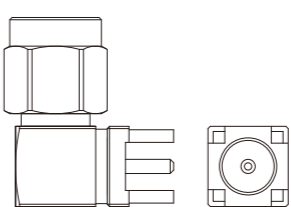
 S277		Hand Tool	Nil
		Cable	Nil

SMA P/M 4-Hole Jack, Crimp Type


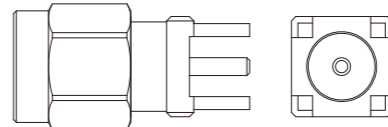
 S281		Hand Tool	Nil
		Cable	Mini Coaxial Cable, RG178/U and more....

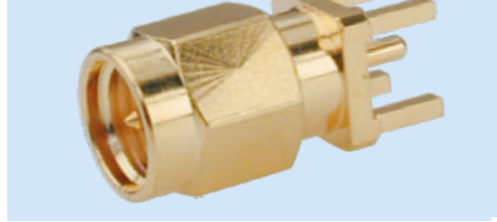
PCB Mount Type

SMA R/A Plug, PCB Mount Type


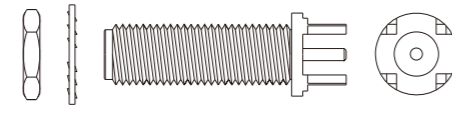
 S103		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMA S/T Plug, PCB Mount Type


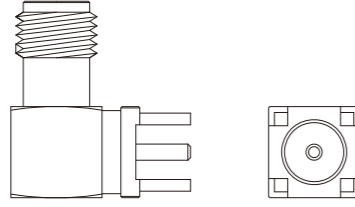
 S105		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing




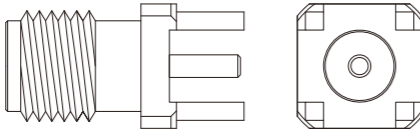
SMA S/T Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


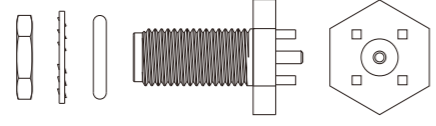
SMA R/A Jack, PCB Mount Type

		Hand Tool	N/A
		Cable	N/A
		PCB Layout	Refer to S-Conn's Drawing


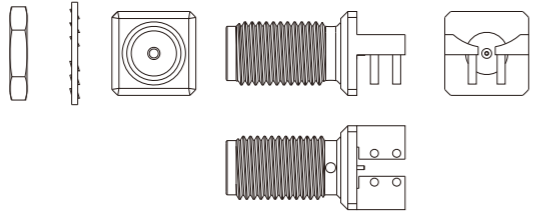
SMA S/T Jack, PCB Mount Type

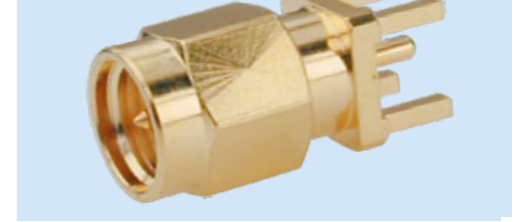
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMA S/T-O Jack, PCB Mount Type


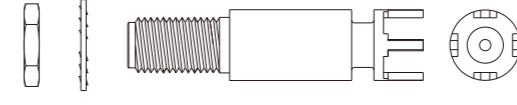
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMA R/A Jack, PCB Mount Type(Epoxy)


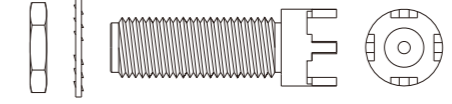
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



SMA S/T Jack, PCB Mount Type


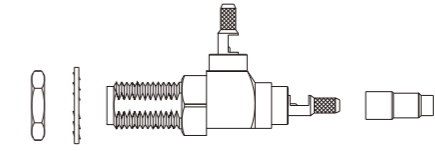
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMA S/T Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


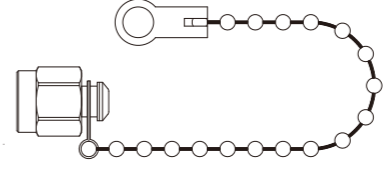
Switch

SMA S/T Jack, PCB Mount Type


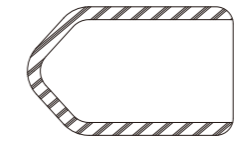
		Hand Tool	Nil
		Cable	1.37 and more....
		Cable Assembly Instruction	Code F

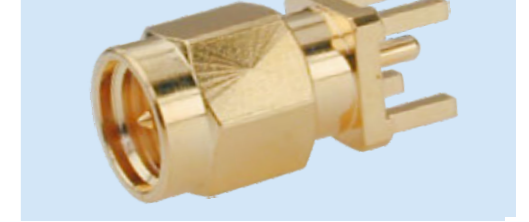
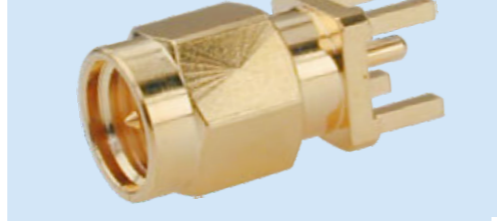
Dust Cap

Dust Cap for SMA Jack

		Hand Tool	Nil
		Cable	Nil


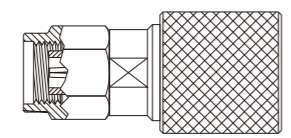
Dust Cap for SMA Jack, Plastic Type

		Hand Tool	Nil
		Cable	Nil


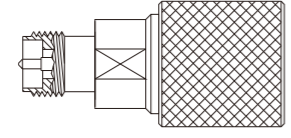


Terminator (SMA)


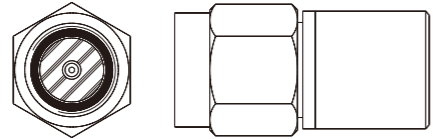
SMA Jack Terminator

 <p>RTE151</p>		Hand Tool	Nil
		Cable	Nil
		VSWR	0-18G <1.2, 1/2W


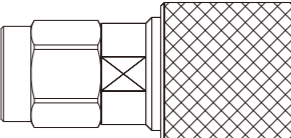
SMA Jack Terminator

 <p>RTE251</p>		Hand Tool	Nil
		Cable	Nil
		VSWR	0-18G <1.2, 1/2W


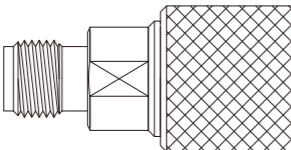
SMA Plug Terminator

 <p>TE150</p>		Hand Tool	Nil
		Cable	Nil
		VSWR	0-6G <1.2

SMA Plug Terminator

 <p>TE151</p>		Hand Tool	Nil
		Cable	Nil
		VSWR	0-18G <1.2, 1/2W

SMA Jack Terminator

 <p>TE251</p>		Hand Tool	Nil
		Cable	Nil
		VSWR	0-18G <1.2, 1/2W

SMA

SMA

SMB Series

Description

The growth rate of these emerging markets has fueled an increasing demand for subminiature coaxial connectors with very good electrical performance to 4 GHz. SMB connectors conform to the requirements of MIL-C-39012 and their interface is in compliance with MIL-STD-348. SMB series connectors feature quick connect / disconnect snap-on mating and are available in 50 ohm, 75 ohm and a high density 75 ohm version. The series has broadband performance with low reflection.

Applications

- Telecommunications
- Test and Measurement
- Instrumentation
- Wireless
- Process Controls
- PC / LAN
- Base Stations
- Microwave Components
- Radio Boards
- Video Systems

Features

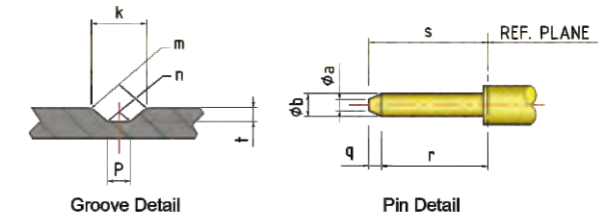
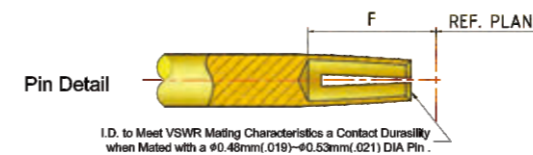
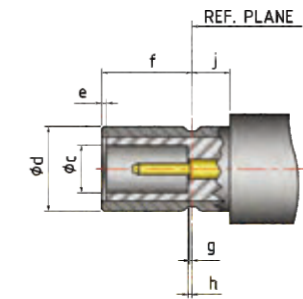
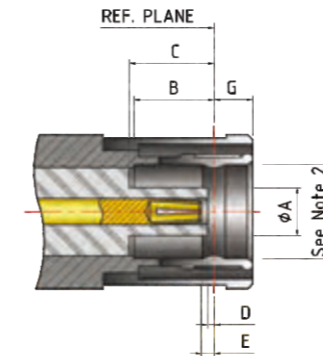
- Low cost combined with high quality.
- Broadband performance with low reflection DC to 4 GHz.
- Quick connect/disconnect snap on mating.
- 50 and 75 ohm impedance.
- Various plating options.
- Braid crimp cable attachment and solder center pin.
- Automated assembly and inspection.
- Especially designed for subminiature packaging needs where snap-on mating is an advantage.
- Interface according to IEC 169-10, CECC 22130, MIL-C-39012 SMB, MIL-STD-348A/311

Specification

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 packaging 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



- Note :
1. Method of Slotting of Inner Contact Optional.
 2. Must Meet the Longitudinal Force Requirements of Force to Engage and Disengage when Mated with Its Mating Gauge.
 3. This Interface shall Meet the Gauge Requirements as Specified in MIL-C-39012/67

- Note :
1. This Interface shall meet the gauge requirements as Specified in MIL-C-39012/68.
 2. Clearance for Mating Connector Coupling Nut.

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	—	2.06(.081)
B	3.58(.141)	—
C	3.58(.141)	—
D	0.18(.007)	—
L	0.18(.007)	0.94(.037)
I	2.97(.117)	—
G	—	1.63(.064)
H	3.05(.120)nom	


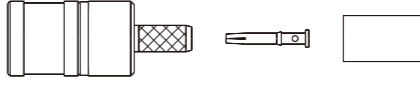
JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	—	0.25(.010)
b	0.48(.019)	0.53(.021)
c	2.08(.082)	—
d	3.66(.144)	3.71(.146)
e	0.00(.000)	—
f	3.33(.131)	3.58(.141)
g	—	0.18(.007)
h	—	0.18(.007)
j	1.65(.065)	—
k	0.69(.027)	0.94(.037)
m	0.05(.002)	0.15(.006)
n	—	0.13(.005)
p	0.28(.011)	0.38(.015)
q	0.25(.010)	—
r	1.32(.052)	—
s	—	2.97(.117)
t	0.15(.006)	0.25(.010)
u	3.05(.120)nom	


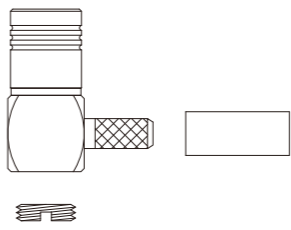


Crimp Type (for Flexible Cable)


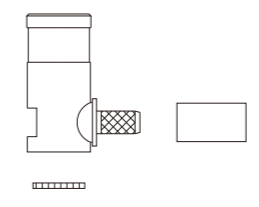
SMB S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


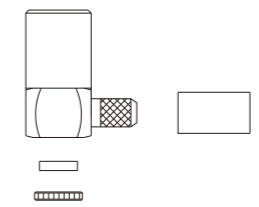
SMB R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 178/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H


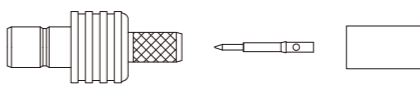
SMB R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

SMB R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

SMB S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 4 GHz
VSWR	≤1.3 (straight connector) ≤1.45 (right angle connector)
RF Leakage	≥55 dB
Dielectric Withstanding Voltage	750 V rms
Voltage Rating	250 V rms (depending on cable)
Inner Contact Resistance	≤5 mΩ
Outer Contact Resistance	≤2.5 mΩ
Insulation Resistance	≥1 GΩ

Mechanical

Mating	Snap-on Coupling
Connector Durability	≥500 Cycles (for beryllium copper female contact only)
Engagement Force	≤14.2 lbs
Disengagement Force	1.8 lbs ~ 14.2 lbs
Cable Retention Force	≥7.3 lbs (for RG178) ≥12.1 lbs (for RG316)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. B


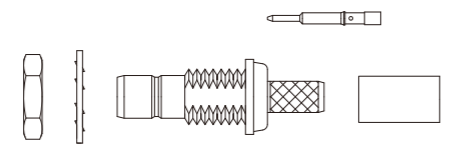
Material

Parts Name	Material	Plating
Body	Brass	Nickel or Gold
Inner Contact	Male : Brass Female : Phosphor Bronze Beryllium Copper	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body


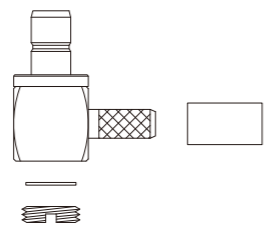
Note: Other Material/Finish is Available on Request.



SMB B/H Jack, Crimp Type


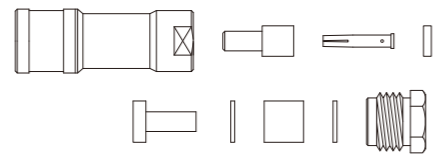
	SB202		Hand Tool	See Appendix B
			Cable	RG174/U, 178/U, 316/U and more....
			Cable Assembly Instruction	See Appendix A Code E

SMB R/A Jack, Crimp Type


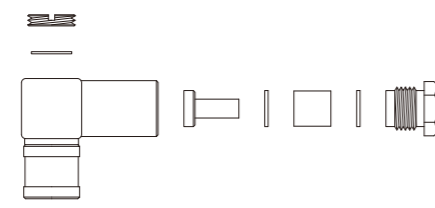
	SB204		Hand Tool	See Appendix B
			Cable	RG174/U, 178/U, 316/U and more....
			Cable Assembly Instruction	See Appendix A Code H

Clamp Type (for Flexible Cable)

SMB S/T Plug, Clamp Type


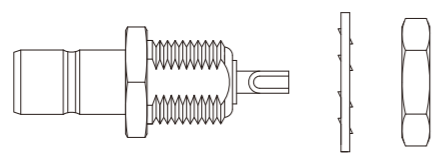
	SB108		Hand Tool	See Appendix B
			Cable	RG174/U, 316/U and more....
			Cable Assembly Instruction	See Appendix A Code L

SMB R/A Plug, Clamp Type

	SB123		Hand Tool	See Appendix B
			Cable	RG174/U, 316/U and more....
			Cable Assembly Instruction	See Appendix A Code L


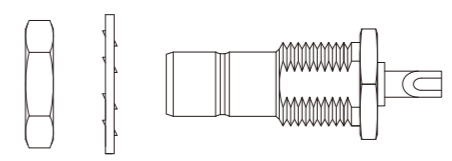
Chassis Mount Type

SMB B/H Jack, Front Mount Solder Type

	SB230		Hand Tool	Nil
			Cable	Nil
			Mounting Hole	Refer to S-Conn's Drawing


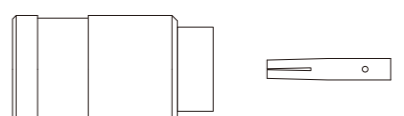


SMB B/H Jack, Solder Type


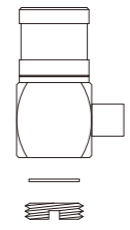
	SB231		Hand Tool	Nil
			Cable	Nil
			Mounting Hole	Refer to S-Conn's Drawing

Direct Solder Type (for Semi-Rigid Cable)

SMB S/T Plug, Solder Type


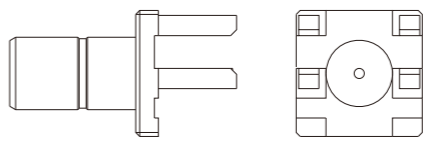
	SB121		Hand Tool	Nil
			Cable	RG402/U, 405/U and more....
			Cable Assembly Instruction	See Appendix A Code M

SMB R/A Plug, Solder Type

	SB122		Hand Tool	Nil
			Cable	RG402/U, 405/U and more....
			Cable Assembly Instruction	See Appendix A Code N


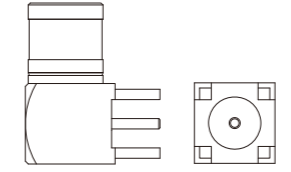
End Launch Type

SMB S/T Jack, End Launch Type

	SB233		Hand Tool	Nil
			Cable	Nil
			PCB Soldering Pattern	Refer to S-Conn's Drawing

PCB Mount Type


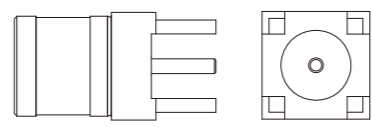
SMB R/A Plug, PCB Mount Type

	SB105		Hand Tool	Nil
			Cable	Nil
			PCB Layout	Refer to S-Conn's Drawing


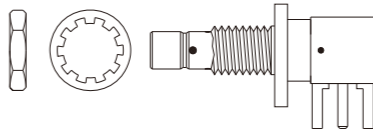


PCB Mount Type


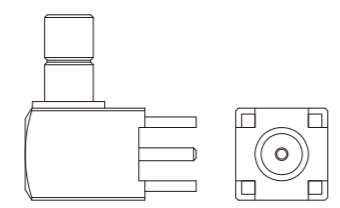
SMB S/T Plug, PCB Mount Type

 <p>SB106</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


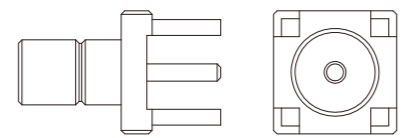
SMB R/A Jack, PCB Mount Type (Epoxy)

 <p>SB117</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


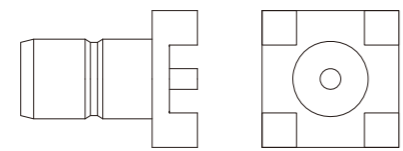
SMB R/A Jack, PCB Mount Type

 <p>SB203</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


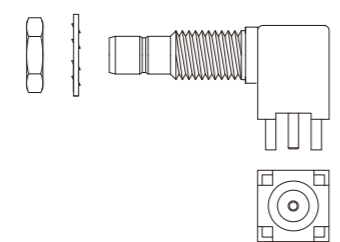
SMB S/T Jack, PCB Mount Type

 <p>SB205</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMB S/T Jack, SMT Type

 <p>SB210</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

SMB R/A Jack, PCB Mount Type

 <p>SB213</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMZ(BT43) Series

Description

The coaxial connector ranges featured in this catalogue include both the standard (12.7mm), high density (10.0mm) and ultra high density (9.00mm) versions of Type 43 Digital Distribution Frame (DDF) plugs, sockets and U-links, as well as ancillary products such as SMB, SMZ, BNC connectors and adaptors.

Type 43 series-Features Telecommunications

- Where applicable the Type 43 product range is approved to all current BT specifications, as well as being the first choice for many other new or existing analogue or digital telecommunication systems e.g. land based, mobile, PCN and GSM networks.

Low cost

- Low installation cost due to high quality, proven crimp centre contact design.

High performance

- Excellent VSWR at rated frequencies up to 5 GHz

Reliable

- Long life design, incorporating special locking feature which prevents accidental disconnection.

Fast termination

- Single piece body styles allow reliable, easy operator assembly in varied on-site conditions.
- Interface according to IEC 169-28

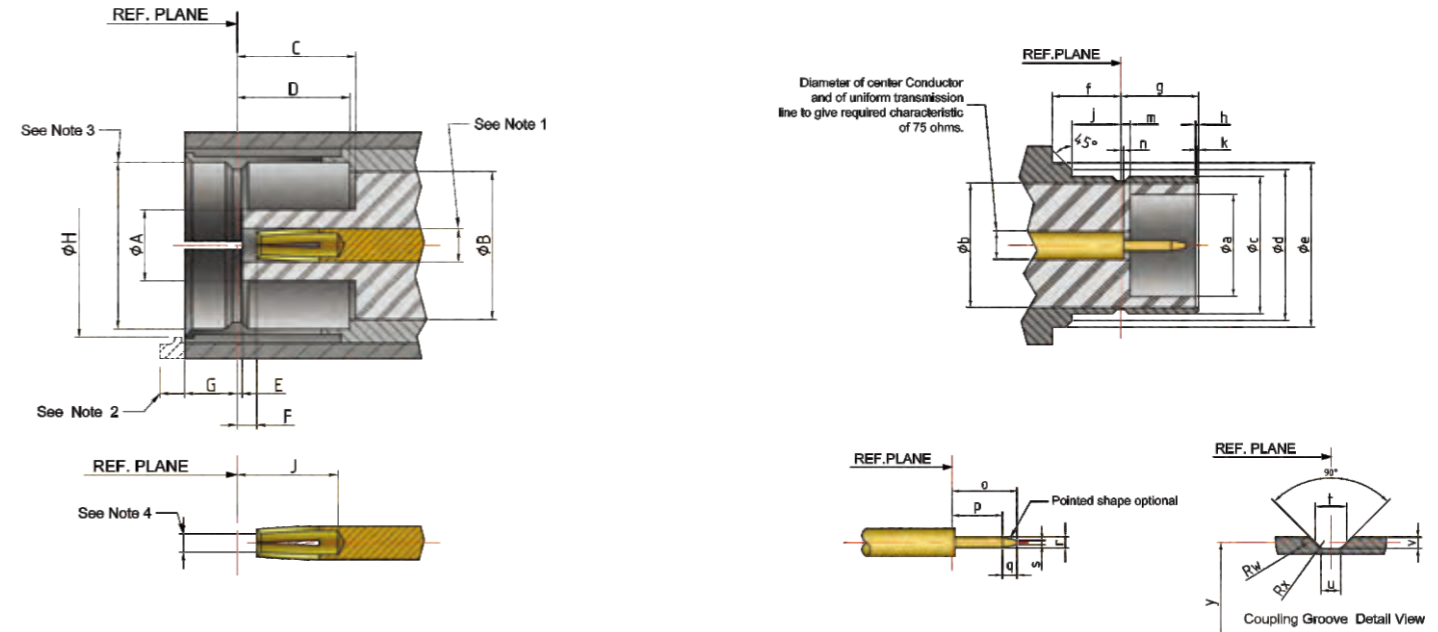


Specification

SMZ Type 43 General Technical Specification

75 ohm coaxial Type 43 connectors are designed to meet or exceed the requirements of BS 9210 F0022. The following information is subject to change without notice. The performance values shown are typical and may not relate to all connector styles available.

Interface Mating Dimensions



Note :

1. Diameter of center Conductor and of uniform transmission line to give required characteristic of 75 ohms.
2. May be 2.36 MAX. provided that any projection beyond 1.98 clear the MMC mating connector defined by SMZ Plug.
3. Form and dimension of outer contact detent to meet electrical and mechanical requirements.
4. Bore diameter closed to meet electrical and mechanical requirements.

Plug

Letter	Millimeters (inches)	
	Minimum	Maximum
A	—	3.33
B	5.60(Nom.)	
C	3.58	—
D	3.58	—
E	0.18	—
F	0.18	0.94
G	1.98(See Note2)	
H	6.35	—
J	2.97	—

Jack

Letter	Millimeters (inches)	
	Minimum	Maximum
w	0.05	0.15
x	—	0.13
y	5.97	6.07

Jack

Letter	Millimeters (inches)	
	Minimum	Maximum
a	3.35	—
b	5.60(Nom.)	
c	6.20	6.25
d	—	6.99
e	—	7.94
f	2.36	—
g	3.33	3.58
h	0.10	0.20
j	2.01	—
k	0.00	—
m	—	0.18
n	—	0.18
o	—	2.97
p	1.32	—
q	0.25	—
r	0.48	0.53
s	—	0.25
t	0.53(Nom.)	
u	0.28	0.38
v	0.15	0.25



Electrical

Impedance	75Ω
Frequency Range	0 to 3 GHz
VSWR	≤ 1.5
RF Leakage	≥ 55 dB
Dielectric Withstanding Voltage	1000 V rms
Voltage Rating	≥ 335 V rms (depending on cable)
Inner Contact Resistance	≤ 5 mΩ
Outer Contact Resistance	≤ 2.5 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical

Mating	Snap-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Engagement Force	≤ 14.2 lbs
Disengagement Force	1.8 lbs ~ 14.2 lbs
Cable Retention Force	≥ 12.1 lbs (for RG179)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. I

Material

Parts Name	Material	Plating
Body	Brass	Gold
Outer Contact	Phosphor Bronze	Gold
Inner Contact	Male: Brass Female: Beryllium Copper Phosphor Bronze	Gold
Insulator	PTFE	Not applicable
Panel Grommet	Polyacetal	Not applicable
Ferrule	Brass	Nickel
Panel Mounting Hardware **	Brass or Phosphor Bronze	Nickel

*In general all Type 43 series connector bodies are gold plated in mating areas.

**Panel mounting hardware includes component such as - nut, washer, spacer etc.

***Note, lower cable retention value for RG179-60 N min and BT3002/TZC 75024 - 150 N min.

Crimp Type (for Flexible Cable)

BT43 S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179/U and more....
		Cable Assembly Instruction	See Appendix A Code E

End Launch Type

BT43 S/T Jack, End Launch Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

PCB Mount Type

BT43 B/H Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BT43 R/A Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BT43 B/H Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

Reverse Polarity (RP) Series

Description

Reverse polarity BNC, TNC, N & SMA connectors (RP-BNC, RP-TNC, RP-SMA) are designed for uses in wireless applications where a non-standard interface has been mandated by the FCC.

Applications

- Spread Spectrum Wireless Devices

Features

- These connectors may also be used in applications where keying is a necessity. The RP BNCs, RP TNCs & RP SMAs meet the same high quality requirements as standard S-CONN'S BNCs, TNCs & SMAs. They provide excellent performance DC to 4 GHz for RP BNCs, DC to 4 GHz for RP TNCs and DC 18 GHz for RP-SMAs.

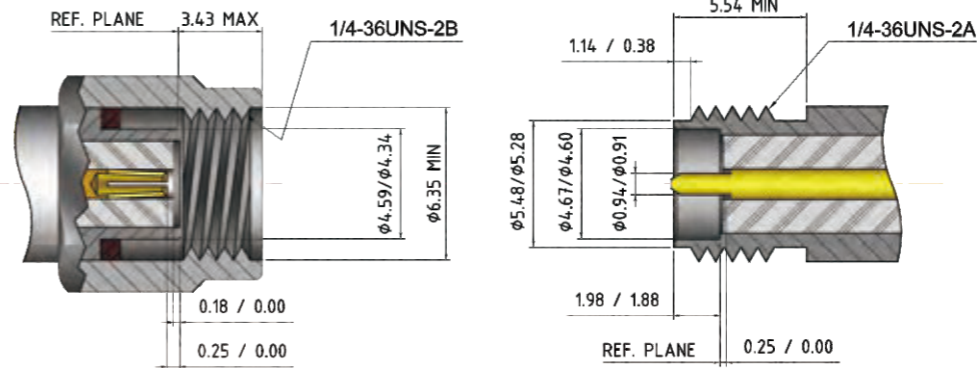
Specification

REVERSE POLARITY CONNECTORS(SMA, BNC, TNC)

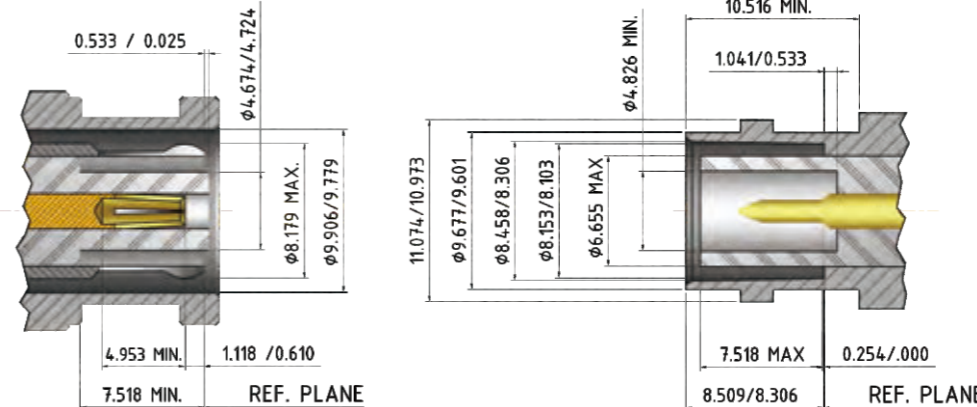
Reverse Polarity non-standard interface connectors are designed for spread spectrum wireless applications where Part 15. 203 of U.S. FCC regulations are applicable. The reverse polarity design prevents damage and will not mate with standard interface devices if accidentally connected. SMA, BNC and TNC devices are readily available. Standard cable affixment sizes are available with special or custom design inquiries accepted.

Interface Mating Dimensions

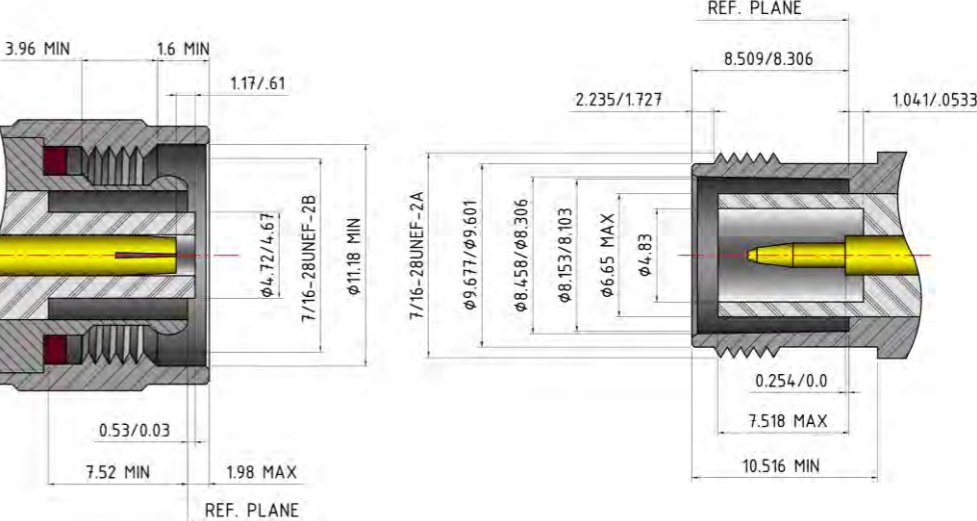
Reverse Polarity SMA



Reverse Polarity BNC



Reverse Polarity TNC



Notes: Unit of "Inch"





Reverse Polarity SMA

Electrical

Impedance	50Ω
Frequency Range	0 to 18 GHz
VSWR	≤ 1.2 + .03 f (GHz)
RF Leakage	≥ 60 dB
Dielectric Withstanding Voltage	1000 V rms
Voltage Rating	≥ 500 V rms (depending on cable)
Inner Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2.5 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical

Mating	1/4-36 UNS Screw-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	7.1 lbs ~ 9.7 lbs
Coupling Nut Retention Force	≥ 60.7 lbs
Cable Retention Force	≥ 7.3 lbs (for RG178) ≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. I



Reverse Polarity BNC, TNC

Electrical

Impedance	50Ω / 75Ω	
Frequency Range	0 to 4 GHz / 0 to 1 GHz	
VSWR	≤ 1.3 (straight connector) ≤ 1.35 (right angle connector)	
RF Leakage	BNC: ≥ 55 dB	TNC: ≥ 60 dB
Dielectric Withstanding Voltage	1500 V rms	
Voltage Rating	≥ 500 V rms (depending on cable)	
Inner Contact Resistance	≤ 1.5 mΩ	
Outer Contact Resistance	≤ 1 mΩ	
Insulation Resistance	≥ 5 GΩ	

Mechanical

Mating	BNC: Bayonet Coupling	TNC: 7/16-28 UNEF Screw-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)	
Recommended Mating Torque	BNC: 0.6 lbs ~ 2.5 lbs	TNC: 4.1 lbs ~ 6.1 lbs
Coupling Nut Retention Force	≥ 101.2 lbs	
Cable Retention Force	≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58) ≥ 38.3 lbs (for RG59)	

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Material

Parts Name	Material	Plating
Body	Stainless steel Brass	Passivated or Gold Nickel or Gold
Inner Contact	Male: Brass Female: Beryllium Copper Phosphor Bronze	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.



BNC - Crimp Type (for Flexible Cable)

RP BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP BNC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP BNC B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A Code E

MCX - Crimp Type (for Flexible Cable)

RP MCX S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP MCX S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E



MMCX - Crimp Type (for Flexible Cable)

RP MMCX S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG174/U, 178/U, 316/U and more....
		Instruction Cable Assembly	See Appendix A Code E

RP MMCX R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG174/U, 178/U, 316/U and more....
		Instruction Cable Assembly	See Appendix A Code C

N - Crimp Type (for Flexible Cable)

RP N S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP N S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP N B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E



SMA - Crimp Type (for Flexible Cable)

RP SMA S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP SMA R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

RP SMA S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	0.8, 1.13, 1.32 and more....
		Cable Assembly Instruction	See Appendix A Code I

RP SMA S/T Plug, Crimp Type (Antenna)

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code M

RP SMA S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E



RP SMA R/A Bulkhead Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code H

RP SMA B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP SMA B/H-O Jack, Crimp type

		Hand Tool	Nil
		Cable	RG178/U, 174/U, 316/U, 58/U, 142/U, LMR400 and more....
		Cable Assembly Instruction	See Appendix A Code E

RP TNC B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, RG316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP SMA B/H Jack, Crimp Type (Direct Solder Type is also available)

		Hand Tool	Nil
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I



RP SMA B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I

RP SMA B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code I

RP SMA B/H-O Jack, Front Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SMA - PCB Mount Type

RP SMA R/A Jack ,PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

RP SMA S/T Jack ,PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



SMA - End Launch Type

RP SMA B/H Jack, End launch Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

RP SMA S/T Jack, End Launch Type

		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

TNC - Crimp Type (for Flexible Cable)

RP TNC S/T Plug, Crimp Type

		Hand Tool	Nil
		Cable	RG178/U, 174/U, 316/U, 58/U, 142/U, LMR400 and more....
		Cable Assembly Instruction	See Appendix A Code E

RP TNC S/T Plug, Crimp Type


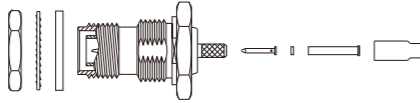
		Hand Tool	Nil
		Cable	LMR400 and more....
		Cable Assembly Instruction	See Appendix A Code E

RP TNC S/T Jack, Crimp Type


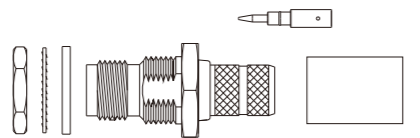
		Hand Tool	Nil
		Cable	RG178/U, 174/U, 316/U, 58/U, 142/U, LMR400 and more....
		Cable Assembly Instruction	See Appendix A Code E




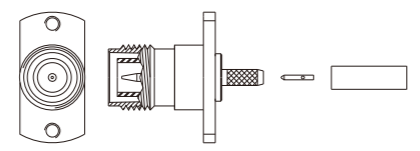
RP TNC B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

RP TNC B/H-O Jack, Crimp Type


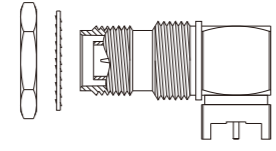
		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U, and more....
		Cable Assembly Instruction	See Appendix A Code E

RP TNC P/M 2-Hole Jack, Crimp Type


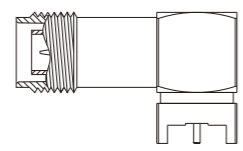
		Hand Tool	See Appendix B
		Cable	RG174/U and more....
		Cable Assembly Instruction	See Appendix A Code E

TNC - PCB Mount Type

RP TNC R/A Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	See Appendix A Code I

RP TNC R/A Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	See Appendix A Code I

RP

RP

BNC Series

Description

BNC connectors are miniature units, light in weight and feature a quick disconnect bayonet lock coupling mechanism. One of the most widely used connector interfaces in the industry today, BNC connectors are available in a number of termination styles and accommodate a variety of popular coaxial cables.

Applications

- Computers/LANs
- Instrumentation
- Test and Measurement
- Medical Equipment
- Broadcast (75Ω)

Features

- 50 ohm nominal impedance are designed for use in telecommunication, data communication and test and instrumentation equipment.
- 75 ohm nominal impedance are designed for broadcast, video and other applications which require impedance matched performance.
- Both 50 ohm and 75 ohm BNC connectors are intermateable.
- Interface according to IEC 169-8, MIL-C-39012 BNC, MIL-STD-348A, CECC 22120

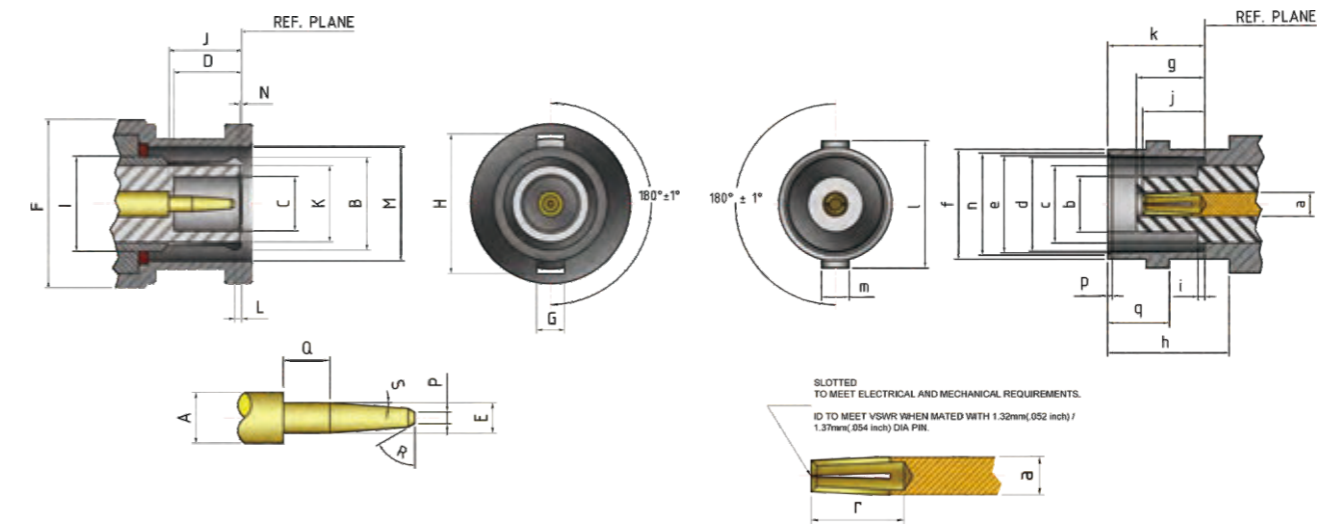


Specification

BNC 50 ohm 0-4 GHz

BNC coaxial connectors are one of the world's most popular RF connectors. They are miniature, light-weight and can operate satisfactorily up to 4 GHz. The BNC is typically used in applications from DC to 4 GHz and yield low reflection in this frequency range. Cable terminations are available in crimp, clamp, solder and jacket quick twist configurations. The two-stud 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, data processing and telecommunications equipment because of their size and relatively low installed cost.

Interface Mating Dimensions



PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	2.06(.081)	2.21(.087)
B	Flared to meet Gauge test	
C	4.83(.190)	—
D	5.28(.208)	5.79(.227)
E	1.32(.052)	1.37(.053)
F	—	15.06(.592)
G	2.31(.091)	2.46(.097)
H	11.76(.463)	12.01(.473)
I	—	8.18(.322)
J	5.33(.210)	5.84(.230)
K	7.00 nom	
L	0.08(.003)	—
M	9.78(.385)	9.91(.390)
N	0.15(.006)	—
P	—	0.64(.025)
Q	1.98(.078)	—
R	55°	66°
S	1°	4°

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	2.06(.081)	2.21(.087)
b	—	4.72(.186)
c	—	6.50(.256)
d	8.10(.319)	8.15(.321)
e	8.31(.327)	8.46(.333)
f	9.60(.378)	9.70(.382)
g	4.78(.188)	5.28(.208)
h	10.52(.414)	—
i	—	0.15(.006)
j	4.72(.186)	5.23(.206)
k	8.31(.327)	8.51(.335)
l	10.97(.432)	11.07(.436)
m	1.91(.075)	2.06(.081)
n	8.79(.346)	9.04(.356)
p	0.76(.015)	0.38(.030)
q	5.18(.204)	5.28(.208)



Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 4 GHz / 0 to 1 GHz
VSWR	≤ 1.3 (straight connector) ≤ 1.35 (right angle connector)
RF Leakage	≥ 55 dB
Dielectric Withstanding Voltage	1500 V rms
Voltage Rating	≥ 500 V rms (depending on cable)
Inner Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical

Mating	Bayonet Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	0.6 lbs ~ 2.5 lbs
Coupling Nut Retention Force	≥ 101.2 lbs
Cable Retention Force	≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58) ≥ 38.3 lbs (for RG59)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold or Nickel
Insulator	PTFE or Delrin	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/G, 8/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 58/U, 59/U and more....
		Cable Assembly Instruction	See Appendix A Code A

BNC R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

BNC S/T Plug, Crimp & Cable Molded Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code M

BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG59, 62; URM70, 90 and more....
		Cable Assembly Instruction	See Appendix A Code E



BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 178/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B

BNC B/H Jack, Front Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC B/H Jack, Front Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG178/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B

BNC P/M 4-Hole Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG178/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B



BNC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC S/T Jack, Crimp Type


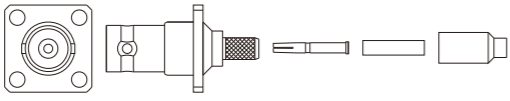
		Hand Tool	See Appendix B
		Cable	RG59, 62; URM70, 90 and more....
		Cable Assembly Instruction	See Appendix A Code A

BNC B/H-O Jack, Crimp Type


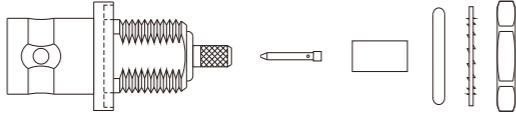
		Hand Tool	See Appendix B
		Cable	RG174/U, 188/U, 316/U, B7805A; URM95; LMR100A and more....
		Cable Assembly Instruction	See Appendix A Code B



BNC P/M 4-Hole Jack, Crimp Type


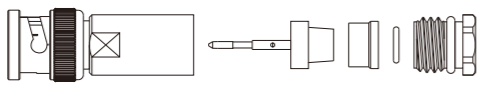
		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U, 179/U and more....
		Cable Assembly Instruction	See Appendix A Code B

BNC B/H-O Jack, Front Mount Crimp Type


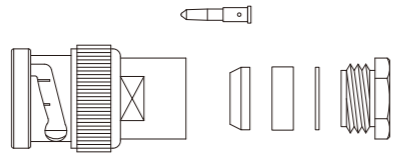
		Hand Tool	See Appendix B
		Cable	RG174/U, 188/U, 316/U, B7805A; URM95; LMR100A and more....
		Cable Assembly Instruction	See Appendix A Code E

Clamp Type (for Flexible Cable)


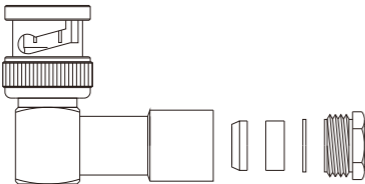
BNC S/T Plug, Clamp Type (75 Ohm)

		Hand Tool	Nil
		Cable	Belden 1505A and more....
		Cable Assembly Instruction	See Appendix A Code L

BNC S/T Plug, Clamp Type


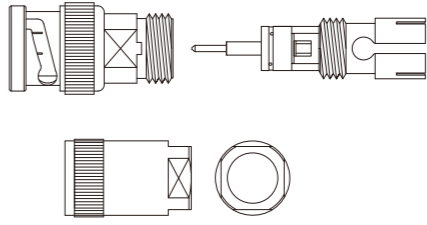
		Hand Tool	Nil
		Cable	RG6/U, 58/U, 59/U and more....
		Cable Assembly Instruction	See Appendix A Code L

BNC R/A Plug, Clamp Type

		Hand Tool	Nil
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A Code L


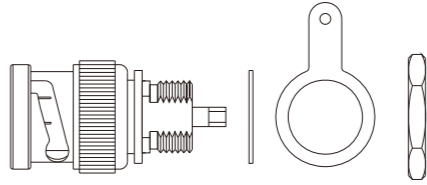


BNC S/T Plug, Clamp & Lock Type


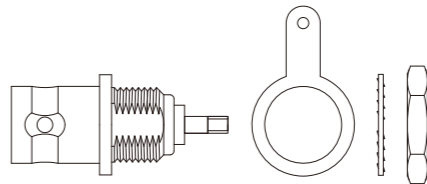
		Hand Tool	Nil
		Cable	RG6/U and more....
		Cable Assembly Instruction	See Appendix A Code K

Chassis Mount Type


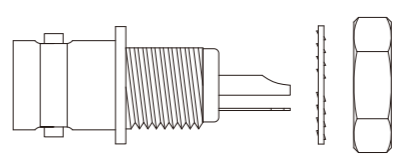
BNC B/H Plug, Front Mount Solder Type

		Hand Tool	Nil
		Cable	Mini Coaxial, Flexible and more....
		Mounting Hole	Refer to S-Conn's Drawing


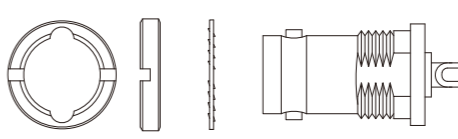
BNC B/H Jack, Front Mount Solder Type

		Hand Tool	Nil
		Cable	Mini Coaxial, Flexible and more....
		Mounting Hole	Refer to S-Conn's Drawing

BNC B/H Jack, Front Mount Solder Type(Isolated)

		Hand Tool	Nil
		Cable	Mini Coaxial, Flexible and more....
		Mounting Hole	Refer to S-Conn's Drawing


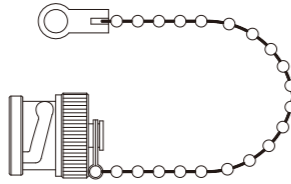
BNC B/H Jack, Rear Mount Solder Type

		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing




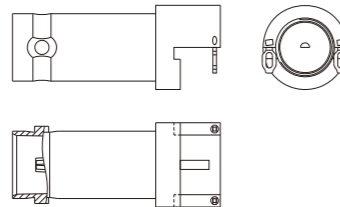
Dust Cap

Protective Cap for BNC Jack

		Hand Tool	Nil
		Cable	Nil



Edge Mount Type

BNC R/A Jack, Edge Mount Type (D-Contact)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


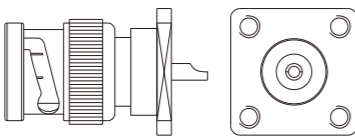
End Launch Type

BNC S/T Plug, End Launch Type


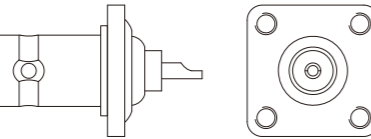
		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

Panel Mount Type

BNC P/M 4-Hole Plug, Solder Type

		Hand Tool	Nil
		Cable	Nil


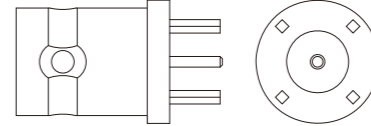
BNC P/M-4 Hole Jack, Solder Type

		Hand Tool	Nil
		Cable	Nil


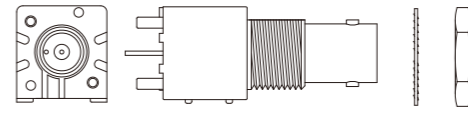


PCB Type


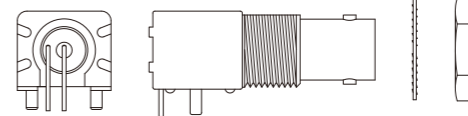
BNC S/T Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


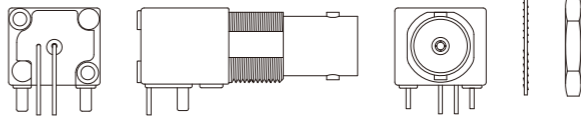
BNC B/H Jack, PCB Mount Type (PBT Housing)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


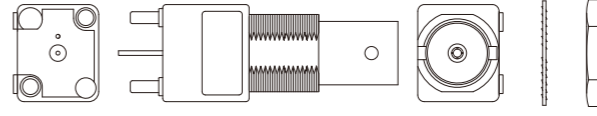
BNC R/A Bulkhead Jack , PCB Mount Type (PBT Housing)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC R/A Bulkhead Jack, PCB Mount Type (Metal Housing)

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC B/H Jack, PCB Mount Type (Metal Housing)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



BNC R/A Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC S/T Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC R/A Bulkhead Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC R/A Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC B/H-O Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



BNC R/A Bulkhead Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

Twist-On Type (for Flexible Cable)

BNC S/T Plug, Twist-on Type

		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	See Appendix A Code O

BNC S/T Jack, Twist-on Type

		Hand Tool	Nil
		Cable	RG58/U, 59/U and more....
		Cable Assembly Instruction	See Appendix A Code O

Boots

BNC Boot

		Hand Tool	Nil
		Cable	RG58/U, 59/U, 174/U and more....
		Cable Assembly Instruction	Nil



12G-SDI BNC Series

Description

12G-SDI BNC connectors are applied with an optimum frequency up to 12 GHz. Characteristic features are reliable quality standard as well as fast and easy connections with a two stud bayonet mechanism. 50Ω and 75Ω versions can be interconnected without restriction.

Applications

- Serial digital interface (SDI)
- High definition television (HDTV)
- 6G UHD SDI (Per SMPTE ST-2081*) & 12G UHD SDI(Per SMPTE ST-2082*)
- NTSC & PAL video system

Features

- Interface compatible to IEC 60169-8, CECC 22 120, MIL-PRF-39012 BNC
- Quality tested according to US MIL-STD-202
- Frequency range optimum up to 12 GHz



Electrical

Impedance	75Ω
Frequency Range	0 to 12 GHz
VSWR	≦ 1.2 (0 ~ 6 GHz)
	≦ 1.3 (6 ~ 12 GHz)
RF Leakage	≧ 55 dB
Dielectric Withstanding Voltage	1500 V rms
Voltage Rating	≧ 500 V rms (depending on cable)
Center Contact Resistance	≦ 1.5 mΩ
Outer Contact Resistance	≦ 1 mΩ
Insulation Resistance	≧ 5 GΩ

Mechanical

Mating	Bayonet Coupling
Connector Durability	≧ 500 Cycles (for beryllium copper female contact only)
Engagement Force	0.6 lbs ~ 2.5 lbs
Coupling Nut Retention Force	≧ 101.2 lbs
Cable Retention Force	≧ 12.1 lbs (for RG316)
	≧ 28.7 lbs (for RG58)
	≧ 38.3 lbs (for RG59)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.



Crimp Type (for Flexible Cable)

BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179/U, 59/U, 735A, Mini 59, BT3002 and more....
		Cable Assembly Instruction	See Appendix A Code E

BNC S/T Jack, Crimp Type

		Hand Tool	Nil
		Cable	1.37 (75 ohm) and more....
		Cable Assembly Instruction	See Appendix A Code M

BNC B/H Jack, Crimp Type

		Hand Tool	Nil
		Cable	1.37 (75 ohm) and more....
		Cable Assembly Instruction	See Appendix A Code M

End Launch Type

BNC B/H Jack, End Launch Type

		Hand Tool	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

PCB Type

BNC S/T Jack, PCB Mount Type (75 Ohm, 12GHz)

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing



BNC S/T Jack, PCB Mount Type (75 Ohm)

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC R/A Bulkhead Jack, PCB Mount Type

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing

BNC S/T Jack, PCB Mount Type

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing



Twin BNC Series



Specification

TWIN-BNC 0-100 MHz

Twin-BNC connectors are designed with polarized contacts (one female, one male) and a two-stud bayonet coupling. The two-stud bayonet lock coupling provides ease of connecting and disconnecting and are ideal in applications where polarization and frequent

connect/disconnect are required. The operating range of the Twin-BNC is DC to 100 MHz. Terminations are available in crimp, clamp and solder styles. Test equipment, circuit clusters and polarized circuits are just a few of the applications for Twin-BNC connectors.

Electrical

Frequency Range	0-100 MHz
-----------------	-----------

Mechanical


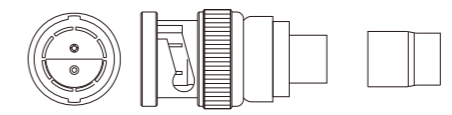
Mating	Bayonet Coupling
Durability	>=200 Cycles
Coupling Nut Retention	100 lbs min
Temperature Range	-55° C to 80° C
Vibration	MIL-STD-202 Method 204 Test Cond. D
Corrosion (SaltSpray)	MIL-STD-202 Method 101 Test Cond. B
Thermal Shock	MIL-STD-202 Method 102 Test Cond. C

Material


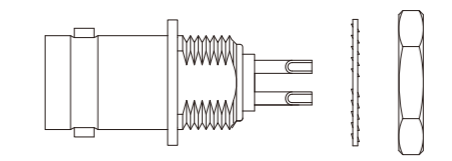
Parts Name	Material	Plating
Body	Brass	Nickel
Inner Contact	Male: Brass Female: Brass or Phosphor Bronze or Beryllium Copper	Gold
Insulator	PTFE or Noryl	None
Gasket	Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Twin BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG108A/U
		Cable Assembly Instruction	See Appendix A

Twin BNC B/H Jack, Front Mount Solder Type

		Hand Tool	See Appendix B
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

TNC Series

Description

TNC connectors are miniature, weatherproof units which have constant 50 ohm impedance and operate in the 0-11 GHz frequency range. These features make TNC connectors an ideal choice for use in cellular mobile communications, and test and instrument equipment. TNC connectors are also widely used in airframe, aerospace and radar applications where extreme vibration is a factor.

Applications

- Cellular Mobile Phones
- Test and Measurement
- Instrumentation
- Aircraft and Missile
- Radar
- Computer Networks/LANs
- Base Stations
- Microwave Components (Filters, Diplexors)

Features

- These connectors are suitable for use in applications where safety can not be compromised such as test and measurement, and medical equipment. Designed to accommodate a wide range of popular miniature coaxial cables, TNC connectors are available with crimp terminations which provide lower cost installation.
- Interface according to IEC 169-17, CECC 22200, MIL-C-39012 TNC, MIL-STD-348A/313

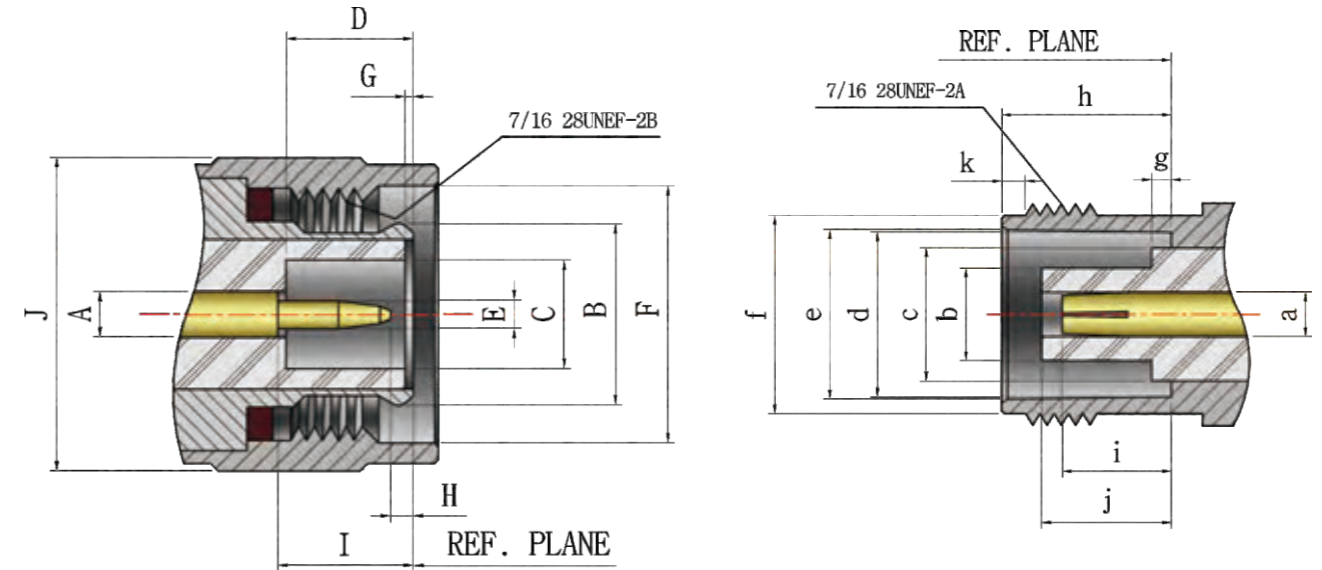


Specification

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 11GHz under extreme environmental conditions, especially shock and vibration. Cable terminations are available in crimp, clamp, twist-on and solder configuration. 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 applications

Interface Mating Dimensions



PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	2.06(.081)	2.21(.087)
B	Gauge test	
C	4.83(.190)	5.79(.228)
D	5.28(.208)	1.37(.054)
E	1.32(.052)	—
F	11.18(.440)	—
G	0.15(.006)	1.02(.040)
H	0.08(.003)	5.84(.230)
I	5.33(.210)	—
J	16 nom	

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	2.06(.081)	2.21(.087)
b	—	4.72(.186)
c	—	6.50(.256)
d	8.10(.319)	8.15(.321)
e	8.31(.327)	8.46(.333)
f	9.60(.378)	9.68(.381)
g	—	0.15(.006)
h	8.31(.327)	8.51(.335)
I	4.72(.186)	5.23(.206)
j	4.78(.188)	5.28(.208)
k	1.73(.068)	2.24(.088)



Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 11 GHz / 0 to 1 GHz
VSWR	≤ 1.3 (straight connector) ≤ 1.35 (right angle connector)
RF Leakage	≥ 60 dB
Dielectric Withstanding Voltage	1500 V rms
Voltage Rating	≥ 500 V rms (depending on cable)
Inner Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical

Mating	7/16-28 UNEF Screw-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	4.1 lbs ~ 6.1 lbs
Coupling Nut Retention Force	≥ 101.2 lbs
Cable Retention Force	≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58) ≥ 38.3 lbs (for RG59)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G


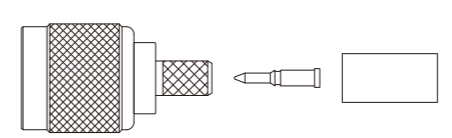
Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold or Nickel
Insulator	PTFE or Delrin	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body


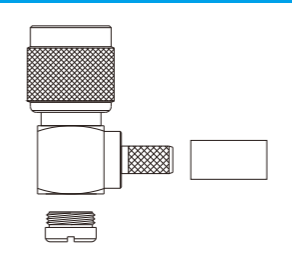
Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)


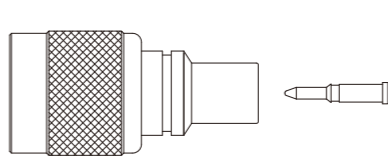
TNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/G, 8/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U, 213/U and more...
		Cable Assembly Instruction	See Appendix A Code E


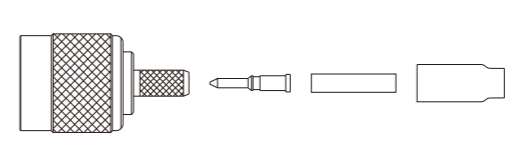
TNC R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 58/U, 59/U and more....
		Cable Assembly Instruction	See Appendix A Code H


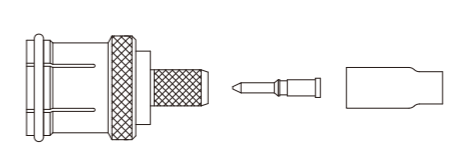
TNC S/T Plug, Crimp & Cable Molded Type

		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A Code M

TNC S/T Plug, Crimp Type


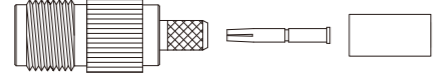
		Hand Tool	See Appendix B
		Cable	RG178/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B

TNC Push-on Plug, Crimp Type


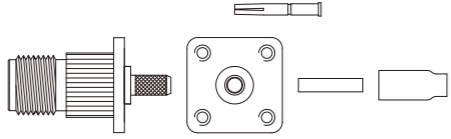
		Hand Tool	See Appendix B
		Cable	RG58/U, RG174/U and more....
		Cable Assembly Instruction	See Appendix A Code E




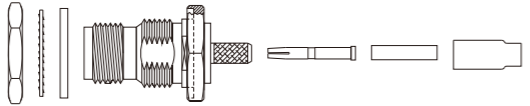
TNC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG6/U, 8/X, 58/U, 59/U, 174/U, 179/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


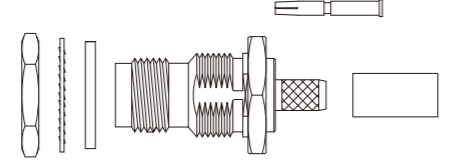
TNC P/M 4-Hole Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U and more....
		Cable Assembly Instruction	See Appendix A Code B


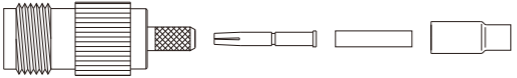
TNC B/H-O Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B

TNC B/H-O Jack, Rear Mount Crimp Type


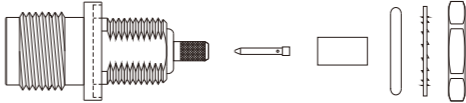
		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

TNC P/M 2-Hole Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code B


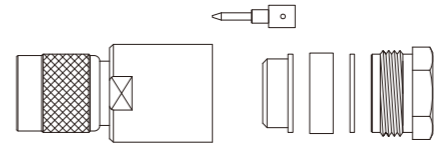


TNC B/H-O Jack, Front Mount Solder Type (IP67)


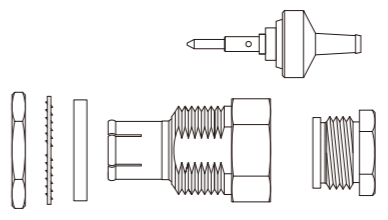
		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

Clamp Type (for Flexible Cable)



TNC S/T Plug, Clamp Type

		Hand Tool	Nil
		Cable	RG8/U, 8/X, 58/U, 59/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code L

TNC(BNC) B/H Push-on Plug, Quick Clamp Type


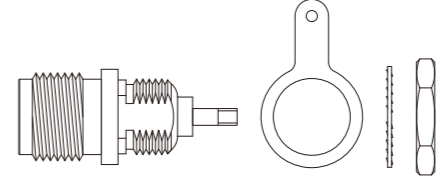
		Hand Tool	Nil
		Cable	RG174 and more....
		Cable Assembly Instruction	See Appendix A Code J

TNC(BNC) B/H Push-on Plug, Quick Clamp Type

		Hand Tool	Nil
		Cable	RG174 and more....
		Cable Assembly Instruction	See Appendix A Code J


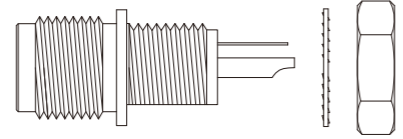
Chassis Mount Type

TNC B/H Jack , Front Mount Solder Type


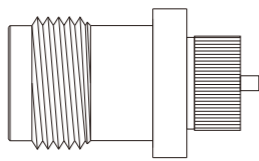
		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing



TNC B/H Jack , Front Mount Solder Type (Isolated)


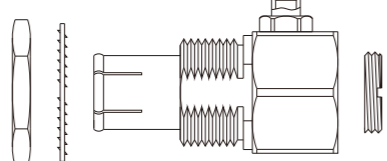
		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

TNC Press Fit Jack, Front Mount Type


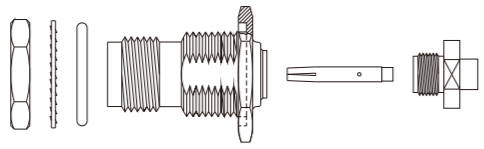
		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

Direct Solder Type (for Semi-Rigid Cable)

TNC R/A Bulkhead Push-on Plug, Solder Type


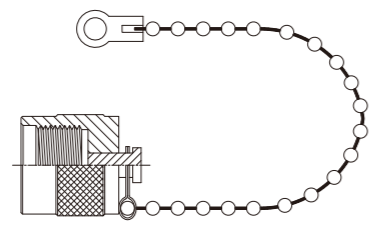
		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	Code N

TNC B/H-O Jack, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	Code M

Terminator & Cap


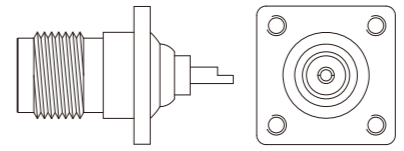
Protective Cap for TNC Jack

		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil




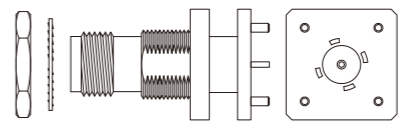
Panel Mount Type

TNC P/M 4-Hole Jack, Solder Type


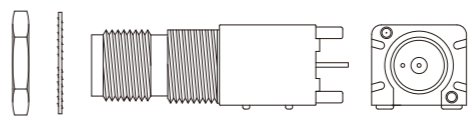
		Hand Tool	Nil
		Cable	Nil

PCB Type


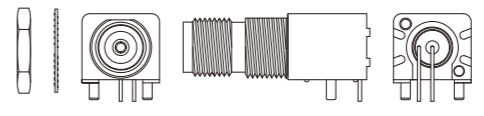
TNC B/H Jack, PCB Mount Type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


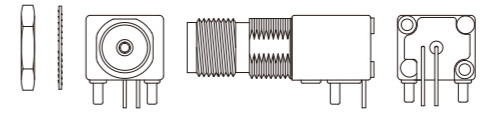
TNC B/H Jack, PCB Mount Type (PBT Housing)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conns Drawing

TNC R/A Bulkhead Jack, PCB Mount Type (PBT Housing)


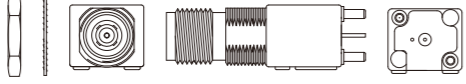
		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

TNC R/A Bulkhead Jack, PCB Mount Type (Metal Housing)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing



TNC B/H Jack, PCB Mount Type (Metal Housing)

 <p>T236</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

N Series

Description

N series coaxial connectors are medium size units which have constant 50 ohm impedance, and provide excellent radio frequency performance up to 11 GHz.

Applications

- Antenna
- Base Stations
- Microwave Components (Power Splitters & Combiners, Filters, Diplexors)
- Transmitters
- Broadcast
- Receivers
- Radar
- Test & Measurement
- Instrumentation
- LANs

Features

- Accommodates a wide range of popular coaxial cables.
- Provides threaded coupling mechanisms.
- Available in crimp terminations to provide for low cost installation.
- Interface according to IEC 169-16, CECC 22210, MIL-C-39012N, MIL-STD-348A/304

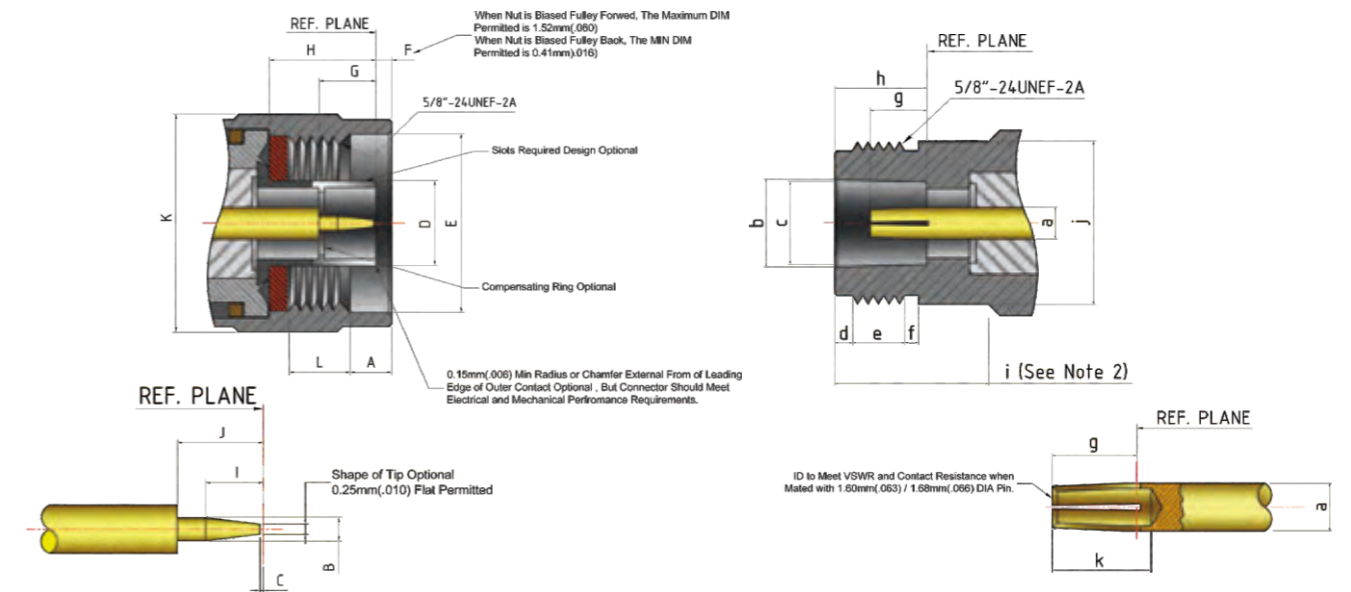


Specification

N 50 ohm 0-11 GHz

N series coaxial connectors are medium-sized, threaded coupling connectors designed for use from DC to 11 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



Note: This Interface Shall Meet the Gauge Requirements as Specified in MIL-C-39012/1.

Note:
1. This Interface Shall Meet the Gauge Requirements as Specified in MIL-C-39012/2.
2. Clearance for Mating Connector Coupling Nut.

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	4.01(.158)	4.27(.168)
B	1.60(.063)	1.68(.066)
C	0.08(.003)	—
D	—	8.38(.330)
E	16.0(.063)	—
F	0.41(.016)	1.52(.060)
G	5.33(.210)	5.84(.230)
H	10.11(.398)	10.46(.412)
I	2.79(.110)	3.56(.140)
J	5.33(.210)	—
K	—	21.01(.827)
L	4.50(.117)	—

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	3.02(.119)	3.15(.124)
b	8.53(.336)	8.74(.344)
c	8.03(.316)	8.13(.320)
d	1.19(.047)	1.96(.077)
e	4.37(.172)	5.13(.077)
f	1.19(.047)	1.96(.077)
g	4.75(.187)	5.26(.207)
h	9.04(.356)	9.19(.362)
i	10.72(.422)	—
j	—	15.93(.627)
k	5.33(.210)	—



Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 11 GHz / 0 to 1.5 GHz
VSWR	≅ 1.3 (straight connector) ≅ 1.35 (right angle)
RF Leakage	≧ 60 dB
Dielectric Withstanding Voltage	2500 V rms
Voltage Rating	≧ 1000 V rms (depending on cable)
Inner Contact Resistance	≅ 1 mΩ
Outer Contact Resistance	≅ 1 mΩ
Insulation Resistance	≧ 5 GΩ

Mechanical

Mating	5/8-24 UNEF Screw-on Coupling
Connector Durability	≧ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	6.0 lbs ~ 10.0 lbs
Coupling Nut Retention Force	≧ 101.3 lbs
Cable Retention Force	≧ 12.1 lbs (for RG316) ≧ 28.7 lbs (for RG58) ≧ 94.5 lbs (for RG213)

Environmental

Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. I


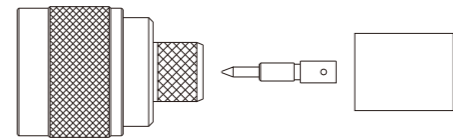
Material

Parts Name	Material	Plating
Body	Brass	Gold
Inner Contact	Male: Brass Female: Brass or Phosphor Bronze or Beryllium Copper	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body


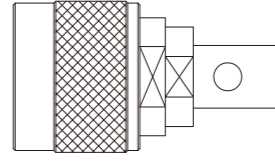
Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)


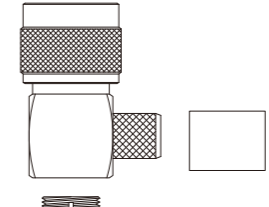
N S/T Plug, Crimp Type

 N102		Hand Tool	See Appendix B
		Cable	RG6/U, 8/U, 8/X, 11/U, 58/U, 59/U, 174/U, 178/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A


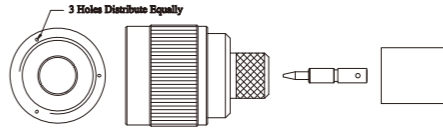
N S/T Plug, Crimp Type(3D,5D,8D,10D)

 N103		Hand Tool	See Appendix B
		Cable	3D-2V,5D-2V,8D-2V, 10D-2V and more....
		Cable Assembly Instruction	See Appendix A


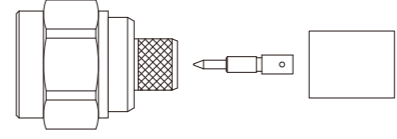
N R/A Plug, Crimp Type

 N111		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

N S/T Plug, Crimp Type (Vibration Proof)


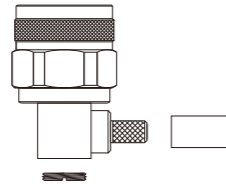
 N119		Hand Tool	See Appendix B
		Cable	RG6/U, 8/U, 8/X, 11/U, 58/U, 59/U, 174/U, 178/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

N S/T Plug, Crimp Type


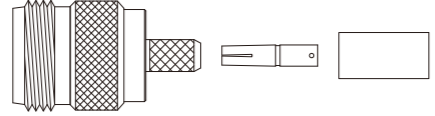
 N151		Hand Tool	See Appendix B
		Cable	RG6/U, 8/U, 8/X, 11/U, 58/U, 59/U, 174/U, 178/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E




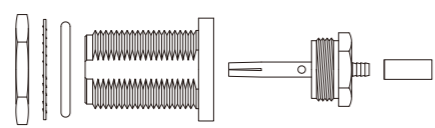
N R/A Plug, Crimp Type

 N153		Hand Tool	See Appendix B
		Cable	RG55/U, 142/U, 223/U, 400/U and more....
		Cable Assembly Instruction	See Appendix A Code E


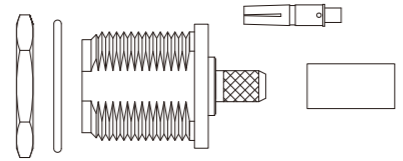
N S/T Jack, Crimp Type

 N201		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


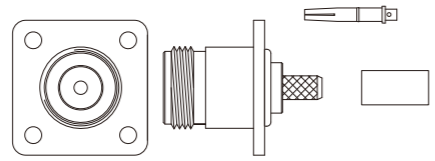
N B/H-O Jack, Rear Mount Crimp Type

 N202		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code D

N B/H Jack, Rear Mount Crimp Type


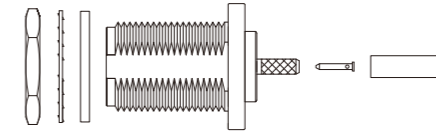
 N203		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 59/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code E

N P/M 4-Hole Jack, Crimp Type


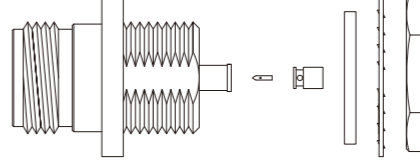
 N204		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E




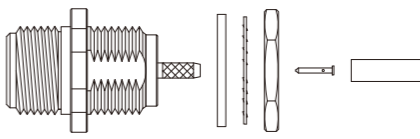
N B/H-O Jack, Rear Mount Crimp Type

 N224		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG8/X, 58/U, 174/U, 178/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


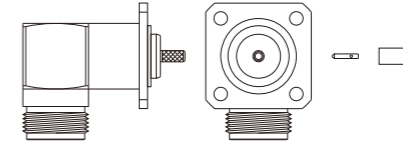
N B/H-O Jack, Front Mount Crimp Type

 N235		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code G

N B/H-O Jack, Front Mount Crimp Type


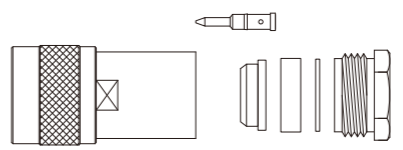
 N243		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

N R/A Panel Mount 4-Hole Jack, Crimp type

 N249		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


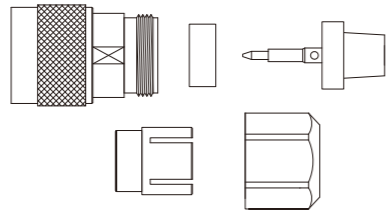
Clamp Type (for Flexible Cable)

N S/T Plug, Clamp Type


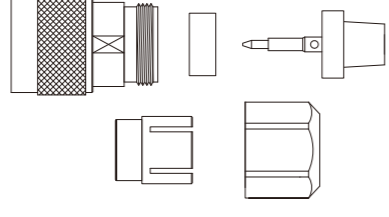
 N104		Hand Tool	Nil
		Cable	RG8/U, 8/X, 58/U, 59/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code L




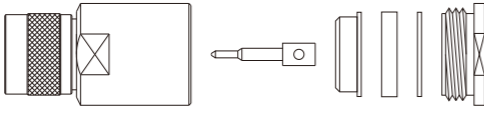
N S/T Plug, Clamp Type (3D,5D,8D,10D)

 N106		Hand Tool	Nil
		Cable	3D-2V,5D-2V,8D-2V, 10D-2V and more....
		Cable Assembly Instruction	See Appendix A


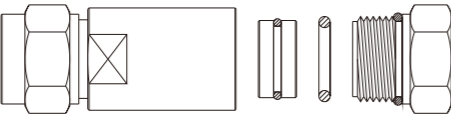
N R/A Plug, Clamp Type

 N112		Hand Tool	Nil
		Cable	3D-2V,5D-2V,8D-2V, 10D-2V and more....
		Cable Assembly Instruction	See Appendix A


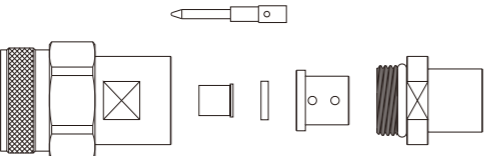
N S/T Plug, Clamp Plug

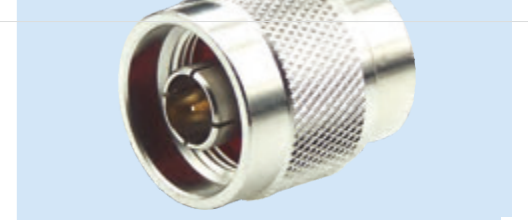
 N114		Hand Tool	Nil
		Cable	LMR600 and more....
		Cable Assembly Instruction	See Appendix A Code L

N S/T Plug, Clamp Type


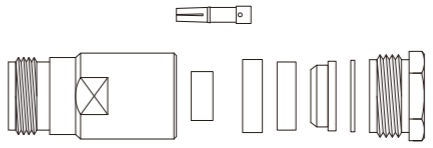
 N152		Hand Tool	Nil
		Cable	RG8/U, 8/X, 58/U, 59/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code L

N S/T Plug, Clamp Type


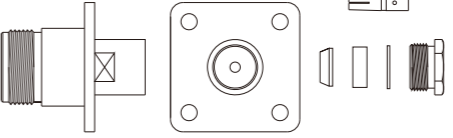
 N156		Hand Tool	Nil
		Cable	LI335, and more....
		Cable Assembly Instruction	See Appendix A Code L



N S/T Jack, Clamp Type


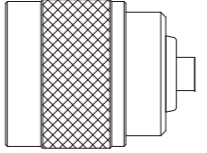
 N206		Hand Tool	Nil
		Cable	RG8/U, 8/X, 58/U, 59/U, 213/U and more....
		Cable Assembly Instruction	See Appendix A Code L

N P/M 4-Hole Jack, Clamp Type


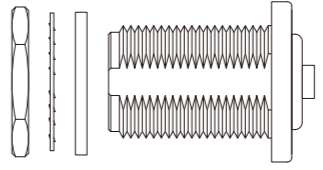
 N246		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A

Direct Solder Type (for Semi-Rigid Cable)


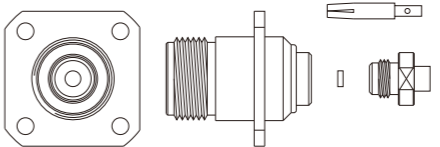
N S/T Plug, Solder Type

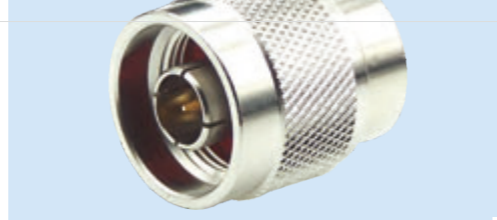
 N121		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A

N B/H-O Jack, Rear Mount Solder Type

 N221		Hand Tool	Nil
		Cable	RG402/U, 405/U and more....
		Cable Assembly Instruction	See Appendix A


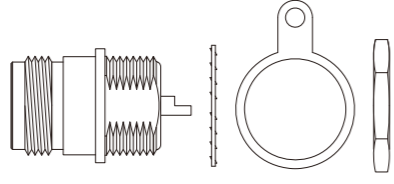
N P/M 4-Hole Jack, Solder Type

 N247		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A


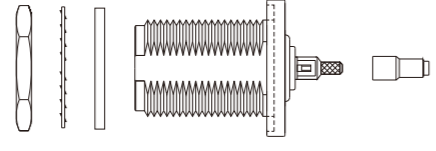


Bulkhead Receptacle, Solder Pot Terminal

N B/H Jack, Front Mount Solder Type


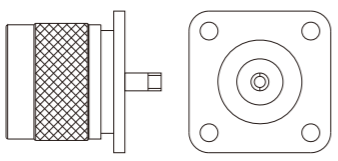
 N207		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	See Appendix A

N B/H-O Jack, Crimp Type


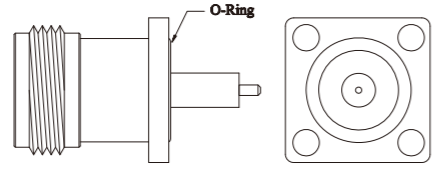
 N231		Hand Tool	Nil
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A

Panel Mount Type


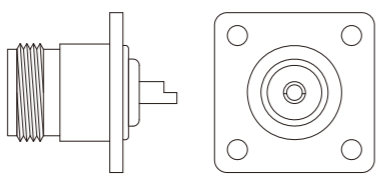
N P/M 4-Hole Plug, Solder Type

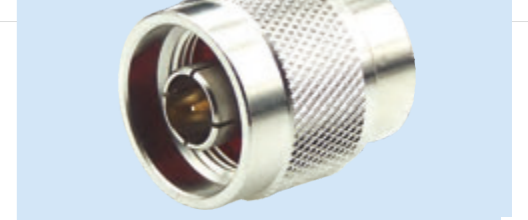
 N118		Hand Tool	Nil
		Cable	Nil

N P/M-O 4-Hole Jack, Receptacle (Extended PTFE)


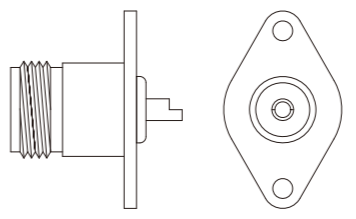
 N205		Hand Tool	Nil
		Cable	Nil

N P/M 4-Hole Jack, Solder Type


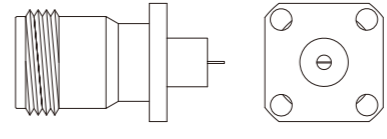
 N209		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil



N P/M 2-Hole Jack, Solder Type


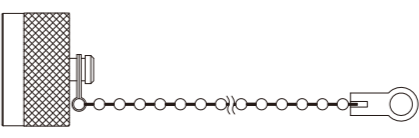
 N216		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

N P/M-O 4-Hole Jack, Receptacle (Extended PTFE, Tab Contact)


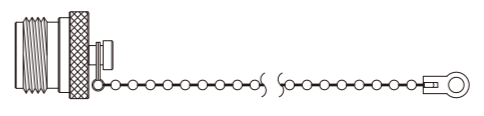
 N248		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

Terminator & Cap


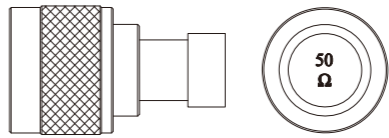
Protective Cap N Jack

 N134		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

Protective Cap N Plug


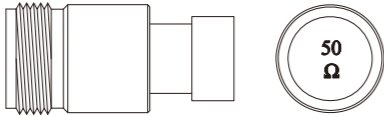
 N233		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

N Terminator Plug, 50ohm


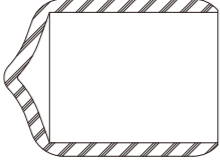
 Te101		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil



N Terminator Jack, 50ohm

<p>Te202</p> 		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

N Jack Cap

<p>N900</p> 		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

UHF Series

Description

UHF coaxial connectors are general purpose units developed for use in Low frequency systems applications up to 300MHz.

Applications

- CB Radios
- Antennas
- Public Address Systems

Features

With the use of optional reducing adapters, UHF connectors are designed to accommodate a wide range of popular coaxial cables. The solder termination types require no special assembly tools. Crimp termination types, which provide a lower cost installation method, are also available.

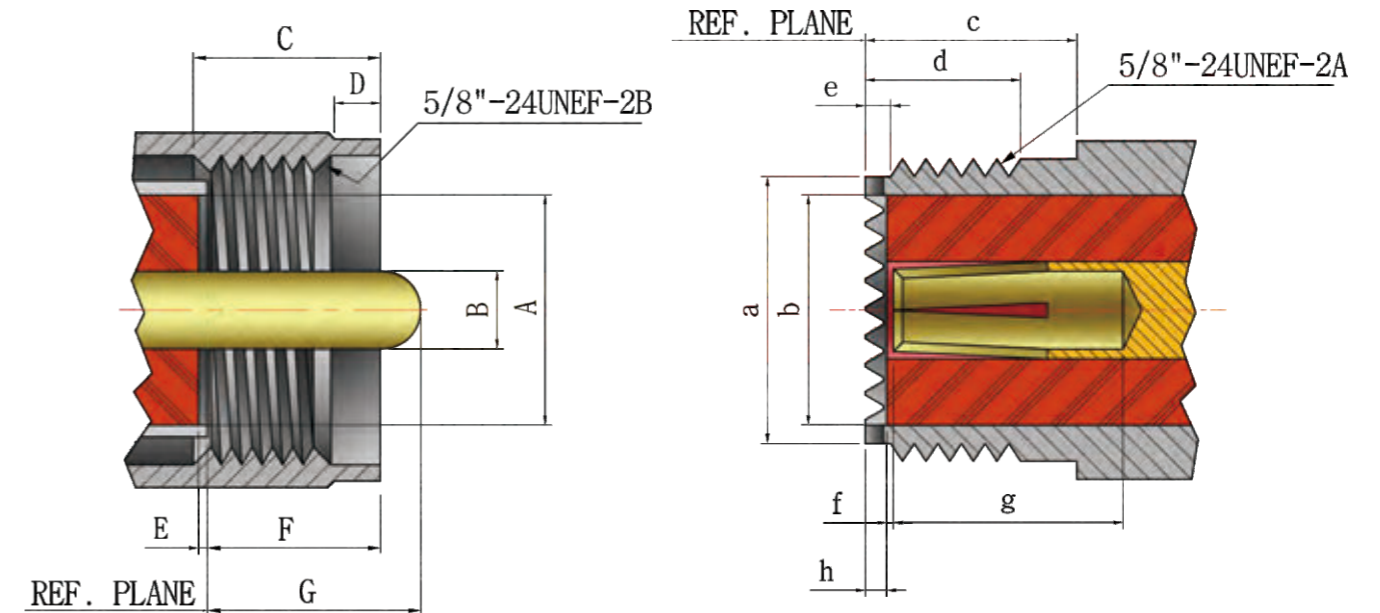


Specification

UHF 0-300MHz

UHF coaxial connectors were one of the first RF connector series to be developed. They are a general purpose, non-constant impedance connector which operate from DC to 300 MHz. The 5/8"-24 thread coupling and clamp, crimp, twist-on and solder termination provide the UHF with the flexibility that have kept it one of the most popular coaxial connectors over the years. Among the many application of this low cost, low frequency device are antenna connections for CB radios, public address systems, audio, video, mobile radio and test equipment.

Interface Mating Dimensions



PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	11.56(.455)	12.22(.481)
B	3.912(.154)	4.013(.158)
C	8.76(.345)	—
D	1.19(.047)	4.27(.168)
E	0.00	—
F	—	9.91(.390)
G	—	11.1(.437)

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	14.00(.551)	14.25(.561)
b	11.56(.455)	12.22(.481)
c	11.1(.437)	—
d	7.87(.310)	—
e	1.19(.047)	1.96(.077)
f	0.03(.0012)	—
g	11.76(.463)	—
h	1.02(.040)	—



Electrical	
Impedance	Non-constant
Frequency Range	0 to 300 MHz
VSWR	≤ 1.5
RF Leakage	≥ 90 dB
Dielectric Withstanding Voltage	2000 V rms
Voltage Rating	≥ 750 V rms (depending on cable)
Inner Contact Resistance	≤ 5 mΩ
Outer Contact Resistance	≤ 5 mΩ
Insulation Resistance	≥ 5 GΩ

Mechanical	
Mating	5/8-24 UNEF Screw-on Coupling
Connector Durability	≥ 500 Cycles (for beryllium copper female contact only)
Cable Retention Force	≥ 12.1 lbs (for RG316) ≥ 28.7 lbs (for RG58) ≥ 94.5 lbs (for RG213)

Environmental	
Temperature Range	-25° C to 70° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Material		
Parts Name	Material	Plating
Body	Brass	Nickel or Silver
Inner Contact	Male: Brass Female: Brass or Phosphor Bronze	Nickel, Silver or Gold Nickel, Silver or Gold
Insulator	PTFE, Delrin or Bakelite	None
Gasket	Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

UHF S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/U, 8/X, 58/U, 174/U, 213/U, 316/U, LMR300 and more....
		Cable Assembly Instruction	See Appendix A

UHF B/H Jack, Front Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A

UHF Accessory

		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	Nil

Clamp Type (for Flexible Cable)

UHF S/T Plug, Clamp Type


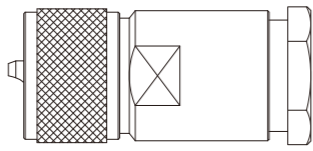
		Hand Tool	Nil
		Cable	8D,10D,12D and more....
		Cable Assembly Instruction	See Appendix A Code L

UHF S/T Plug, Clamp Type

		Hand Tool	Nil
		Cable	8D,10D,12D and more....
		Cable Assembly Instruction	See Appendix A


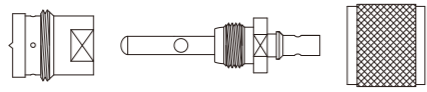


UHF S/T Plug, Clamp Type


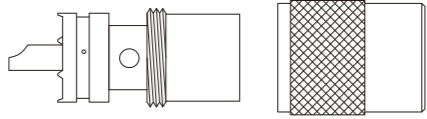
		Hand Tool	Nil
		Cable	3D, 5D, 8D, 10D and more....
		Cable Assembly Instruction	See Appendix A

Solder Termination for Flexible Cable


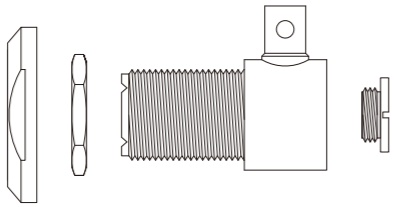
UHF S/T Plug, Solder Type

		Hand Tool	Nil
		Cable	1.5D, 3D, 5D and more....
		Cable Assembly Instruction	See Appendix A

UHF S/T Plug, Solder Type


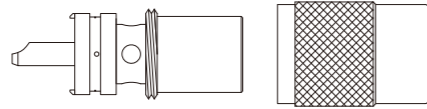
		Hand Tool	Nil
		Cable	3D, 5D, 8D and more....
		Cable Assembly Instruction	See Appendix A Code P

UHF R/A Jack, Solder Type

		Hand Tool	Nil
		Cable	1.5D, 3D, 5D, 8D, 10D and more....
		Cable Assembly Instruction	See Appendix A Code N


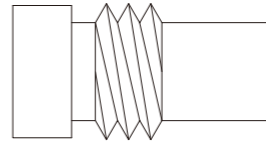
Twist-on Termination for Flexible Cable

UHF S/T Plug, Twist-on Type (PL-259)

		Hand Tool	Nil
		Cable	RG8/U, 8/X, 58/U, 213/U, LMR240, LMR300 and more....
		Cable Assembly Instruction	See Appendix A Code P


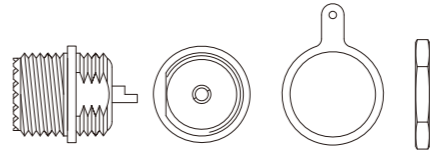


UHF Reducer for UP02


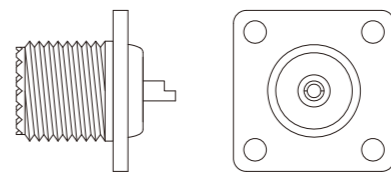
		Hand Tool	Nil
		Cable	RG58,59 and more....
		Cable Assembly Instruction	Nil

Bulkhead Receptacle, Solder Pot Terminal

UHF B/H Jack, Front mount Solder Type


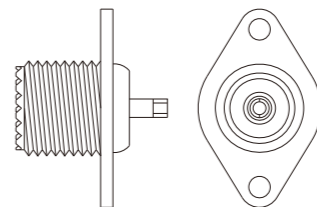
		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

UHF P/M 4-Hole Jack, Solder Type

		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

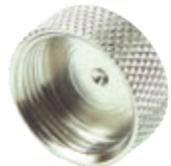
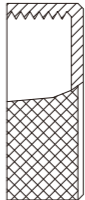
Panel Mount Type

UHF P/M 2-Hole Jack, Receptacle

		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

Cap

Protective Cap for UHF Jack

		Hand Tool	Nil
		Cable	Nil
		Cable Assembly Instruction	Nil

Mini UHF Series

Description

Miniature UHF connectors are designed for use as coaxial interconnections in cellular mobile telephone systems and similar applications where size, weight and cost factors are critical. These connectors will terminate RG-58, -58A, -58B, -58C, and Belden 9258 cables. Crimp type cable plugs and jacks are available as well as panel and printed circuit board receptacles.

Applications

- Cellular mobile telephone.
- Low cost local area networks.
- Telecommunications

Features

- These miniature 3/8"-24 thread size UHF connectors provide excellent RF performance for applications up to 2.5 GHz. This compares to the limit of 300 MHz for the standard 5/8" -24 thread size UHF connectors normally associated with CB applications. Combining excellent electrical characteristics, small size and light weight, Mini-UHF connectors feature crimp-type cable termination providing low installation cost.
- Interface according to IEC 169-34



Specification

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 lightweight at a relatively inexpensive cost for many coaxial connector applications.

Electrical

Impedance	50 ohm
Frequency Range	0 to 2.5 GHz
VSWR	1.25max
Voltage Rating	335 VRMS max
Dielectric Withstanding Voltage	1000 VRMS max
Contact Resistance	Center Contact = 5.0 Milliohms max Outer Contact = 5.0 Milliohms max
RF Leakage	-55 dB min@2.5GHz
Insertion Loss	.2 dB max@ 2.5GHz
Insulator Resistance	5,000 Megohms min

Mechanical & Environmental

Mating	3/8-24 UNF Screw-on coupling
Cable Retention	RG-58, 141,142, 223 → 40 lbs min RG-174, 188, 316 → 20 lbs min
Durability	500 matings(for beryllium copper female contact only)
Temperature Range	-55 C to 85 C
Vibration	MIL-STD-202 Method 204 Test CondB
Salt Spray	MIL-STD-202 Method 101 Test CondB

Material


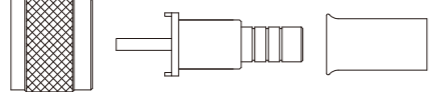
Parts Name	Material	Plating
Body	Brass	Nickel
Inner Contact	Male: Brass Female: Brss, Phosphor Bronze or Beryllium Copper	Gold
Insulator	PTFE or Delrin	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.


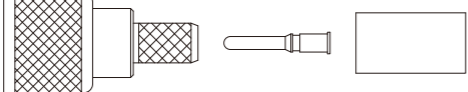


Crimp Type (for Flexible Cable)


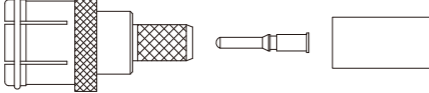
Mini UHF S/T Plug, Crimp Type

 <p>M101</p>		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A


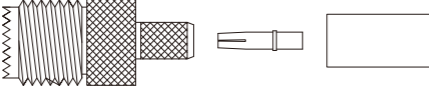
Mini UHF S/T Plug, Crimp Type

 <p>M102</p>		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A

Mini UHF Push-on Plug, Crimp Type

 <p>M105</p>		Hand Tool	See Appendix B
		Cable	RG58/U and more....
		Cable Assembly Instruction	See Appendix A Code E

Mini UHF S/T Jack, Crimp Type

 <p>M201</p>		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

F Series

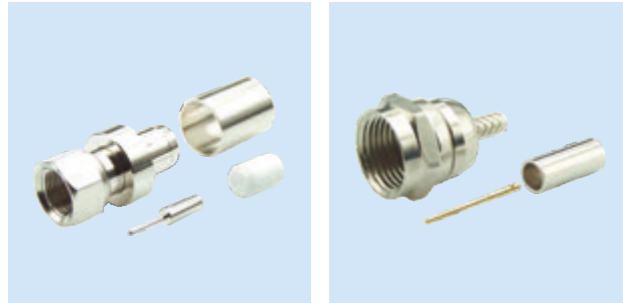
Specification

F TYPE Technical Specification

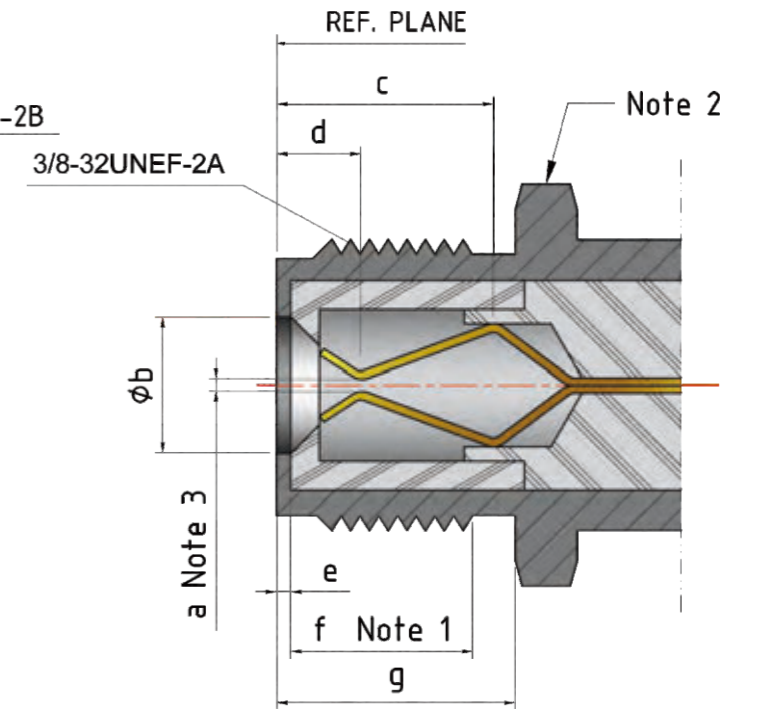
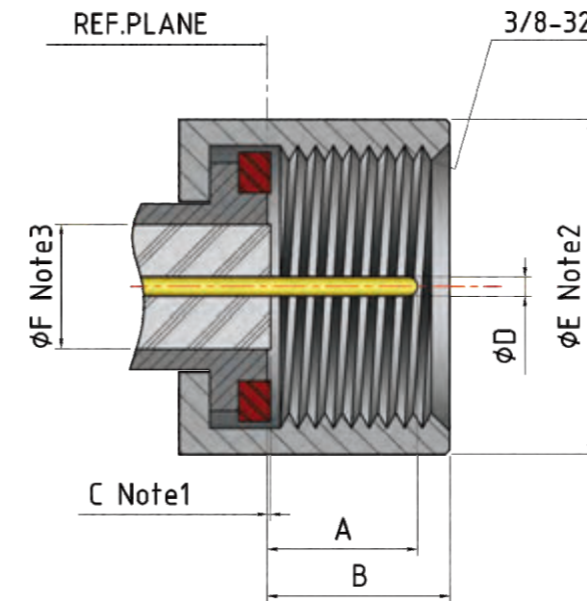
F connectors were designed as a low cost method of coupling coaxial cables and equipment used in TV, MTV, and satellite communication applications. They have threaded coupling interfaces and the plug utilizes the center contacts of the cable rather than a separately applied pin. They are designed for low frequency transmissions (typically video) up to 3GHz.

Features

- Interface according to IEC 169-24



Interface Mating Dimensions



- Note :
1. Protrusion of dielectric beyond reference plane is applicable to only the 0.146 in nominal dielectric core diameter cables. When larger core diameter cables are used, no protrusion of the dielectric beyond the reference plane is permitted.
 2. Shape of coupling nut is optional; however, provision for wrench tightening should be made. For example, wrench flats.
 3. Applicable to only the 0.146 in nominal dielectric core diameter cables. The 3.8mm maximum diameter is not applicable when larger core diameter cables are used.

- Note :
1. Length of full thread.
 2. Shape of connector body is optional; however, provision for wrench tightening should be made. For example, wrench flats.
 3. Socket contact shall accept a pin contact of 0.51 mm to 1.63 mm (0.20 in to 0.64 in); this shall be satisfied at dimension " d ".

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	4.95(.195)	6.86(.270)
B	—	7.29(.287)
C	—	0.25(.010)
D	0.51(.020)	1.63(.024)
E	—	12.95(.510)
F	—	3.80(.149)

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	See Note 3	
b	3.86(.152)	—
c	7.00(.295)	—
d	—	4.70(.185)
e	0.30(.012)	—
f	5.56(.219)	—
g	7.59(.299)	—



Electrical

Impedance	75Ω
Frequency Range	0 to 3 GHz
VSWR	≅ 1.2
RF Leakage	≅ 100 dB
Dielectric Withstanding Voltage	1500 V rms
Voltage Rating	500 V rms (depending on cable)
Inner Contact Resistance	≅ 10 mΩ
Outer Contact Resistance	≅ 1 mΩ
Insulation Resistance	≅ 5 GΩ

Mechanical

Mating	3/8-32 UNEF Screw-on Coupling
Connector Durability	≅ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	0.38 lbs ~ 0.51 lbs
Coupling Nut Retention Force	1.5 lbs
Cable Retention Force	≅ 20 lbs

Environmental

Temperature Range	-40° C to 60° C
Corrosion (Salt Spray)	IEC61169-1, Sub clause9.4.6
Vibration	IEC61169-1, Sub clause9.3.3
Thermal Shock	IEC61169-1, Sub clause9.4.4
Mechanical Shock	IEC61169-1, Sub clause9.3.14


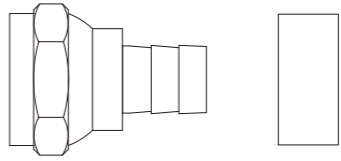
Material

Parts Name	Material	Plating
Body	Brass	Nickel
Inner Contact	Male : Brass Female :Phosphor Bronze	Gold or Nickel or Tin
Ferrule	Brass	Nickel
Insulator	Delrin, Polypropylene, PTFE	
Nut	Brass or Steel	Nickel
Washer	Brass or Steel	Nickel


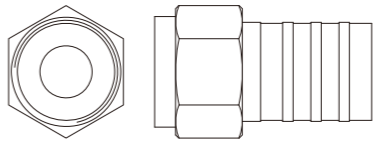
Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)


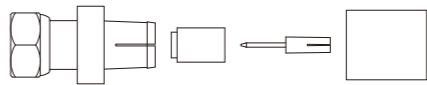
F S/T Plug, Crimp Type

		Hand Tool	Nil
		Cable	RG6/U, 59/U, 3C-2V and more....
		Cable Assembly Instruction	See Appendix A


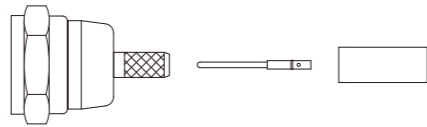
F S/T Plug, Crimp Type (Attached Grip Ring)

		Hand Tool	Nil
		Cable	RG6U, 59/U and more....
		Cable Assembly Instruction	See Appendix A


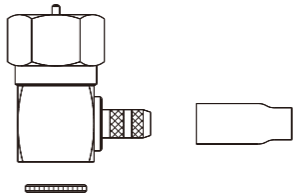
F S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	7C-2V and more....
		Cable Assembly Instruction	See Appendix A

F S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179/U and more....
		Cable Assembly Instruction	See Appendix A Code E

F R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179, 187; B9221 and more....
		Cable Assembly Instruction	See Appendix A Code H



F Plug, Compression Type

		Hand Tool	Nil
		Cable	RG6/U, 59/U, 7C-2V and more....
		Cable Assembly Instruction	See Appendix A Code O

F S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Rg11, 12 and more....
		Cable Assembly Instruction	See Appendix A

F B/H Jack, Rear Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179/U and more....
		Cable Assembly Instruction	See Appendix A Code O

F B/H Jack, Rear Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG179, 187; B9221 and more....
		Cable Assembly Instruction	See Appendix A Code H

Twist-on Termination for Flexible Cable

F S/T Plug, Twist-on Type

		Hand Tool	Nil
		Cable	RG58/U, 59/U and more....
		Cable Assembly Instruction	See Appendix A Code O



F S/T Plug, Twist-on Type

		Hand Tool	Nil
		Cable	7C-2V and more....
		Cable Assembly Instruction	See Appendix A Code O

PCB Type

F Push-on Jack, PCB Mount Type (G Series)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

F S/T Jack, PCB Mount Type (Tab Contact)

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

F R/A BulkHead Jack, PCB Mount type

		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing


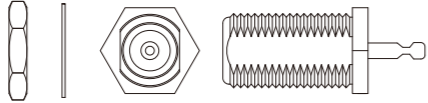
Bulkhead Receptacle, Solder Pot Terminal

F B/H Push-on Jack, Front Mount Solder Type (G Series, Tab Contact)


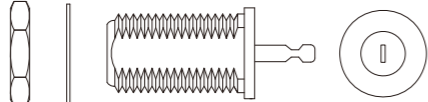
		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing




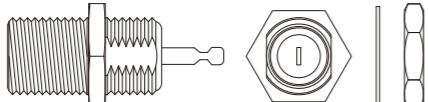
F B/H Jack, Rear Mount Solder Type (Tab Contact)

 F206		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

F B/H Jack, Rear Mount Solder Type (Tab Contact)


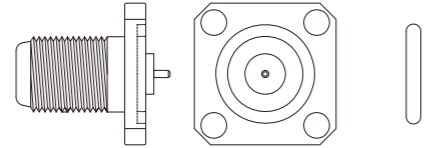
 F207		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

F B/H Jack, Front Mount Solder Type (Tab Contact)

 F208		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing


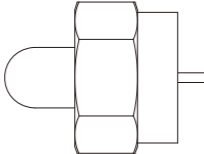
Panel Mount Type

F P/M-O 4-Hole Jack, Receptacle

 F213		Hand Tool	Nil
		Cable	Nil

Terminator & Cap

F Plug Terminator, 75 ohm

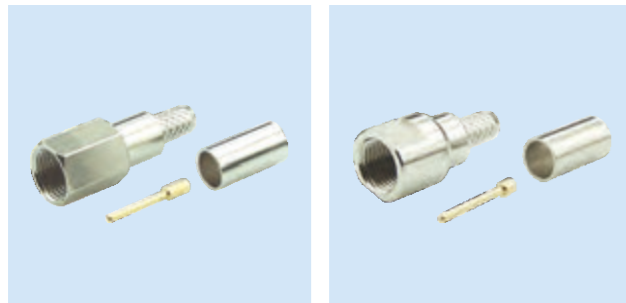
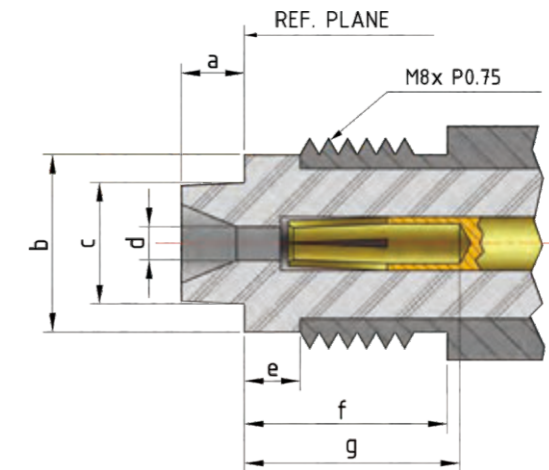
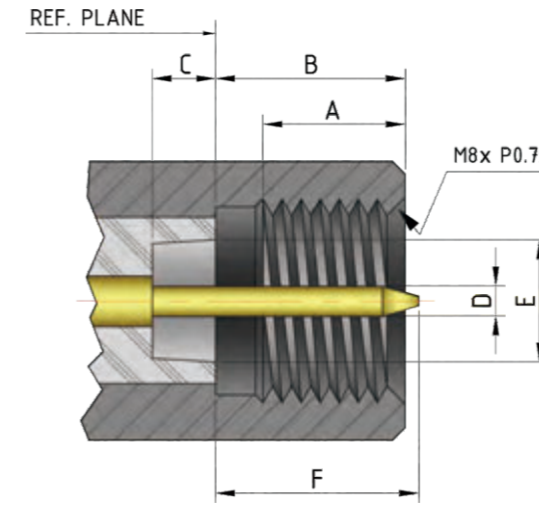
 TE120		Hand Tool	Nil
		Cable	Nil

FME Series

FME Cable Fixing and Adaptors

FME (For Mobile Equipment) is a miniature 50 ohm RF connector series offering excellent performance from DC to 2.0 GHz used with primarily with RG-58 or equivalent coaxial cables employed in mobile applications and installations. The FME female is designed to allow cables it has been installed on to be snaked through the often tight access holes or spaces of a vehicle to the desired equipment location(s) where an FME male adapter to the required equipment connector series is fitted to the female cable connector. There is an extensive array of FME inter-series adaptors available and a male cable connector is also offered for both RG-58 and RG-174 type cables to facilitate extensions, splices or transitions.

Interface Mating Dimensions



FME Technical Specification

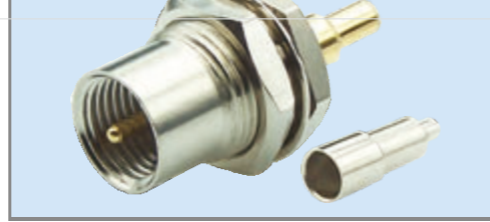
Impedance	50 ohm
Operating Frequency	DC to 2 GHz
VSWR	1.3:1 Max
Durability	500 Cycles(only for BeCu)
Body and Coupling Nut	Brass, Nickel Plated
Inner Contact	Brass, Gold Plated
Outer Contact	Brass, Gold Plated
Insulator	PTFE or Delrin
Mating	M8XP .75 threaded

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	5.60(.220)	—
B	7.58(.298)	7.62(.300)
C	2.50(.098)	—
D	1.17(.046)	1.23(.048)
E	4.80(.189)	—
F	—	8.00(.315)

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	—	2.50(.098)
b	—	7.00(.276)
c	—	4.80(.189)
d	1.30(.051)	—
e	2.20(.087)	—
f	8.50(.355)	—
g	8.50(.355)	—



Crimp Type (for Flexible Cable)

FME S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG8/X, 58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

FME S/T Plug, Rear Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

FME B/H Plug, Rear Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	0.8, 1.13, RG174/U, 178/U 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

FME B/H Plug, Rear Mount Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code F

FME B/H Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code F



FME S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG58/U, 174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

FME S/T Jack, Crimp /type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U, 58/U and more....
		Cable Assembly Instruction	See Appendix A Code E

Bulkhead Receptacle, Solder Pot Terminal

FME B/H Plug, Front Mount Solder Type

		Hand Tool	Nil
		Cable	Nil
		Mounting Hole	Refer to S-Conn's Drawing

SSMB Series

Description

SSMB connectors series used a snap-on connection. In doing this connectors are plugged together and are held by a tongue and groove arrangement. The design permits rapid connection and disconnection in small spaces, even in inaccessible locations.

Applications

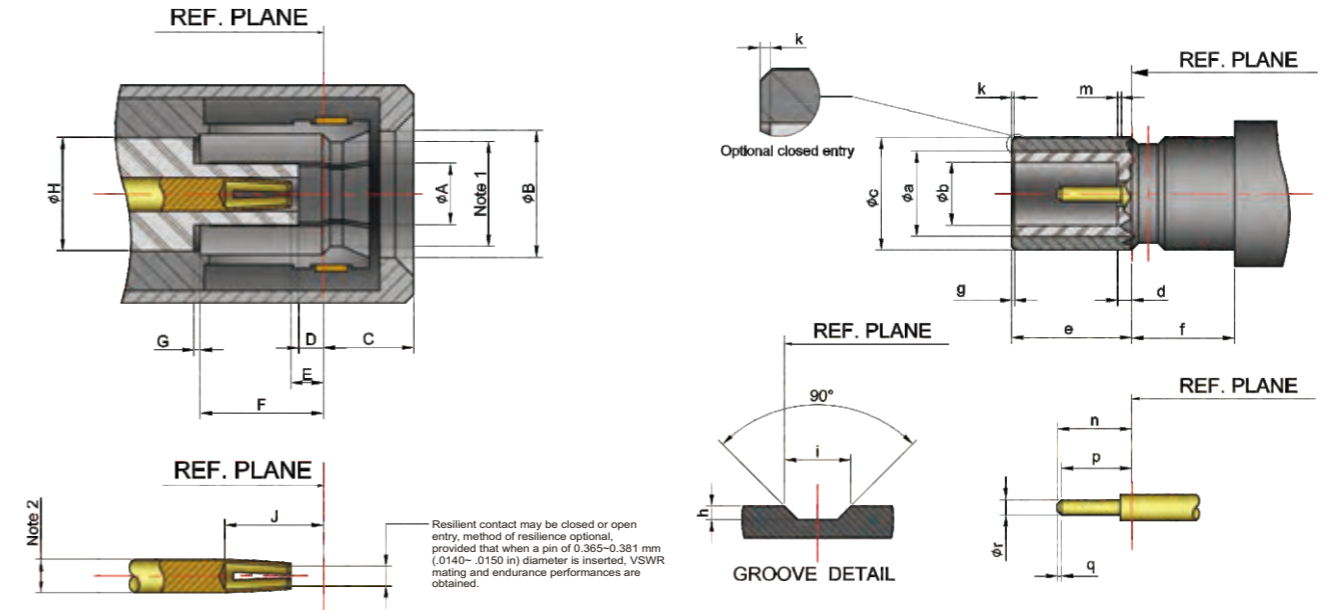
- Cable connectors (straight and right angle) for flexible cables with diameters from 2 to 2.8 mm
- PCB connectors (straight and right angle)
- Panel connectors

Features

- Quality tested according to US MIL-STD 202
- Frequency range up to 3 GHz
- VSWR (straight connector) : ≤ 1.30 typ.
- Interface according to IEC 169-19, EN 122170



Interface Mating Dimensions



Note :

- 1.The form and end dimension of outer contact detent shall meet electrical and mechanical requirements.
- 2.The diameters are chosen upon the assumption that PTFE dielectric constant of 2.02 to give an impedance of 50Ω .

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
A	—	1.35(.053)
B	2.74(.108)	—
C	—	2.26(.089)
D	0.53(.021)	—
E	0.53(.021)	0.89(.035)
F	2.74(.108)	—
G	0.00	—
H	2.11(.083)Nom.	
J	2.46(.097)	—

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
a	2.11(.083)	
b	1.37(.054)	—
c	—	2.69(.106)
d	—	0.56(.022)
e	—	2.77(.109)
f	2.30(.091)	—
g	0.00(.000)	—
h	0.05(.002)	0.15(.006)
i	0.63(.025)	0.74(.029)
k	0.00(.000)	0.51(.020)
m	0.00(.000)	—
n	—	2.44(.096)
p	1.78(.070)	—
q	—	0.25(.010)
r	0.36(.014)	0.38(.015)



Electrical

Impedance	50Ω
Frequency Range	0 to 3 GHz
VSWR	≤1.35
RF Leakage	≥40 dB
Dielectric Withstanding Voltage	500 V rms
Voltage Rating	175 V rms (depending on cable)
Inner Contact Resistance	≤5 mΩ
Outer Contact Resistance	≤2.5 mΩ
Insulation Resistance	≥1 GΩ

Mechanical

Mating	Snap-on Coupling
Connector Durability	≥500 Cycles (for beryllium copper female contact only)
Engagement Force	≤6.0 lbs
Disengagement Force	1.8 lbs ~ 6.0 lbs
Cable Retention Force	≥7.3 lbs (for RG178) ≥12.1 lbs (for RG316)

Environmental

Temperature Range	-55° C to 155° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. B

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male : Brass Female : Phosphor Bronze Beryllium Copper	Gold
Insulator	PTFE	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

SSMB S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SSMB R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

SSMB S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SSMB R/A Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, RG316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

PCB Type

SSMB S/T Jack, PCB Mount Type

		Hand Tool	See Appendix B
		Cable	Nil
		Cable Assembly Instruction	See Appendix A Code E

SMC Series

Description

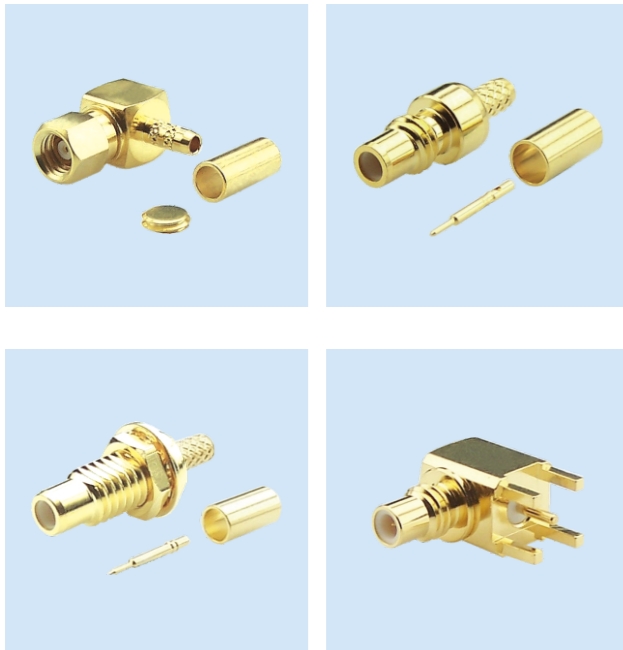
SMC connectors are designed with a screw-on connection and can be used for frequencies up to 10 GHz. Connector pairs can be connected and secured by means of a coupling nut system.

Applications

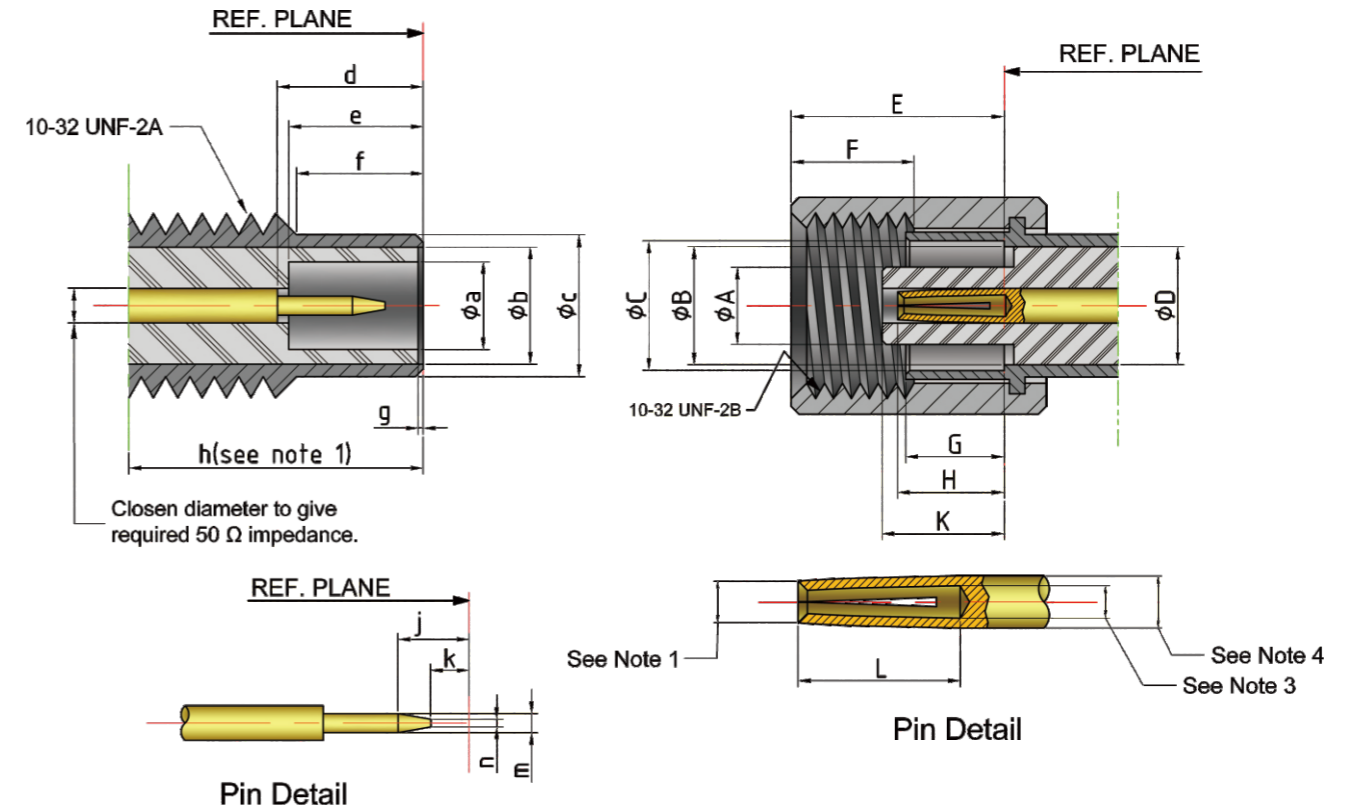
- Cable Connectors (straight and right angle) for flexible and semi-rigid cables with diameters to 3.1 mm
- PCB connectors
- Panel connectors
- Adaptors.

Features

- Quality tested according to US MIL-STD 202
- Frequency range up to 10 GHz
- VSWR (straight connector) : ≤ 1.30 typ.
- Screw-on coupling mechanism.
- Interface according to IEC 169-9, CECC 22140, MIL-C-39012 SMC, MIL-STD-348A/312



Interface Mating Dimensions



- Note :
1. Method of slotting optional. Closing of socket to give required electrical and mechanical performance.
 2. Dimension when coupling nut biased forward.
 3. Dimension of bore to meet electrical and mechanical requirements.
 4. Dimension chosen to give 50 Ω impedance.
 5. Application at the reference plane.

- Note :
1. Thread gauge to go this minimum distance.

PLUG

Letter	Milimeters (inches)	
	Minimum	Maximum
a	2.08(.082)	
b	3.05(.120)Nom.	
c	—	3.71(.146)
d	3.40(.134)	—
e	3.40(.134)	—
f	3.12(.123)	3.38(.133)
g	0.00(.000)	—
h	5.94(.234)	—
j	—	2.13(.084)
k	0.61(.024)	—
m	0.48(.019)	0.53(.021)
n	—	0.25(.010)

JACK

Letter	Milimeters (inches)	
	Minimum	Maximum
A	—	2.06(.081)
B	—	3.07(.121)
C	3.73(.147)	—
D	3.05(.120)Nom.	
E	—	5.92(.233)
F	2.79(.110)	—
G	—	3.10(.122)
H	2.85(.112)	3.40(.134)
K	—	3.40(.134)
L	2.79(.110)	—



Electrical

Impedance	50Ω / 75Ω
Frequency Range	0 to 10 GHz
VSWR	≦ 1.3 (straight connector) ≦ 1.45 (right angle connector)
RF Leakage	≧ 90 dB
Dielectric Withstanding Voltage	750 V rms
Voltage Rating	250 V rms (depending on cable)
Inner Contact Resistance	≦ 5 mΩ
Outer Contact Resistance	≦ 2.5 mΩ
Insulation Resistance	≧ 1 GΩ

Mechanical

Mating	#10-32 UNF Screw-on Coupling
Connector Durability	≧ 500 Cycles (for beryllium copper female contact only)
Recommended Mating Torque	2.2 lbs ~ 3.1 lbs (max. 6.2 Lbs)
Coupling Nut Retention Force	≧ 33.72 lbs
Cable Retention Force	≧ 7.3 lbs (for RG178) ≧ 12.1 lbs (for RG316)

Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. C

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male : Brass Female : Phosphor Bronze Beryllium Copper	Gold
Insulator	PTFE	None
Crimp Ferrule	Annealed Copper	Same as Body

Note: Other Material/Finish is Available on Request.

Crimp Type (for Flexible Cable)

SMC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Mini Coaxial Cable, RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

SMC R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code H

SMC S/T Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E

SMC B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E


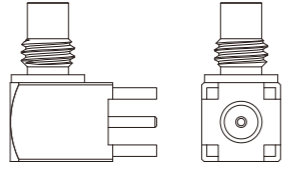
SMC B/H Jack, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code E



PCB Type

SMC R/A Jack, PCB Mount Type

 <p>SC203</p>		Hand Tool	Nil
		Cable	Nil
		PCB Layout	Refer to S-Conn's Drawing

SMP Series

Description

The SMP interface is a subminiature interface in the same scale as MMCX connectors but offers a frequency range of DC to 40 GHz. It is commonly used in miniaturized high frequency coaxial modules and is offered in both push-on and snap-on mating styles.

Applications

- Aerospace
- Board to Board Interconnect
- Broadband
- Instrumentation
- Mil/Aero
- Optical Nodes and Routers
- Telecommunications

Features

- Designed to accommodate both radial and axial misalignment.
- Cable connector designs for both flexible and semi-rigid cables.
- Interface according to MIL-STD-348A/326



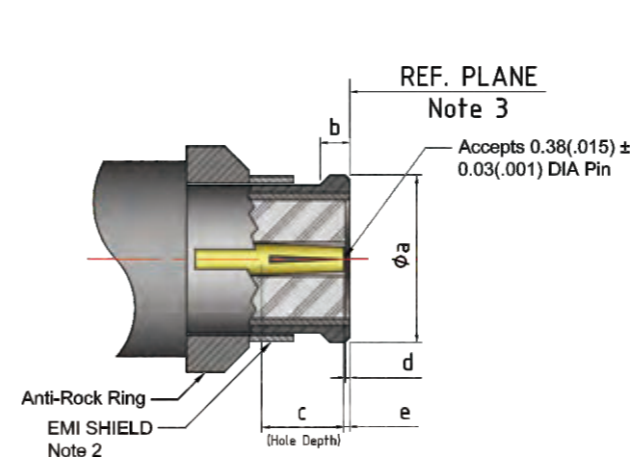
Specification

SMP 50 ohm 0-40 GHz

SMP bullet connectors at high frequencies up to DC to 40 GHz. The SMP bullet connector was developed to meet the need for a smaller high frequency compact design that incorpo ease of use and functionality. The SMP bullet connector is the heart of this unique design. The bullet is designed to allow the joining of two RF Modules by captivating the bullet between the two shrouds. This mounting method allows for higher density of connectors and by design the SMP bullet connector allows for misalignment to compensate for tolerance stack up. With significant withdrawal forces on the full detent shroud the SMP connector has become a standard for quick and effective interconnects using both semi-rigid and flexible cables. The "Push-on" design allows the installle to mate connectors without the need for threads or wrenches. Today's industry requires both innovation and flexibility, and the SMP bullet connector meets that challenge.

Interface Mating Dimensions

SMP Jack (CABLE)

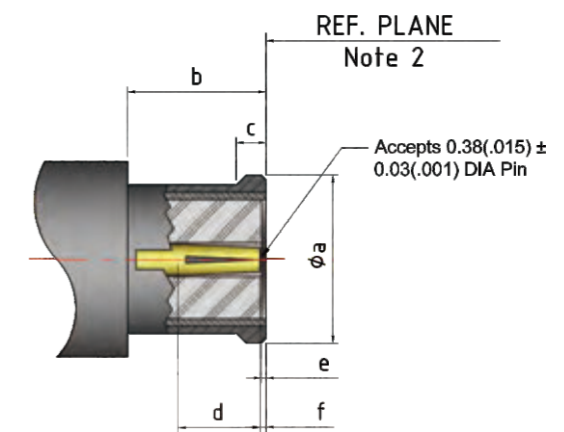


Note :
1. Pin may not be supplied with shroud, refer to the applicable specification.

JACK(CABLE)

Letter	Millimeters (inches)	
	Minimum	Maximum
a	—	3.43(.135)
b	0.46(.018)	0.64(.025)
c	1.78(.070)	—
d	0.00 Dielectric Projection	
e	Center Contact Flush to 0.20(.008)Recession	

SMP Jack (Uncable)

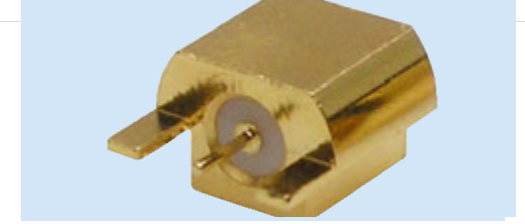


Note :
1. Interface shall meet the force to engage and disengage requirements in accordance with DSCC drawing 94007.
2. From and dimension of outer conductor to meet electrical and mechanical requirements.

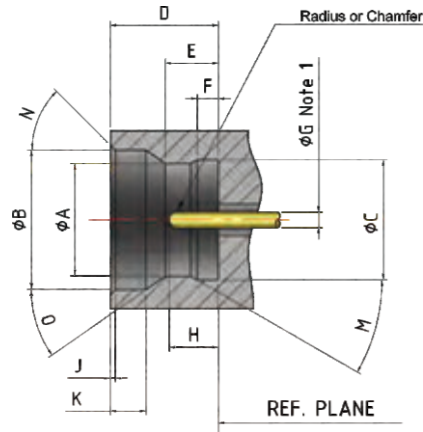
JACK(UNCABLE)

Letter	Millimeters (inches)	
	Minimum	Maximum
a	—	3.43(.135)
b	2.84(.112)	—
c	0.46(.018)	0.64(.025)
d	1.78(.070)	
e	0.00 Dielectric Projection	
f	Center Contact Flush to 0.20(.008)Recession	

Interface Mating Dimensions

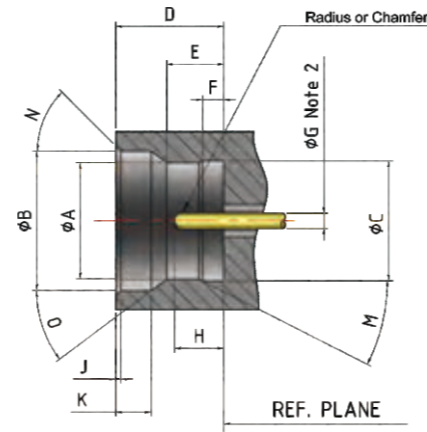


SMP Plug (Full Detent Type)



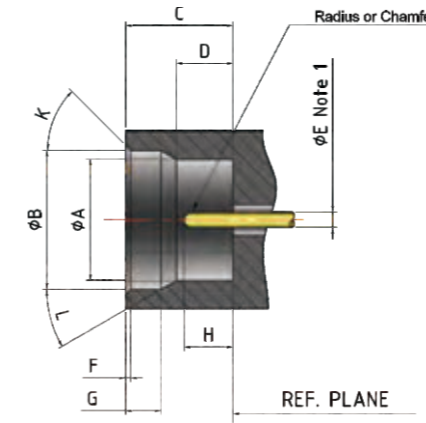
Note :
1.Pin may not be supplied with shroud, refer to the applicable specification.

SMP Plug (Limited Detent Type)



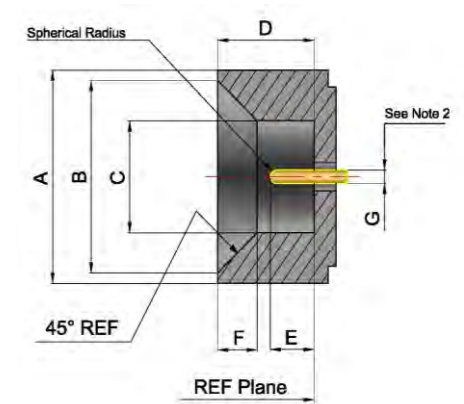
Note :
1.Metric equivalents are given for general information only.
2.Pin may not be supplied with shroud, refer to the applicable specification.

SMP Plug (Smooth Bore Type)



Note :
1.Pin may not be supplied with shroud, refer to the applicable specification.

SMP Plug (Catchers Mit)



Note :
1.Metric equivalents are given for general information only.
2.Pin may not be supplied with shroud, refer to the applicable Specification.

PLUG(FULL DETENT TYPE)

Letter	Millimeters (inches)	
	Minimum	Maximum
A	2.90(.114)	2.95(.116)
B	3.53(.139)	3.68(.145)
C	3.15(.124)	3.20(.126)
D	2.74(.108)	2.84(.112)
E	1.30(.051)	1.45(.057)
F	0.52(.0205)	0.59(.0235)
G	0.36(.014)	0.40(.016)
H	1.14(.045)	1.40(.055)
J	0.08(.003)	0.20(.008)
K	0.84(.033)	0.94(.037)
M	30° REF	
N	40°	50°
O	35° REF	

PLUG(LIMITED DETENT TYPE)

Letter	Millimeters (inches)	
	Minimum	Maximum
A	3.00(.118)	3.10(.122)
B	3.53(.139)	3.68(.145)
C	3.15(.124)	3.20(.126)
D	2.74(.108)	2.84(.112)
E	1.37(.054)	1.52(.060)
F	0.52(.0205)	0.59(.0235)
G	0.36(.014)	0.40(.016)
H	1.14(.045)	1.40(.055)
J	0.08(.003)	0.20(.008)
K	0.84(.033)	0.94(.037)
M	30° REF	
N	40°	50°
O	35° REF	

PLUG(SMOOTH BORE TYPE)

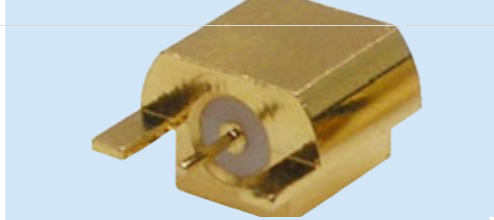
Letter	Millimeters (inches)	
	Minimum	Maximum
A	3.12(.123)	3.23(.127)
B	3.53(.139)	3.68(.145)
C	2.74(.108)	2.84(.112)
D	1.37(.054)	1.52(.060)
E	0.36(.014)	0.40(.016)
F	0.08(.003)	0.20(.008)
G	0.84(.033)	0.94(.037)
H	1.14(.045)	1.40(.055)
K	40°	50°
L	35° REF	

PLUG(Catchers Mit)

Letter	Millimeters (inches)	
	Minimum	Maximum
A	5.84(.230)	6.10(.240)
B	5h.33(.210)	5.59(.220)
C	3.05(.120)	3.30(.130)
D	2.74(.108)	2.84(.112)
E	0.36(.014)	1.40(.055)
F	1.09(.043)	1.19(.047)
G	0.36(.014)	0.41(.016)

SMP


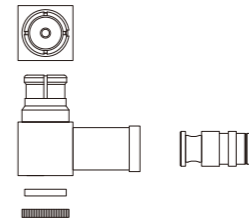
SMP





Crimp Type (for Flexible Cable)



SMP R/A Jack, Crimp Type


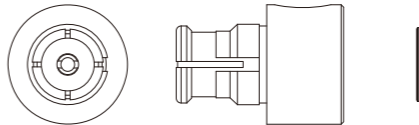
		Hand Tool	See Appendix B
		Cable	RG178/U and more....
		Cable Assembly Instruction	See Appendix A

SMP S/T Plug, Crimp Type


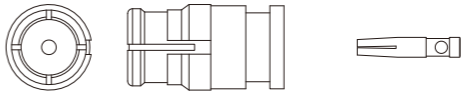
		Hand Tool	See Appendix B
		Cable	RG178, 168A, 196 and more....
		Cable Assembly Instruction	See Appendix A

Direct Solder Type (for Semi-Rigid Cable)


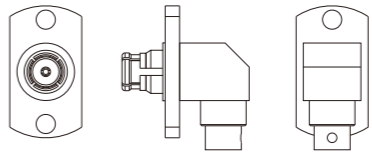
SMP R/A Jack, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A

SMP S/T Jack, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

SMP R/A Panel Mount 2-Hole Jack, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A Code M

Electrical

Impedance	50Ω
Frequency Range	0 to 40 GHz
VSWR	DC to 26.5 GHz → 1.15 max. 26.5 to 40 GHz → 1.35 max.
Voltage Rating	170 volts rms max.
Dielectric Withstanding Voltage	500 volts rms at sea level
Contact Resistance	Inner Contact: 6.0 milliohms max. Outer Contact: 2.0 milliohms max.
RF Leakage	-80dB min. at 3GHz -65dB min. form 3 to 26.5GHz min.
Insertion Loss	.4 dB max (straight) .6 dB max (right angle)
Insulator Resistance	5,000 Megohms min

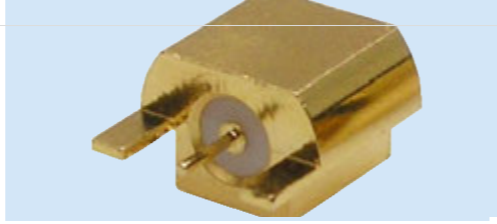
Mechanical & Environmental

Durability	100 matings min.(Full Detent) 500 matings min. (Limited Detent) 1000 matings min. (Smooth Bore)
Engagement force	15 lbs Max (Full Detent) 10 lbs Max (Limited Detent) 2 lbs Max (Smooth Bore)
Disengagement force	5 lbs Min(Full Detent) 2 lbs Min(Limited Detent) 5 lbs Min (Smooth Bore)
Vibration	MIL-STD-202, Method 204, Condition D
Salt Spray	MIL-STD-202, Method 101, Condition B
Shock	MIL-STD-202, Method 213, Condition D
Temperature Range	-65° C to +165° C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Moisture Resistance	MIL-STD-202, Method 106

Material


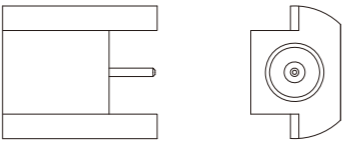
Parts Name	Material	Plating
Body	Shield: Stainless steel Male: Beryllium-Copper or Brass Female: Beryllium-Copper or Brass	Passivated Gold Gold
Inner Contact	Beryllium-Copper	Gold
Insulator	PTFE	None

Note: Other Material/Finish is Available on Request.



PCB Type

SMP S/T Plug, Edge Mount Type

 <p>SP108</p>		Hand Tool	Nil
		Cable	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing

BMA Series

Description

BMA connectors are 50 ohm with slide-on mating & non-locking interface that accomplish feature of blindmate.

The feature of blindmate has an external spring to provide mechanical movement for extensive mechanical misalignment of $\pm .020$ radial and $.060$ axial minimum is suitable for high performance microwave applications such as wireless infrastructure, satellite equipment and test and measurement. BMA also offer good electrical performance up to 18GHz and approximately the same size as SMA connectors

Applications

- Satellite Communication Equipment
- Microwave Subsystems
- Test and Measurement
- Wireless Base Station Equipment
- Military Radar

Features

- Air Dielectric
- Compliant Contacts
- Hooded Female Contact
- Interface according to IEC 1169-33

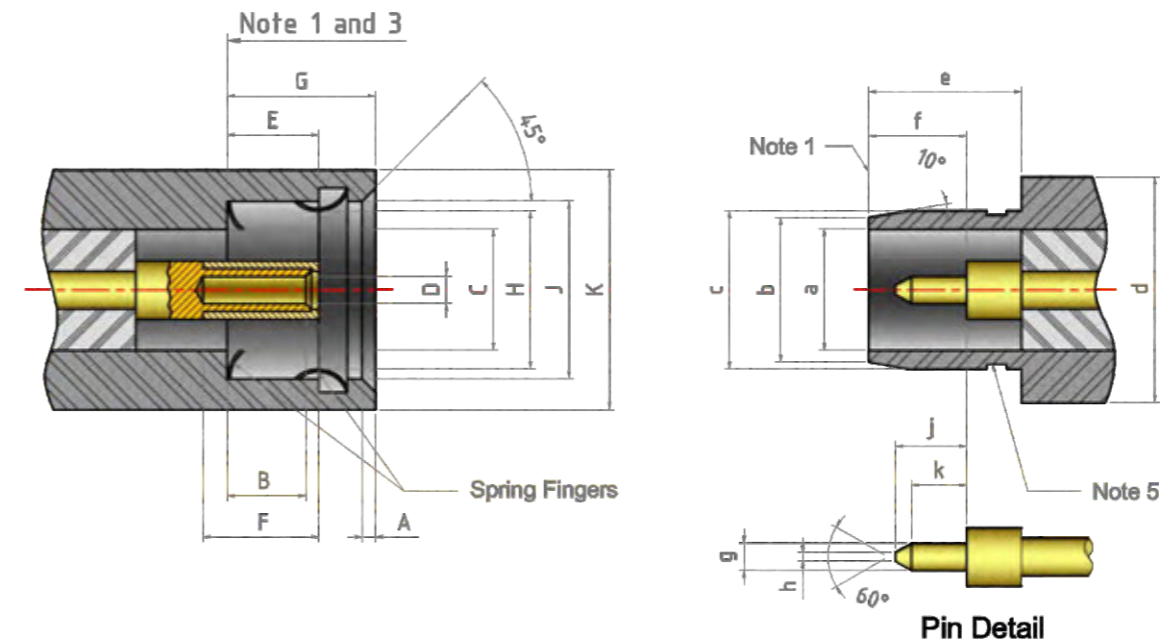


Specification

BMA

BMA connectors feature a push-on interface and a threadless outer ground connection. They can withstand both radial and axial misalignment. BMA connectors are miniature BMA connector. BMA connectors also includes a unique First-Make-Last-Break (FMLB) ground contact, which allows modular components to be plugged and unplugged or "hot swapped" in and out of a live system.

Interface Mating Dimensions



Note :

1. Reference plane, mechanical and electrical.
2. Bore diameter closed to meet electrical and mechanical requirements when mated with a 0.9017/0.9398 mm (0.355/0.370 in) diameter.
3. With spring finger bottomed.
4. To meet electrical and mechanical requirements.
5. Design and location of the sealing feature is optional but shall ensure the environmental performance requirements are met with up to 0.38 mm (0.015 in) interface separation.
6. Location of point of electrical and mechanical contact from the reference place.

JACK

Letter	Millimeters (inches)	
	Minimum	Maximum
A	0.38 (.015)	0.51 (.020)
B	2.845 (.112) See Note 4, 6	—
C	4.090 (.161) nominal	
D	See Note 2	
E	3.048 (.120) See Note 3	3.225 (.127) See Note 3
F	2.921 (.115)	
G	—	5.029 (.198)
H	See Note 4	
J	5.720 (.225)	
K	7.370 (.290)	

PLUG

Letter	Millimeters (inches)	
	Minimum	Maximum
a	4.090 (.161) nominal	
b	4.880 (.192) nominal	
c	5.309 (.290)	5.359 (.211)
d	7.620 (.300) nominal	
e	—	
f	3.252 (.128)	3.429 (.135)
g	.9017 (.0355)	.9398 (.0370)
h	—	.380 (.015)
j	2.159 (.085)	2.413 (.095)
k	1.346 (.053)	—



Electrical

Impedance	50Ω
Frequency Range	0 to 18 GHz
VSWR	≅ 1.2
RF Leakage	≧ 90 dB
Dielectric Withstanding Voltage	1000 V rms
Voltage Rating	≧ 670 V rms (depending on cable)
Inner Contact Resistance	≧ 2 mΩ
Outer Contact Resistance	≧ 2 mΩ
Insulation Resistance	≧ 5 GΩ

Mechanical

Mating	Slide-on Coupling
Connector Durability	≧ 500 Cycles (for beryllium copper female contact only)
Engagement Force	≧ 2.7 lbs
Disengagement Force	≧ 0.45 lbs
Cable Retention Force	≧ 22.5 lbs (for Semi-flexible) ≧ 36 lbs (for Semi-rigid)

Environmental

Temperature Range	-60° C to 125° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. D
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. I


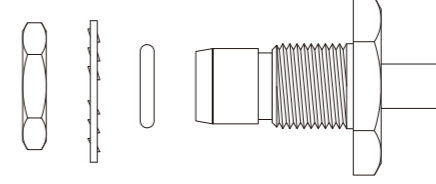
Material

Parts Name	Material	Plating
Male (Plug)	Body: Brass Outer Contacts: Phosphor Bronze Inner Contact: Brass Phosphor Bronze	Nickel Gold Gold
Female (Jack)	Body: Brass Stainless Steel Inner Contact: Beryllium Copper	Gold/ Nickel Passivated Gold
Insulator	PTFE	None


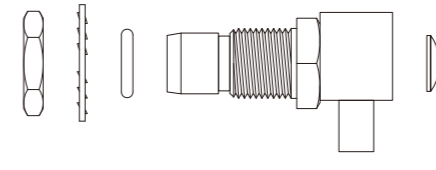
Note: Other Material/Finish is Available on Request.

Solder Type (for Semi-Rigid Cable)


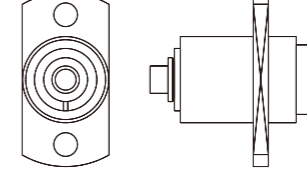
BMA B/H Plug, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A

BMA R/A Plug, Rear Mount Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A

BMA P/M 2-Hole Jack, Solder Type

		Hand Tool	Nil
		Cable	RG405/U and more....
		Cable Assembly Instruction	See Appendix A



Ultra Tiny BNC Series

Description

Ultra Tiny BNC allowing four times the density, and 40% smaller than the DIN 1.0/2.3. Ultra Tiny BNC delivers Real 75 ohm performance in a PCB Mounting type 51% smaller than old faction BNC connectors. Design to enhance electrical and mechanical performance, the Ultra Tiny BNC connector with the trusted bayonet interface, push and turn mating same as the old faction BNC. Provided a reliable locking way to make sure the mating could be fast and correctly positioned. We used the same cable and termination specifications of traditional broadcast connectors makes adopting Ultra Tiny BNC seamless.

Applications

- Serial digital interface (SDI)
- High definition television (HDTV)
- 6G UHD SDI (Per SMPTE ST-2081*) & 12G UHD SDI(Per SMPTE ST-2082*)
- NTSC & PAL video system

Features

- Fully Compatible with HD/Micro BNC
- Quality tested according to US MIL-STD-202
- Frequency range optimum up to 4 GHz

Electrical

Impedance	75Ω
Frequency Range	0 to 12 GHz
VSWR	≦1.2 (0 ~ 3 GHz) ≦1.3 (3 ~ 4 GHz)
RF Leakage	≧55 dB
Dielectric Withstanding Voltage	1500 V rms
Voltage Rating	≧500 V rms (depending on cable)
Inner Contact Resistance	≦1.5 mΩ
Outer Contact Resistance	≦1 mΩ
Insulation Resistance	≧5 GΩ

Mechanical

Mating	Bayonet Coupling
Connector Durability	≧500 Cycles (for beryllium copper female contact only)
Engagement Force	0.6 lbs ~ 2.5 lbs
Coupling Nut Retention Force	≧101.2 lbs
Cable Retention Force	≧12.1 lbs (for RG316) ≧28.7 lbs (for RG58) ≧38.3 lbs (for RG59)

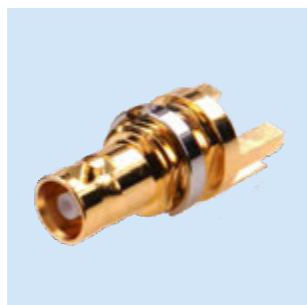
Environmental

Temperature Range	-65° C to 165° C
Corrosion (Salt Spray)	MIL-STD-202, Method 101, Cond. B
Vibration	MIL-STD-202, Method 204, Cond. B
Thermal Shock	MIL-STD-202, Method 107, Cond. B
Mechanical Shock	MIL-STD-202, Method 213, Cond. G

Material

Parts Name	Material	Plating
Body	Brass	Gold or Nickel
Inner Contact	Male: Brass Female: Phosphor Bronze or Beryllium Copper	Gold
Insulator	PTFE	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body


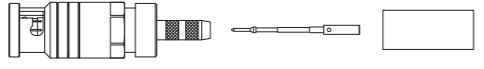
Note: Other Material/Finish is Available on Request.







Crimp Type (for Flexible Cable)



Ultra Tiny BNC S/T Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	Rg6, RG179, Belden 1855A, 1505A, 1694F and more....
		Cable Assembly Instruction	See Appendix A Code E

Ultra Tiny BNC B/H Jack, Rear Mount Crimp Type


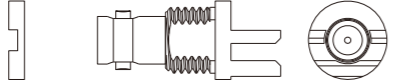
		Hand Tool	Nil
		Cable	1855A, Rg179 and more....
		Cable Assembly Instruction	See Appendix A Code E

Ultra Tiny BNC B/H-O Jack, Rear Mount Crimp Type

		Hand Tool	Nil
		Cable	1855A, Rg179 and more....
		Cable Assembly Instruction	See Appendix A Code E


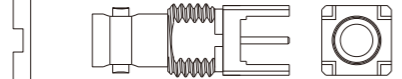
End Launch Type

Ultra Tiny BNC B/H Jack, End Launch Type

		Hand Tool	Nil
		PCB Soldering Pattern	Refer to S-Conn's Drawing


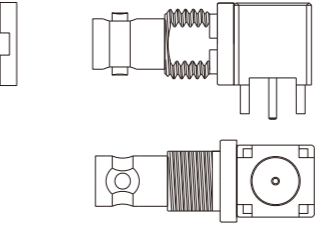
PCB Type

Ultra Tiny BNC B/H Jack, PCB Mount Type

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing



Ultra Tiny BNC R/A Bulkhead Jack, PCB Mount Type

		Hand Tool	Nil
		PCB Layout	Refer to S-Conn's Drawing



Surge Protector Series

Description

Surge Protectors are designed with surge arrestor molded that used to provide a transition from one RF connector serie to another especially for outdoor use. There is a high performance of application, such as wireless communication equipment, Mobile and fixed telecommunication and other outdoor equipment...etc.

Applications

- Tower Mounted Amplifiers (TMA)
- Global Positioning Systems (GPS)
- Antenna Systems
- Tower Top Electronics (TTE)
- Transmitters and Receivers
- WiFi
- Broadband Wireless

Features

- Quarter Wave Technology
- Maintenance Free



Specification

The Surge Protectors may meet IEC 61643-1, EN 61643-11 and 21 , Telcordia Technologies Technical Reference TR-NWT-001011, ANSI / IEEE C62.xx, or UL1449. Each standard defines different protector characteristics, test vectors, or operational purpose.


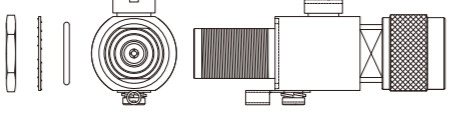
Electrical Specification Table

Part No	SG01	SG02	SG03	SG05	SG06	SG07
Frequency Range	0 to 6 GHz	0 to 6 GHz	0 to 6 GHz	0 to 6 GHz	0 to 6 GHz	0 to 6 GHz
VSWR	1.3 Max	1.3 Max	1.5 Max	1.3 Max	1.3 Max	1.3 Max
Insertion Loss	0.5 dBi Max	0.5 dBi Max	0.8 dBi Max	0.5 dBi Max	0.5 dBi Max	0.5 dBi Max
Impedence	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω
Gas Tube DC	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %
Gas Tube Impulse Breakdown Voltage	≅700V	≅700V	≅700V	≅700V	≅700V	≅700V
Gas Tube Insulation Resistance	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ
Max Withstand Current	5 KV	5 KV	5 KV	5 KV	5 KV	5 KV
RF Power Rating	15 W	15 W	15 W	15 W	15 W	15 W
Operating temperature	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C


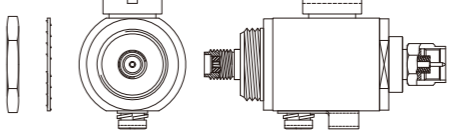
Part No	SG08	SG09	SG10	SG11	SG12	SG13
Frequency Range	0 to 6 GHz	0 to 6 GHz	0 to 1 GHz	0 to 1 GHz	0 to 1 GHz	0 to 6 GHz
VSWR	1.3 Max	1.5 Max	1.7 Max	1.7 Max	1.7 Max	1.5 Max
Insertion Loss	0.5 dBi Max	0.8 dBi Max	0.9 dBi Max	0.9 dBi Max	0.9 dBi Max	0.8 dBi Max
Impedence	50Ω	50Ω	50Ω	50Ω	50Ω	50Ω
Gas Tube DC	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %	230V ± 20 %
Gas Tube Impulse Breakdown Voltage	≅700V	≅700V	≅700V	≅700V	≅700V	≅700V
Gas Tube Insulation Resistance	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ	≧10000 MΩ
Max Withstand Current	5 KV	5 KV	5 KV	5 KV	5 KV	5 KV
RF Power Rating	15 W	15 W	15 W	15 W	15 W	15 W
Operating temperature	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C	-40° C ~85° C




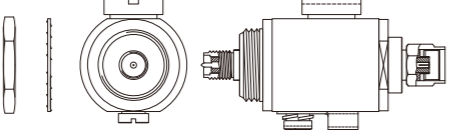
N Plug to B/H Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


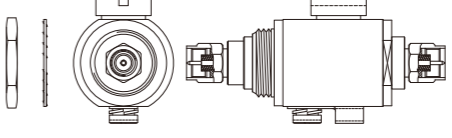
SMA Plug to Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


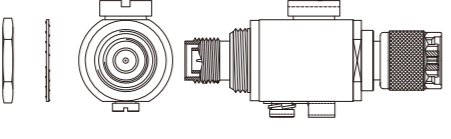
RP SMA Jack to RP SMA Plug

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


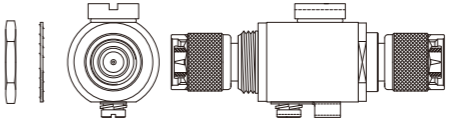
SMA Plug to Plug

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


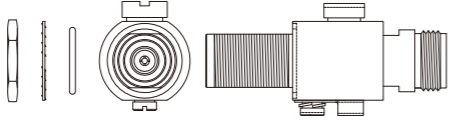
RP TNC Plug to RP TNC Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


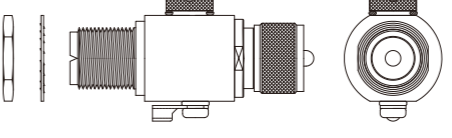
TNC Plug to Plug

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


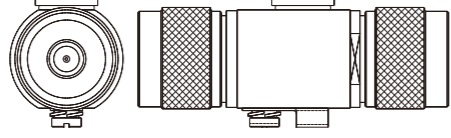
N Jack to B/H Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table


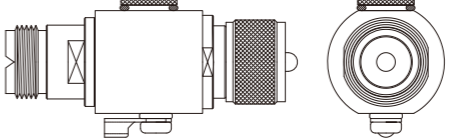
UHF Plug to Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table

N Plug to Plug


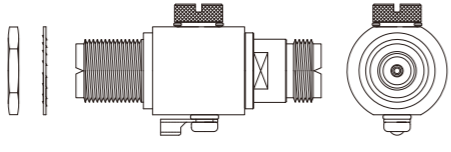
		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table

UHF Plug to Jack


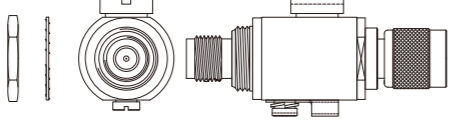
		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table




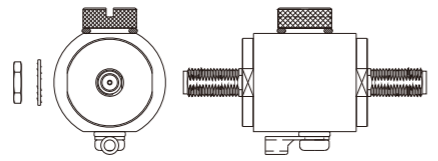
UHF S/T Jack to Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table

TNC S/T Plug to Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table

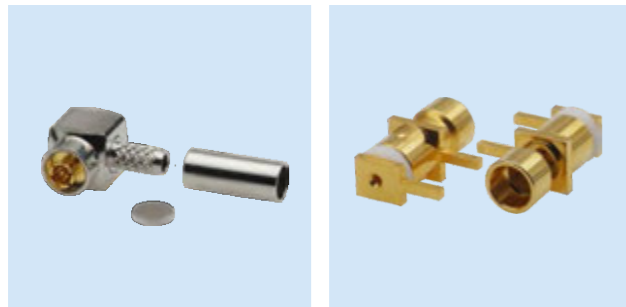
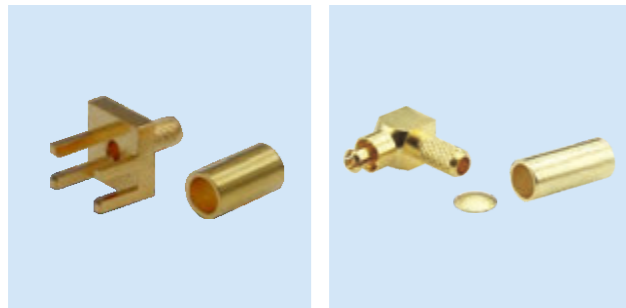
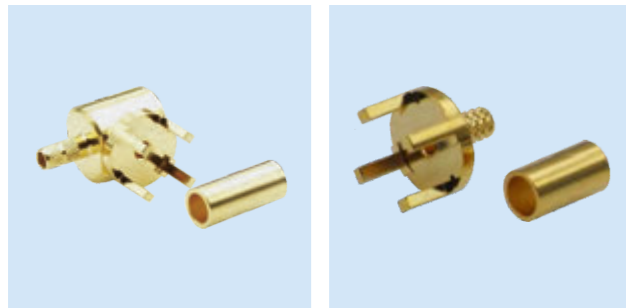
SMA B/H Jack to Jack

		Hand Tool	Nil
		Cable	Nil
		Electrical Specification	See Electrical Specification Table

Other Series


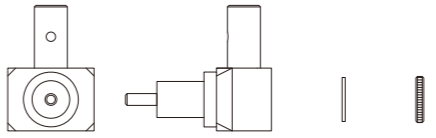


Specification Special Connector & Terminal


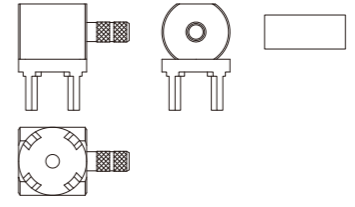


Terminal for Flexible Cable


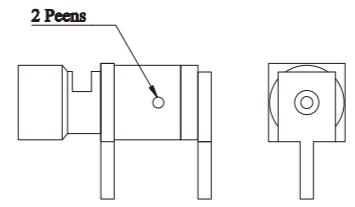
R/A PCB Mount , Terminal

 O001		Hand Tool	See Appendix B
		Cable	1.32, RG178/U and more....
		Cable Assembly Instruction	See Appendix A Code C


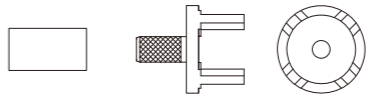
R/A PCB Mount, Terminal

 TE901		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A


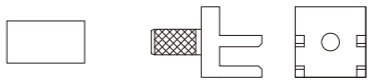
R/A PCB Mount, Terminal

 TE902		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A

S/T PCB Mount, Terminal

 TE911		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A


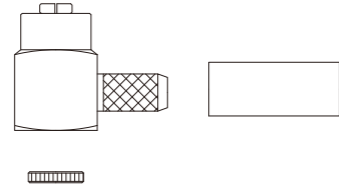
End Launch PCB Mount, Terminal

 TE912		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A


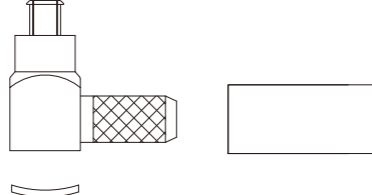


Crimp Type (for Flexible Cable)

ALProx R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

MC-Card R/A Plug, Crimp Type

		Hand Tool	See Appendix B
		Cable	RG174/U, 316/U and more....
		Cable Assembly Instruction	See Appendix A Code C

Cross Reference Index for In-Line Series

Description

To provide customers with a solution to bridge different type of RF coaxial connector, a broad array of adapter are off-the-shelf to meet end-user's expectations.

For customized adapters, send your drawing, samples or a full description, our engineers will design it from the ground.

Contact S-Conn to get a full drawing for information.

- ST: Straight
- R/A: Right Angle
- B/H: Bulkhead
- P2: Panel Mount-2 Hole
- P4: Panel Mount-4 Hole
- U: U Link
- -O: With O-ring
- -E: Epoxy Type
- -P: Plastic Thread
- -I: Isolated Type
- -T: Terminator
- -Q: Quick



SMA

Plug	Type	P/N
SMA(M)	ST	AT014
	E	AT014H1
	R/A	AT412
SMA(F)	ST	AT006
	R/A	AT401
BNC (M)	ST	AT021
BNC (F)	ST	AT015
Mini UHF(M)	ST	AT022
Mini UHF(F)	ST	AT023
N (M)	ST	AT010
N (F)	ST	AT020
TNC(M)	ST	AT000
TNC(F)	ST	AT024
UHF(M)	ST	AT025
UHF(F)	ST	AT012
SMB(F)	ST	AT039
Ipex(F)	ST	AT030
MMCX(M)	ST	AT050
SMB(M)	ST	AT040
FME(M)	ST	AT005
	R/A	AT404
FME(F)	ST	AT036
MMCX(F)	ST	AT049
F(F)	ST	AT051

Jack

	Type	P/N
SMA(F)	B/H	AT008
	P4	AT034
	P2	AT035
	B/H-O	AT002
	ST	AT011
BNC(M)	ST	AT019
BNC(F)	ST	AT016
Mini UHF(M)	ST	AT026
Mini UHF(F)	ST	AT027
N(M)	ST	AT017
N(F)	ST	AT018
	B/H-O	AT009
	B/H-OE	AT009H1
TNC(M)	ST	AT001
TNC(F)	ST	AT028

Jack

	Type	P/N
UHF(M)	ST	AT029
UHF(F)	ST	AT013
MMCX(F)	ST	AT031
SMB(M)	ST	AT041
SMB(F)	ST	AT042
FME(F)	ST	AT043
1.0/2.3 (F)	ST	AT044
MCX(F)	ST	AT003
MCX(M)	ST	AT007
SMP(M)	ST-E	AT048
SMP(F)	ST	AT054
SMC(M)	ST	AT052
MMCX(M)	R/A	AT407

RP Plug

	Type	P/N
SMA(M)	ST	AT088
SMA(F)	ST	AT098
RP SMA(M)	ST	AT087
N(M)	ST	AT085
N(F)	ST	AT095
RP TNC(F)	ST	AT093
BNC (F)	ST	AT082

RP Jack

	Type	P/N
SMA(M)	ST	AT094
SMA(F)	ST	AT092
MCX(F)	ST	AT091
TNC(M)	ST	AT089
RP SMA(F)	ST	AT086
N(M)	ST	AT084
N(F)	ST	AT099
RP TNC(F)	ST	AT096
BNC(F)	ST	AT097
RP MMCX(F)	ST	AT080

BNC

Plug	Type	P/N
BNC(M)	ST	AT116
BNC(F)	ST	AT119
	R/A	AT463
SMB(M)	ST	AT152
PAL(M)	ST	AT123
N(M)	ST	AT110
N (F)	ST	AT109
F (F)	ST	AT105
F (M)	ST	AT129
RCA(M)	ST	AT108
RCA(F)	ST	AT107
TNC (M)	ST	AT130
TNC (F)	ST	AT132
UHF(M)	ST	AT133
UHF(F)	ST	AT111
	R/A	AT411
Mini UHF(F)	ST	AT141
FME(M)	ST	AT138
	R/A	AT400
FME(F)	ST	AT145
1.6/5.6(F)	ST	AT114
Jack	Type	P/N
BNC(F)	ST	AT104
	B/H	AT115W0
	B/H-O	AT115W1
	B/H-P	AT100
	P4	AT134
	B/H-I	AT146
F(M)	ST-Q	AT113
	ST	AT102
PAL(M)	ST	AT124
PAL(F)	ST	AT118
RCA(M)	ST	AT125
RCA(F)	ST	AT126
	B/H	AT127
N(F)	ST	AT128
3.5 Mono(M)	ST	AT135
2.5 Mono(M)	ST	AT106
TNC(F)	ST	AT136
	R/A	AT461
UHF(F)	ST	AT137
	R/A	AT411

Jack	Type	P/N
F(F)	ST	AT103
	R/A	AT422
N(M)	ST	AT112
SMB(F)	ST	AT131
SMB(M)	ST	AT139
TNC (M)	ST	AT121
UHF(M)	ST	AT140
Mini UHF(M)	ST	AT101
	R/A	AT441
FME(M)	ST	AT142
FME(F)	ST	AT144
1.6/5.6(F)	ST	AT122
RP Jack	Type	P/N
SMA(M)	ST	AT199

N

Plug	Type	P/N
N(M)	ST	AT202
	R/A	AT415
N(F)	ST	AT207
	R/A	AT416
RCA (F)	ST	AT214
TNC (M)	ST	AT209
TNC (F)	ST	AT204
UHF(M)	ST	AT211
UHF(F)	ST	AT212
	R/A	AT421
F (F)	ST	AT203
SMB(F)	ST	AT218
F(M)	ST	AT219
Mini UHF(F)	ST	AT222
FME(M)	ST	AT223
Jack	Type	P/N
N(F)	ST	AT201
	B/H	AT200
	B/H-O	AT208
	R/A	AT417
TNC(F)	ST	AT210
UHF(F)	ST	AT213
UHF(M)	ST	AT215
	R/A	AT432
SMB(F)	ST	AT217
F(M)	ST	AT205
F(F)	ST	AT220
TNC(M)	ST	AT206
Mini UHF(M)	ST	AT221
RP Plug	Type	P/N
N(F)	ST	AT297
SMA(F)	ST	AT299
RP Jack	Type	P/N
SMA(F)	ST	AT298

MCX

Plug	Type	P/N
PAL(M)	ST	AT381
F(M)	ST	AT350
FME(M)	ST	AT351

SMB

Plug	Type	P/N
SMB(F)	ST	AT700
SMB(M)	ST	AT702
TNC(F)	ST	AT701
FME(M)	ST	AT704
Jack	Type	P/N
SMB(F)	B/H	AT703

DIN 7/16

Plug	Type	P/N
DIN 7/16(M)	ST	AT750
N(F)	ST	AT751
N(M)	ST	AT753
Jack	Type	P/N
DIN 7/16(F)	ST	AT752
N(M)	ST	AT755
N(F)	ST	AT754

1.6/5.6

Plug	Type	P/N
1.6/5.6(M)	ST	AT801
	U	AT802
Jack	Type	P/N
1.6/5.6(F)	ST	AT800

F

Plug	Type	P/N
F(M)	ST	AT903
	ST-Q	AT913
	ST-Q	AT925
F(F)	ST-Q	AT905
	ST-Q	AT911
	B/H	AT926
PAL (M)	ST-Q	AT923
	ST	AT920
PAL(F)	ST-Q	AT906
	ST	AT921
RCA (F)	ST-Q	AT917
	ST	AT901
TNC(F)	ST	AT912
UHF(M)	ST	AT909
UHF(F)	ST	AT910
TNC(M)	ST	AT914
RCA(M)	ST	AT927
3.5Mono(M)	ST	AT930

Jack	Type	P/N
F(F)	B/H	AT900
	ST	AT902
UHF(M)	ST	AT907
TNC(M)	ST	AT915
RCA(M)	ST	AT904
UHF(F)	ST	AT908
PAL(F)	ST	AT922
	B/H	AT918
3.5Mono(M)	ST	AT924
TNC(F)	ST	AT916
PAL(M)	ST	AT928

RCA

Plug	Type	P/N
RCA(F)	ST	AT954
UHF(F)	ST	AT953
PAL(F)	ST	AT951
PALo(M)	ST	AT956
TNC(F)	ST	AT957
TNC(M)	ST	AT958

Jack	Type	P/N
RCA(F)	B/H	AT950
	ST	AT952

Jack	Type	P/N
3.5Mono(M)	ST	AT955
TNC(F)	ST	AT959
UHF(M)	ST	AT960
PAL(F)	B/H	AT961
	ST	AT963
PAL(M)	ST	AT962

TNC

Plug	Type	P/N
TNC(M)	ST	ATA04
TNC(F)	ST	ATA06
	ST-Q	ATA07
	R/A	AT403
UHF(F)	ST	ATA01
UHF(M)	ST	ATA05
Mini UHF(F)	ST	ATA13
FME(M)	ST	ATA00
	R/A	AT402
FME(F)	ST	ATA16

Jack	Type	P/N
TNC(F)	ST	ATA09
	B/H	ATA10
	P4	ATA11
UHF(F)	ST	ATA03
NEC(M)	ST	ATA08
UHF(M)	ST	ATA02
Mini UHF(M)	ST	ATA12
	R/A	AT442
FME(M)	ST	ATA14

RP Plug	Type	P/N
SMA(F)	ST	ATA48
N(F)	ST	ATA47
N(M)	ST	ATA46
SMA(M)	ST	ATA45
RP TNC(M)	ST	ATA44

RP Jack	Type	P/N
SMA(M)	ST	ATA49
N(M)	ST	ATA41
SMA(F))	ST	ATA43

UHF

Plug	Type	P/N
UHF(M)	ST	ATA51
UHF(F)	ST	ATA56
	ST-Q	ATA59
	R/A	AT409
Mini UHF (F)	ST	ATA53
FME (M)	ST	ATA52
	R/A	AT413

Jack	Type	P/N
UHF(F)	ST	ATA54
	B/H	ATA55
3.5Mono(M)	ST	ATA58
Mini UHF(M)	ST	ATA50

Mini UHF

Plug	Type	P/N
Mini UHF(M)	ST	ATB00
Mini UHF(F)	R/A	AT443
FME(M)	ST	ATB02
FME(F)	ST	ATB03

Jack	Type	P/N
Mini UHF(F)	ST	ATB01
FME(F)	ST	ATB14
FME(M)	ST	ATB05

FME

Plug	Type	P/N
FME(M)	ST	ATB50
MMCX(M)	ST	AT300

Jack	Type	P/N
FME(F)	ST	ATB51

PAL

Plug	Type	P/N
PAL(F)	ST	ATC01
9.0(F)	ST	ATC04

Jack	Type	P/N
PAL(F)	B/H	ATC00
	ST	ATC02
9.0(M)	ST	ATC03

SMP

Jack	Type	P/N
SMP(F)	ST	ATD00

K(2.92)

Plug	Type	P/N
K(2.92)(M)	ST	ATK00
K(2.92)(F)	ST	ATK01
2.4(M)	ST	ATK03
2.4(F)	ST	ATK04

Jack	Type	P/N
K(2.92)(F)	ST	ATK02
2.4(M)	ST	ATK05
2.4(F)	ST	ATK06

5 SERIES(T, Y, F Type)

P/N#	Specification
AT501	1.6/5.6 Plug-Jack-Plug "Y"
AT502	1.6/5.6 Jack-Plug-Jack "Y"
AT508	F Jack-Jack-Jack "T"
AT509	F Jack-Quick Plug-Jack "T"
AT510	UHF Jack-Plug-Jack "T"
AT511	UHF Jack-Jack-Jack "T"
AT518	N Jack-Plug-Jack "T"
AT519	N Jack-Jack-Jack "T"
AT520	N Plug-Plug-Jack "T"
AT521	N Plug-Jack-Jack "T"
AT522	N Jack-BNC Plug-N Jack "T"
AT529	SMA Jack-Plug-Jack "T"
AT530	SMA Jack-Jack-Jack "T"
AT531	TNC Plug-Plug-Plug "T"
AT537	TNC Jack-Jack-Jack "T"
AT538	TNC Jack-Plug-Jack "T"
AT541	PAL Jack-Plug-Jack "T"
AT542	BNC Jack-TNC Plug-BNC Jack "T"
AT561	BNC Jack-Plug-Jack "T"
AT562	BNC Plug-Plug-Plug "T"
AT563	BNC Plug-Jack-Plug "T"
AT564	BNC Jack-Jack-Jack "T"
AT565	BNC Plug-Jack-Jack "T"
AT567	Mini UHF Jack-Plug-Jack "T"
AT571	Mini UHF Jack-Jack-Jack "T"
AT572	BNC R/A Jack-Plug-Jack "Y"
AT573	BNC Jack-Plug-Jack "Y"
AT574	BNC Plug-Jack-Jack "F"

6 SERIES(Cross Type)

P/N#	Specification
AT666	BNC Four Jack
AT667	BNC Three Jack to One Plug
AT668	BNC Double Plug to Double Jack

Triax

Jack	Type	P/N
Triax(F)	B/H	ATS01

**Ultra Tiny BNC
(Fully Compatible with HD BNC & Micro BNC)**

Jack	Type	P/N
Ultra Tiny BNC(F)	B/H-I	ATH00

Cable Assembly



Cable Assembly

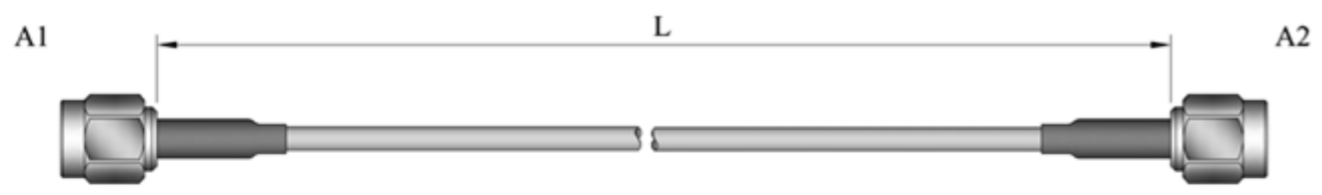
To provide excellent performance for signal transmission, a broad array of cable assembly machines are added to meet any customized demand for any cable assemblies. Standard RG8/U, 58C/U, 59B/U, 174/U, 316/U and many other specific cable are available within the appropriate connector series, as well as custom design assistance for cellular, mobile and network communications.

Specification for RF cable Processes

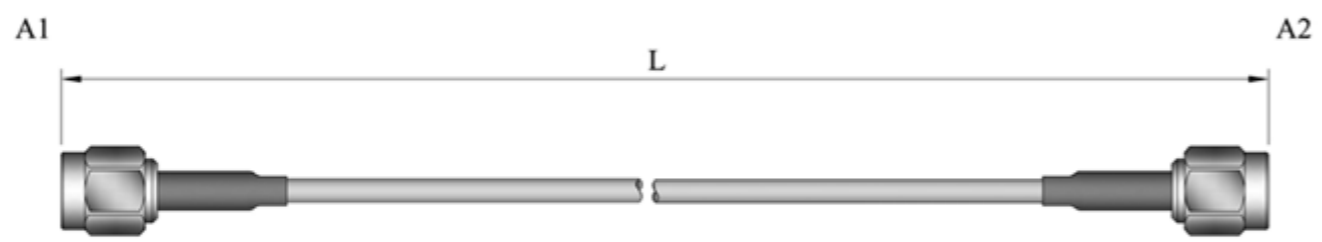
A: Select cable type (See next page)

B: Decide Length

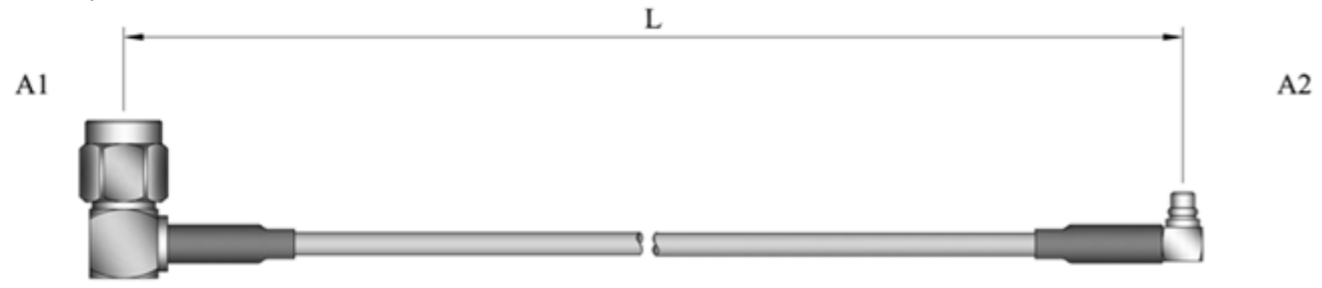
(a) Excluded connector



(b) Included connector



(c) Pin to pin



C: Select the type on each end:

(a) Connector _____



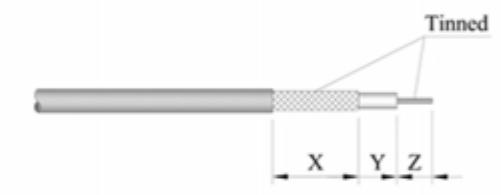
(b) Bare end _____



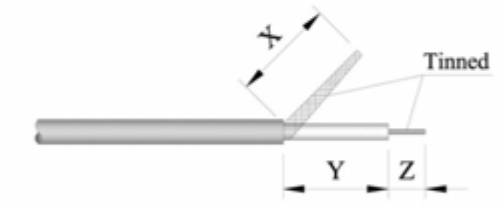
(c) Stripper _____



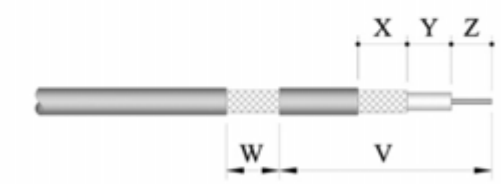
(d) Stripper with tin _____



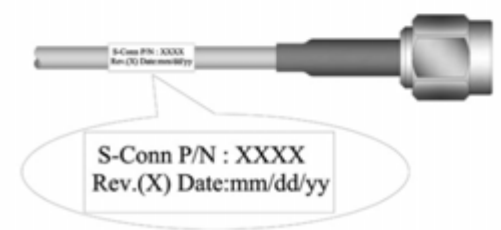
(e) Combing the braided with tin _____



(f) Open window _____



(g) With Marking tube _____



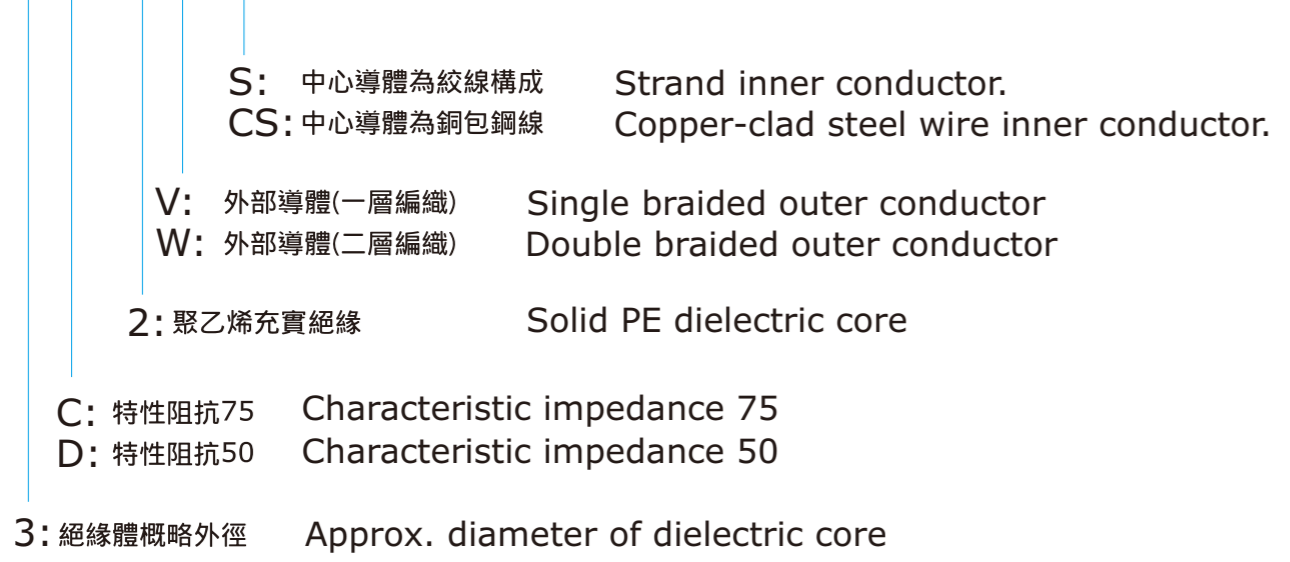
D: Other request: please contact our sales.

Length (mm)	100-500	>500-1,000	>1,000-1,500	>1,500-2,500	>2,500-4,000	>4,000-6,000	>6,000-8,000	>8,000-10,000	>10,000-20,000	>20,000-50,000
Tolerances	+5 -0	+10 -0	+15 -0	+25 -0	+40 -0	+60 -0	+100 -0	+300 -0	+600 -0	+1000 -0

Coaxial Cable

1. 高週波同軸電纜 Radio frequency coaxial cable

3 C - 2 V C S



Type Designation

2. RG型電纜 RG type coaxial cable

R G - 8/U

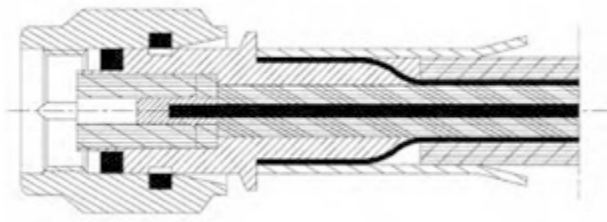


Coaxial Cable Table

CABLE TYPE	INNER CONDUCTOR		DIELECTRIC CORE		JACKET		IMPEDANCE	
	NO./MM DETAILS	DIAMETER		INCH	M/M	INCH		M/M
		INCH	M/M					
0.81	7/0.05	.0059	.15	.016	.41	.032	1	50
1.13	7/0.08	.0094	.24	.027	.68	.044	1.13	50
1.32	7/0.08	.0094	.24	.027	.68	.052	1.32	50
1.32D	7/0.08	.0094	.24	.027	.68	.052	1.32	50
1.37	7/0.102	.0122	.31	.036	.92	.054	1.37	50
1.37-75	7/0.064	.0079	.20	.039	.98	.054	1.37	75
1.5C-2V	1/0.26	.0100	.26	.063	1.60	.144	2.90	75
1.5D-2V	7/0.18	.0213	.54	.065	1.60	.120	2.90	50
2.5C-2V	1/0.4	.0157	.40	.094	2.40	.157	4.00	75
2.5D-2V	1/0.8	.0315	.80	.106	2.70	.169	4.30	50
3C-2V	1/0.5	.0190	.50	.122	3.10	.212	5.40	75
3D-2V	7/0.32	.0190	.96	.122	3.00	.212	5.30	75
5C-2V	1/0.8	.0310	.80	.193	4.90	.291	7.40	75
5D-2V	1/1.4	.0310	1.40	.193	4.80	.291	7.30	75
7C-2V	7/0.4	.0470	1.20	.287	7.30	.409	10.40	75
8D-2V	7/0.8	.0945	2.40	.307	7.80	.437	11.10	50
10C-2V	7/0.5	.0590	1.50	.370	9.40	.512	13.00	75
10D-2V	1/2.9	.0590	2.90	.370	9.70	.512	13.10	75
RG-142/U	1/0.939	.0370	.95	.116	2.95	.195	4.95	50
RG-174/U	7/0.16	.0190	.48	.060	1.52	.101	2.57	50
RG-178B/U	7/0.1	.0120	.30	.033	.84	.070	1.78	50
RG-179/U	7/0.102	.0040	.10	.062	1.58	.100	2.54	75
RG-188A/U	7/0.18	.0210	.53	.059	1.50	.102	2.59	50
RG-196/U	7/0.102	.0122	.31	.033	.84	.071	1.80	50
RG-213/U	7/0.752	.0890	2.26	.285	7.24	.405	10.29	50
RG-214/U	7/0.752	.0890	2.26	.285	7.24	.425	10.80	50
RG-223/U	1/0.89	.0350	.89	.116	2.95	.209	5.30	50
RG-316/U	7/0.17	.0067	.17	.060	1.52	.098	2.49	50
RG-316D	7/0.17	.0067	.17	.060	1.52	.114	2.90	50
RG-393	7/0.79	.0941	2.39	.285	7.24	.390	9.91	50
RG-400	19/0.203	.0384	.98	.116	2.95	.195	4.95	50
RG-402	1/0.92	.0362	.92	.118	2.99	.163	4.14	50
RG-405	1/0.51	.0201	.51	.064	1.63	.104	2.64	50
RG-6/U	1/0.93	.0370	.93	.180	4.57	.275	6.99	75
RG-8/U	7/0.724	.1080	2.74	.285	7.24	.405	10.29	50
RG-8/X	19x29	.0560	1.42	.155	3.94	.242	6.15	50
RG-58/U	1/0.813	.0320	.813	.116	2.95	.195	4.95	50
RG-58A/U	19/0.18	.0370	.94	.116	2.95	.195	4.95	50
RG-58C/U	19/0.18	.0370	.94	.116	2.95	.195	4.95	50
RG-58LOW LOSS	7/0.32	.0320	.813	.110	2.8	.195	4.95	50
RG-59/U	1/0.635	.0250	.635	.146	3.71	.242	6.15	73
RG-59/U-20AWG	1/0.813	.0320	.813	.146	3.71	.241	6.12	75
BELDEN 734A	1/0.81	.0320	.81	.148	3.76	.235	5.97	75
BELDEN 735A	1/0.41	.0159	.41	.077	1.96	.129	3.28	75
BELDEN 1505A	1/0.81	.0320	.81	.145	3.68	.233	5.92	75
BELDEN 1694A	1/1.02	.0400	1.02	.180	4.57	.274	6.96	75
BELDEN 1855A	1/0.58	.0227	.58	.102	2.59	.159	4.04	75
BELDEN 1865A	1/0.53	.0210	.53	.094	2.39	.150	3.81	75
BELDEN 8281	1/0.79	.0310	.79	.198	5.03	.305	7.75	75
BELDEN 9913	1/2.74	.1080	2.74	.286	7.26	.405	10.29	50
BELDEN H155	1/1.15	.0453	1.15	.154	3.90	.213	5.40	50
BELDEN H1000	1/2.62	.1031	2.62	.281	7.15	.406	10.30	50
LMR 100A	1/0.46	.1080	.46	.060	1.52	.110	2.79	50
LMR 195	1/0.94	.0370	.94	.110	2.79	.195	4.95	50
LMR 200	1/1.12	.0440	1.12	.116	2.95	.195	4.95	50
LMR 240	1/1.42	.0560	1.42	.150	3.81	.240	6.10	50
LMR 300	1/1.78	.0700	1.78	.190	4.83	.300	7.62	50
LMR 400	1/2.74	.1080	2.74	.285	7.24	.405	10.29	50
LMR 500	1/3.61	.1420	3.61	.370	9.40	.500	12.70	50
LMR 600	1/4.47	.1760	4.47	.445	11.56	.590	14.99	50

Cable Entry type

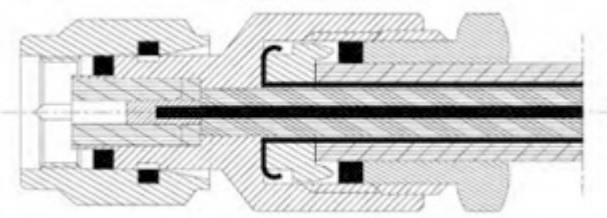
Crimp Type



Soldered or Crimped Inner Contacts

The Inner Contact is soldered or crimped, the cable braid is crimped to the connector body. Captivated or loose Inner Contact is seated inside insulator. The crimping technique enables economic assembling of high reliability.

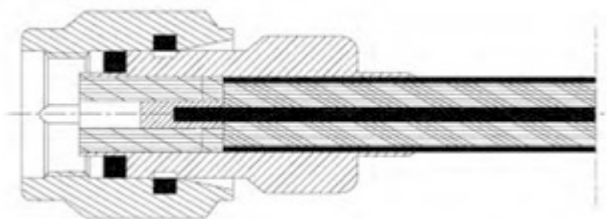
Clamp Type



Soldered Inner Contact

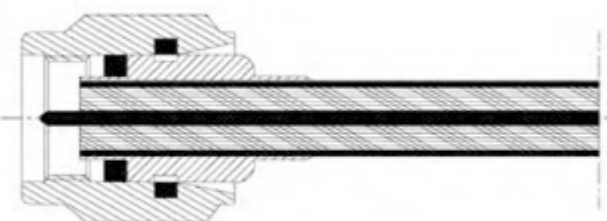
Clamp type cable entry is recommended for weather-exposed applications. The cable jacket is secured by a rubber gasket and the cable screen by an axially tightened pressing ring.

Semi-Rigid Cable Entry



Soldered, with Inner Contact and insulator

Inner Contact and body of the connector are soldered onto the inner and outer conductor of the cable.

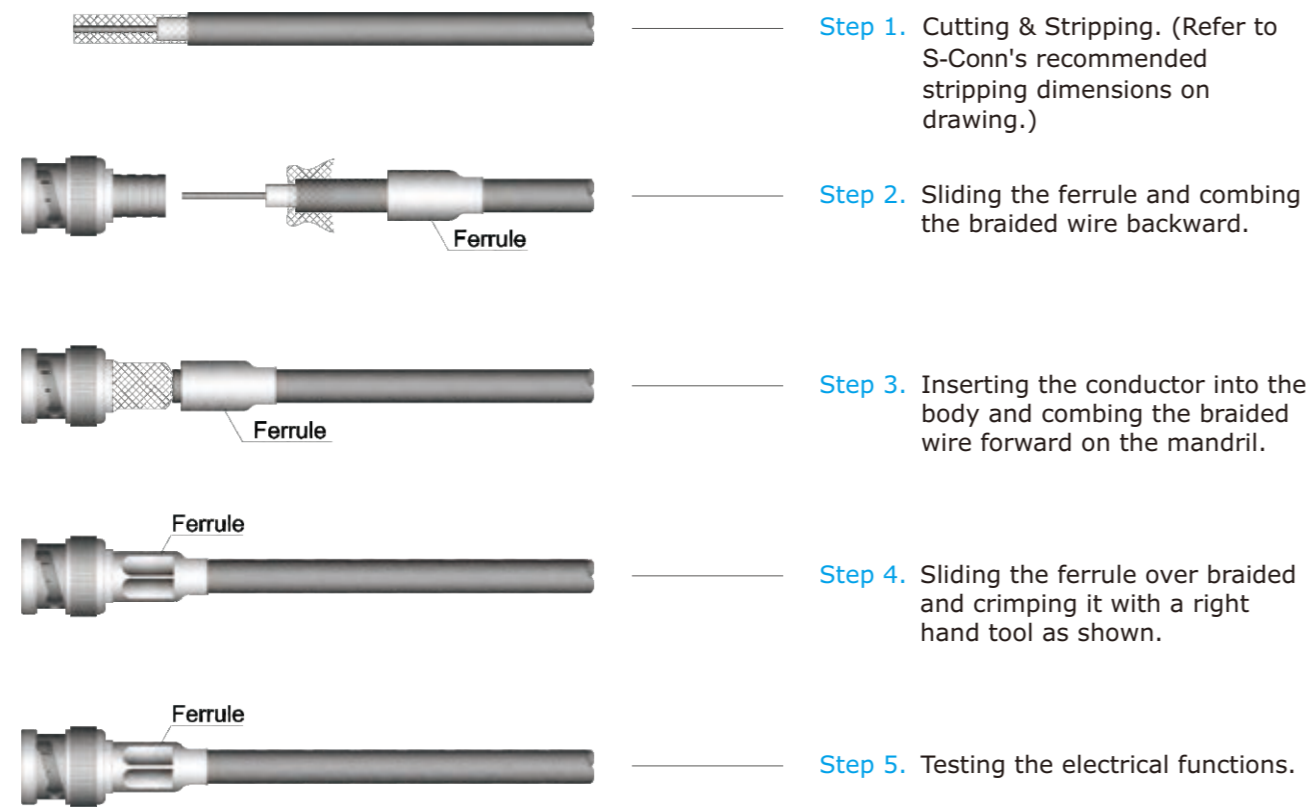


Soldered, without Inner Contact and insulator

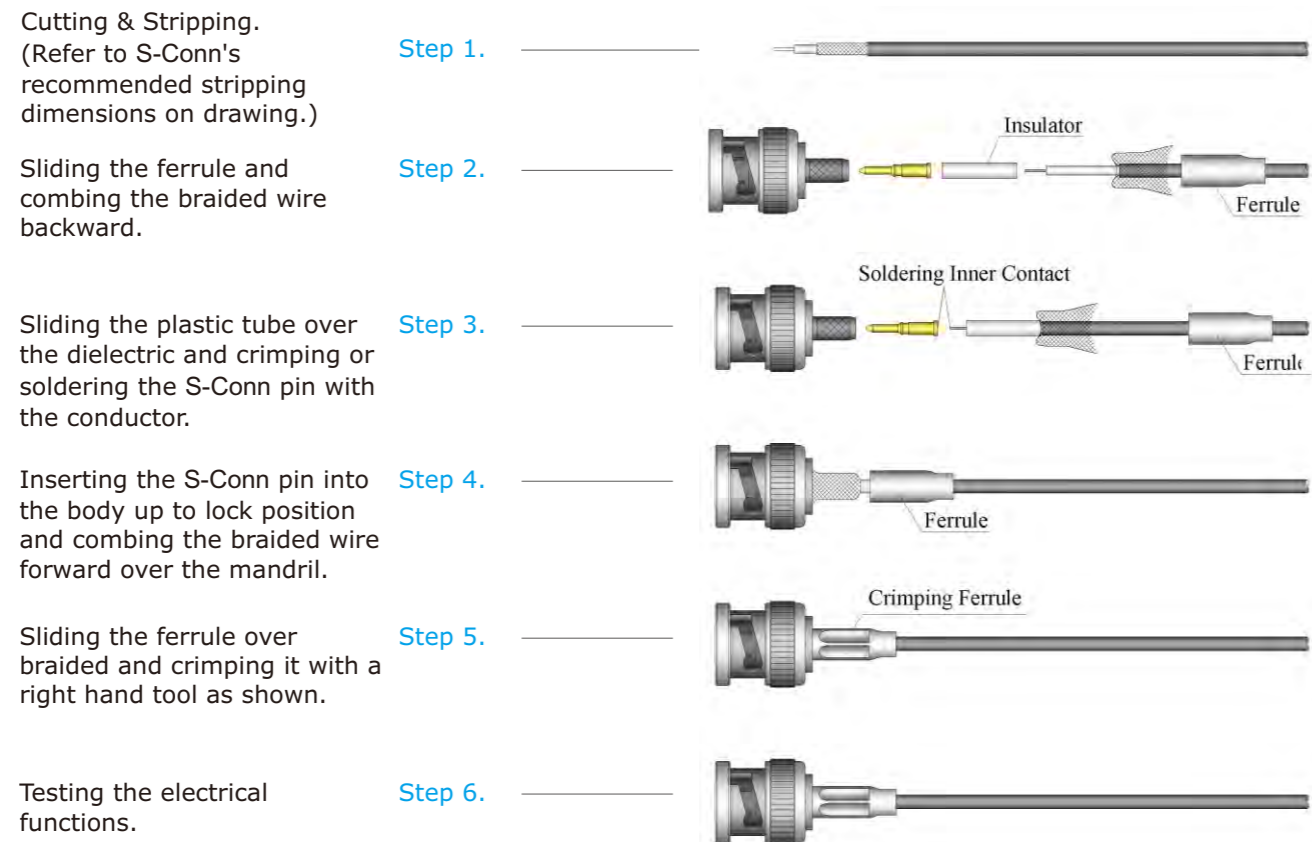
Inner Contact and insulator are formed direct by the cable. The body is soldered to the copper jacket. This design features a very low reflection coefficient, low cost and ease of assembly.

Appendix A

Guide Cable Assembly Instruction A

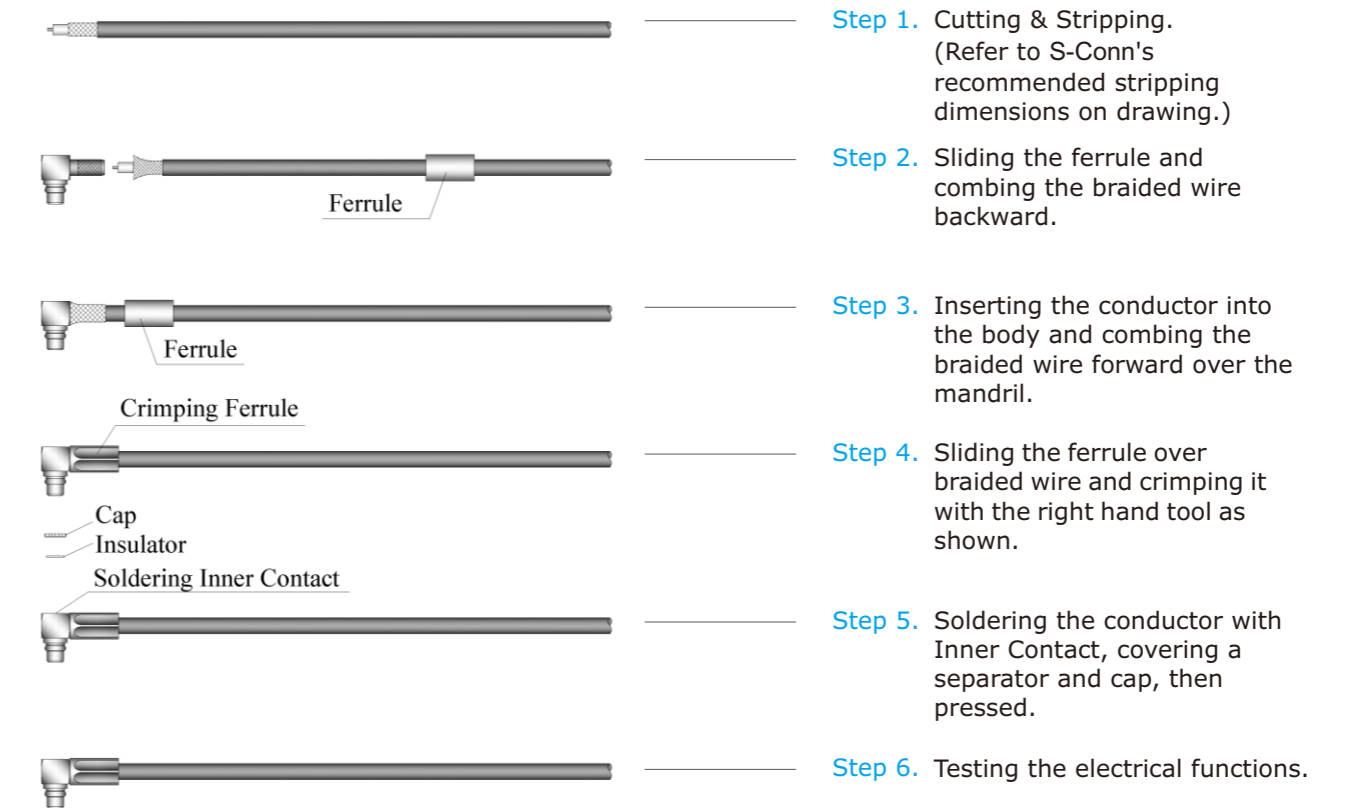


Guide Cable Assembly Instruction B

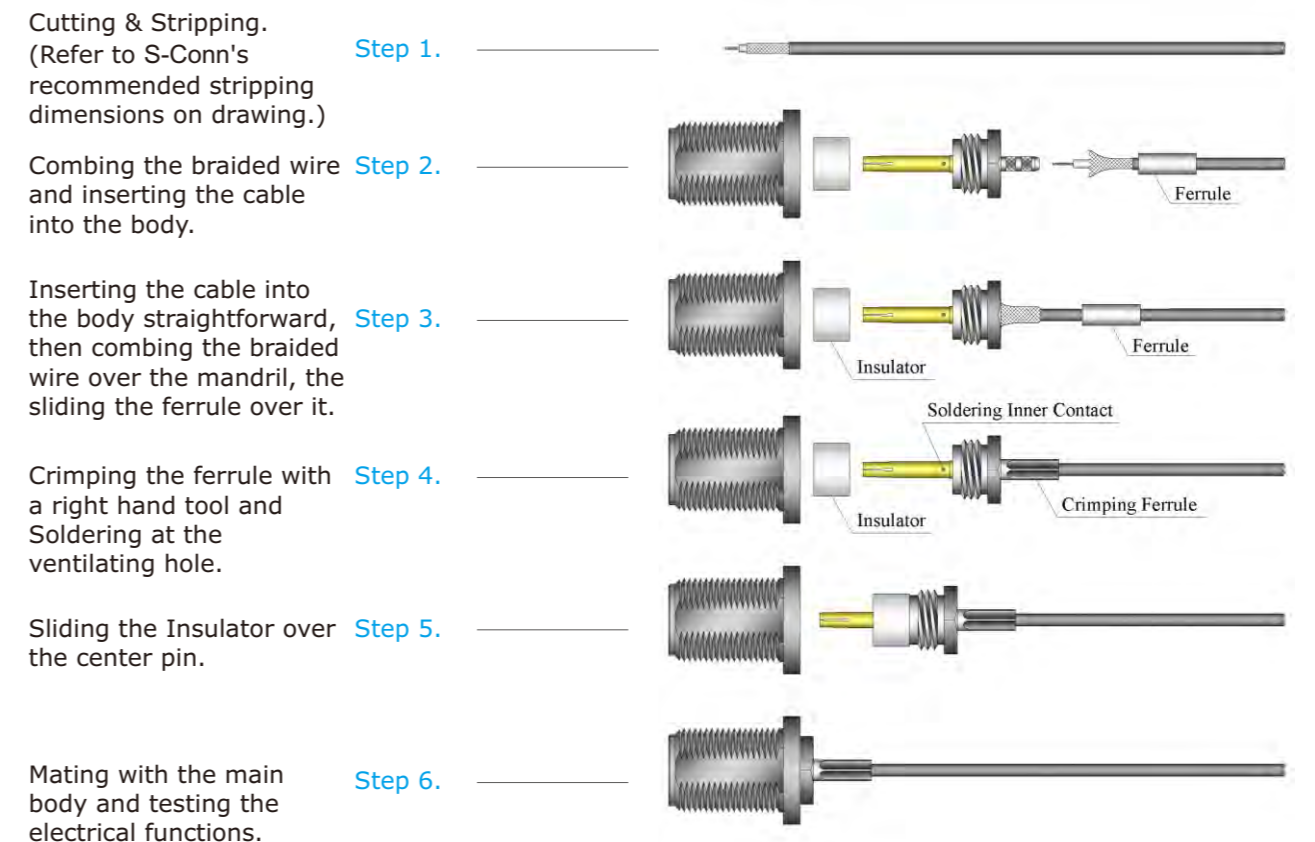


Appendix A

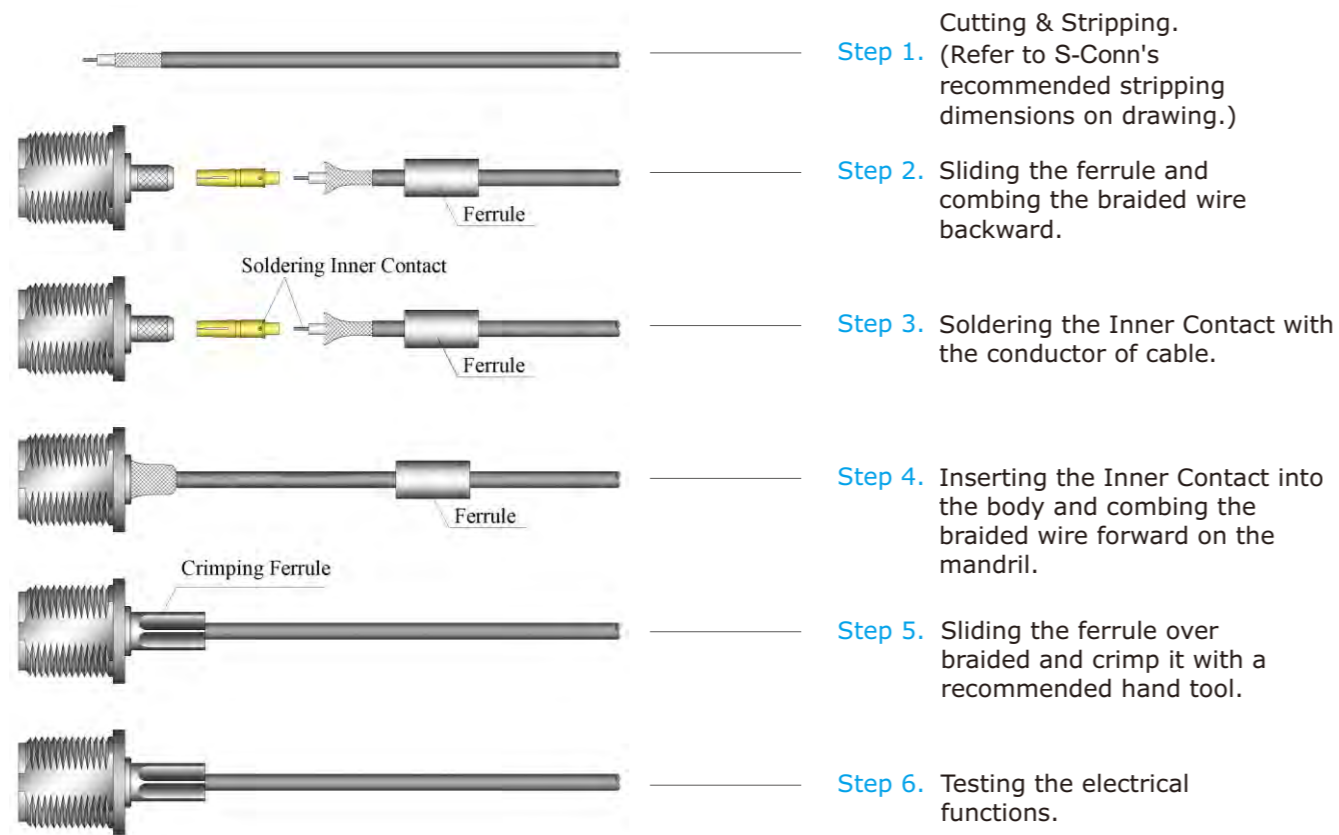
Guide Cable Assembly Instruction C



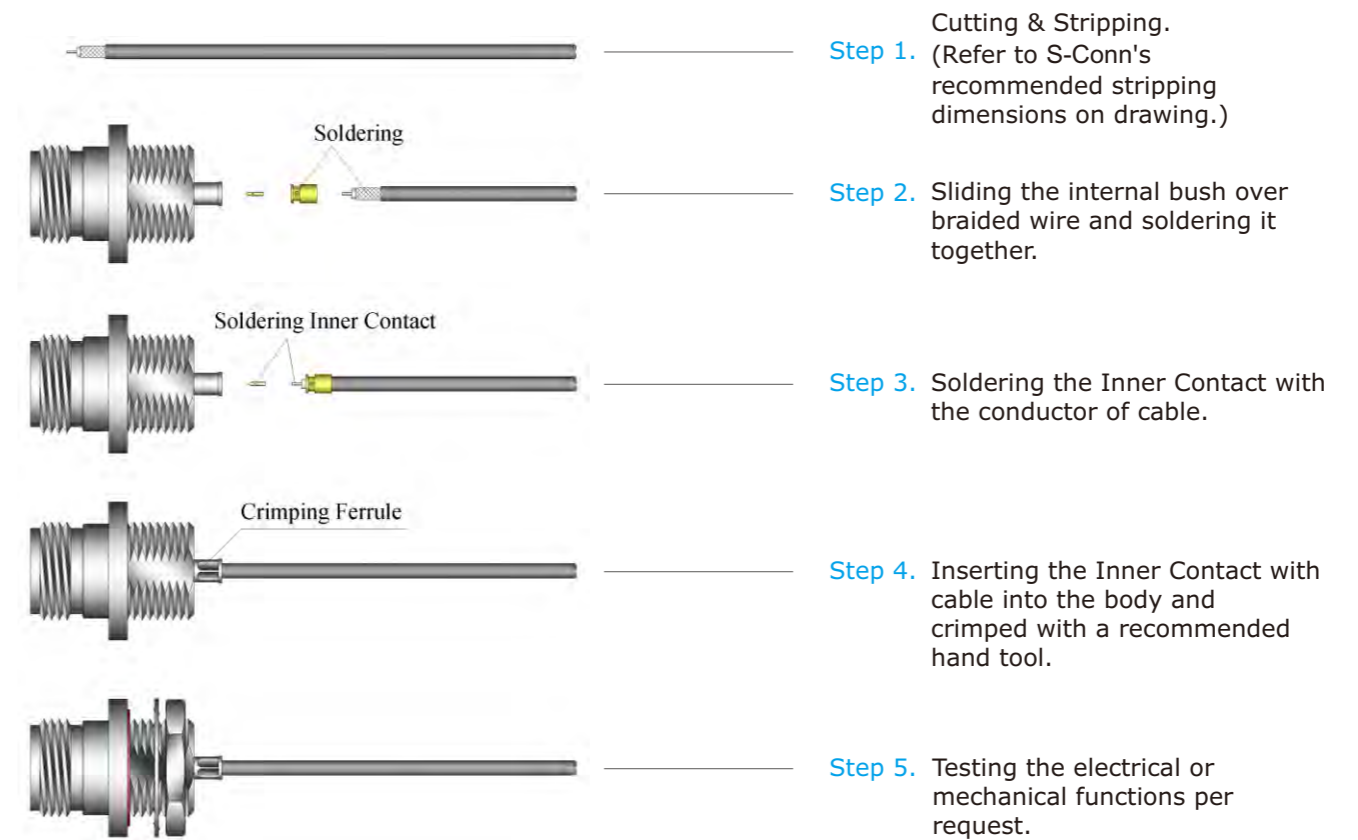
Guide Cable Assembly Instruction D



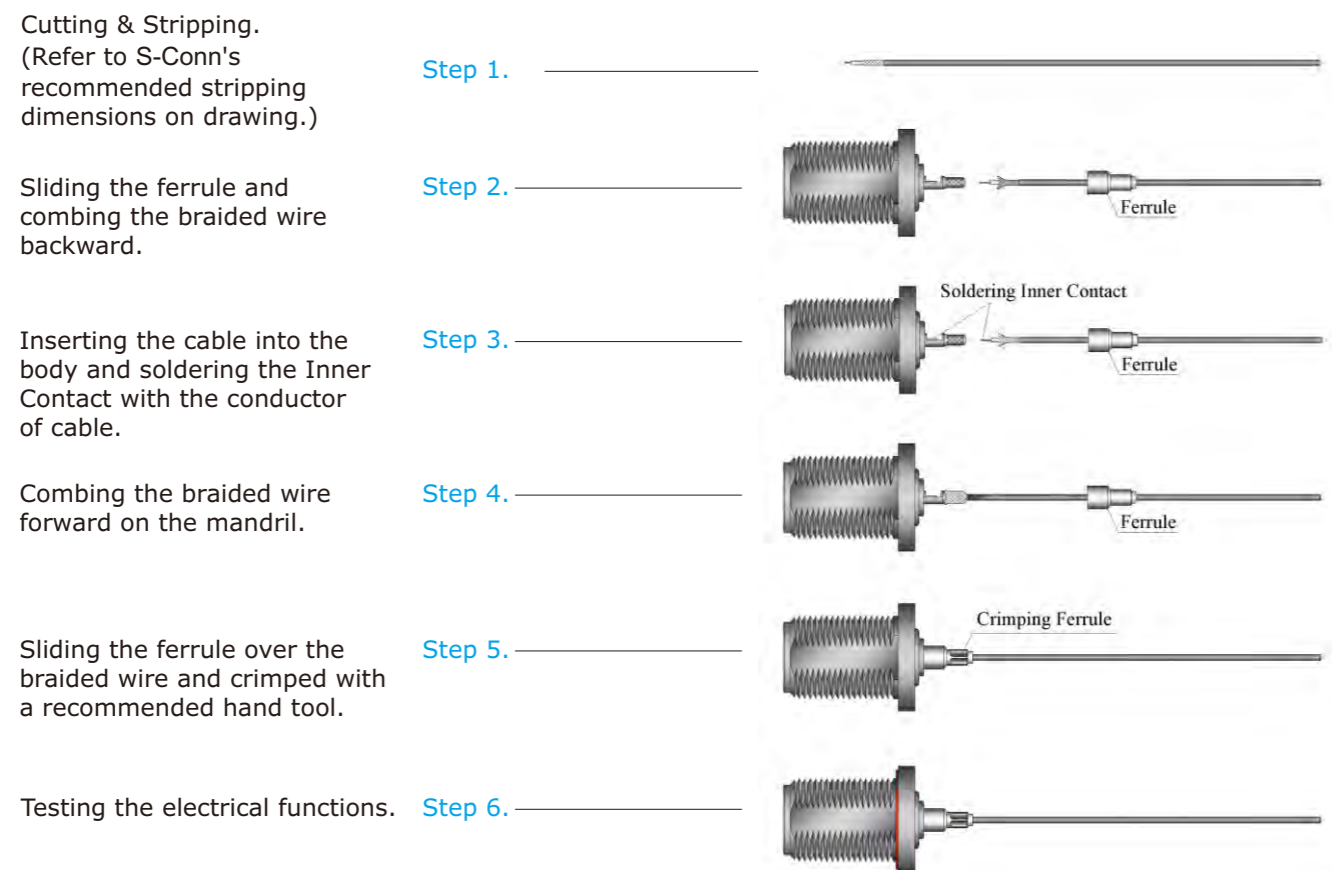
Guide Cable Assembly Instruction E



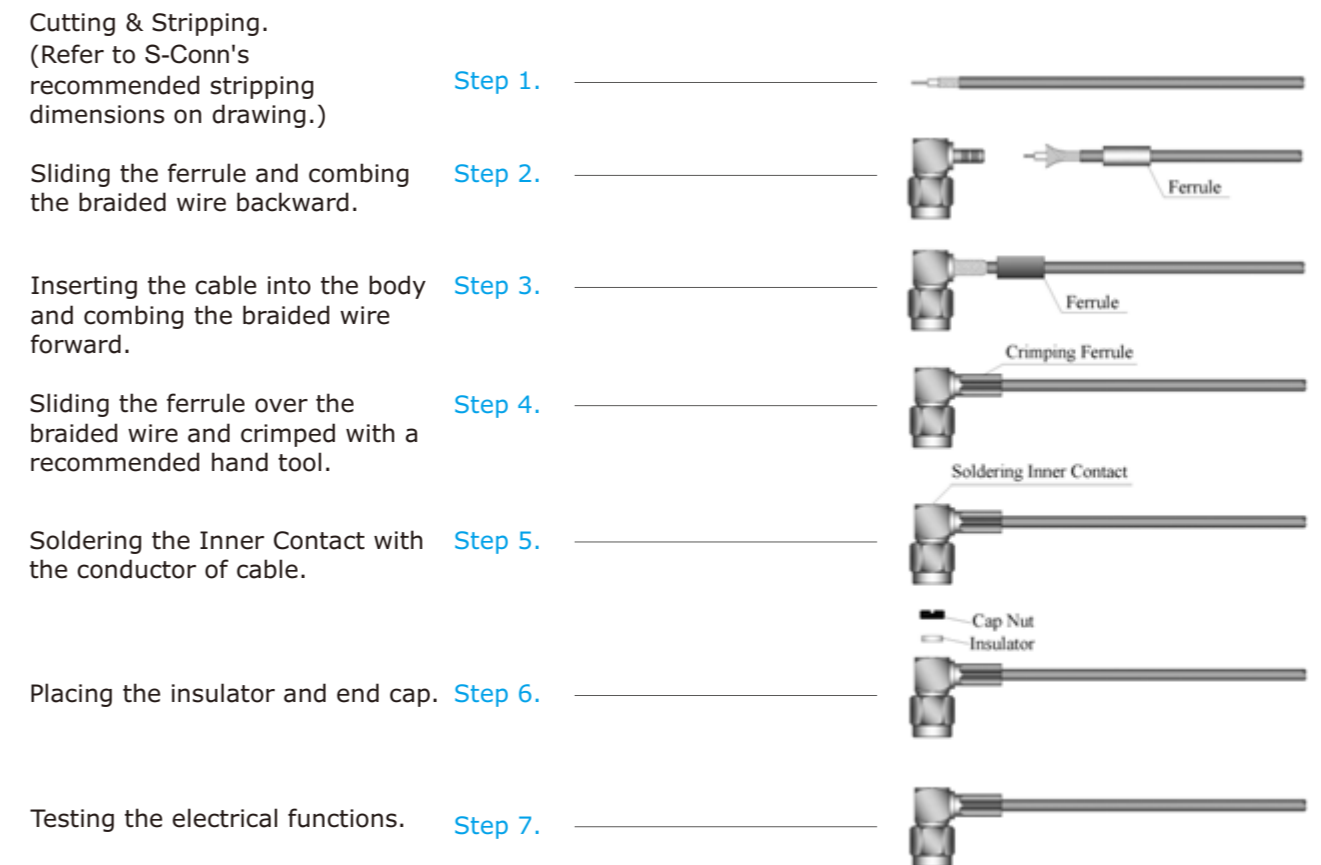
Guide Cable Assembly Instruction G



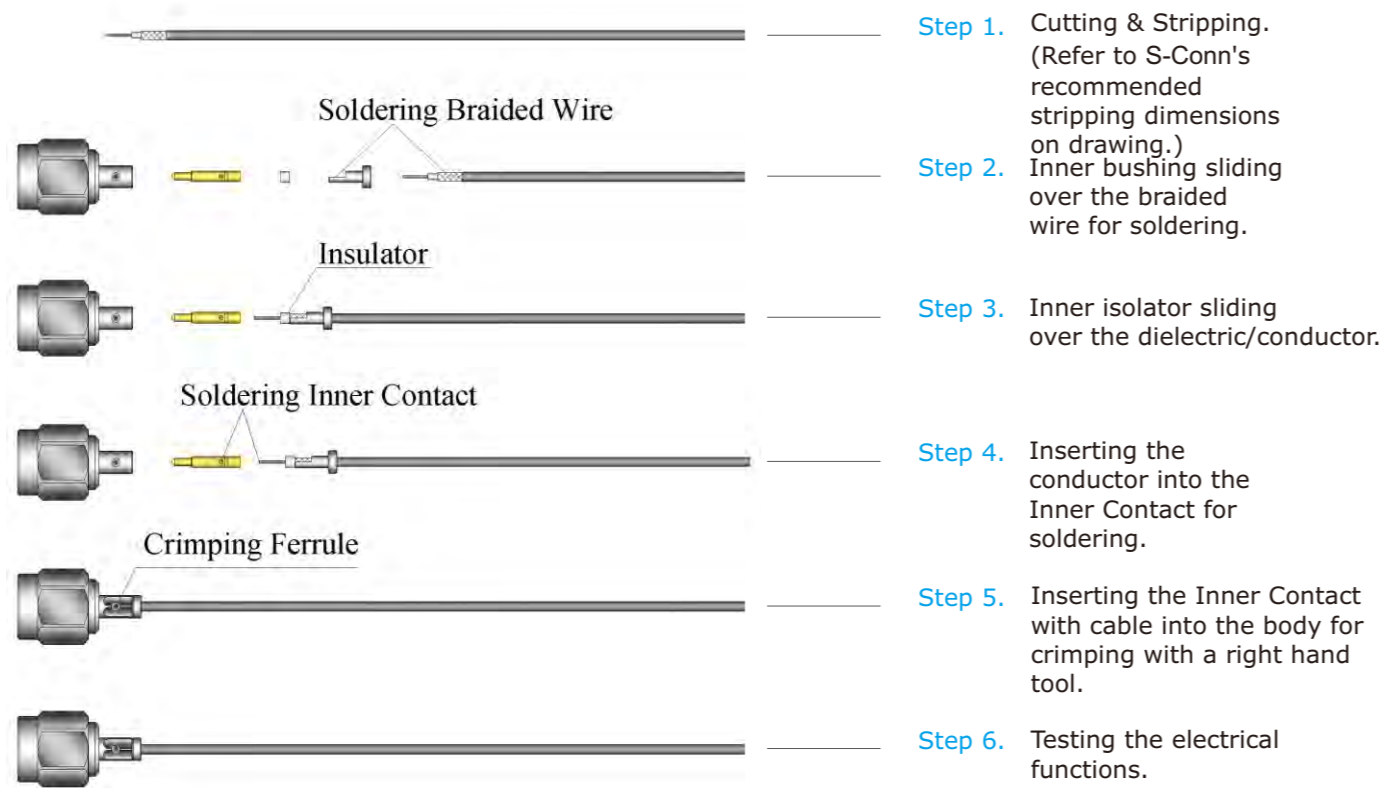
Guide Cable Assembly Instruction F



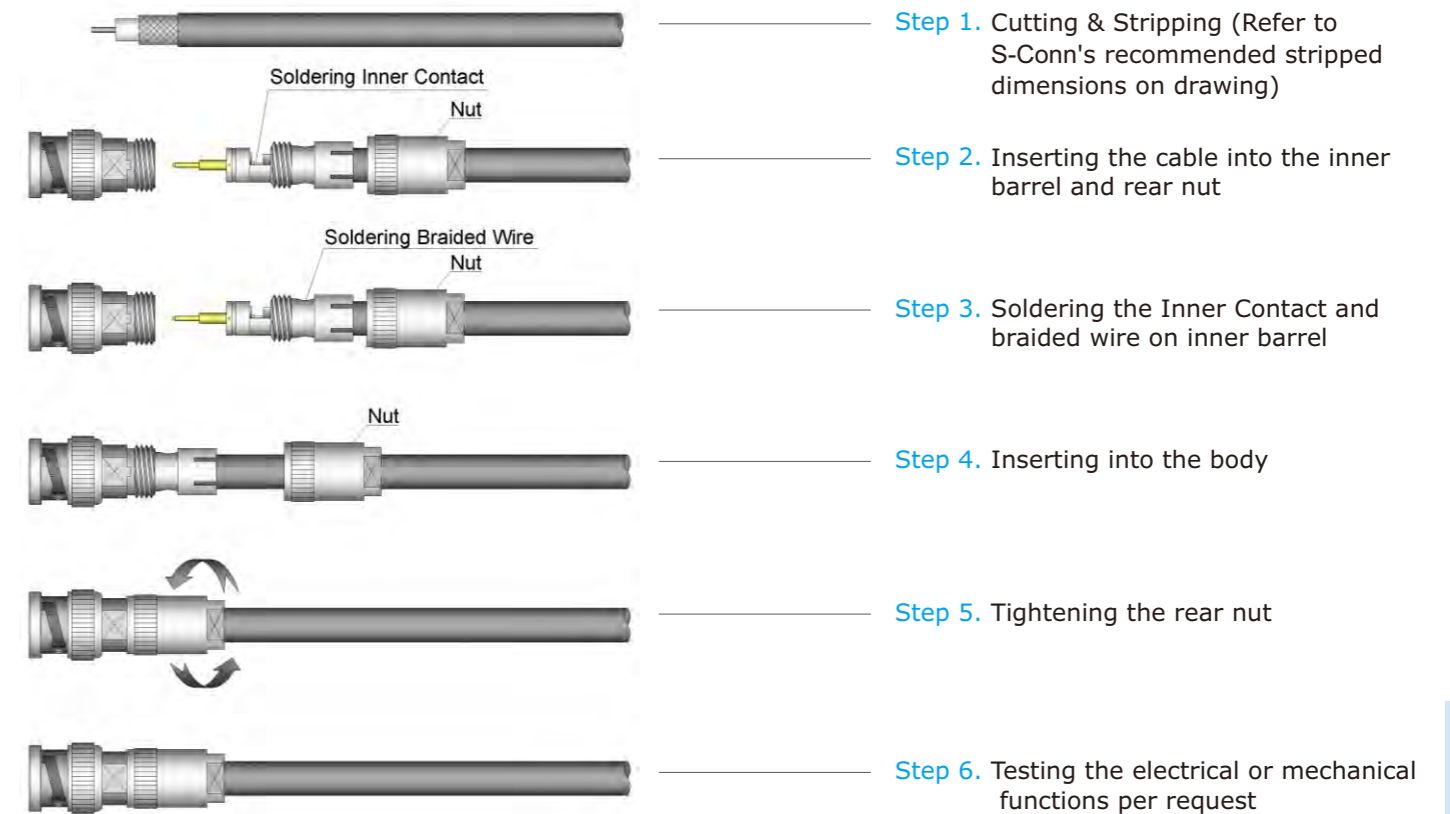
Guide Cable Assembly Instruction H



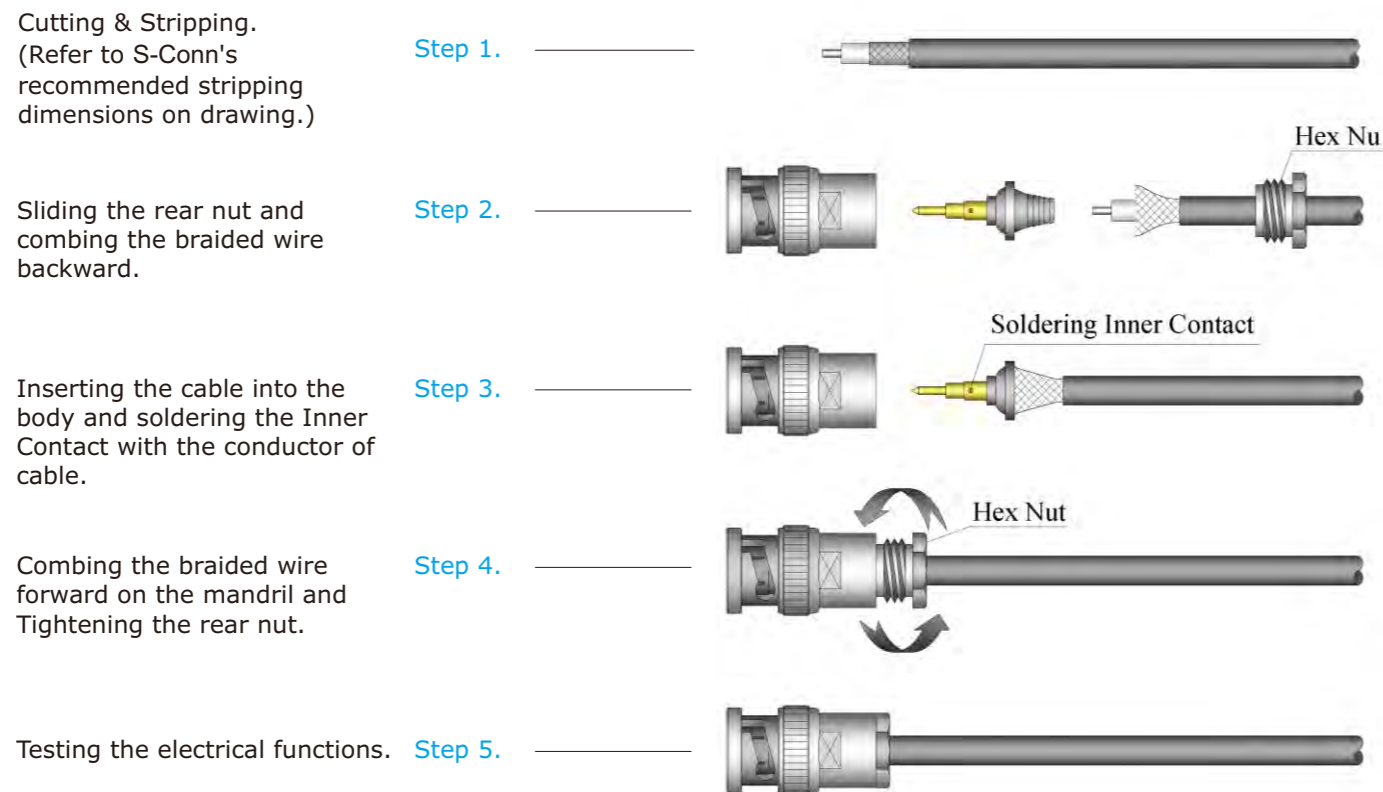
Guide Cable Assembly Instruction I



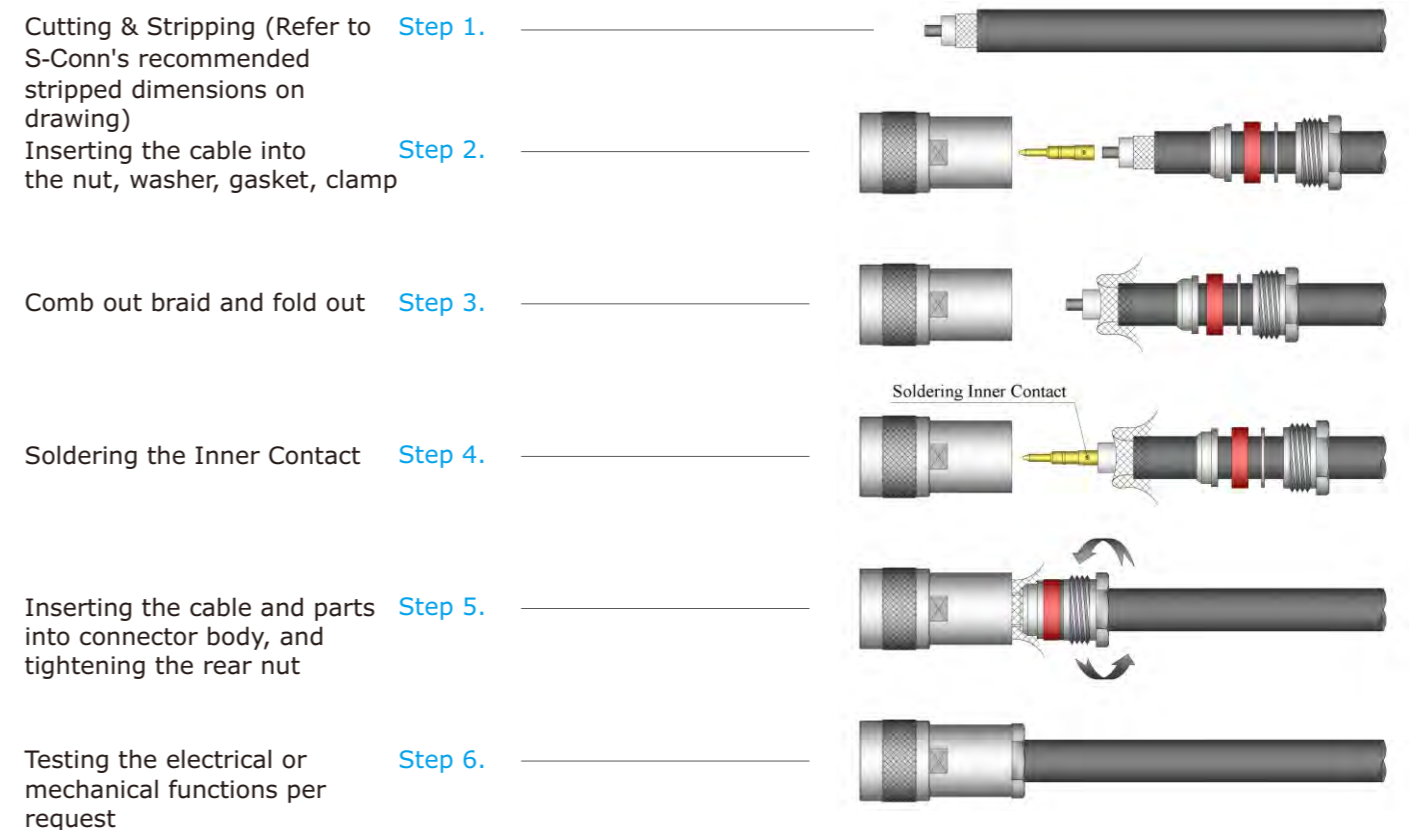
Guide Cable Assembly Instruction K



Guide Cable Assembly Instruction J



Guide Cable Assembly Instruction L



Guide Cable Assembly Instruction M

- Step 1.** Cutting & Stripping. (Refer to S-Conn's recommended stripping dimensions on drawing.)
- Step 2.** Soldering the Inner Contact with the conductor of cable.
- Step 3.** Inserting the Inner Contact with cable into the body. Soldering along the junction.
- Step 4.** Testing the electrical functions.

Guide Cable Assembly Instruction Crimp O

- Step 1.** Cutting & Stripping. (Refer to S-Conn's recommended stripping dimensions on drawing.)
- Step 2.** Combing the braided wire backward.
- Step 3.** Pushing and screw the connector onto the cable in a clockwise direction until it stops.
- Step 4.** Testing the electrical or mechanical functions per request.

Guide Cable Assembly Instruction N

- Step 1.** Cutting & Stripping. (Refer to S-Conn's recommended stripping dimensions on drawing.)
- Step 2.** Inserting the cable into the body and soldering the braided wire at the side hole.
- Step 3.** Soldering the Inner Contact.
- Step 4.** Tightening the end cap.
- Step 5.** Testing the electrical or mechanical functions per request.

Guide Cable Assembly Instruction P

- Step 1.** Cutting & Stripping. (Refer to S-Conn's recommended stripping dimensions on drawing.)
- Step 2.** Sliding the shell onto the cable, then screw the main body onto the cable and solder it as shown.
- Step 3.** Soldering the Inner Contact with the conductor and braided wire at the side holes.
- Step 4.** Sliding the shell forward and screw in place on the main body.
- Step 5.** Testing the electrical or mechanical functions per request.

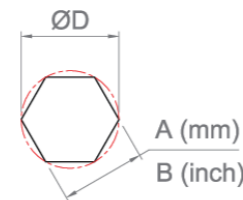
Appendix B

Recommended Crimping Dimensions Table

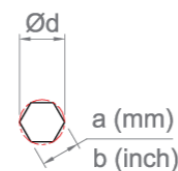
Recommended Ferrule Crimping Dimensions			
Ferrule Outer Diameter	Crimping Dimension		Hand Tool
	D(mm)	A(inch)	
2.2(short)	0.075	1.91	HT-801K
2.3(short)	0.078	1.98	HT-909P
2.3	0.078	1.98	HT-909P
2.7(short)	0.093	2.36	HT-909P
2.8	0.095	2.41	HT-H116P
2.9(short)	0.098	2.49	HT-301P1
3	0.1	2.54	HT-909M
3.0(short)	0.1	2.54	HT-909M
3.1	0.105	2.67	N/A
3.2	0.109	2.77	N/A
3.6	0.122	3.1	HT-H116N
3.8	0.128	3.25	HT-909M
3.9	0.133	3.38	HT-909M
4	0.137	3.48	HT-801V
4.4	0.151	3.84	HT-801V
4.5	0.151	3.84	HT-801V
5.1	0.174	4.42	N/A
5.2	0.178	4.52	HT-909H
5.3	0.178	4.52	HT-909H
5.4	0.184	4.67	HT-909R
5.5	0.184	4.67	HT-909R
6.3	0.213	5.41	HT-801C
6.4	0.215	5.46	HT-909R
6.5	0.22	5.59	HT-301Y
6.8	0.228	5.79	HT-909Q
7.5	0.255	6.48	HT-909N
8	0.275	6.99	HT-301D3
8.2	0.278	7.06	HT-301G4

Recommended Ferrule Crimping Dimensions			
Ferrule Outer Diameter	Crimping Dimension		Hand Tool
	D(mm)	A(inch)	
8.5	0.29	7.37	N/A
9	0.305	7.75	HT-909Q
9.5	0.324	8.23	HT-909N
11.8	0.406	10.31	HT-H116L
11.9	0.406	10.31	HT-H116L
12.2	0.416	10.57	N/A
12.3	0.419	10.64	N/A
12.4	0.429	10.9	HT-909K
12.5	0.429	10.9	HT-909K
17.3	0.59	14.99	N/A
17.9	0.61	15.49	HT-H136AR

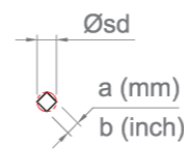
Recommended PCB Dimensions (mm)	
Drilling	Diameter
0.5	0.9
0.6	1
0.65	1.2
0.8	1.3
0.85	1.4
1	1.6
1.02	1.7



Recommended Crimping Dimensions for Ferrule



Recommended Crimping Dimensions for Inner Contact



Recommended Crimping Dimensions for Inner Contact

Recommended Inner Contact Dimensions			
Ferrule Outer Diameter	Contact Dimensions		Hand Tool
	D(mm)	A(inch)	
0.8	0.0224	0.57	N/A
0.9	0.0252	0.64	N/A
1	0.028	0.71	HT-909P
1.1	0.0307	0.78	N/A
1.1	0.039	0.99	HT-909L
1.15	0.0321	0.82	N/A
1.15	0.039	0.99	HT-909L
1.25	0.035	0.9	HT-909P
1.27	0.035	0.9	HT-909P
1.3	0.035	0.9	HT-909P
1.32	0.0369	0.94	N/A
1.35	0.039	0.99	HT-301T1
1.4	0.039	0.99	HT-301T1
1.5	0.042	1.07	HT-801V
1.6	0.044	1.12	HT-301Y
1.7	0.047	1.19	HT-301T1
1.75	0.06	1.52	HT-2250
1.8	0.06	1.52	HT-2250
1.9	0.065	1.65	HT-301G2
2	0.068	1.73	HT-909P
2.1	0.068	1.73	HT-909P
2.2	0.075	1.91	HT-801K
2.3	0.078	1.98	HT-909P
3	0.1	2.54	HT-909M
3.2	0.109	2.77	N/A
3.5	0.118	3	HT-909K
4	0.133	3.38	HT-909M

