

SMA SERIES

MICROWAVE SUBMINIATURE COAXIAL CONNECTORS



Description

The Jy Chyun SMA series features an ultra-compact coaxial cable connector that operates on low-frequency deflection in a bandwidth ranging from DC to 18 GHz with ongoing 50 ohm impedance resistance. The Jy Chyun connectors feature a high mechanical response, high temperature tolerance and low VSWR.

Applications

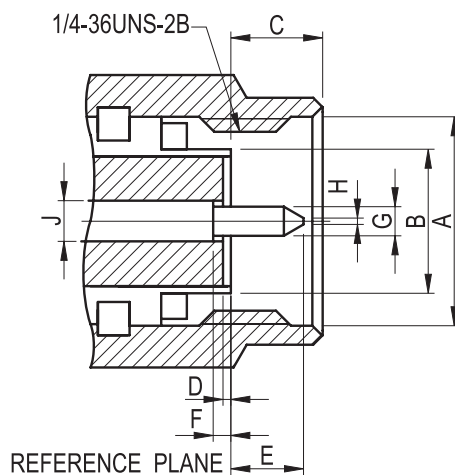
- Antennas
- Wireless
- Instrumentation
- PC / LAN
- Telecommunication
- Base Stations
- Process Controls

Specifications

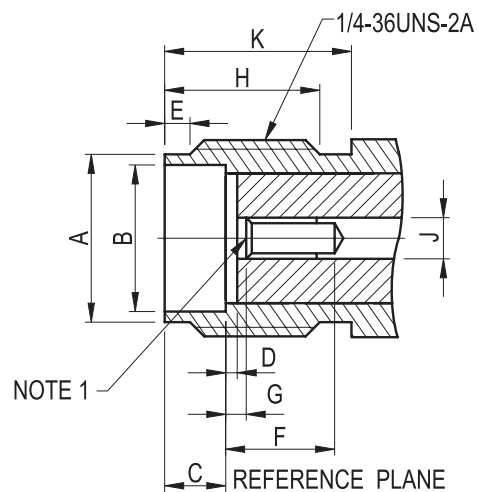
Electrical		Material		
Impedance	50 ohms	Parts Name	Material	Finish
Frequency Range	.141" & .085" O.D copper jacket semi-rigid cable. 0-18GHz. Flexible cables:0-12.4 GHz.	Body, Metal Parts	Brass per QQ-B-626	Nickel or Gold*
Voltage Rating	RG-55, 58, 141, 142, 223, 303: 335 volts peak RG-122, 174, 188, 316: 250 volts peak	Center Contacts	Plug: Brass per QQ-B-626 Jack: Beryllium copper per QQ-C-530	Gold
Dielectric Withstanding Voltage	.141" & RG-58 group: 1,000 VRMS. .085" & RG-316 group: 750 VRMS.	Insulators	Teflon	None
VSWR	Straight: 1.3 max. Right Angle: 1.5max	Gasket	Silicone Rubber	
Contact Resistance	Center: 6 milliohms Body: 2.0 milliohms	Crimp Ferrules	Seamless copper tubing alloy	Nickel or Gold*
Insulation Resistance	5000 megohms	*All cable connections are nickel plated; all solder connections for semi-rigid cable are gold plated.		

Mechanical					
Mating	Mating Torque	Connector affixment to cable	Cable affixment to center contact	Contact captivation	Connector durability
50 ohm coupling,	Recommended : 2 inch pounds Disengagement : 2 inch pounds	Crimp types , Solder types	Solder	All types, except as noted	250 mating and unmating cycles min.

Interface Mating Dimensions



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	6.35(.250)	6.73(.265)
B	4.53(.178)	4.59(.181)
C	2.54(.100)	3.43(.135)
D	0.00	0.25(.010)
E	1.91(.075)	2.54(.100)
F	0.00	0.25(.010)
G	0.90(0.035)	0.94(.037)
H	0.00	0.38(.015)
J	1.24(.049)	1.30(.051)

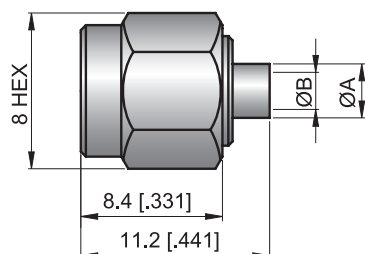


JACK		
Letter	Millimeters	
	Minimum	Maximum
A	5.28(.208)	5.49(.216)
B	4.60(.181)	4.67(.184)
C	1.88(.074)	1.98(.078)
D	0.00	0.25(.010)
E	0.38(.015)	1.14(.045)
F	2.92(.115)	-
G	0.00	0.25(.010)
H	4.32(.170)	-
J	1.24(.049)	1.30(.051)
K	5.54(.218)	-

NOTE 1 : I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.9/0.94 MM DIA. PIN.

Semi-Rigid Cable

STRAIGHT PLUG, Solder

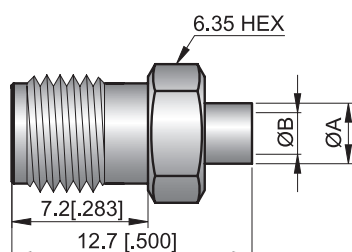


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5612102S1	Semi-rigid .034	2(.079)	1(.039)	
SMA-A5612102S2	Semi-rigid .047	2.2(.087)	1.3(.051)	
SMA-A5612101S3	Semi-Rigid .085	3.2(.126)	2.2(.087)	
SMA-A5612101S4	Semi-Rigid .141	4.6(.181)	3.6(.142)	

*Reverse Polarity Series

Semi-Rigid Cable

STRAIGHT JACK, Solder

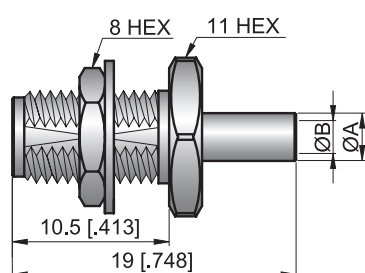


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5712101S1	Semi-rigid .034	2(.079)	1(.039)	
SMA-A5712101S2	Semi-rigid .047	2.2(.087)	1.3(.051)	
SMA-A5712101S3	Semi-rigid .085	3.2(.126)	2.2(.087)	
SMA-A5712101S4	Semi-rigid .141	4.6(.181)	3.6(.142)	

*Reverse Polarity Series

Semi-Rigid Cable

BULKHEAD STRAIGHT JACK, Solder

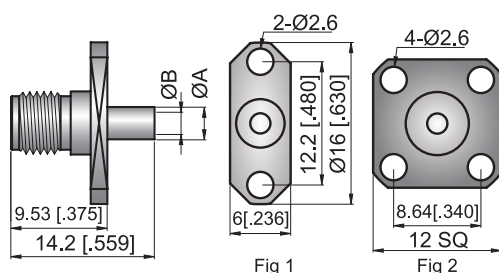


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5714102S1	Semi-rigid .034	2(.079)	1(.039)	
SMA-A5714102S2	Semi-rigid .047	2.2(.087)	1.3(.051)	
SMA-A5714102S3	Semi-rigid .085	3.2(.126)	2.2(.087)	
SMA-A5714102S4	Semi-rigid .141	4.6(.181)	3.6(.142)	

*Reverse Polarity Series

Semi-Rigid Cable

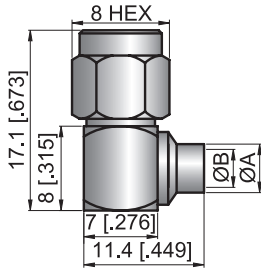
PANEL STRAIGHT JACK, Solder



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715103S2	Semi-rigid .047	2.2(.087)	1.3(.051)	Fig 1
SMA-A5715103S3	Semi-rigid .085	3.2(.126)	2.2(.087)	Fig 1
SMA-A5715103S4	Semi-rigid .141	4.6(.181)	3.6(.142)	Fig 1
SMA-A5715104S2	Semi-rigid .047	2.2(.087)	1.3(.051)	Fig 2
SMA-A5715104S3	Semi-rigid .085	3.2(.126)	2.2(.087)	Fig 2
SMA-A5715104S4	Semi-rigid .141	4.6(.181)	3.6(.142)	Fig 2

Semi-Rigid Cable

RIGHT ANGLE PLUG, Solder

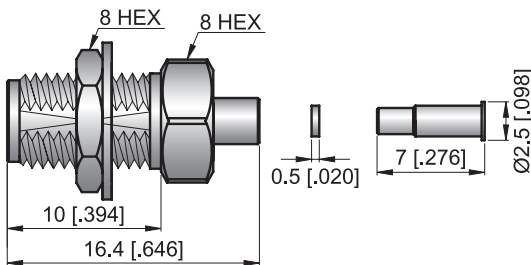


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5622101S1	Semi-rigid .034	2(.079)	1(.039)	
SMA-A5622101S2	Semi-rigid .047	2.2(.087)	1.3(.051)	
SMA-A5622102S3	Semi-rigid .085	3.2(.126)	2.2(.087)	
SMA-A5622102S4	Semi-rigid .141	4.6(.181)	3.6(.142)	

*Reverse Polarity Series

Flexible Cable

BULKHEAD STRAIGHT JACK, Crimp

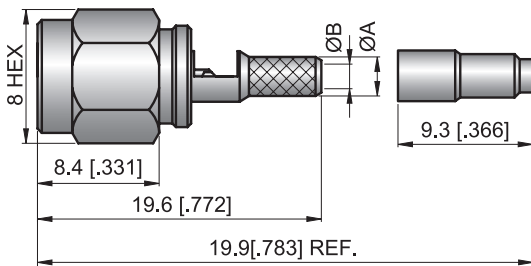


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5714106M1	Ø1.13/mm			
SMA-C5714103M2	Ø1.32/mm			
SMA-C5714101M4	Ø1.37/mm			

*Reverse Polarity Series

Flexible Cable

STRAIGHT PLUG, Crimp-SIDE
SOLDER TYPE

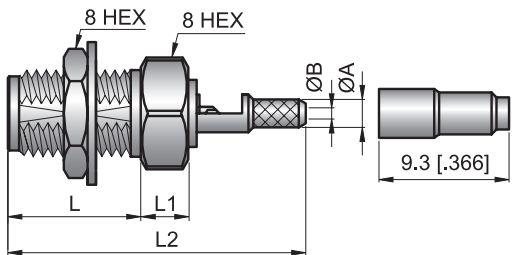


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5613102M1	Ø1.13/mm	2(.079)	0.8(.031)	
SMA-A5613101M2	Ø1.32/mm	1.75(.069)	0.8(.031)	
SMA-A5613101M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-A5613104R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	
SMA-A5613101R7	RG178.RG196	2(.079)	1(.039)	

*Reverse Polarity Series

Flexible Cable

BULKHEAD STRAIGHT JACK, Crimp-SIDE SOLDER TYPE



L=9.5 (.374) ,11.4 (.449) ,14 (.551)

L1=3.4 (.134) ,2.3 (.091)

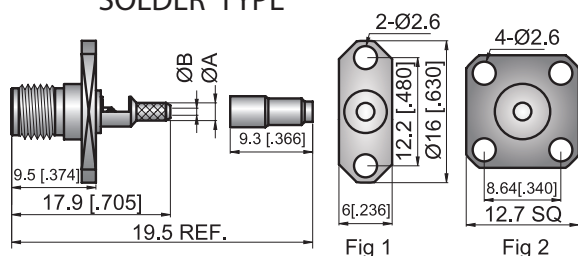
L2=21.3 (.839) ,22.1 (.870) ,22.5 (.886) ,23.2 (.976) ,24.7 (.972)

Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5714101M1	Ø1.13/mm	2(.079)	0.8(.031)	
SMA-C5714101M2	Ø1.32/mm	1.75(.069)	0.8(.031)	
SMA-C5714102M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-C5714102R7	RG178.RG196	2(.079)	1(.039)	

*Reverse Polarity Series

Flexible Cable

PANEL STRAIGHT JACK, Crimp-SIDE SOLDER TYPE

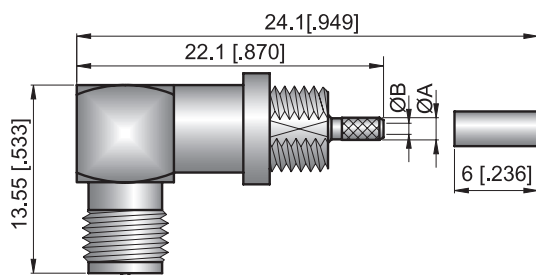


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5715105M1	Ø1.13/mm	2(.079)	0.8(.031)	Fig 1
SMA-C5715104M2	Ø1.32/mm	1.75(.069)	0.8(.031)	Fig 1
SMA-C5715103M4	Ø1.37/mm	2(.079)	1(.039)	Fig 1
SMA-C5715103R7	RG178.RG196	2(.079)	1(.039)	Fig 1
SMA-C5715104M1	Ø1.13/mm	2(.079)	0.8(.031)	Fig 2
SMA-C5715105M2	Ø1.32/mm	1.75(.069)	0.8(.031)	Fig 2
SMA-C5715104M4	Ø1.37/mm	2(.079)	1(.039)	Fig 2
SMA-C5715104R7	RG178.RG196	2(.079)	1(.039)	Fig 2

*Reverse Polarity Series

Flexible Cable

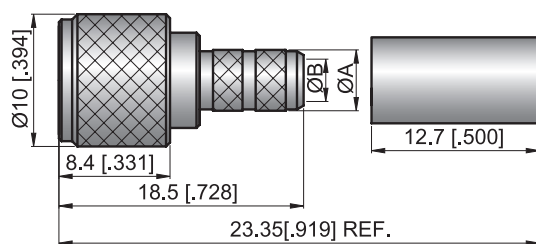
RIGHT ANGLE JACK, Crimp



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5921107M1	Ø1.13/mm	1.8(.071)	0.8(.031)	

Flexible Cable

STRAIGHT PLUG, Crimp

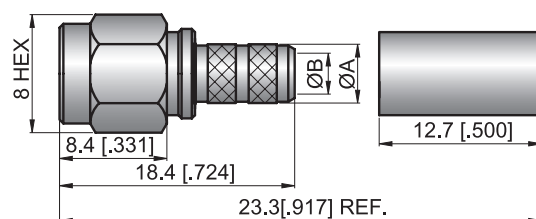


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-E5611103R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	

*Reverse Polarity Series

Flexible Cable

STRAIGHT PLUG, Crimp

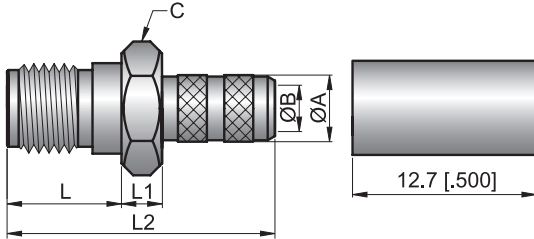


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5611103M1	Ø1.13/mm	2(.079)	0.8(.031)	
SMA-A5611102M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-A5611101R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	
SMA-A5611102R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	
SMA-A5611103R7	RG178.RG196	2(.079)	1(.039)	

*Reverse Polarity Series

Flexible Cable

STRAIGHT JACK, Crimp



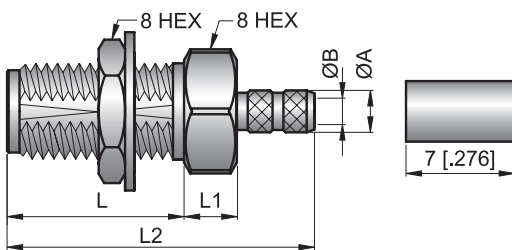
L=7.2[.283], 7.9[.311] L1=2.8[.110], 3[.118]
L2=15.2[.598], 18.5[.728], 18.7[.736]
C=6.35HEX, 8HEX

Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5711101R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	
SMA-C5711101Y1	YE50	5.3(.209)	4.3(.169)	
SMA-A5711101R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	

*Reverse Polarity Series

Flexible Cable

BULKHEAD STRAIGHT JACK, Crimp



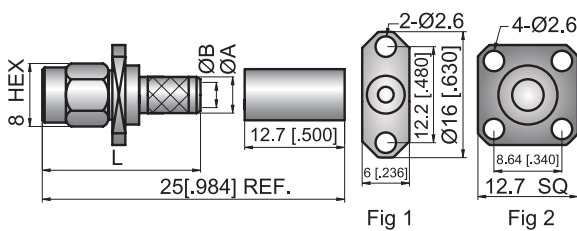
L=11.4[.49], 14[.551], 9.5[.380]
L1=2.3[.091], 3.4[.134] L2=19.8[.780], 21.3[.839], 22.6[.890]

Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5714107M1	Ø1.13/mm	2(.079)	0.8(.031)	
SMA-A5714105M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-A5714102R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	
SMA-C5714102R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	

*Reverse Polarity Series

Flexible Cable

PANEL STRAIGHT PLUG, Crimp



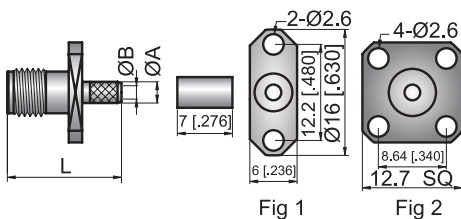
L=20.1[.791], 17.3[.681]

Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5615106R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	Fig 1
SMA-C5615106R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	Fig 1
SMA-C5615105R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	Fig 2
SMA-C5615105R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	Fig 2

*Reverse Polarity Series

Flexible Cable

PANEL STRAIGHT JACK, Crimp



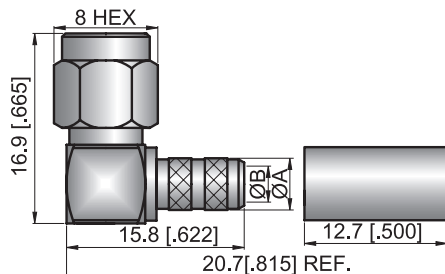
L=14.5[.571], 17.3[.681]

Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715105R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	Fig 1
SMA-A5715103R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	Fig 1
SMA-A5715106R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	Fig 2
SMA-A5715104R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	Fig 2

*Reverse Polarity Series

Flexible Cable

RIGHT ANGLE PLUG, Crimp

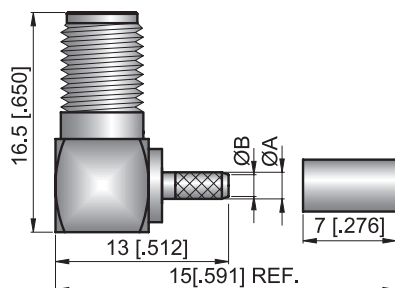


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5621101M1	Ø1.13/mm	1.8(.071)	0.8(.031)	
SMA-A5621102M2	Ø1.32/mm	1.75(.069)	0.8(.031)	
SMA-A5621103M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-A5621104R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	
SMA-A5621103R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	
SMA-A5621102R7	RG178.RG196	2(.079)	1(.039)	

*Reverse Polarity Series

Flexible Cable

RIGHT ANGLE JACK, Crimp

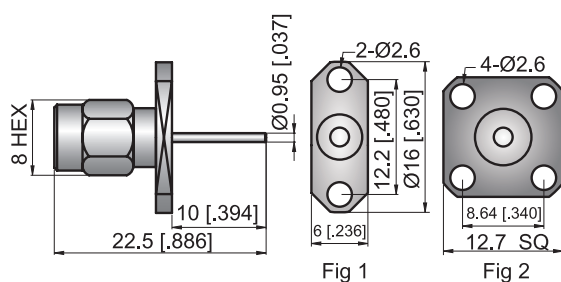


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5721108M1	Ø1.13/mm	1.8(.071)	0.8(.031)	
SMA-A5721106M2	Ø1.32/mm	1.75(.069)	0.8(.031)	
SMA-A5721106M4	Ø1.37/mm	2(.079)	1(.039)	
SMA-A5721105R4	RG58.RG141.RG303	4.6(.181)	3.2(.126)	
SMA-A5721107R5	RG174.RG188.RG316	2.7(.106)	1.7(.067)	
SMA-A5721101R7	RG178.RG196	2(.079)	1(.039)	

*Reverse Polarity Series

Panel Receptacle

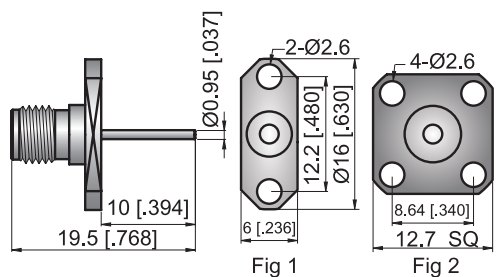
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615113Z0				Fig 1
SMA-A5615114Z0				Fig 2

Panel Receptacle

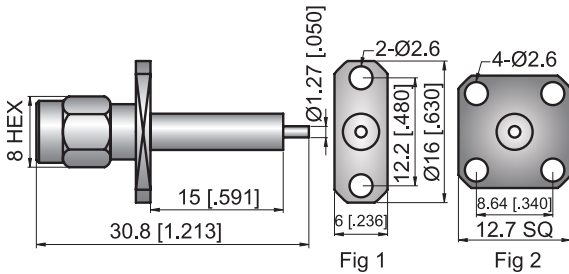
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715103Z0				Fig 1
SMA-A5715123Z0				Fig 2

Panel Receptacle

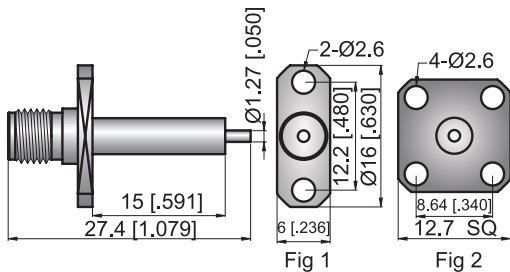
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615101Z0				Fig 1
SMA-A5615102Z0				Fig 2

Panel Receptacle

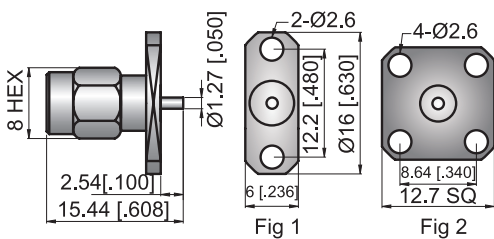
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715106Z0				Fig 1
SMA-A5715107Z0				Fig 2

Panel Receptacle

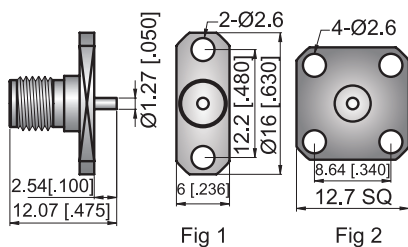
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615103Z0				Fig 1
SMA-A5615104Z0				Fig 2

Panel Receptacle

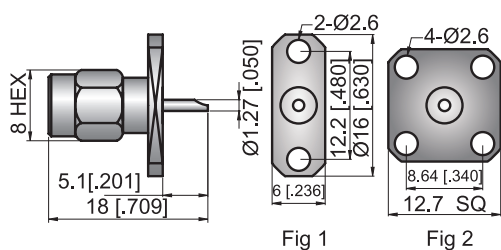
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715114Z0				Fig 1
SMA-A5715115Z0				Fig 2

Panel Receptacle

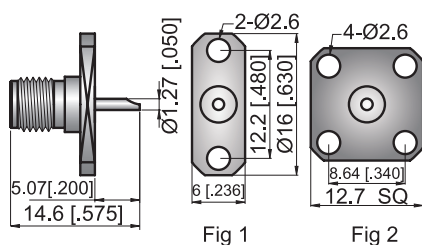
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615105Z0				Fig 1
SMA-A5615106Z0				Fig 2

Panel Receptacle

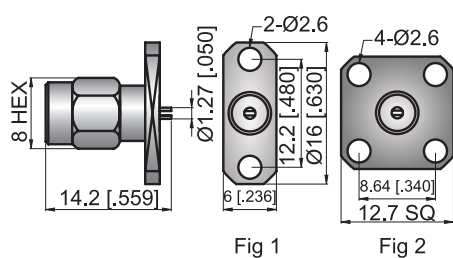
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715108Z0				Fig 1
SMA-A5715109Z0				Fig 2

Panel Receptacle

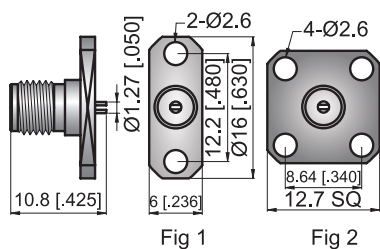
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615107Z0				Fig 1
SMA-A5615108Z0				Fig 2

Panel Receptacle

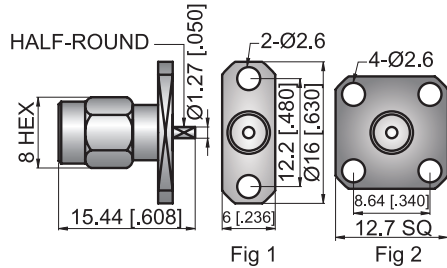
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715110Z0				Fig 1
SMA-A5715111Z0				Fig 2

Panel Receptacle

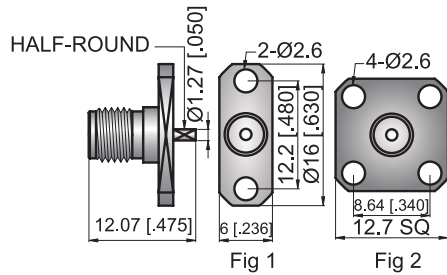
PANEL STRAIGHT PLUG



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5615109Z0				Fig 1
SMA-A5615110Z0				Fig 2

Panel Receptacle

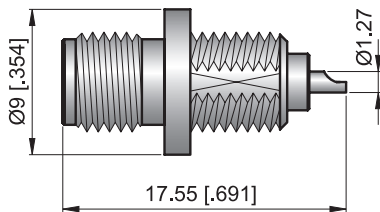
PANEL STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5715112Z0				Fig 1
SMA-A5715113Z0				Fig 2

Bulkhead Receptacle

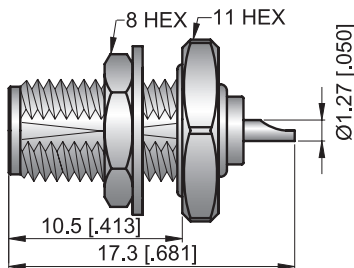
BULKHEAD STRAIGHT JACK-FRONT MOUNT



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-E5714122Z0				

Bulkhead Receptacle

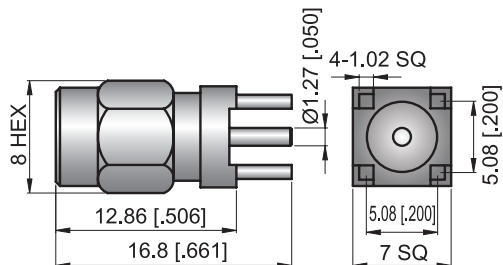
BULKHEAD STRAIGHT JACK



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5714118Z0				

P.C.B Mount

STRAIGHT PLUG

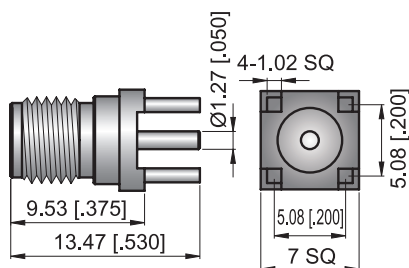


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5616111Z0				

*REMARK : PCB MOUNTING HOLES REF. TO"MH A"

P.C.B Mount

STRAIGHT JACK

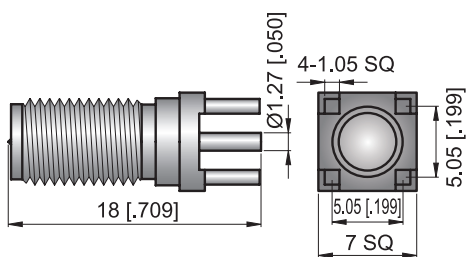


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5716117Z0				

*REMARK : PCB MOUNTING HOLES REF. TO"MH A"

P.C.B Mount

STRAIGHT JACK

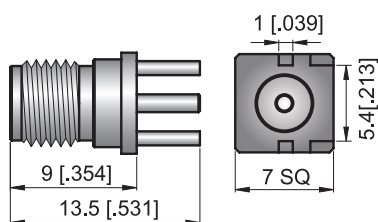


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-L5916101Z0				

*REMARK : PCB MOUNTING HOLES REF. TO"MH A"

P.C.B Mount

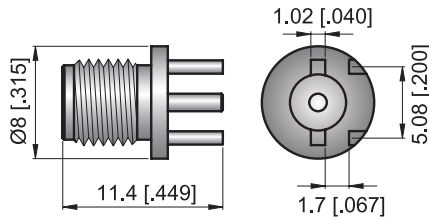
STRAIGHT JACK- Edge Mount



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5716102Z0				

P.C.B Mount

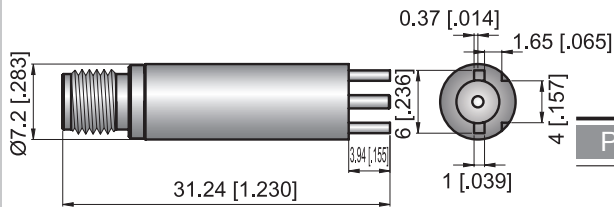
STRAIGHT JACK-Edge Mount



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5716119Z0				

P.C.B Mount

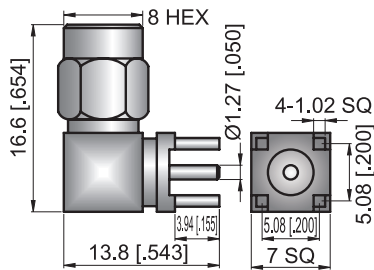
STRAIGHT JACK-Edge Mount



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5716101Z0				

P.C.B Mount

RIGHT ANGLE PLUG

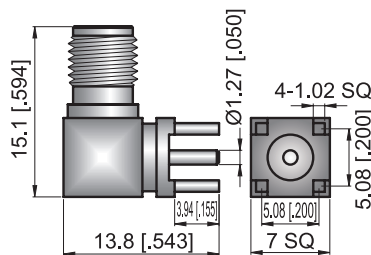


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5626112Z0				

*REMARK : PCB MOUNTING HOLES REF. TO "MH A"

P.C.B Mount

RIGHT ANGLE JACK

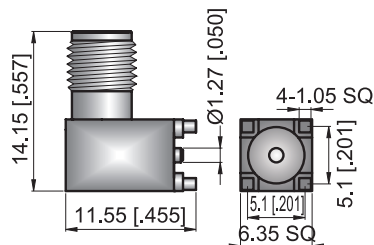


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5726120Z0				

*REMARK : PCB MOUNTING HOLES REF. TO "MH A"

P.C.B Surface Mount

RIGHT ANGLE JACK

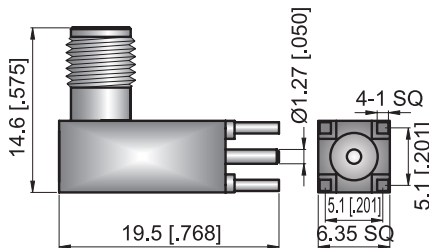


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5726104Z0				

*REMARK : PCB MOUNTING HOLES REF. TO"MH A"

P.C.B Mount

RIGHT ANGLE JACK

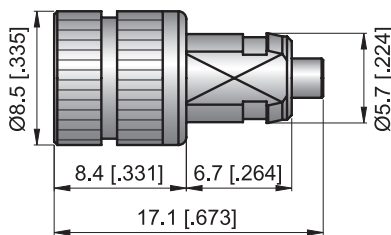


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5726105Z0				

*REMARK : PCB MOUNTING HOLES REF. TO"MH A"

Antenna

STRAIGHT PLUG, Crimp

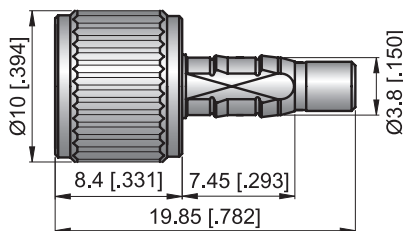


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5611109A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

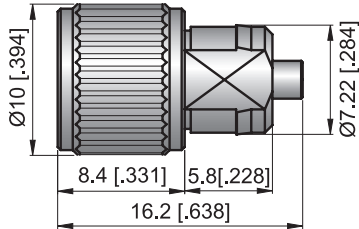


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5611107A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

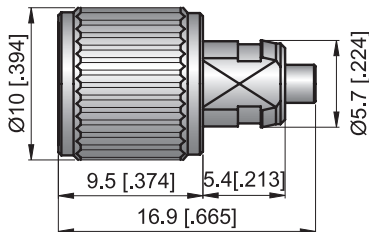


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5611110A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

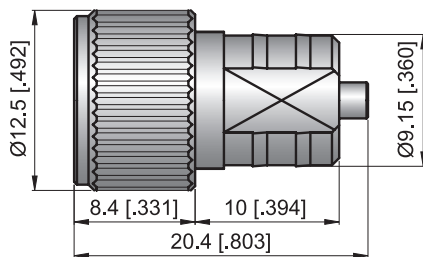


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-C5611111A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

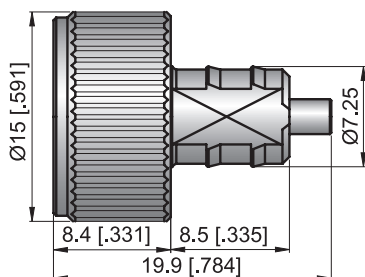


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-E56111105A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

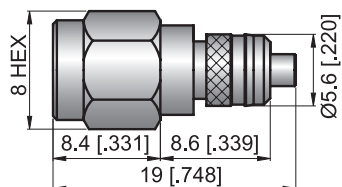


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-E56111104A1				

*Reverse Polarity Series

Antenna

STRAIGHT PLUG, Crimp

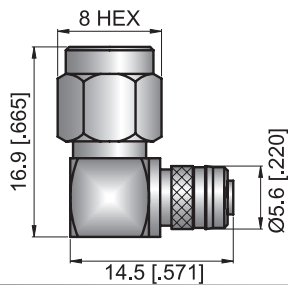


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5611101A1				

*Reverse Polarity Series

Antenna

RIGHT ANGLE PLUG, Crimp

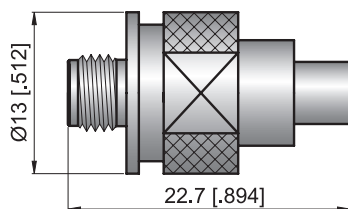


Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5621106A1				

*Reverse Polarity Series

Antenna

STRAIGHT JACK, Clamp



Part Number.	Cable Type	Dimension		Remarks
		A	B	
SMA-A5717101A1				