



DELTA
Electronics Mfg. Corp.

Gang Mounts

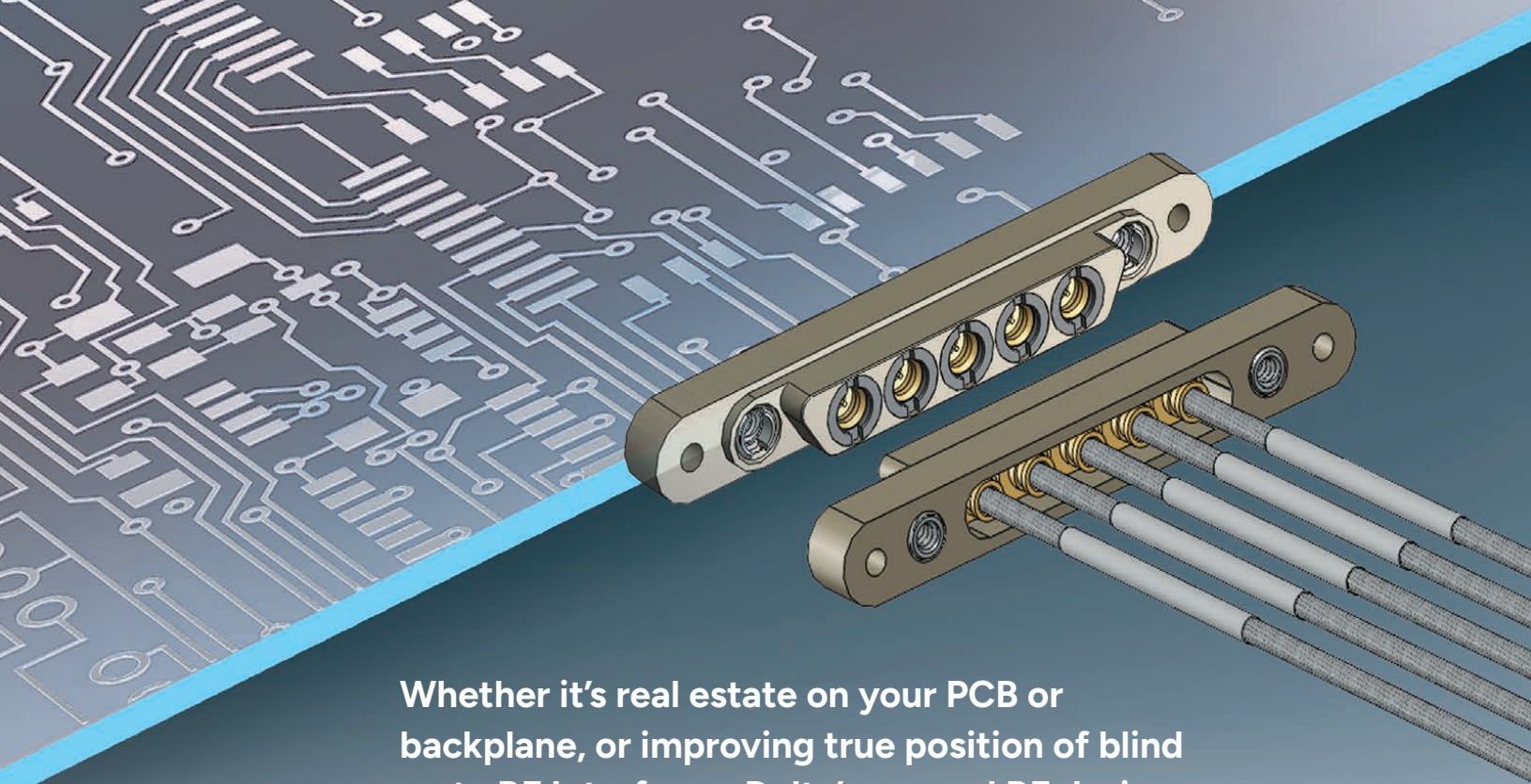
SMP

SMPM

SMP3



978-927-1060 | sales@deltarf.com | deltarf.com



Whether it's real estate on your PCB or backplane, or improving true position of blind mate RF Interfaces, Delta's ganged RF design solutions are the answer.

Features and Benefits of SMPM-G Gang Mounts

- Ideal for blind mate applications: cable-to-board, cable-to-cable and board-to-board mechanical schemes.
- Delta's SMPM-G housings are standardized with 2, 3, 4, 5, 6, 7, and 8 port designs.
- SMPM-G housings include female cable mount, male cable mount, male PCB edge mount and male PCB vertical launch. SMPM-G RF connectors are available in both straight and right angle configurations.
- SMPM-G housings are keyed to prevent improper mating and port locations are laser marked for proper identification.
- Delta's SMPM-G RF connectors and housings are gasketed for extreme weather sealing.
- SMPM-G RF connectors accommodate both .047" and .086" semi-rigid cable and the flexible equivalents. Custom cable designs may also be available.
- Straight cable mount SMPM-G configurations operate up to 65 GHz, right angle cable mount connectors operate up to 26.5 GHz, PCB edge mount and vertical launch configurations operate up to 40 GHz.
- The versatile SMPM-G RF connector interface meets the critical interface dimensions of Mil-STD-348 offering proven blind mate performance, with axial and radial float, assuring proper mating.



Discover Your SMPM-G Gang Mount Solution



 **DELTA**
Electronics Mfg. Corp.

SMPM-G
High Performance
Gang Mounts



SMPM

Interconnects
that Guide &
Protect us

# Ports	SMPM-G Cable Mounts Housings	Part Number	Page #
SMPM-G General Specifications			
2 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-02	6-7
2 Port	Male, Cable Mount with Environmental Seal	21-10460-02	10-11
3 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-03	6-7
3 Port	Male, Cable Mount with Environmental Seal	21-10460-03	10-11
4 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-04	6-7
4 Port	Male, Cable Mount with Environmental Seal	21-10460-04	10-11
5 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-05	6-7
5 Port	Male, Cable Mount with Environmental Seal	21-10460-05	10-11
6 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-06	6-7
6 Port	Male, Cable Mount with Environmental Seal	21-10460-06	10-11
7 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-07	6-7
7 Port	Male, Cable Mount with Environmental Seal	21-10460-07	10-11
8 Port	Female, Cable Mount with Self Captivating Jack Screws	21-10459-08	6-7
8 Port	Male, Cable Mount with Environmental Seal	21-10460-08	10-11

Gender	SMPM-G Cable Mount RF Connectors	Part Number	Page #
Female	Straight Cable Mount Female for .086" (RG 405) SR or Flex	8808094G003-005	8
Female	Right Angle Cable Mount Female for .086" (RG 405) SR or Flex	8876094G003-011	9
Female	Straight Cable Mount Female for .047" (RG 405) SR or Flex	8808111G003-006	8
Female	Right Angle Cable Mount Female for .047" (RG 405) SR or Flex	8876111G003-007	9
Male	Straight Cable Mount Male for .086" (RG 405) SR or Flex	8801094G003-001	12
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# Ports	SMPPM-G PCB Vertical Launch Housings	Part Number	Page #
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3 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-102	14-15
4 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-103	14-15
5 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-104	14-15
6 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-105	14-15
7 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-106	14-15
8 Port	Male, Vertical Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-049	14-15

# Ports	SMPPM-G PCB Edge Launch Housings	Part Number	Page #
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3 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-096	16-17
4 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-097	16-17
5 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-098	16-17
6 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-099	16-17
7 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-100	16-17
8 Port	Male, Edge Launch, SB, PCB Mount with 4-40 UNC-2B screws	8869000G91P-048	16-17

SMPPM-G PCB Cable Assembly & Tooling		Part Number	Page #
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More Gang Mount Options		SMP-G / SMP3-G / VITA	20-24
SMPPM-G Extras		Bullet Adapters & Tools	25



SMPM-G Electrical Specifications

Operating Frequency - SMPM-G RF Connectors

Straight Cable Mount - DC to 65 GHz
R/ A Cable Mount - DC to 26.5 GHz
Verical Launch PCB Mount - DC to 40 GHz
R/ A Edge Launch PCB Mount - DC to 40 GHz

Impedance

Straight and Right Angle - 50 Ω
--

Insertion Loss

05 +.04 $\sqrt{f}$ in GHz (non hermetic connectors)

VSWR (Voltage Standing Wave Ratio)

1.35:1 Max. thru 26.5 GHz; 1.4 Max. thru 65 GHz

RF Leakage

-80 db to 3 GHz, -65 db to 65 GHz

Insulation Resistance

5,000 megohms

DWV (@ sea level)

500 Vrms

SMPM-G Mechanical Specifications

Force to Engage

Smooth Bore • 2.0 lbs Typical
Limited Detent - 3.5 lbs Typical
Full Detent - 5.0 lbs Typical

Force to Disengage

Smooth Bore 1.5 lbs Typical
Limited Detent - 4.0 lbs Typical
Full Detent • 6.0 lbs Typical

Durability

Smooth Bore • 1000 cycles
Limited Detent • 500 cycles
Full Detent - 100 cycles

Contact Retention

1.5 lbs Min

Axial Misalignmnet

.010"

Radial Misalignmnet

+/- .010

SMPM-G Environmental Specifications

Temperature Range

-65 Cto + 165 C

Mechanical Shock

Meets Mil-STD-202, Method 213,

Random Vibration

Meets MII-STD-202, Method 214, Condition K-I, 46.3 g

Sine Vibration

MIL-STD-202, method 204, 28 g peak

Altitude

Meets Mil-STD-202, Method 105, Condition C
--

Thermal Shock

Meets Mil-STD-202, Method 107, Condition B
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Moisture Resistance

MIL-STD-202, Method 106

SMPM-G Materials & Plating Specifications

Materials - RF Connector

Bodies • Beryllium Copper per ASTM B196 and/or ASTM B 197 or Stainless Steel, type 303, Condition A
Outer & Center Contacts • Beryllium Copper per ASTM B196
Insulators • PTFE Fluorocarbon per ASTM D1710, type 1, grade 1; Torlon per ASTMD-5204 or Ultem per ASTM D-5205

Materials - Housing

Block Housing • Brass per ASTM B16, C36000 Alloy, Temper H02
Gasket - Silicone Rubber per A-A-59588
Hardware - 18-8 Stainless Steel, 316L Stainless Steel

Plating - RF Connectors

Bodies • Gold Plate per ASTM B488, over Nickel Plate, per SAE AMS-QQ-N-290 or Passivated per SAE AMS 2700
Outer Contacts • Gold Plate per MIL-G-45204, over Nickel Plate per SAE - AMS-QQ-N-290
Center Contacts • Gold Plate per ASTM B488, type II, over Nickel Plate, per SAE AMS-QQ-N-290

Plating - Housing

Housing • Nickel Plate per SAE-AMS-QQ-N-290

Note: Mechanical dimensions are for reference only.
Please contact Delta's engineering or customer
service representatives for production drawings.



Military



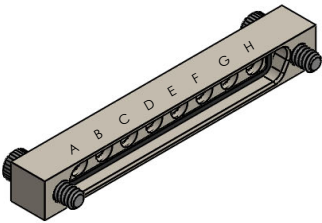
**Launch
Vehicles**



**High Speed
Computing**



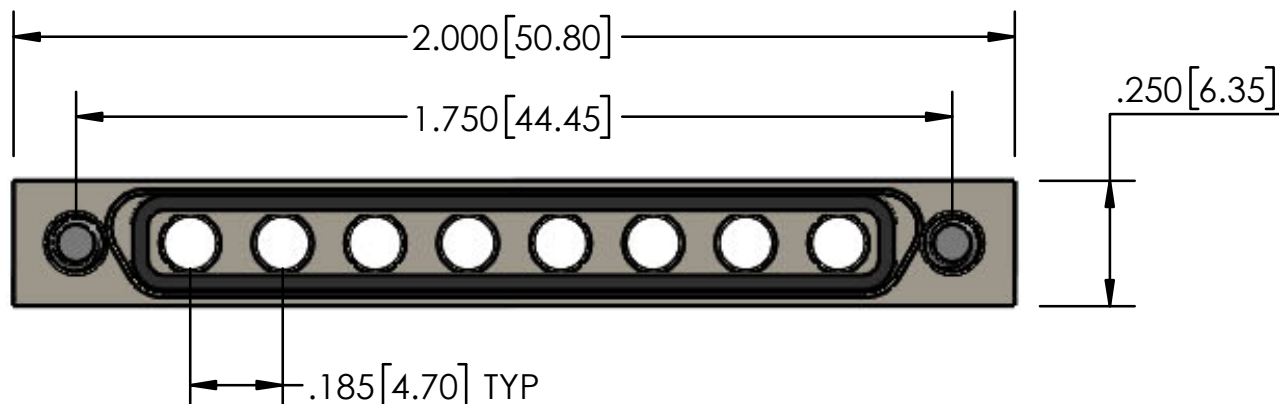
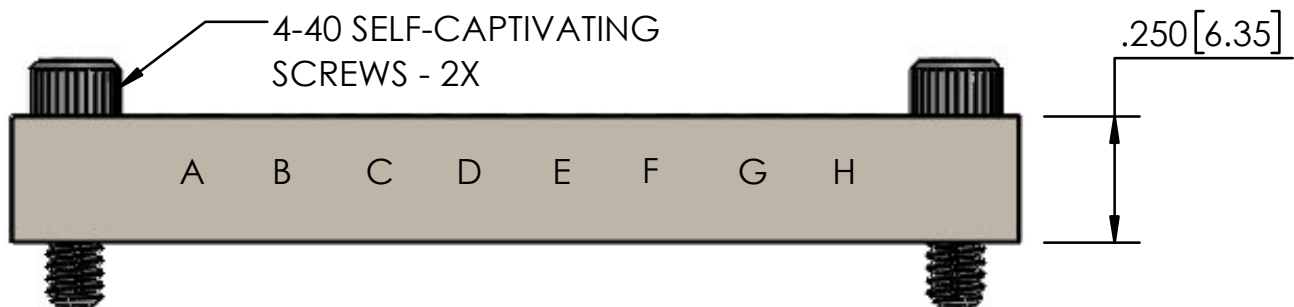
**Radar
Applications**



SMPM-G 21-10459-08 Female Cable Mount

Straight Cable Mount Female, 8 port, with 4-40 UNC Self Captivating Jack Screws. Each port is laser marked for quick identification and the environmentally sealed housing accepts Delta's straight & right angle cable mount SMPM connectors.

Part Number 21-10459-08		Configuration Cable Mount	Cable .047" .086" (RG 405) SR or Flex	Gender Female	Connectors Straight & Right Angle
Product Features					
Housing Material	Brass		Interface Seal Material	Silicone Rubber	
Housing Plating	Nickel		Port Identifiers	Laser Marked A-H	
Hardware Material	Steel		Distance Between Ports	.185"	
Hardware Plating	Passivated		Block Height & Width	.250"	



Gang Mount SMPM-G Female Housing

Cable Mount

Dimensions For 2 Port Thru 8 Port

Distance Between All Ports: .185" TYP Height & Width All Blocks .250" TYP

Delta Part Number	A	B	Ports		Delta Part Number	A	B	Ports
Fig 2 - 21-10459-02	0.890	0.640	2		Fig 6 - 21-10459-06	1.630	1.380	6
Fig 3 - 21-10459-03	1.075	0.825	3		Fig 7 - 21-10459-07	1.815	1.565	7
Fig 4 - 21-10459-04	1.260	1.010	4		Fig 8 - 21-10459-08	2.000	1.750	8
Fig 5 - 21-10459-05	1.445	1.195	5					

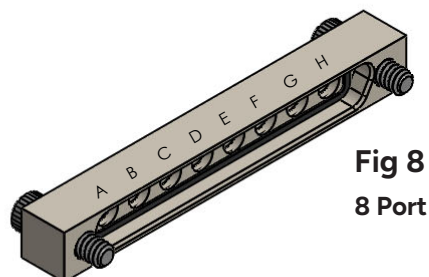
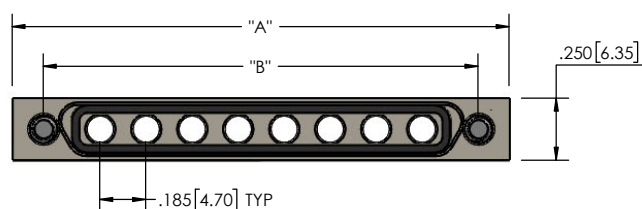


Fig 8
8 Port

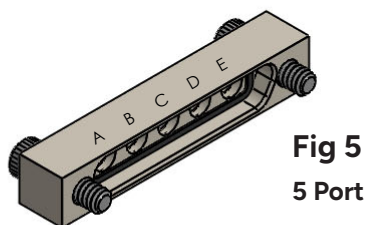


Fig 5
5 Port

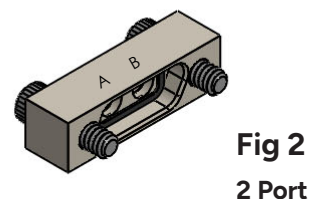


Fig 2
2 Port

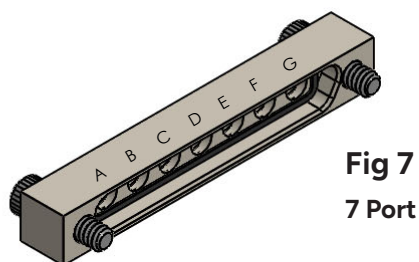


Fig 7
7 Port

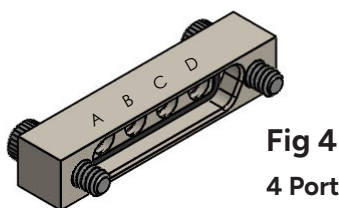


Fig 4
4 Port

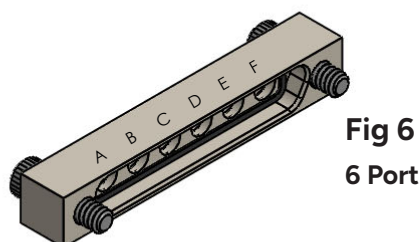


Fig 6
6 Port

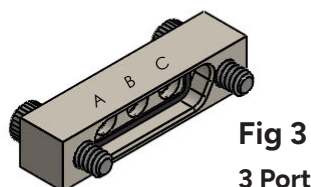
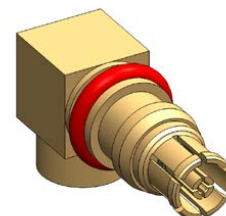
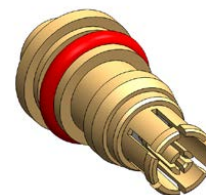
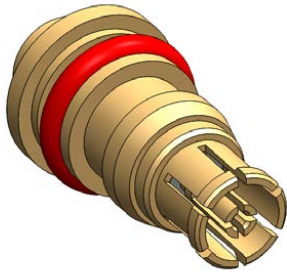


Fig 3
3 Port

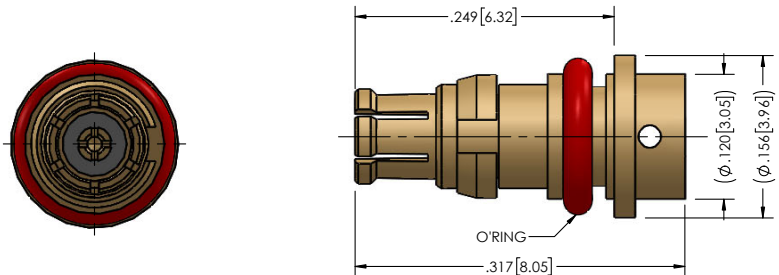
**Straight & Right
Angle SMPM-G RF
Connectors
Pages 8 & 9.**

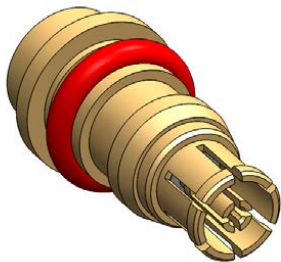




SMPM-G 8808094G003-005

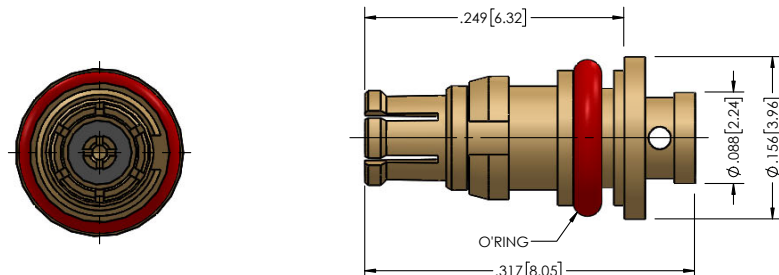
Straight Cable Mount Female for .086" (RG 405) Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10459-08

Part Number 8808094G003-005		Configuration Straight	Cable .086" (RG-405) SR or Flex	CC Termination One-Step (solderless)	OC Termination Direct Solder
Product Features					
Frequency	65 GHz				
CC Gender	Female				
Durability	1000 Cycles				
CC & Body Material	Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				



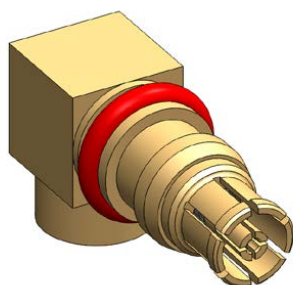
SMPM-G 8808111G003-006

Straight Cable Mount Female for .047" Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10459-08

Part Number 8808111G003-006		Configuration Right Angle	Cable .047" SR or Flex	CC Termination One-Step (solderless)	OC Termination Direct Solder
Product Features					
Frequency	65 GHz				
CC Gender	Female				
Durability	1000 Cycles				
CC & Body Material	Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				

SMPM-G Gang Mount Female Connectors

Right Angle Cable Mount

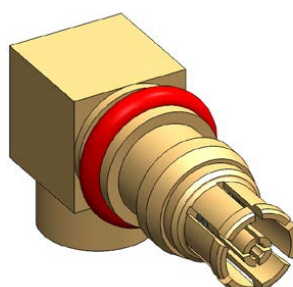


SMPM-G 8876094G003-011

Right Angle Cable Mount Female for .086" (RG 405)

Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10459-08

Part Number 8876094G003-011		Configuration Right Angle	Cable .086" (RG-405) SR or Flex	CC Termination Solder	OC Termination Direct Solder
Product Features					
Frequency	26.5 GHz				
CC Gender	Female				
Durability	1000 Cycles				
CC & Body Material	Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				



SMPM-G 8876111G003-007

Right Angle Cable Mount Female for .047" Semi-Rigid or

the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10459-08

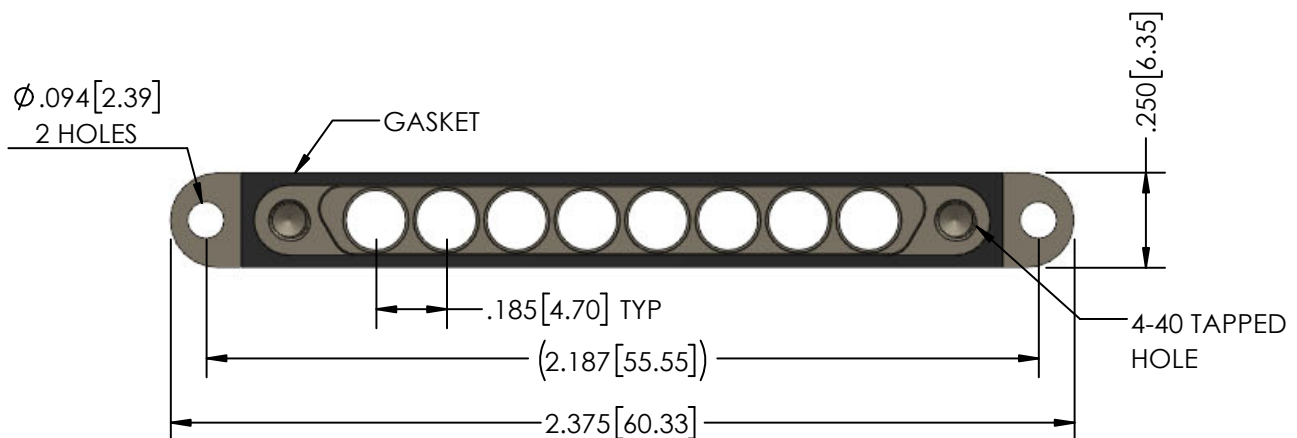
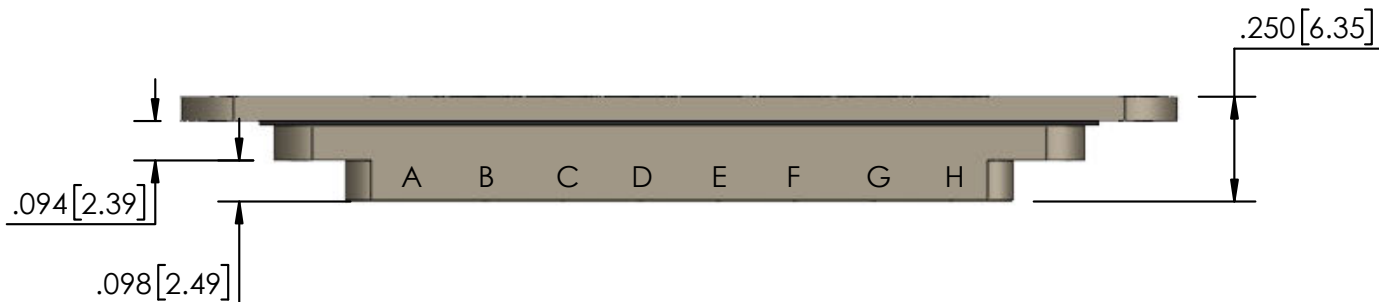
Part Number 8876111G003-007		Configuration Right Angle	Cable .047" SR or Flex	CC Termination Solder	OC Termination Direct Solder
Product Features					
Frequency	26.5 GHz				
CC Gender	Female				
Durability	1000 Cycles				
CC & Body Material	Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				



SMPM-G 21-10460-08 Male Cable Mount

Straight Cable Mount Male, 8 port, with 4-40 UNC-2B thread x .100 Deep, 2 places. Each port is laser marked for quick identification and the environmentally sealed housing accepts Delta's straight & right angle cable mount SMPM connectors.

Part Number 21-10460-08		Configuration Cable Mount	Cable .047" .086" (RG 405) SR or Flex	Gender Male	Connectors Staight & Right Angle
Product Features					
Housing Material	Brass		Interface Seal Material	Silicone Rubber	
Housing Plating	Nickel		Port Identifiers	Laser Marked A-H	
Hardware Material	N/A		Distance Between Ports	.185"	
Hardware Plating	N/A		Block Height & Width	.250"	



Cable Mount SMPM-G Male Housing

Cable Mount

Dimensions For 2 Port Thru 8 Port

Distance Between All Ports: .185" TYP Height & Width All Blocks .250" TYP

Delta Part Number	A	B	Ports		Delta Part Number	A	B	Ports
Fig 2 - 21-10460-02	0.890	0.640	2		Fig 6 - 21-10460-06	1.630	1.380	6
Fig 3 - 21-10460-03	1.075	0.825	3		Fig 7 - 21-10460-07	1.815	1.565	7
Fig 4 - 21-10460-04	1.260	1.010	4		Fig 8 - 21-10460-08	2.000	1.750	8
Fig 5 - 21-10460-05	1.445	1.195	5					

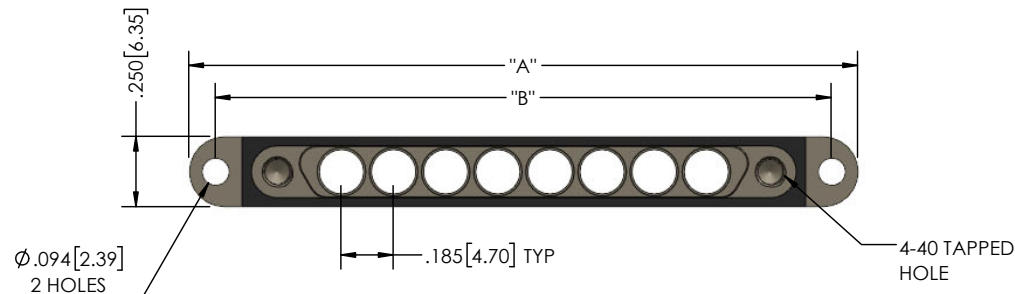


Fig 8
8 Port

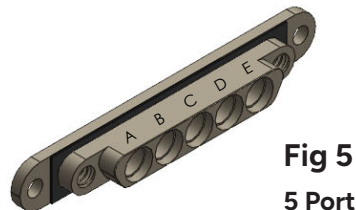


Fig 5
5 Port



Fig 2
2 Port

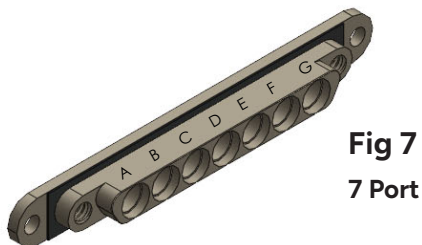


Fig 7
7 Port

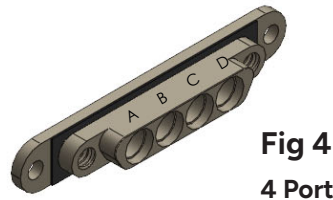


Fig 4
4 Port



Fig 6
6 Port

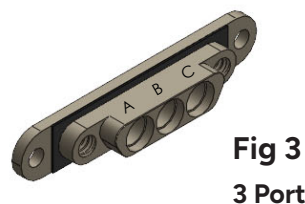
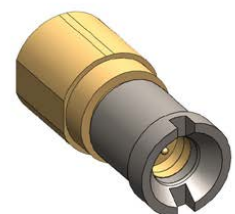
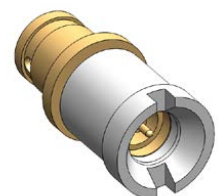
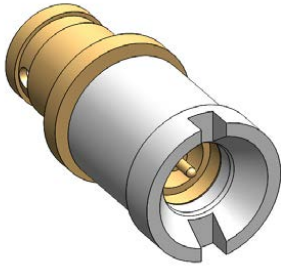


Fig 3
3 Port

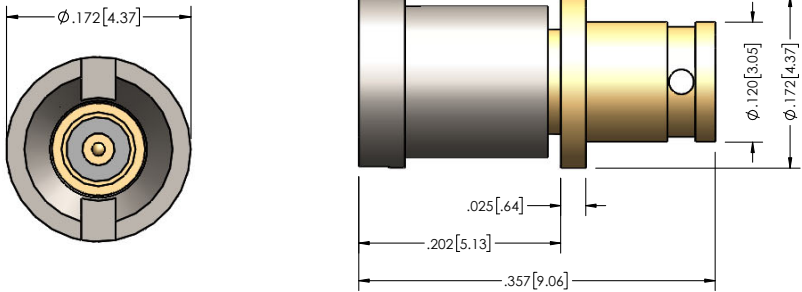
**Straight & Right
Angle SMPM-G RF
Connectors
Pages 12 & 13.**

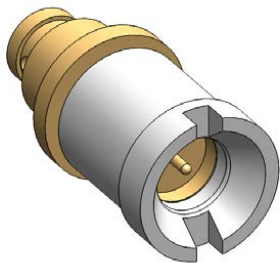




SMPM-T 8801094G003-001

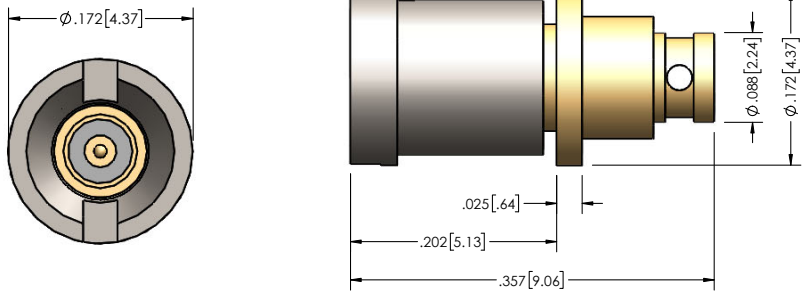
Straight Cable Mount Male for .086" (RG 405) Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10460-08

Part Number 8801094G003-001		Configuration Straight	Cable .086" (RG-405) SR or Flex	CC Termination One-Step (solderless)	OC Termination Direct Solder
Product Features					
Frequency	65 GHz				
CC Gender	Male				
Durability	1000 Cycles				
CC & Body Material	HT Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				
Bushing Material	CRS				



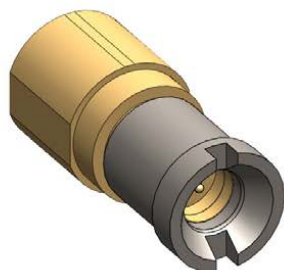
SMPM-T 8801111G003-004

Straight Cable Mount Male for .047" Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10460-08

Part Number 8801111G003-004		Configuration Right Angle	Cable .047" SR or Flex	CC Termination One-Step (solderless)	OC Termination Direct Solder
Product Features					
Frequency	65 GHz				
CC Gender	Male				
Durability	1000 Cycles				
CC & Body Material	HT Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				
Bushing Material	CRS				

SMPM-G Gang Mount Male Contacts

Right Angle Cable Mount



SMPM-T 8872094G903-004

Right Angle Cable Mount Male for .086" (RG 405) Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10460-08

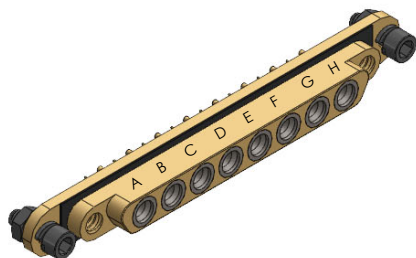
Part Number 8872094G903-004		Configuration Right Angle	Cable .086" (RG-405) SR or Flex	CC Termination Solder	OC Termination Direct Solder
Product Features					
Frequency	40 GHz				
CC Gender	Male				
Durability	1000 Cycles				
CC & Body Material	HT Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				
Bushing Material	CRS				



SMPM-T 8872111G903-000

Right Angle Cable Mount Male for .047" Semi-Rigid or the flexible equivalent, snaps into male cable mount housing, reference Delta housing Part # 21-10460-08

Part Number 8872111G903-000		Configuration Right Angle	Cable .047" SR or Flex	CC Termination One-Step (solderless)	OC Termination Direct Solder
Product Features					
Frequency	40 GHz				
CC Gender	Male				
Durability	1000 Cycles				
CC & Body Material	HT Be Cu				
CC & Body Plating	Gold				
Insulator	PTFE				
Bushing Material	CRS				

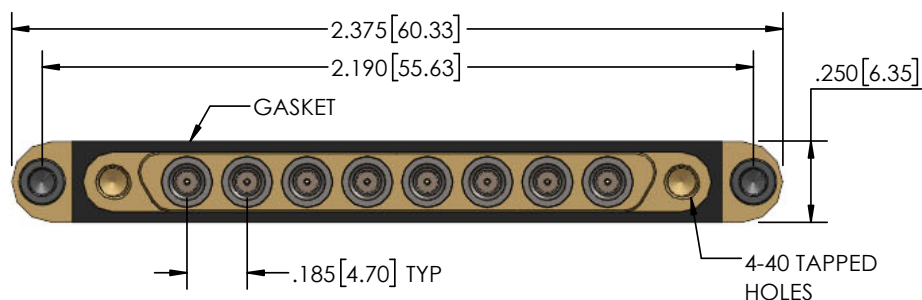
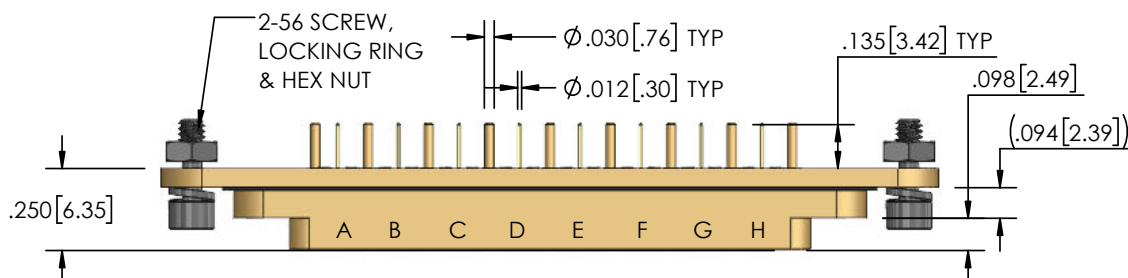


SMPM-G 8869000G91P-049

8 Port PCB Mount

Vertical Launch Male With 4-40 UNC-2B Screws

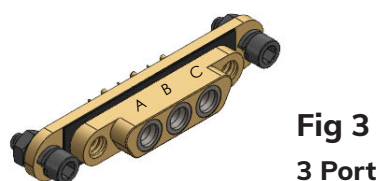
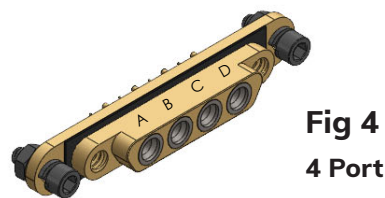
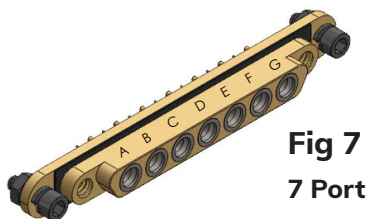
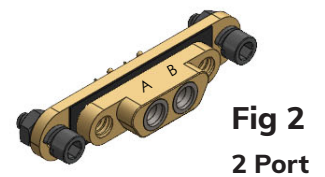
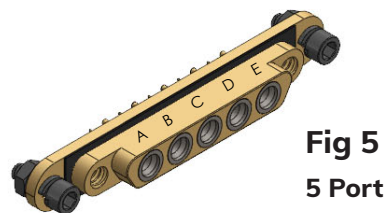
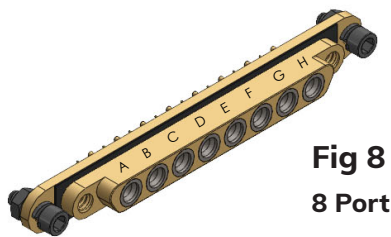
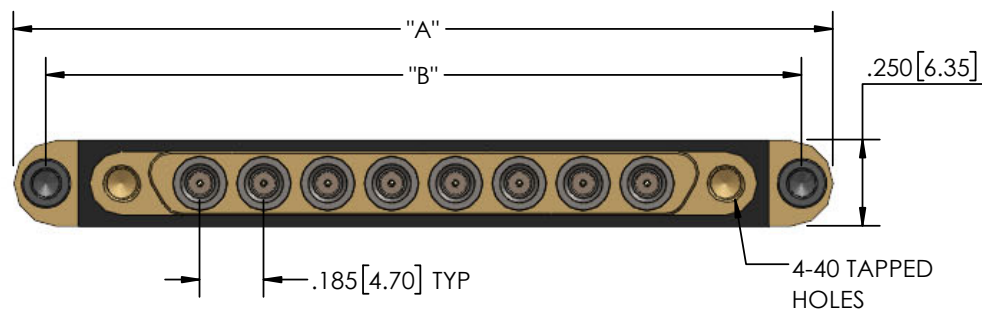
Part Number 8869000G91P-049		Housing Configuration Staight	PCB Mount Vertical Launch	CC Termination Thru Hole	OC Termination Thru Hole
Product Features					
Housing Material	Brass	Interface Seal Material		Silicone Rubber	
Housing Plating	Gold	Port Identifiers		Laser Marked A-H	
Hardware Material	Steel	Distance Between Ports		.185"	
Hardware Plating	Passivated	Block Height & Width		.250"	

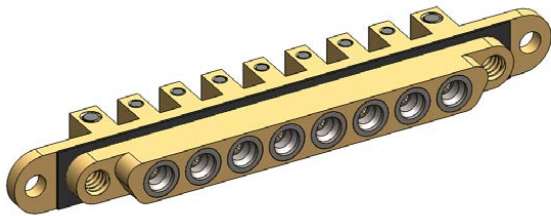


Dimensions For 2 Port Thru 8 Port

Distance Between All Ports: .185" TYP Height & Width All Blocks .250" TYP

Delta Part Number	A	B	Ports	Delta Part Number	A	B	Ports
Fig 2 - 8869000G91P-101	1.265	1.077	2	Fig 6 - 8869000G91P-105	2.005	1.817	6
Fig 3 - 8869000G91P-102	1.450	1.262	3	Fig 7 - 8869000G91P-106	2.190	2.002	7
Fig 4 - 8869000G91P-103	1.635	1.447	4	Fig 8 - 8869000G91P-049	2.375	2.187	8
Fig 5 - 8869000G91P-104	1.820	1.632	5				



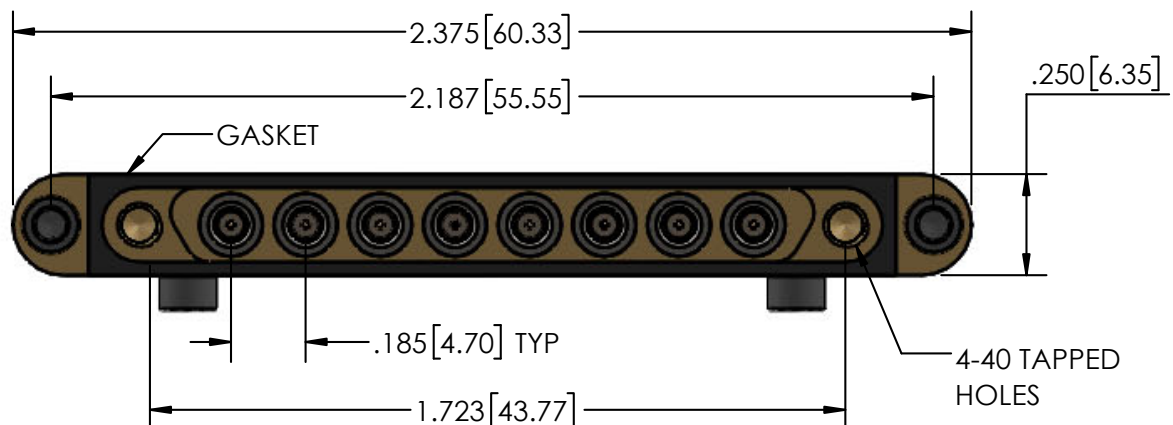
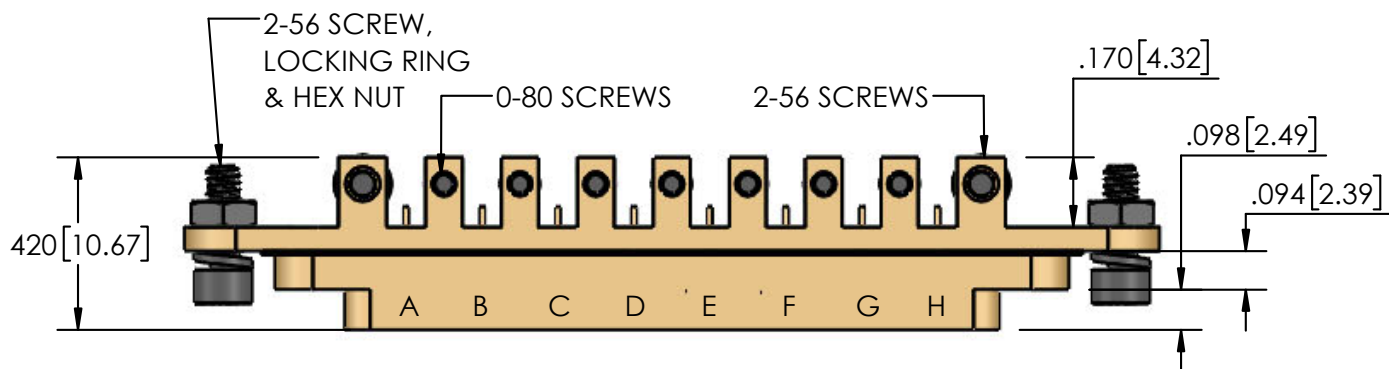


SMPM-G 8869000G91P-048

8 Port PCB Mount

Edge Launch Male With 4-40 UNC-2B Screws

Part Number 8869000G91P-048		Housing Configuration Right Angle	PCB Mount Edge Launch	CC Termination Surface Mount	OC Termination Surface Mount
Product Features					
Housing Material	Brass	Interface Seal Material		Silicone Rubber	
Housing Plating	Gold	Port Identifiers		Laser Marked A-H	
Hardware Material	Steel	Distance Between Ports		.185"	
Hardware Plating	Passivated	Block Height & Width		.250"	



Dimensions For 2 Port Thru 8 Port

Distance Between All Ports: .185" TYP Height & Width All Blocks .250" TYP

Delta Part Number	A	B	Ports	Delta Part Number	A	B	Ports
Fig 2 - 8869000G91P-095	1.265	1.077	2	Fig 6 - 8869000G91P-099	2.005	1.817	6
Fig 3 - 8869000G91P-096	1.450	1.262	3	Fig 7 - 8869000G91P-0100	2.190	2.002	7
Fig 4 - 8869000G91P-097	1.635	1.447	4	Fig 8 - 8869000G91P-048	2.375	2.187	8
Fig 5 - 8869000G91P-098	1.820	1.632	5				

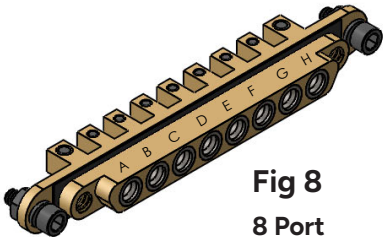
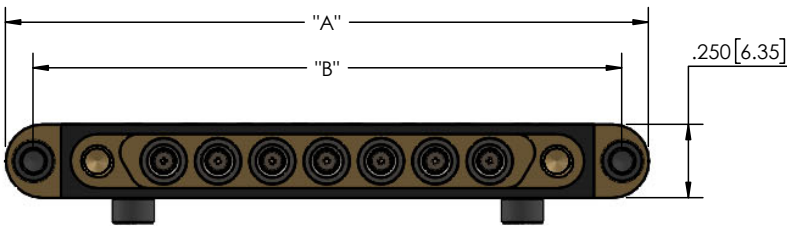


Fig 8
8 Port

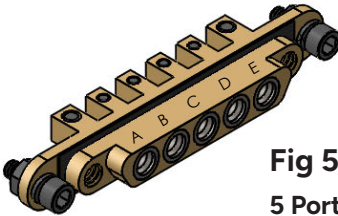


Fig 5
5 Port

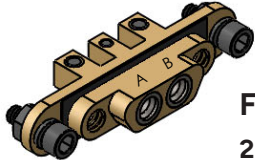


Fig 2
2 Port

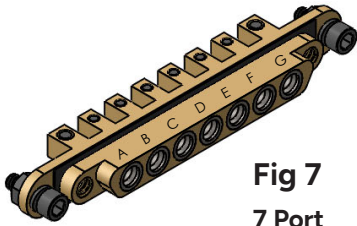


Fig 7
7 Port

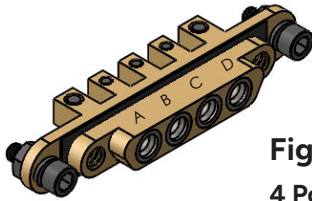


Fig 4
4 Port

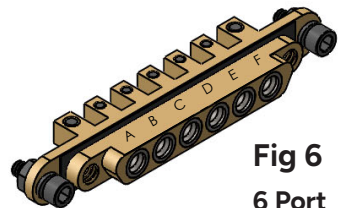


Fig 6
6 Port

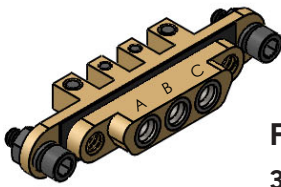
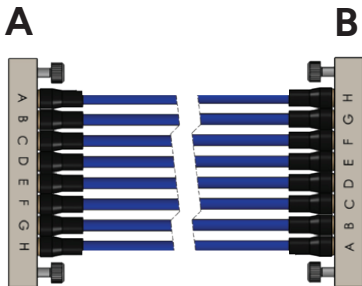
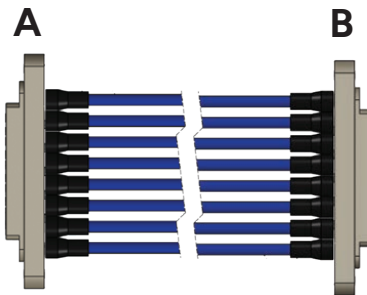


Fig 3
3 Port

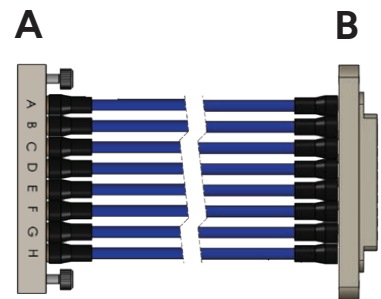
Build Your Own SMPM-G Assembly



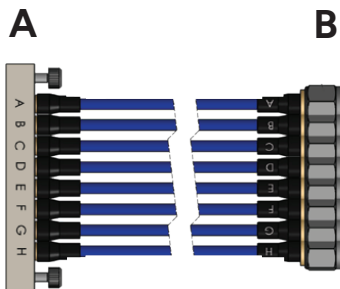
Configuration 1
Female to Female



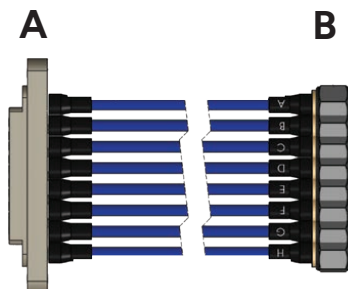
Configuration 2
Male to Male



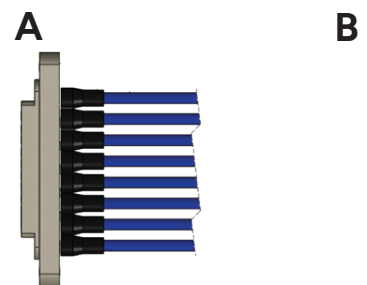
Configuration 3
Female to Male



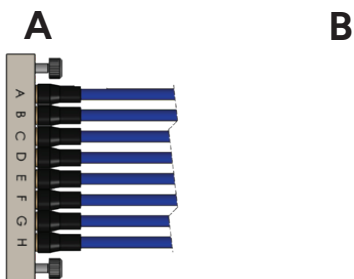
Configuration 4
Female to Discrete RF



Configuration 5
Male to Discrete RF



Configuration 6
Male to Blunt Cut



Configuration 7
Female to Blunt Cut





Build Your Own SMMP-G Cable Assembly

Configuration # _____

Ports Per Housing
Housing A: ____ B: ____

Begin a Cable Gang Mount 

Choose Configuration On Left

1. F - F
2. M - M
3. F - M
4. F - Discrete RF
5. M - Discrete RF
6. M - Blunt Cut
7. F - Blunt Cut

Choose From 2 to 8 Port Housing A & B: 

Choose Connector Options

Select Connector
Housing A: ____
Housing B: ____

C1 Straight Female
C2 R/A Female
C3 Straight Male
C4 R/A Male
C5 Other

Define length of assembly in inches, from the end of the straight connectors & from the centerline of R/A connectors

Choose Length of Cable 

Selects Cable Type _____

Choose Cable Type

Flex SR  Semi-Rigid 

Choose .047"  .086"

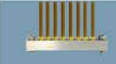
Select Cable Diameter _____

Provide Target Return Loss or VSWR Max. Frequency

VSWR

Insertion Loss

Choose Frequency Requirements DC-65 GHz

Shrink Sleeves 

Shrink Sleeve Markings 

A Delta Finished Customized Gang Mount Cable Assembly 

Labels & Identification Circle Your Choices

Connector A Shrink Tubing	Yes - .500"	No Tubing
---------------------------	-------------	-----------

Add Marking:

Connector B Shrink Tubing	Yes - .500"	No Tubing
---------------------------	-------------	-----------

Add Marking:

Center Label, .750"	Yes - .750"	No Tubing
---------------------	-------------	-----------

Add Marking:

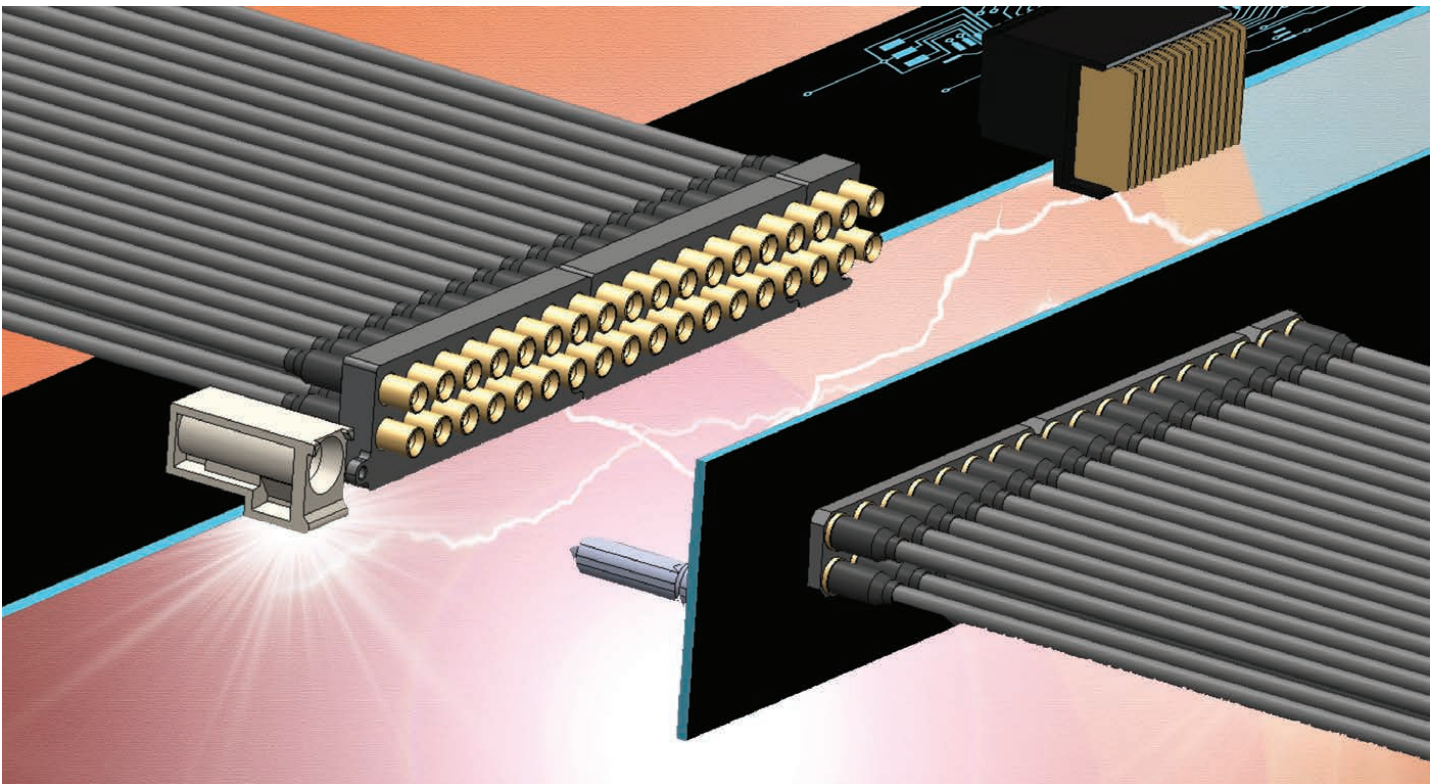
SMP-G, SMPM-G and SMP3-G Cable Assemblies



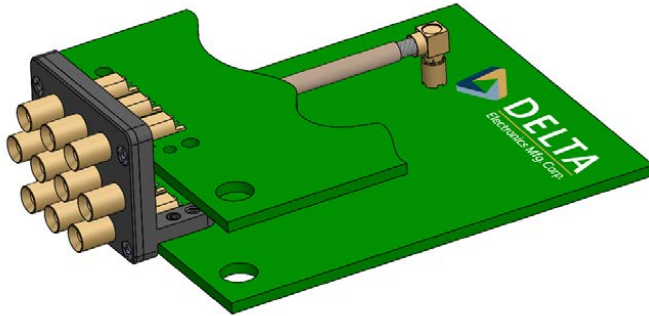
Delta offers custom RF cables with either .047" or .086" semi-rigid or the flexible equivalents. Lower loss cable options, with VoP's up to 83%, may also be available for specific configurations.

Insertion loss, return Loss, phase and delay measurements are available up to 65 GHz.

Delta's cable assembly technicians are trained to IPC-A-620 and J-STD-001 inspection and soldering.

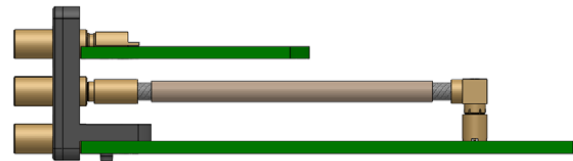
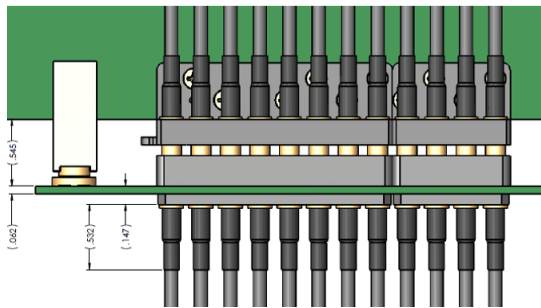


SMP-G, SMPM-G and SMP3-G PCB Board Mounts



VITA 67.3 offers a new design option where you now can launch directly from the Plug-In Connector Module directly to a PCB.

The concept shown includes an example of two PCB options: Direct to PCB using edge launch or cables.



In addition to SMPM-G, Delta provides ganged RF solutions using the SMP and SMP3 interfaces. Housings are standardized with 2, 3, 4, 5, 6, 7, and 8 port designs. Critical interface dimensions meet Mil-STD-348, DSCC 94007, 94008, IEC 61169-60 and IEC 61169-44 industry specifications as applicable.

Custom configurations can be designed for all ganged series including SMP-G, SMPM-G and SMP3-G with up to four rows and SMP port counts up to 16, SMPM port counts up to 32 and SMP3 port counts up to 64. From a dimensional perspective, the center-to-center spacing of ports for an SMP-G is .240", the SMPM-G is .185" and the SMP3-G is .098".

Delta's hyper-responsive engineering team will customize mechanical layouts for varying board thicknesses, unique footprints, custom cable designs and extreme mechanical, electrical or environmental requirements.

Vita 67.1, 67.2 and 67.3 Housings and SMPM connector designs are also available with many configurations already stocked with Delta's franchised distributors.

SMPM-G Cable Options



Cable Options

Mechanical	.040"	.047"	.086"
Center Conductor	.008"	.011"	.020"
Dielectric	.026"	.036"	.064"
Braid	.034"	.047"	.085"
Outer Jacket	.045"	.056"	.104"
Static Bend Radius	1.6mm	5mm	6.35mm
Dynamic Bend Radius	3.2mm	10mm	12.7mm
Materials	.040"	.047"	.086"
Center Conductor	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper
Dielectric	PTFE	PFA	PTFE
Inner Shield	Flat SPC	Flat SPC	Flat SPC
Outer Shield	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper
Outer Jacket	FEP	FEP	FEP
Electrical	.040"	.047"	.086"
Operating Frequency	110 GHz	50 GHz	40 GHz
Impedance	50 Ω	50 Ω	50 Ω
VoP (%)	71.00%	70.00%	70.00%
Shielding Effectiveness	> 90 dB	> 90 dB	> 90 dB
Attenuation dB/ft			
1.0 GHz	0.60	0.35	0.21
2.0 GHz	0.86	0.53	0.31
8.0 GHz	1.74	1.15	0.66
12 GHz	2.14	1.44	0.83
18 GHz	2.64	1.85	1.06
26 GHz	3.18	2.22	1.34
40 GHz	3.96	2.83	1.73
50 GHz	4.44	3.20	
60 GHz	4.88		
Environmental			
Operating Temp Range	-65° C to + 150° C	-65° C to + 150° C	-55° C to + 125° C

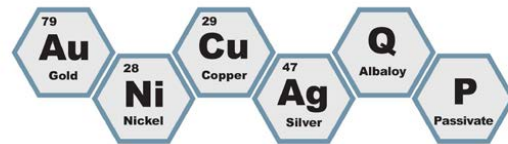
**All specifications for reference only*

Delta Vertical Integration In-house Automated Precious Metal Plating

Connectors are only as good as their plating, and that's why we decided this important process needed to be on-site. Having our own plating line, yields high quality, low costs, and reduced lead times. Call Delta for your electroplating needs. We also encourage current and potential customers to tour our facility.



Delta Plating Finishes:



Automated Tin/Lead Dipping For SMP-T, SMPM-T & SMP3-T

Our customized automated tin/lead dipping equipment enables high volume processing of our SMP-T, SMPM-T and SMP3-T PCB mount configurations. The finished connector is of high quality, with a consistent tin/lead flowed finish. Experience the Delta Difference!

Spring Loaded Bullets

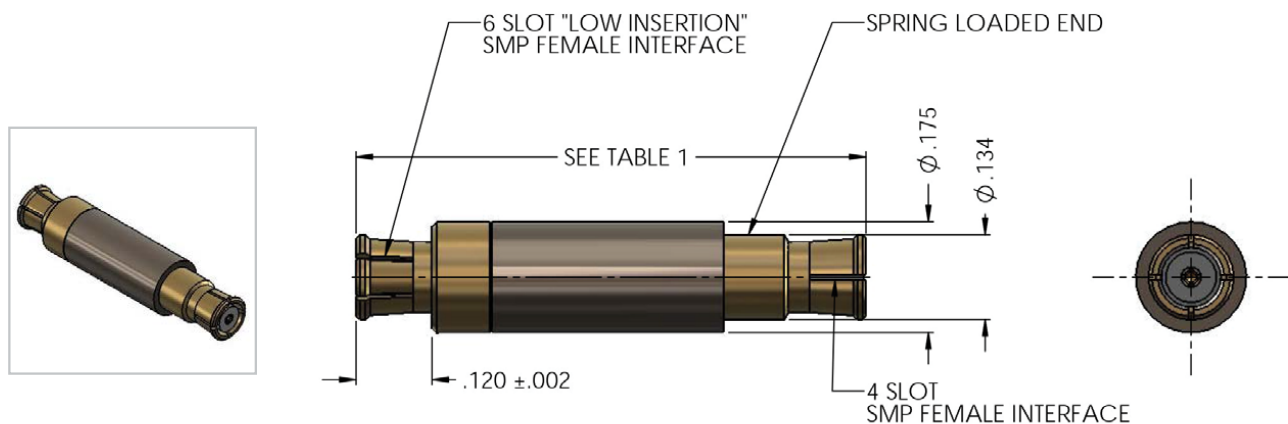
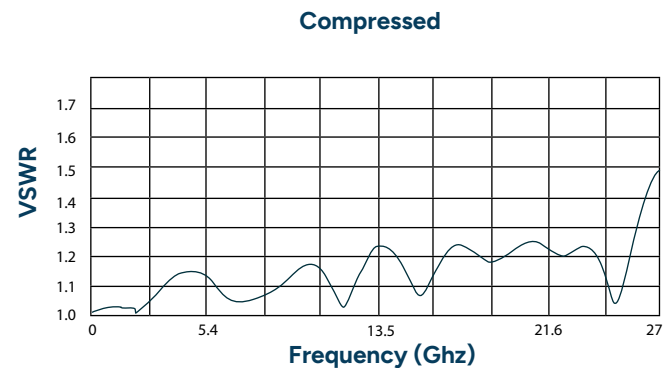
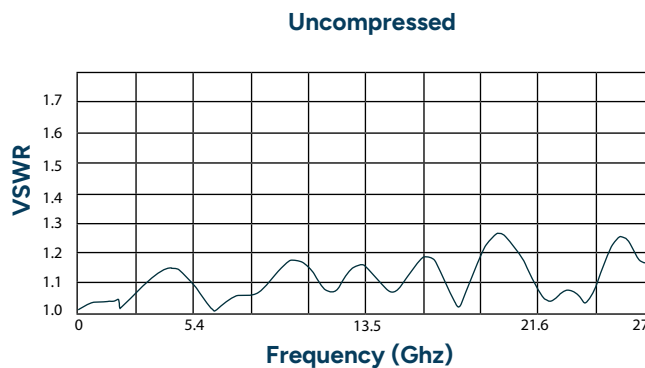
Feature:

- Increased axial & radial float
- One side has as a low insertion SMP interface
- High compression load on interfaces

Benefit:

- Enhanced self alignment during mating
- Consistently un-mate from the same end
- Improved VSWR at higher frequencies

VSWR



VSWR: 1.5:1 Max

Frequency Range: DC - 26.5 GHz

Float: Axial .075 / Radial .015

Delta Part Number	Uncompressed Length	Fully Compressed Length
8628000G911-005	1.075	1.000
8628000G911-005	.675	.600

Please contact the factory for additional lengths.

8628000G911 - XXX

Spring Loaded Female to Female "Bullet" Adapter

SMP / SMPM / SMP3 Bullets

Delta's Bullet Adapters

Ideal for board-to-board mechanical schemes, Delta's Bullet Adapters make the connections and accommodate varying board-to-board stack heights.

Available in fixed lengths and spring loaded configurations.

Call Delta today to find the perfect fit! 978-927-1060 or email sales@deltarf.com.



SMPM-G Tooling



BASE TOOL

T38-88006-01



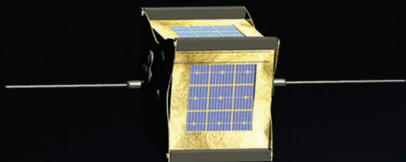
EXTRACTION HEAD



INSERTION HEAD



T33-88001-01



Gang Mounts

SMP

SMPM

SMP3



978-927-1060 | sales@deltarf.com | deltarf.com

416 Cabot Street, Beverly, MA 01915