

2.92mm

2.4mm

SMA

SSMA

MCX

MMCX

Type "N"

TNC

BMA

BMAM

SMP

SMPM

SMPSM

Cable
Assemblies

RF Microwave Connectors and Cable Assemblies

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BLANK

Since our founding in 1985, Dynawave has been a leader in the design and manufacture of high quality, standard and special, RF and microwave DC-60 GHz connectors, adapters, blindmate interconnecting components and cable assemblies. Today we continue to bring new ideas to the defense industry as well as the commercial microwave, RF and wireless industries. We have built respect through dynamic engineering capabilities and the follow through from design to manufacture. Dynawave's state-of-the-art 45,000 sq. ft. engineering, machining and manufacturing facility is certified to ISO 9001. Our knowledgeable workforce is dedicated to excellence, innovation and continuous improvement. This allows us to meet or exceed the electrical, mechanical and environmental requirements of our most demanding customers.

Please contact us with your application, and allow us to provide you a precise solution

WE OFFER THE BROADEST LINE OF PRODUCTS

STANDARD CONNECTORS

2.92mm (DC-40.0 GHz.)
2.4mm (DC-50.0 GHz.)
SMA (DC-26.5 GHz.)
SSMA (DC-46.0 GHz.)
MCX (DC-6.0 GHz.)
MMCX (DC-6.0 GHz.)
Type "N" (DC-18.0 GHz.)
TNC (DC-18.0 GHz.)
In Series Adapters
Between Series Adapters
Specials

BLINDMATE CONNECTORS

BMA (DC-26.5 GHz.)
BMAM (DC-38.0 GHz.)
SMP (DC-40.0 GHz.)
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Semi-Rigid Cable Types
(DC-36.0 GHz.)

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Semi Rigid (DC-50.0 GHz.)
Flexible (DC-40.0 GHz.)
Conformable (DC-50.0 GHz.)
Low Loss (DC-40.0 GHz.)
Delay Line
Harness

ACCESSORIES

Glass Feed Throughs
Tab Contacts
Slotted Contacts
Tools



Our Engineers Are Your Partners

Balancing reliability with performance and cost is what our design engineers do best. They work with you, at no cost, to deliver complete computer generated documentation packages for solutions to your design challenges. We also have an extensive CAD-CAM machine shop devoted to support fast-turn prototypes, this is in addition to the major machining centers that support our standard production of components. Our engineers will personally stay with your project from concept and design through manufacturing and delivery, for the life of your product. Whether your need is outsourcing of an existing design or total design of a new application, our engineering team is always available to provide solutions and support.

Quality Manufacturing

We do not believe in following; we believe in leading. By designing a manufacturing environment that encompasses process control and focused work centers we can apply the most modern manufacturing methods to insure the highest quality, product integrity and cost effectiveness available today. This is accomplished through a dedicated and knowledgeable work force with over 20 years experience and a commitment to excellence, innovation, continuous improvement and ISO 9001 standards. From our CNC machining processes to our automated assembly operations we are committed to invest in the latest manufacturing technologies that insure the most efficient processes while maintaining an excellence of quality.



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Introduction

Customer Service

QUOTING PROCEDURE

Quotes may be requested through our sales representative in your area or direct from our sales department in Haverhill, Massachusetts. Please provide the Dynawave part number and quantity. Quotes may also be requested by customer part number or verbal description. A customer drawing may be required.

ORDERING INFORMATION

Orders may be placed with our sales representative in your area or direct to our sales department in Haverhill, Massachusetts. When ordering, specify the Dynawave part number and description of the item. The minimum order requirement is \$250. Terms are net 30. Dynawave accepts Visa, MasterCard and American Express. Shipping charges are F.O.B. Haverhill, Massachusetts. Dynawave will ship UPS Ground with shipping charges added to the invoice unless otherwise requested. No returns will be accepted without prior authorization from Dynawave.

WARRANTY

The seller warrants that, at the time of shipment, the products manufactured by the seller are free from defects in material and workmanship. The seller's obligation under this warranty is limited to replacement or repair of such products within one year from the date of shipment. The seller is in no event liable for consequential damages, installation cost or other costs of any nature as a result of the use of the products manufactured by the seller, whether used in accordance with instructions or not. This warranty is in lieu of all others, either expressed or implied including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. No representative is authorized to assume for the seller any other or additional liability in connection with the seller's products.



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BETWEEN SERIES ADAPTERS

To use this Between Series Selection Chart, Identify the Adapter combination of your choice in the Horizontal and Vertical columns and follow them to their intersecting point which will list their page number(s).

	SMA	SSMA	SMP	SMPM	SMPSM	BMA	BMAM	2.4mm	2.92mm	"N"	TNC	MCX	MMCX	7mm
SMA	42/43	244	245	246	----	247	248	249	250	251	252	257	258	266
SSMA	244	62	253	254	----	----	----	255	256	----	----	----	----	----
SMP	245	253	90/91	259	----	----	----	----	260	----	----	----	----	----
SMPM	246	254	259	109	----	----	----	261	----	----	----	----	----	----
SMPSM	----	----	----	----	122	----	----	----	----	----	----	----	----	----
BMA	247	----	----	----	----	----	262	----	----	----	----	----	----	----
BMAM	248	----	----	----	----	262	----	----	----	----	----	----	----	----
2.4mm	249	255	----	261	----	----	----	163/165	263	----	----	----	----	----
2.92mm	250	256	260	----	----	----	----	263	175/177	----	----	----	----	----
"N"	251	----	----	----	----	----	----	----	----	192	264	----	----	268
TNC	252	----	----	----	----	----	----	----	----	264	205	----	----	267
MCX	257	----	----	----	----	----	----	----	----	----	----	216	265	----
MMCX	258	----	----	----	----	----	----	----	----	----	----	265	228	----
7mm	266	----	----	----	----	----	----	----	----	268	261	----	----	----



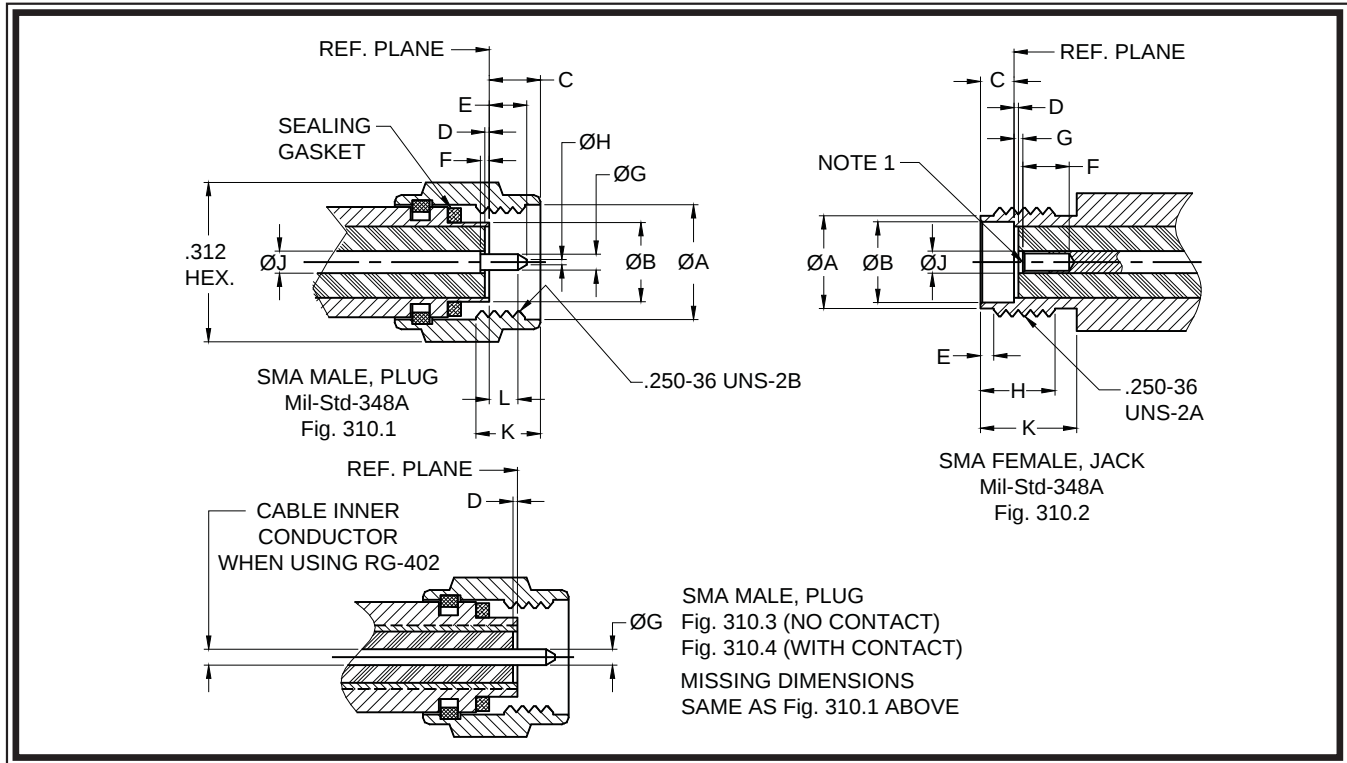
sma



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sma • interface dimensions



male, plug

LTR.	INCHES/MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.250	6.35	-----	-----
B	-----	-----	.1808	4.59
C	-----	-----	.135	3.43
D*	.000	0.00	.010	0.25
E	-----	-----	.100	2.54
F**	.010	0.25	.000	0.00
G	.0355	0.90	.0370	0.94
H	-----	-----	.015	0.38
J	.049	1.24	.051	1.30
K	.130	3.30	-----	-----
L	.050	1.27	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.208	5.28	.216	5.49
B	.1810	4.60	-----	-----
C	.074	1.88	.078	1.98
D*	.000	0.00	.010	0.25
E	.015	0.38	.045	1.14
F**	.115	2.92	-----	-----
G	.010	0.25	.000	0.00
H	.170	4.32	-----	-----
J	.049	1.24	.051	1.30
K	.218	5.54	-----	-----
L	-----	-----	-----	-----

* Dielectric Insulator Gap measured from connector body reference plane .000 inches maximum above (flush) to .010 inches maximum below.

**Center Contact Gap measured from connector body reference plane .000 inches maximum above (flush) to .010 maximum below.

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0370 / .0355 Dia. inches (0.94 / 0.90) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

sma specifications

The specifications below are general specifications for all SMA connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

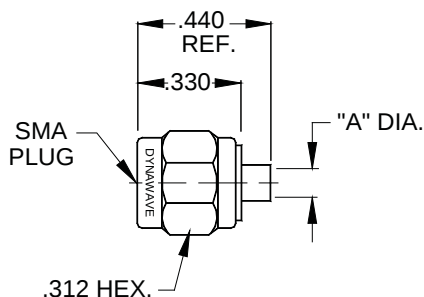
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM-A-581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 1,000 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 670 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 3.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage inch-pounds.	3.5.1	The torque required to engage and disengage shall not exceed 2 The longitudinal force is not applicable
Coupling Nut Retention Force is and Proof Torque.	3.25	Not applicable for Female connectors. For Male connectors, the retension force 100 pounds minimum. The Proof torque is 15 inch-pounds minimum.
Cable Retention force requirements shall not apply.	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending
Mating Characteristics size	3.7	See interface dimensions shown on Page 10. Applicable to Females only: over-pin .0372 minimum diameter .045 deep; Insertion force 3 pounds maximum with .0375 minimum diameter pin; withdrawal force 1 ounce minimum with .0355 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock ture	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be + 200°C.
Recommended Mating Torque		7-10 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 250 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

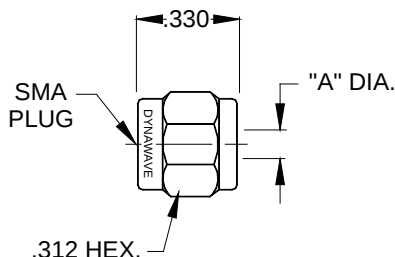
sma • semi rigid cable connectors

male, plug, straight, with center contact



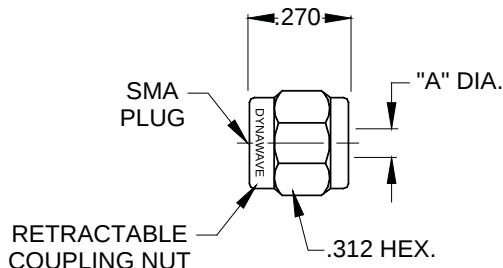
PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9800-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 26.5 GHz.
9800-4120-2401	.144 MIN.	RG 402/U (.141)	BRASS	DC - 26.5 GHz.
9800-8520-6246	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9800-4120-6244	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9800-8520-6446	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9800-4120-6444	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, straight, low profile with center contact



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9800-8520-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.

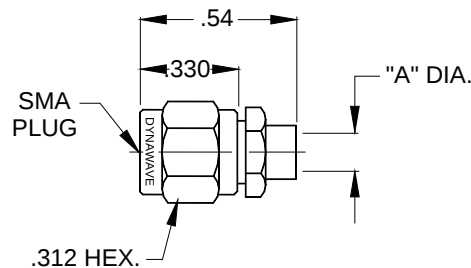
male, plug, straight, low profile, without center contact



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9800-4120-6241	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9800-4426-6243	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9800-4426-6443	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

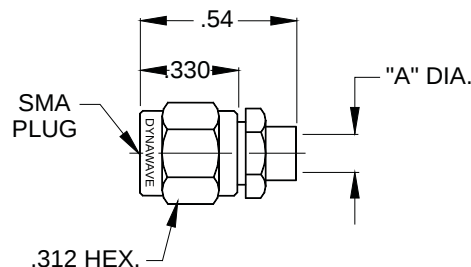
sma • semi rigid cable connectors

male, plug, straight, anti-torque, with center contact



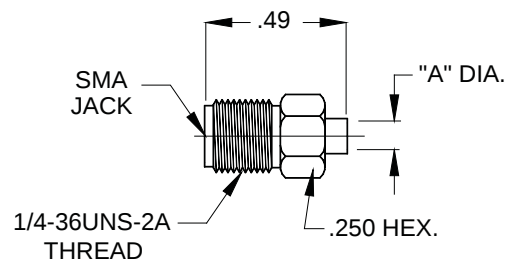
PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9800-9086-6244	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9800-9086-6444	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9800-9141-6244	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9800-9141-6444	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, straight, anti-torque, without center contact



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9800-9141-6240	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9800-9141-6440	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, straight

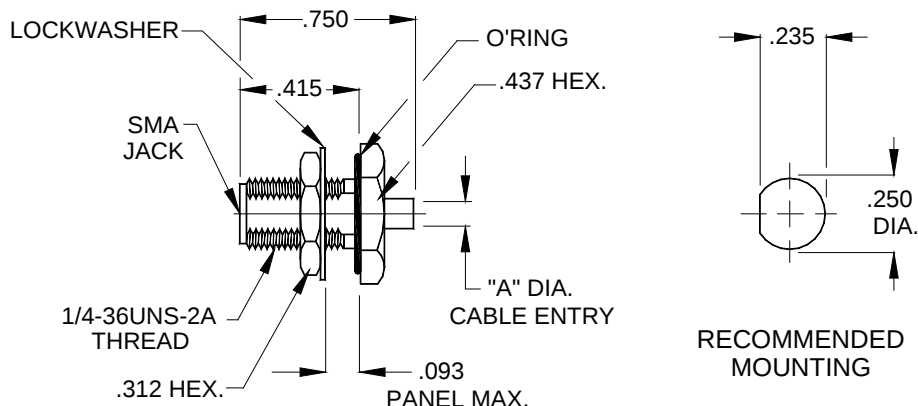


PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9900-4721-6400	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9900-8520-6401	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9900-4120-6444	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

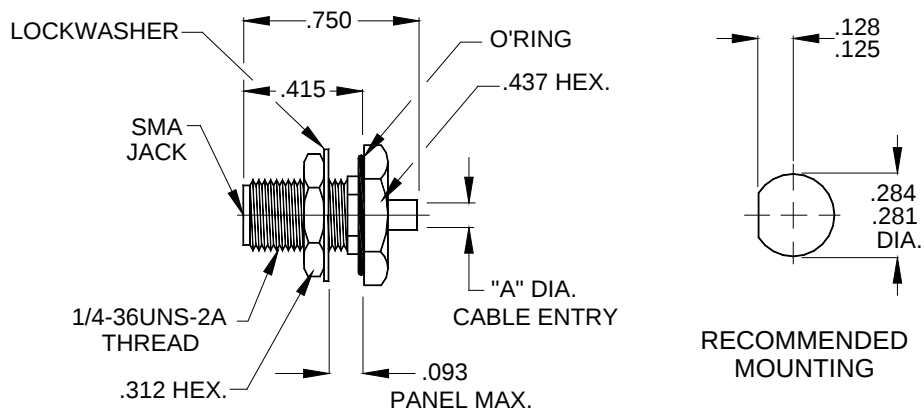
sma • semi rigid cable connectors

female, jack, bulkhead mount



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9910-4720-6403	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9910-8520-6403	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9910-4120-6403	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, bulkhead mount



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9910-4720-6401	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9910-8520-6401	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9910-4120-6401	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

sma • semi rigid cable connectors

female, jack, flange mount, captured contact

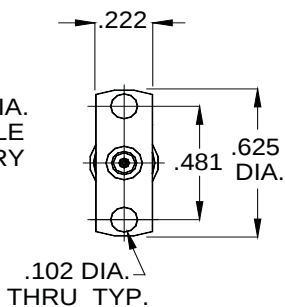
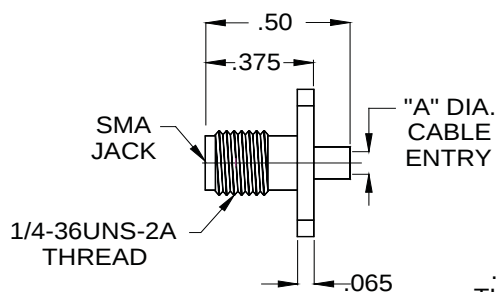


Fig. 1

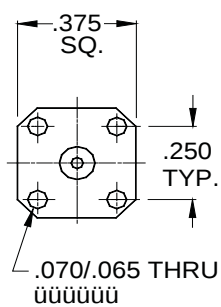


Fig. 2

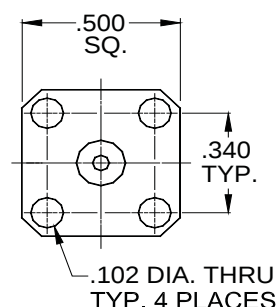


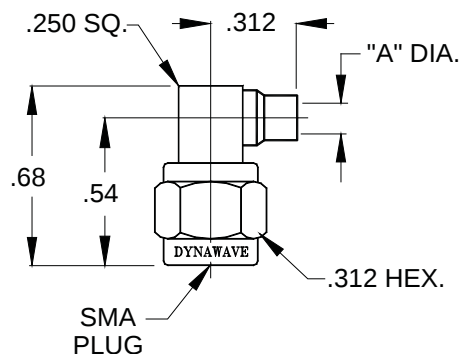
Fig. 3

PART NUMBER	Fig.	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RAN
9952-4721-2400	1	.052 MIN.	.047 SEMI-RIGID	BRASS	DC - 26.5 GHz.
9952-4721-6401	1	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9952-8521-2440	1	.089 MIN.	RG 405/U (.085)	BRASS	DC - 26.5 GHz.
9952-8521-6440	1	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9952-4121-2400	1	.144 MIN.	RG 402/U (.141)	BRASS	DC - 26.5 GHz.
9952-4121-6400	1	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9954-4721-2401	2	.052 MIN.	.047 SEMI-RIGID	BRASS	DC - 26.5 GHz.
9954-4721-6401	2	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9954-8521-2441	2	.089 MIN.	RG 405/U (.085)	BRASS	DC - 26.5 GHz.
9954-8521-6441	2	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9954-4121-2401	2	.144 MIN.	RG 402/U (.141)	BRASS	DC - 26.5 GHz.
9954-4121-6401	2	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.
9954-4721-2402	3	.052 MIN.	.047 SEMI-RIGID	BRASS	DC - 26.5 GHz.
9954-4721-6400	3	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
9954-8521-2442	3	.089 MIN.	RG 405/U (.085)	BRASS	DC - 26.5 GHz.
9954-8521-6400	3	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.
9954-4121-2402	3	.144 MIN.	RG 402/U (.141)	BRASS	DC - 26.5 GHz.
9954-4121-6400	3	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 26.5 GHz.

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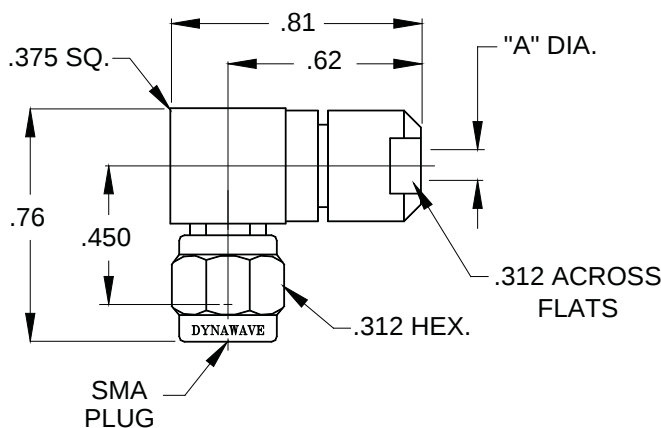
sma • semi rigid cable connectors

male, plug, right angle



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9801-8520-2401	.089 MIN.	RG 405/U (.085)	BRASS	DC - 12.5 GHz.
9801-8521-6212	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 12.5 GHz.
9801-4120-2400	.144 MIN.	RG 402/U (.141)	BRASS	DC - 12.5 GHz.
9801-4121-6212	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 12.5 GHz.

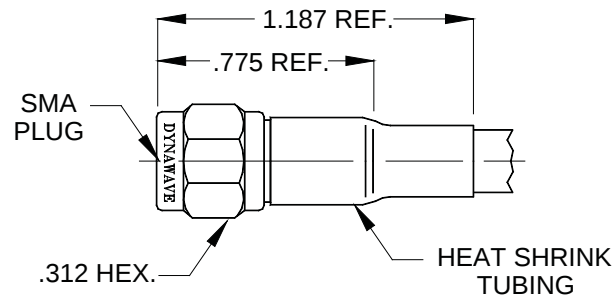
male, plug, right angle, solder clamp



PART NUMBER	"A DIA."	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9801-8540-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
9801-4140-6200	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

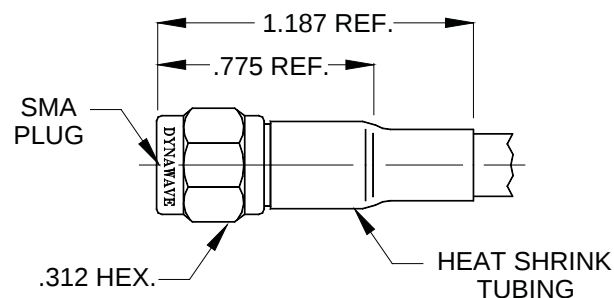
sma • flexible cable connectors

male, plug, straight, crimp attachment
rg 174/u, 179, 187, 188, 316



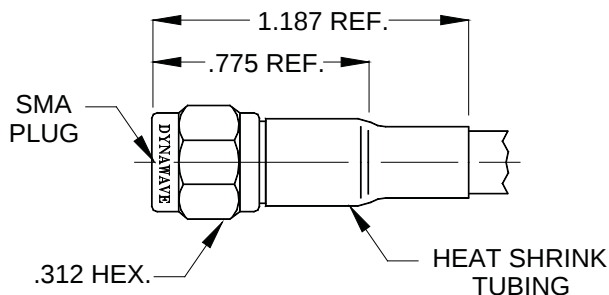
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9800-1630-2301	BRASS	DC - 3.0 GHz.
9800-1630-6200	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, straight, crimp attachment
rg 316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9800-1830-2300	BRASS	DC - 12.4 GHz.
9800-1830-6200	STAINLESS STEEL	DC - 12.4 GHz.

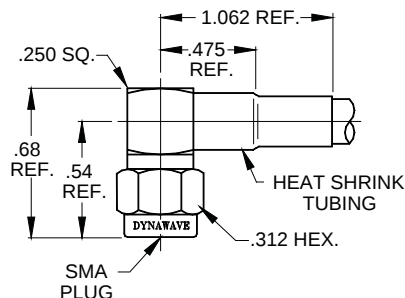
male, plug, straight, crimp attachment
rg 58/u, 142, 223, 400



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9800-4230-2300	BRASS	DC - 12.4 GHz.
9800-4230-6441	STAINLESS STEEL	DC - 12.4 GHz.

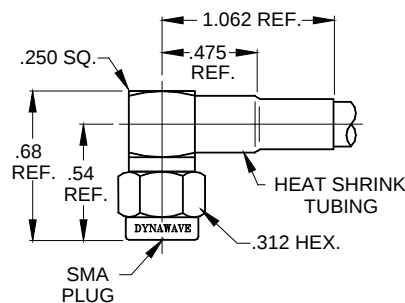
sma • flexible cable connectors

male, plug, right angle, crimp attachment
rg 174/u, 179, 187, 188, 316



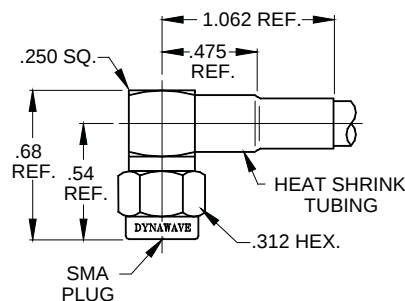
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9801-1630-2400	BRASS	DC - 3.0 GHz.
9801-1630-6440	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg 316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9801-1830-2400	BRASS	DC - 12.4 GHz.
9801-1830-6200	STAINLESS STEEL	DC - 12.4 GHz.

male, plug, right angle, crimp attachment
rg 58/u, 142, 223, 400

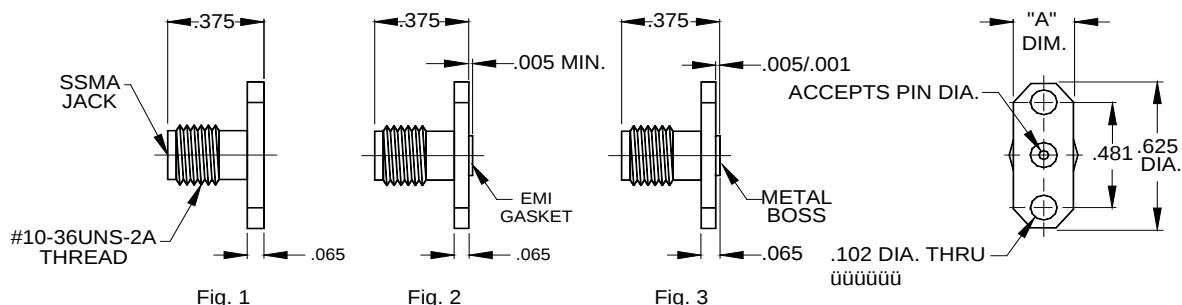


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
9801-4230-2300	BRASS	DC - 12.4 GHz.
9801-4230-6200	STAINLESS STEEL	DC - 12.4GHz.

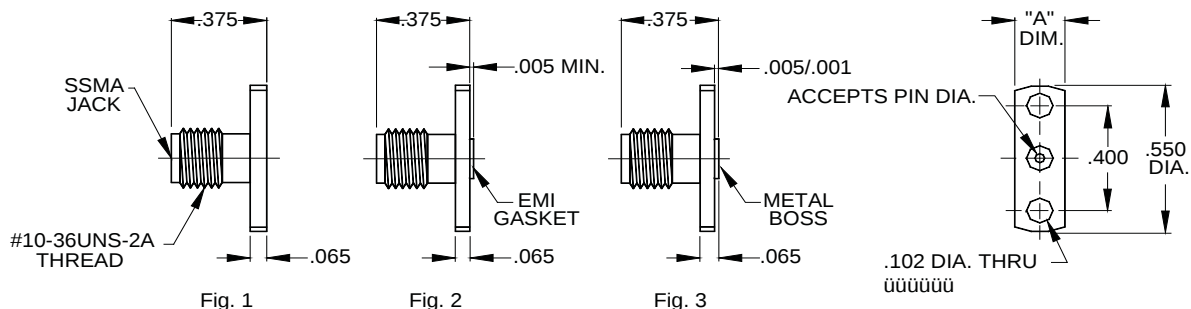
Specifications are subject to change without notice

sma • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9952-0081-6215	1	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6215	2	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6215	3	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0081-6220	1	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6220	2	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6220	3	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0081-6236	1	.037/.035	.222	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6236	2	.037/.035	.300	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6236	3	.037/.035	.222	STAINLESS STEEL	DC - 26.5 GHz.

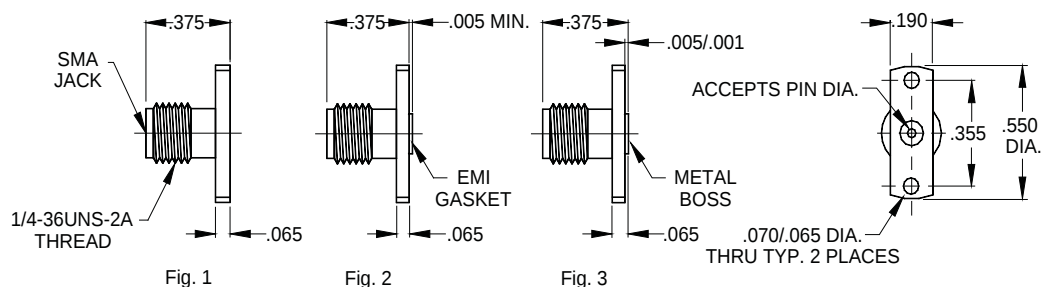


PART NUMBER	Fig.	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9952-0081-6214	1	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6214	2	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6214	3	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0081-6224	1	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6224	2	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6224	3	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0081-6246	1	.037/.035	.190	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6246	2	.037/.035	.300	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6246	3	.037/.035	.190	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

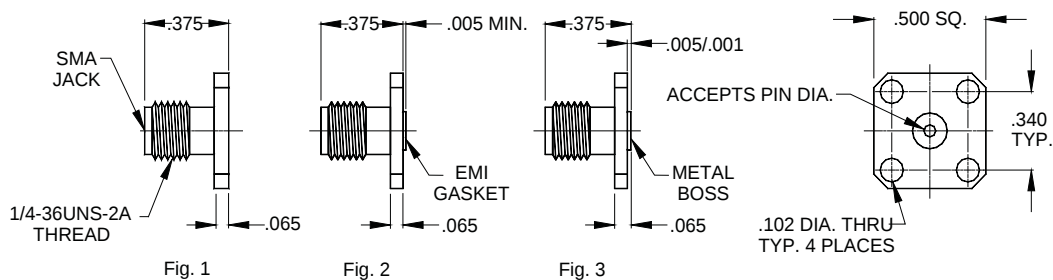
sma • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9952-0081-6213	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6213	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6212	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9952-0081-6223	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9952-0781-6223	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9952-0881-6222	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.

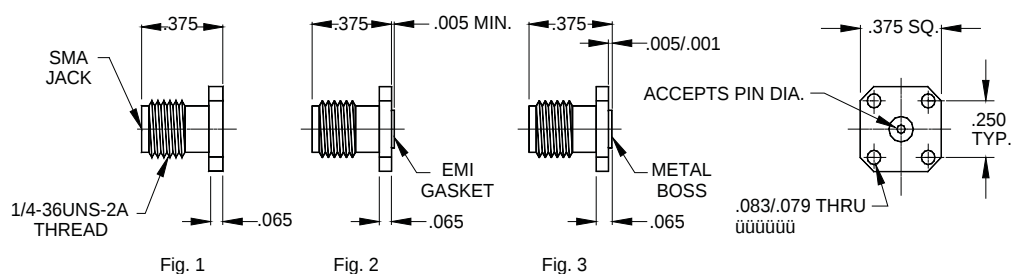
female, jack, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9954-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6236	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6236	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6236	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

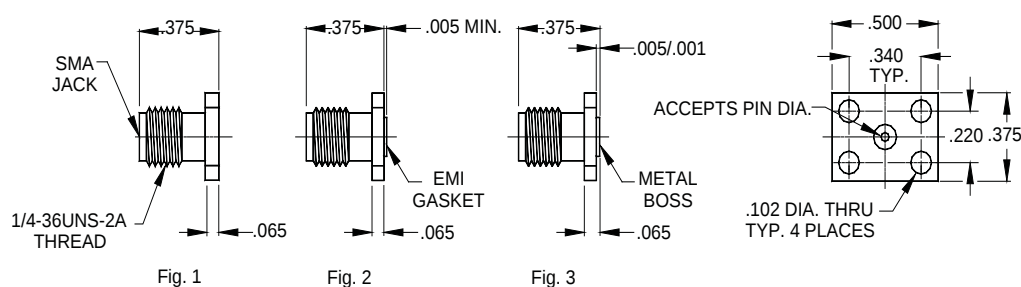
sma • field replaceable connectors

female, jack, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9954-0081-6217	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6217	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6217	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6227	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6227	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6227	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6237	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6237	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6237	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, 4 hole rectangular flange mount

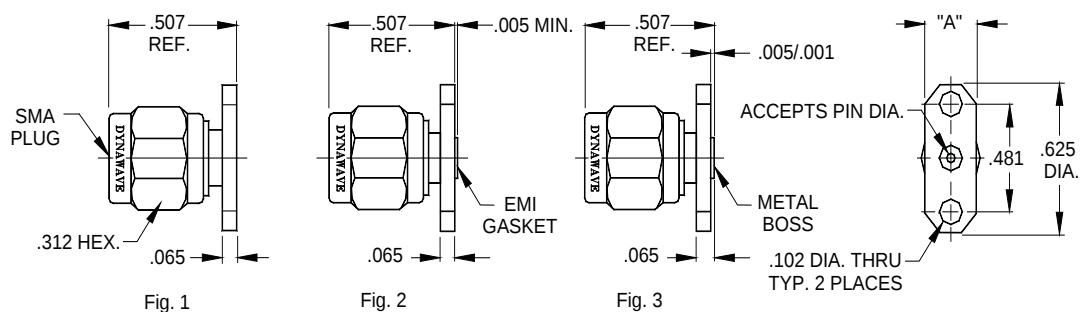


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9954-0081-6219	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6219	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6219	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6229	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6229	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6229	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9954-0081-6279	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0781-6279	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9954-0881-6279	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

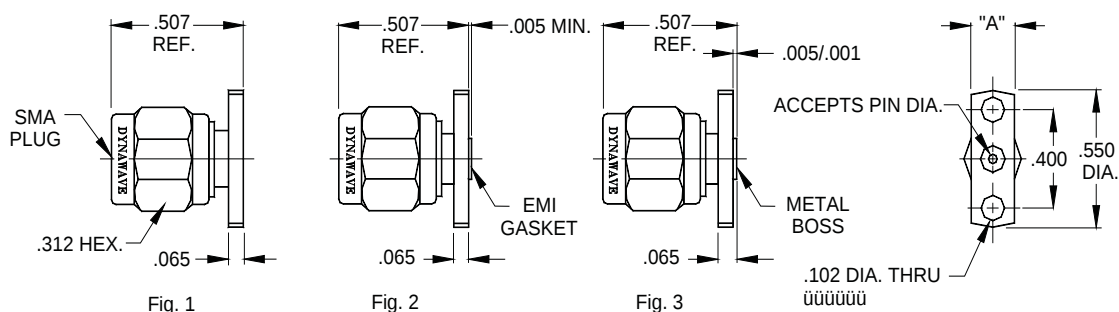
Specifications are subject to change without notice

sma • field replaceable connectors

male, plug, 2 hole flange mount



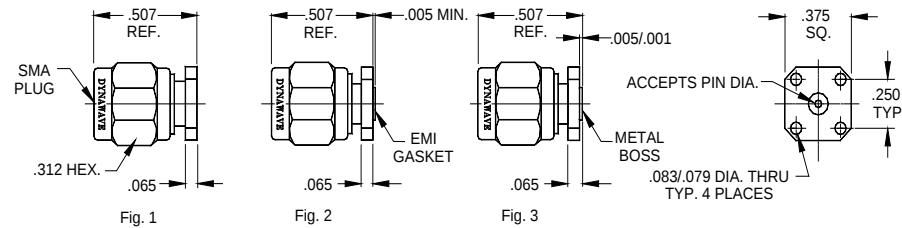
PART NUMBER	Fig.	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9852-0081-6215	1	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6215	2	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6215	3	.016/.011	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0081-6220	1	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6220	2	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6220	3	.021/.017	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0081-6236	1	.037/.035	.222	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6236	2	.037/.035	.300	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6236	3	.037/.035	.222	STAINLESS STEEL	DC - 26.5 GHz.



PART NUMBER	Fig.	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9852-0081-6214	1	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6214	2	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6214	3	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0081-6224	1	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6224	2	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6224	3	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0081-6246	1	.037/.035	.190	STAINLESS STEEL	DC - 26.5 GHz.
9852-0781-6246	2	.037/.035	.300	STAINLESS STEEL	DC - 26.5 GHz.
9852-0881-6246	3	.037/.035	.190	STAINLESS STEEL	DC - 26.5 GHz.

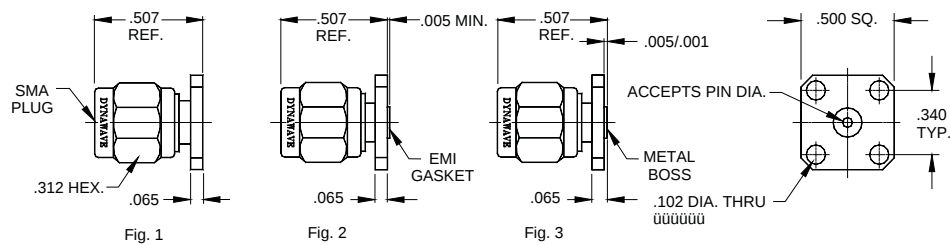
sma • field replaceable connectors

male, plug, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9854-0081-6217	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6217	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6217	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0081-6227	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6227	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6227	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0081-6237	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6237	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6237	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, 4 hole flange mount

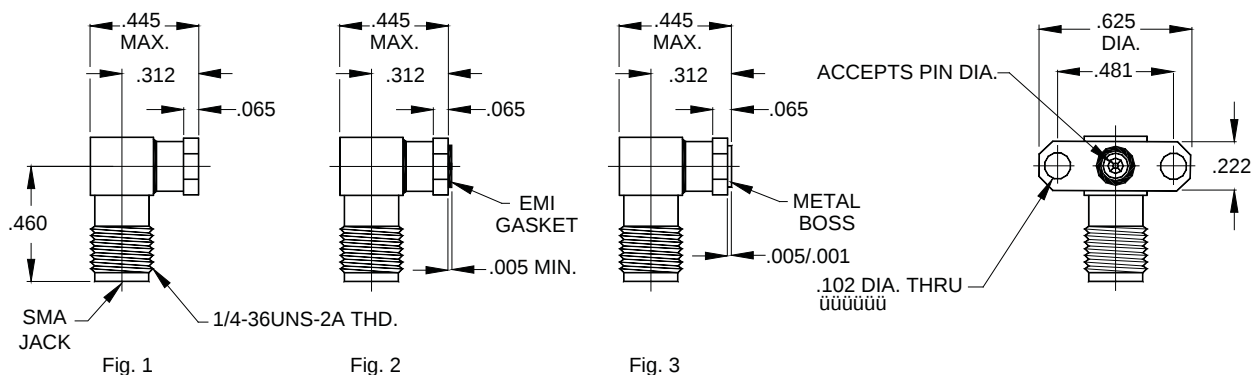


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9854-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
9854-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
9854-0081-6236	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9854-0781-6236	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
9854-0881-6236	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

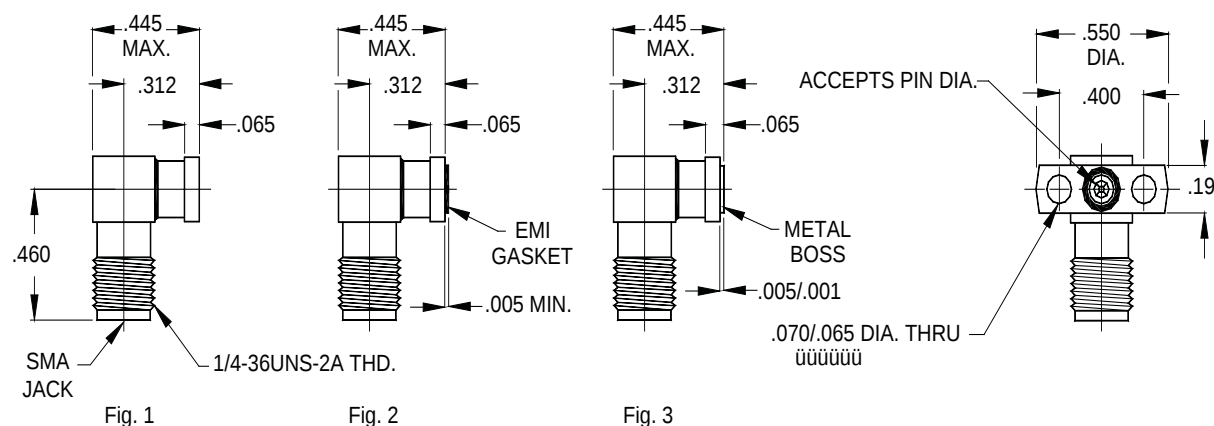
Specifications are subject to change without notice

sma • field replaceable connectors

female, jack, 2 hole, right angle, flange mount



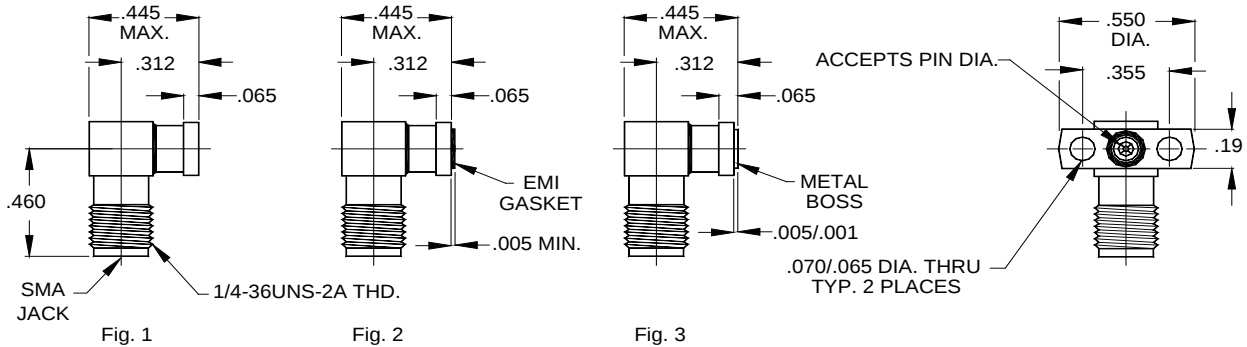
PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9956-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.



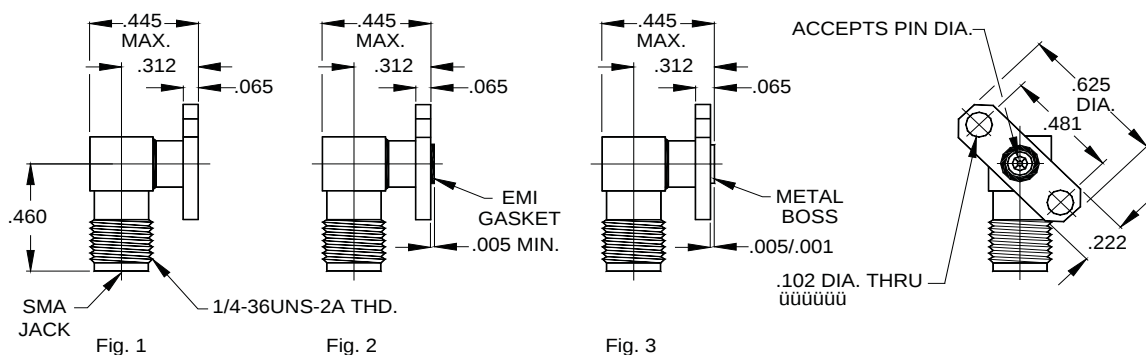
PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9956-0081-6214	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6214	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6214	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0081-6224	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6224	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6224	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.

sma • field replaceable connectors

female, jack, 2 hole, right angle, flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9956-0081-6213	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6213	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6213	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-0081-6223	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0781-6223	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-0881-6223	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.

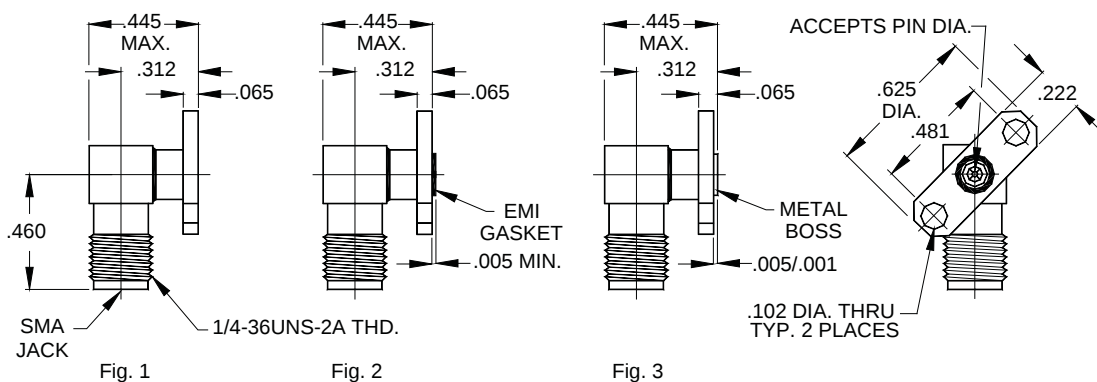


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9956-1081-6215	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-1781-6215	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-1881-6215	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-1081-6220	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-1781-6220	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-1881-6220	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.

Specifications are subject to change without notice

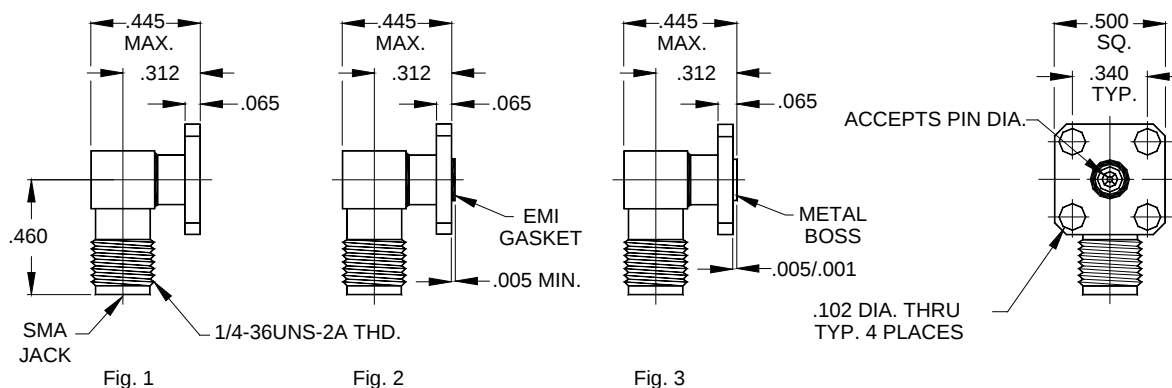
sma • field replaceable connectors

female, jack, 2 hole, right angle, flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9956-2081-6215	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-2781-6215	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-2881-6215	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9956-2081-6220	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-2781-6220	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9956-2881-6220	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.

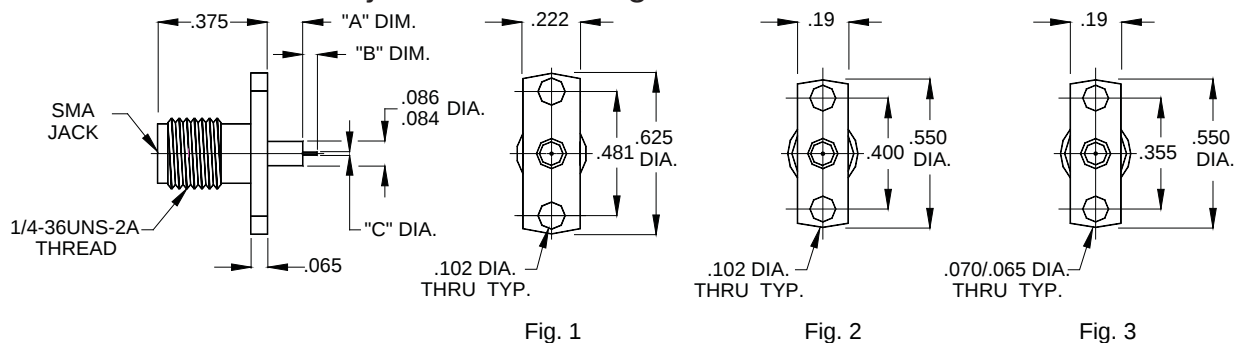
female, jack, 4 hole, right angle, flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
9958-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9958-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9958-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 22.0 GHz.
9958-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9958-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.
9958-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 22.0 GHz.

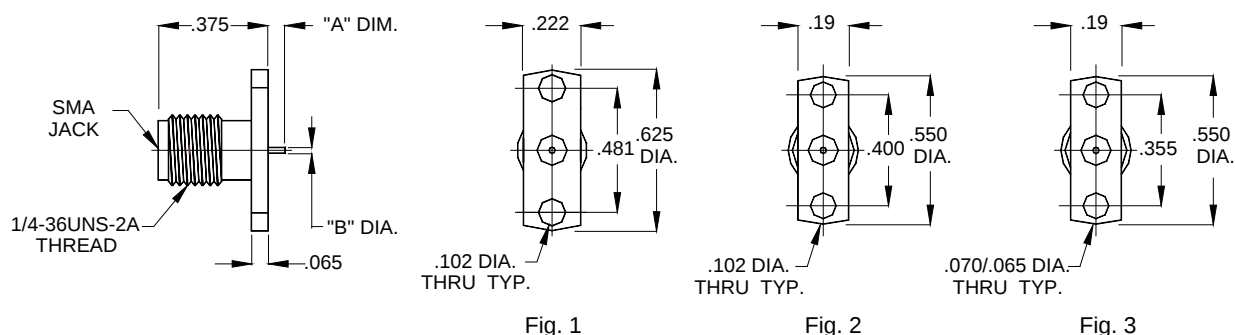
sma • straight terminal

female, jack, 2 hole flange mount, with dielectric



PART NUMBER	Fig.	"A" DIM.	"B" DIM.	"C" DIA.	MATERIAL TYPE	FREQ. RANGE
9952-0032-6201	1	.250	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6211	2	.250	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6221	3	.250	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6204	1	.125	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6214	2	.125	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6224	3	.125	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6207	1	.057	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6217	2	.057	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6227	3	.057	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, 2 hole flange mount, without dielectric



PART NUMBER	Fig.	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9952-0032-6222	1	.250	.021/.019	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6223	2	.250	.021/.019	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6228	3	.250	.021/.019	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6235	1	.125	.016/.014	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6236	2	.125	.016/.014	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6237	3	.125	.016/.014	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6245	1	.057	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6246	2	.057	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9952-0032-6247	3	.057	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

sma • straight terminal

female, jack, 4 hole flange mount, with dielectric

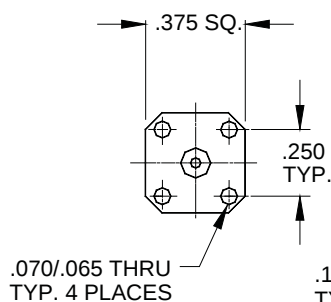
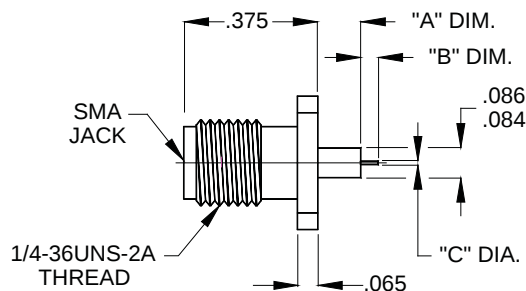


Fig. 1

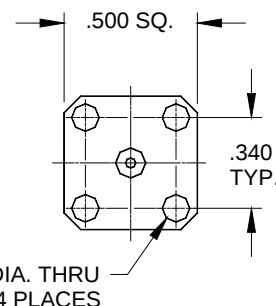


Fig. 2

PART NUMBER	Fig .	"A" DIM.	"B" DIM.	"C" DIA.	MATERIAL TYPE	FREQ. RANGE
9954-0032-6207	1	.125	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6210	2	.125	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6245	1	.057	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6211	2	.057	.050	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, 4 hole flange mount, without dielectric

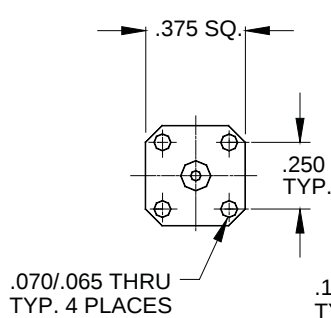
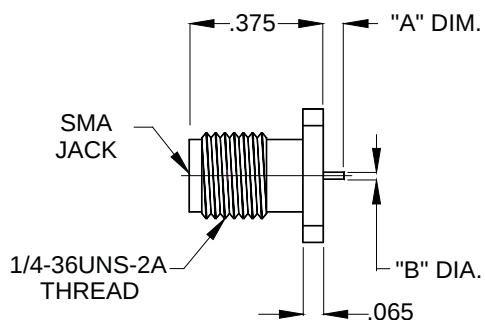


Fig. 1

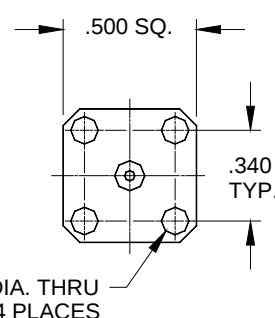
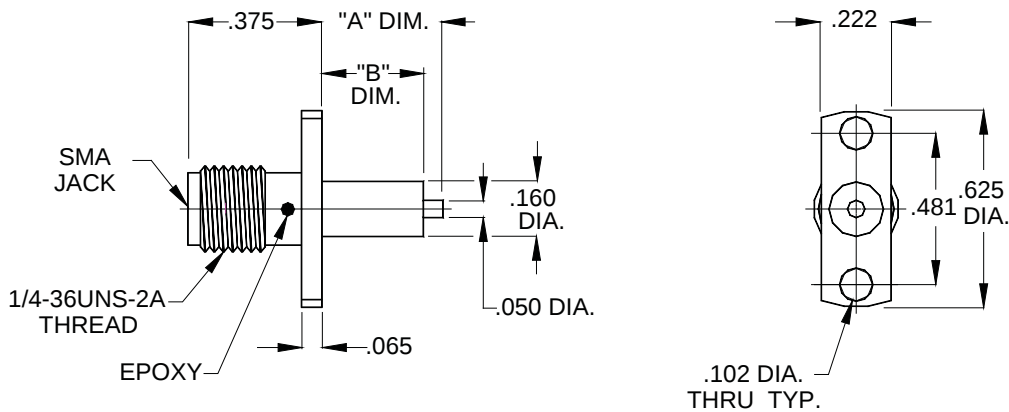


Fig. 2

PART NUMBER	Fig .	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9954-0032-6225	1	.250	.021/.019	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6226	2	.250	.021/.019	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6235	1	.125	.016/.014	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6236	2	.125	.021/.014	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6247	1	.057	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.
9954-0032-6246	2	.057	.011/.009	STAINLESS STEEL	DC - 26.5 GHz.

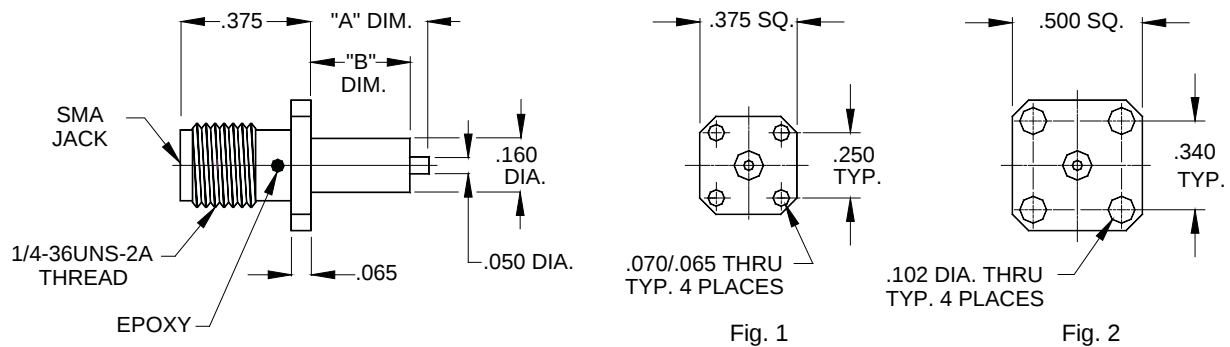
sma • straight terminal

female, jack, 2 hole flange mount, with dielectric



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9952-0032-2400	.705	.59	BRASS	DC - 18.0 GHz.
9952-0032-6250	.705	.59	STAINLESS STEEL	DC - 18.0 GHz.
9952-0032-6255	.255	.24	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, 4 hole flange mount, with dielectric

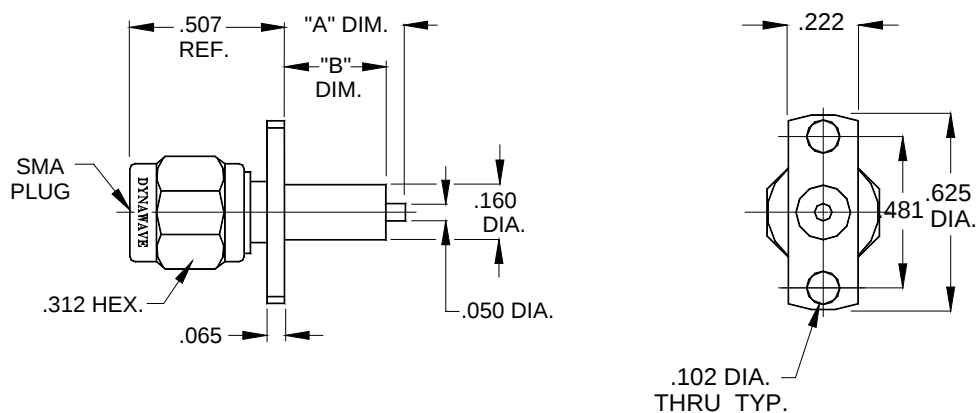


PART NUMBER	Fig .	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9954-0032-2410	1	.705	.59	BRASS	DC - 18.0 GHz.
9954-0032-2400	2	.705	.59	BRASS	DC - 18.0 GHz.
9954-0032-6204	1	.705	.59	STAINLESS STEEL	DC - 18.0 GHz.
9954-0032-6250	2	.705	.59	STAINLESS STEEL	DC - 18.0 GHz.
9954-0032-2349	2	.470	.40	BRASS	DC - 18.0 GHz.
9954-0032-6251	2	.175	.12	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

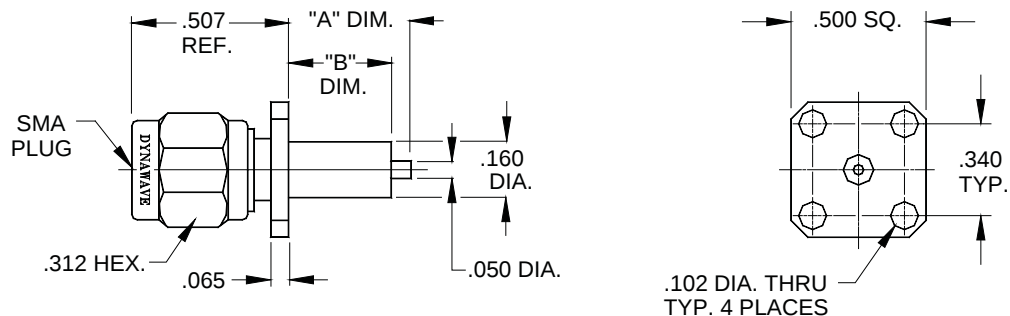
sma • straight terminal

male, plug, 2 hole flange mount, with dielectric



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9852-0032-2400	.705	.59	BRASS	DC - 18.0 GHz.
9852-0032-6250	.705	.59	STAINLESS STEEL	DC - 18.0 GHz.
9852-0032-6255	.255	.24	STAINLESS STEEL	DC - 18.0 GHz.

male, plug, 4 hole flange mount, with dielectric



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9854-0032-2400	.705	.59	BRASS	DC - 18.0 GHz.
9854-0032-6250	.705	.59	STAINLESS STEEL	DC - 18.0 GHz.
9854-0032-6255	.255	.24	STAINLESS STEEL	DC - 18.0 GHz.

sma • slotted terminal

female, jack, 4 hole flange mount

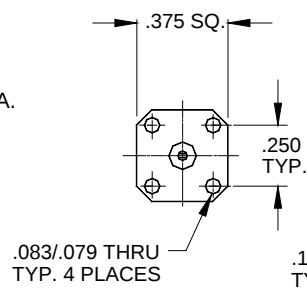
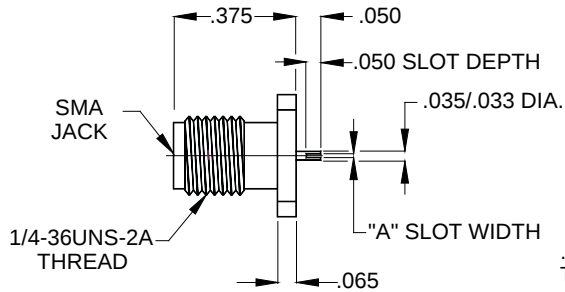


Fig. 1

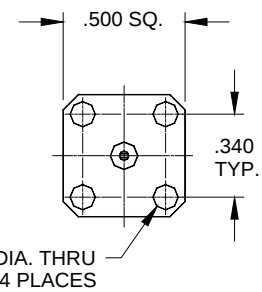


Fig. 2

PART NUMBER	Fig.	"A" SLOT WIDTH	MATERIAL TYPE	FREQUENCY RANGE
9954-0012-6217	1	.014/.010	STAINLESS STEEL	DC - 18.0 GHz.
9954-0012-6256	2	.016/.012	STAINLESS STEEL	DC - 18.0 GHz.
9954-0012-6252	2	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.

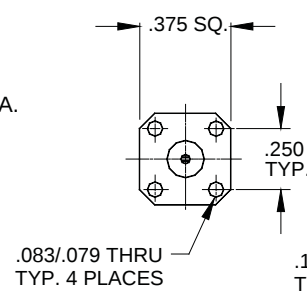
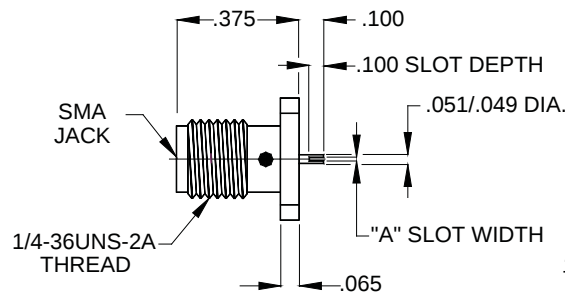


Fig. 1

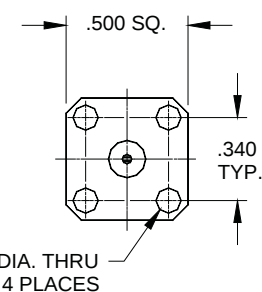


Fig. 2

PART NUMBER	Fig.	"A" SLOT WIDTH	MATERIAL TYPE	FREQUENCY RANGE
9954-0012-6249	1	.015/.010	STAINLESS STEEL	DC - 18.0 GHz.
9954-0012-6250	2	.015/.012	STAINLESS STEEL	DC - 18.0 GHz.
9954-0012-6251	2	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

sma • tab terminal

female, jack, 2 hole flange mount

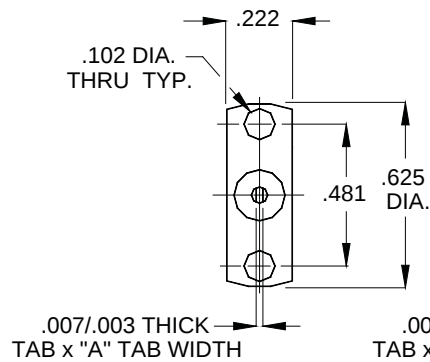
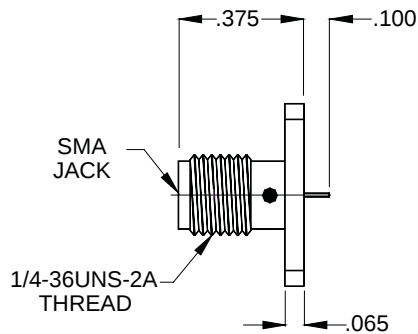


Fig. 1

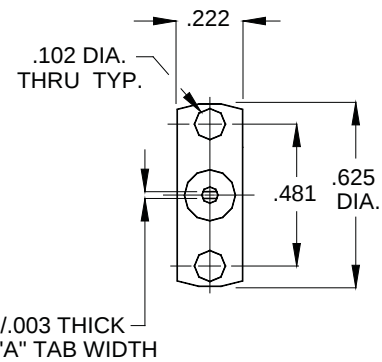
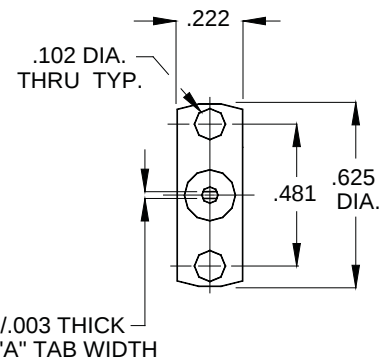


Fig. 2

PART NUMBER	Fig.	"A" TAB WIDTH	MATERIAL TYPE	FREQUENCY RANGE
9952-0052-6227	1	.020	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6228	2	.020	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6217	1	.050	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6218	2	.050	STAINLESS STEEL	DC - 18.0 GHz.

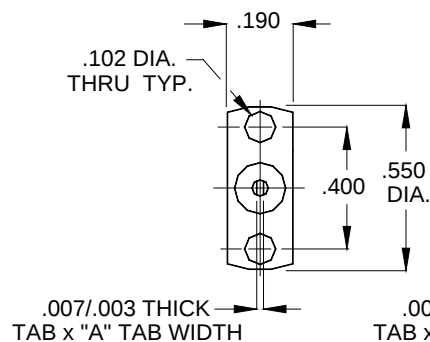
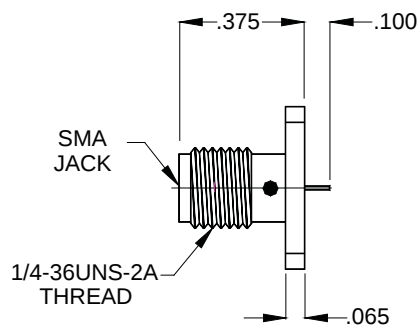


Fig. 1

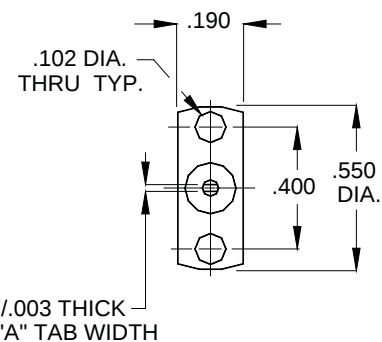
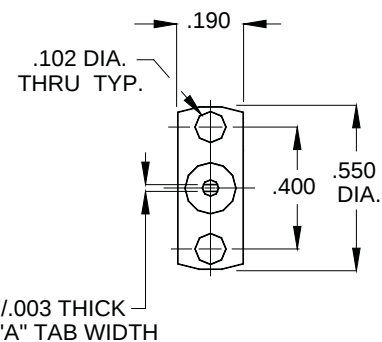


Fig. 2

PART NUMBER	Fig.	"A" TAB WIDTH	MATERIAL TYPE	FREQUENCY RANGE
9952-0052-6214	1	.020	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6224	2	.020	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6234	1	.050	STAINLESS STEEL	DC - 18.0 GHz.
9952-0052-6244	2	.050	STAINLESS STEEL	DC - 18.0 GHz.

sma • tab terminal

female, jack, 4 hole flange mount

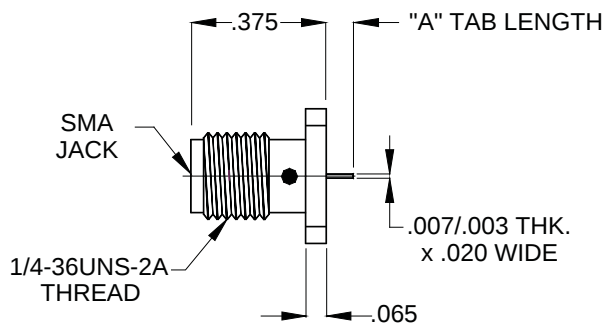


Fig. 1

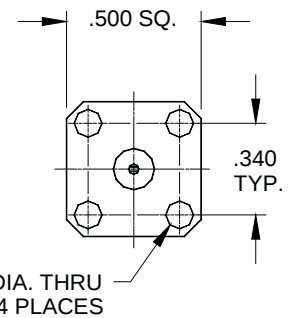
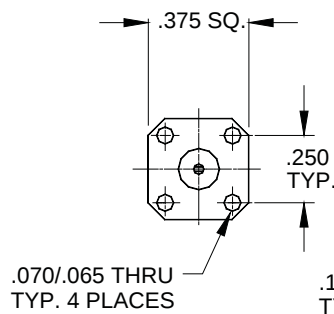
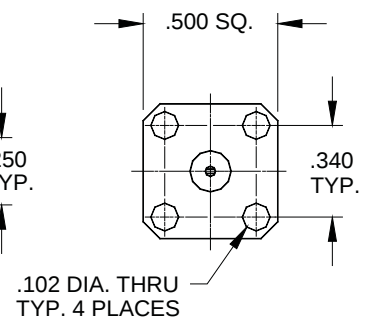
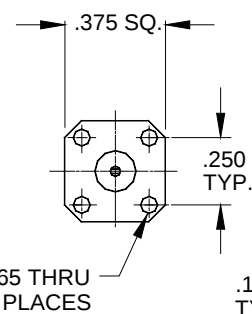
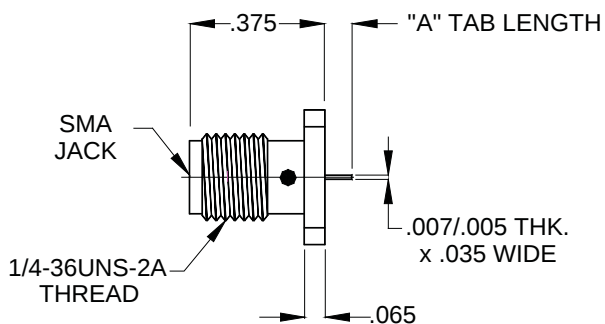


Fig. 2

PART NUMBER	Fig.	"A" TAB LENGTH	MATERIAL TYPE	FREQUENCY RANGE
9954-0052-6287	1	.100	STAINLESS STEEL	DC - 18.0 GHz.
9954-0052-6249	2	.100	STAINLESS STEEL	DC - 18.0 GHz.



PART NUMBER	Fig.	"A" TAB LENGTH	MATERIAL TYPE	FREQUENCY RANGE
9954-0052-6207	1	.035	STAINLESS STEEL	DC - 18.0 GHz.
9954-0052-6278	2	.035	STAINLESS STEEL	DC - 18.0 GHz.
9954-0052-6247	1	.050	STAINLESS STEEL	DC - 18.0 GHz.
9954-0052-6248	2	.050	STAINLESS STEEL	DC - 18.0 GHz.

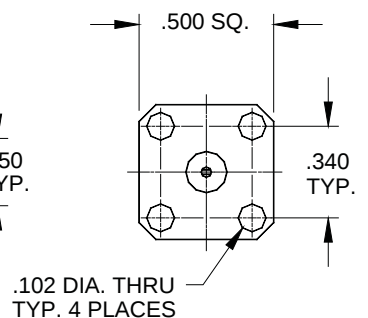
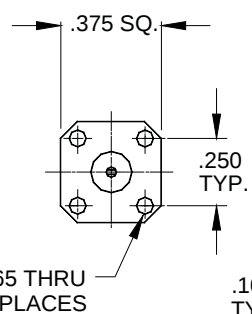
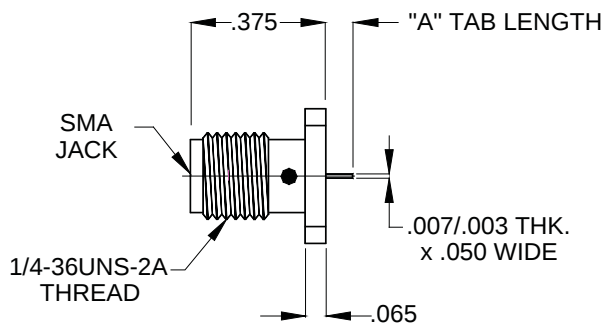


Fig. 1

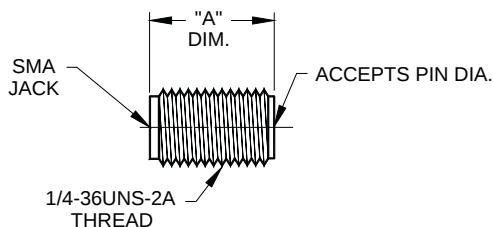
Fig. 2

PART NUMBER	Fig.	"A" TAB LENGTH	MATERIAL TYPE	FREQUENCY RANGE
9954-0052-6238	1	.100	STAINLESS STEEL	DC - 18.0 GHz.
9954-0052-6218	2	.100	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

sma • field replaceable connectors

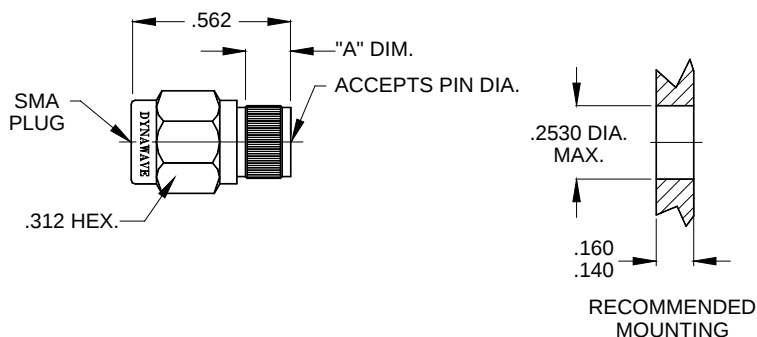
female, jack, thread-in



TORQUE TOOL : 99-TORQUE-30

PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9930-0081-6212	.016/.011	.425	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6215	.016/.011	.375	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6220	.021/.017	.375	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6222	.021/.017	.425	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6227	.021/.017	.725	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6236	.037/.035	.500	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6246	.016/.011	.590	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6250	.021/.017	.590	STAINLESS STEEL	DC - 26.5 GHz.
9930-0081-6289	.021/.017	.390	STAINLESS STEEL	DC - 26.5 GHz.

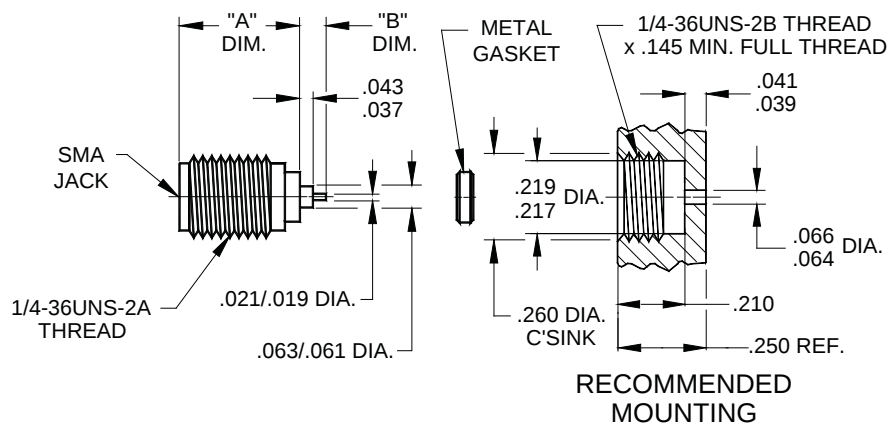
male, plug, press-in



PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9840-0081-6212	.016/.011	.190	STAINLESS STEEL	DC - 26.5 GHz.
9840-0081-6222	.021/.017	.190	STAINLESS STEEL	DC - 26.5 GHz.

sma • hermetic connectors

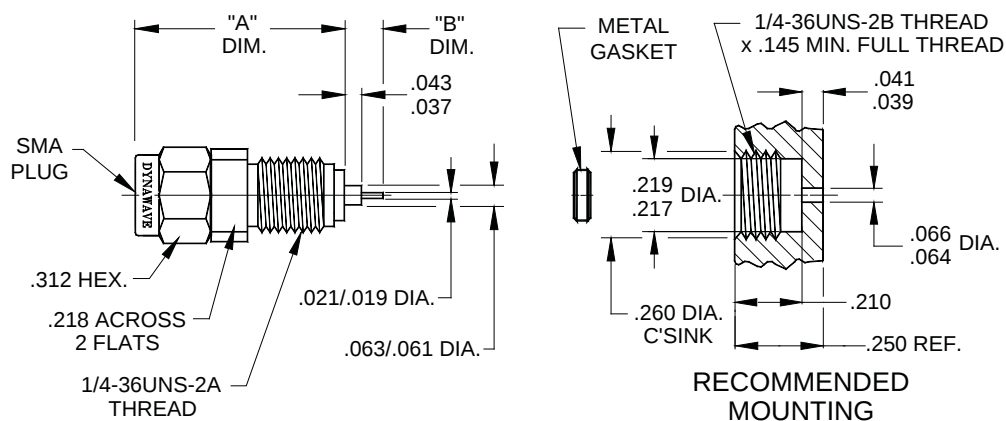
female, jack, thread-in “sparkplug”



TORQUE TOOL : 99-TORQUE-22

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9930-0431-6410	1.080	.080	STAINLESS STEEL	DC - 26.5 GHz.
9930-0431-6420	.450	.080	STAINLESS STEEL	DC - 26.5 GHz.
9930-0431-6422	.450	.058	STAINLESS STEEL	DC - 26.5 GHz.
9930-0431-6424	.450	.065	STAINLESS STEEL	DC - 26.5 GHz.
9930-0431-6427	.450	.150	STAINLESS STEEL	DC - 26.5 GHz.
9930-0431-6482	.710	.080	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, thread-in “sparkplug”



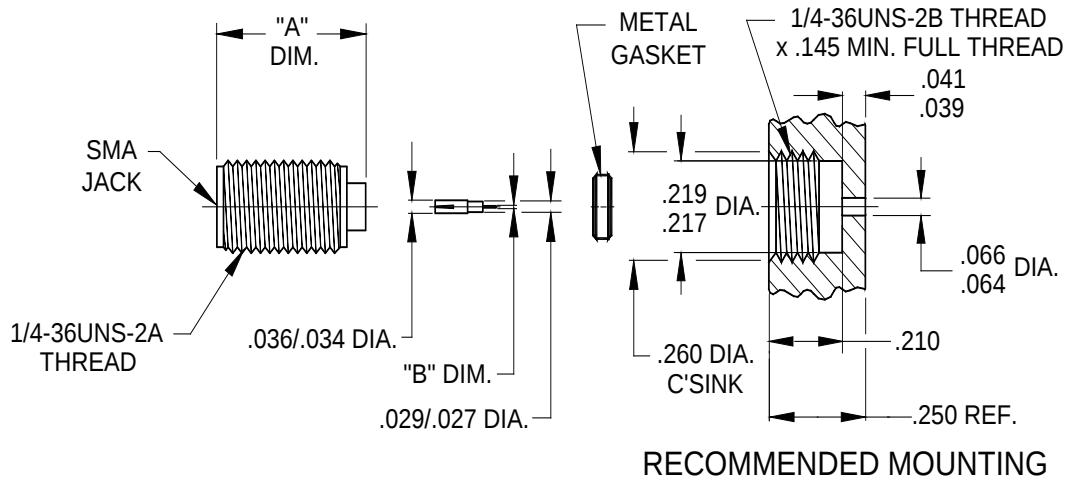
TORQUE TOOL : 9-98019

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9830-0431-6400	.732/.692	.080	STAINLESS STEEL	DC - 26.5 GHz.
9830-0431-6422	.732/.692	.058	STAINLESS STEEL	DC - 26.5 GHz.
9830-0431-6444	.732/.692	.065	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

sma • hermetic connectors

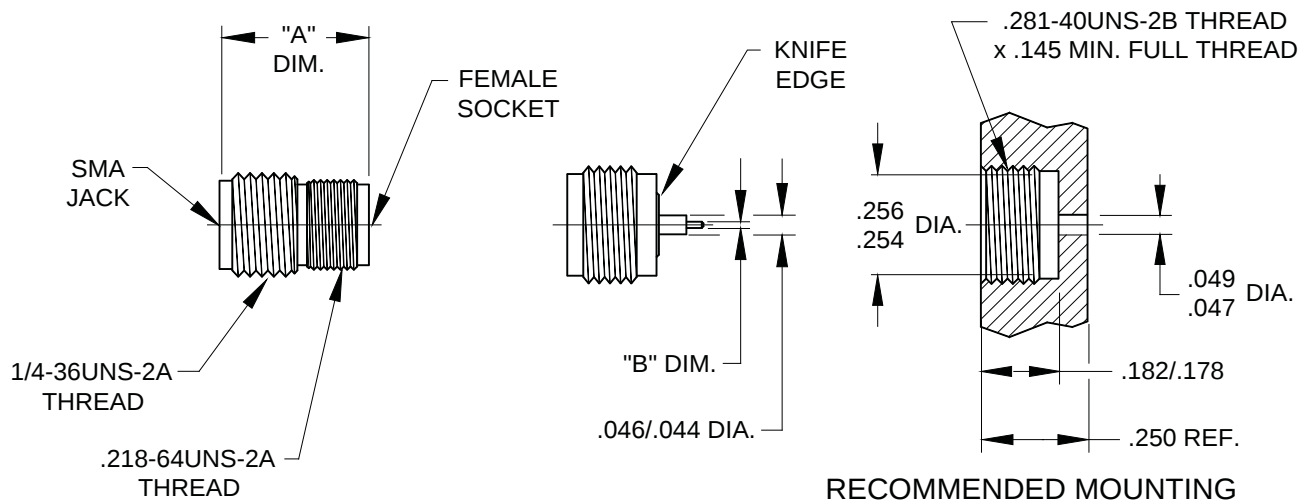
female, jack, thread-in, knife edge “sparkplug”, sliding contact



TORQUE TOOL : 99-TORQUE-22

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9930-0441-6440	.455	.020 DIA.	STAINLESS STEEL	DC - 26.5 GHz.
9930-0441-6441	.455	.006 x .020	STAINLESS STEEL	DC - 26.5 GHz.
9930-0441-6442	.455	.007 DIA.	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, thread-in, knife edge, field replaceable, “sparkplug”

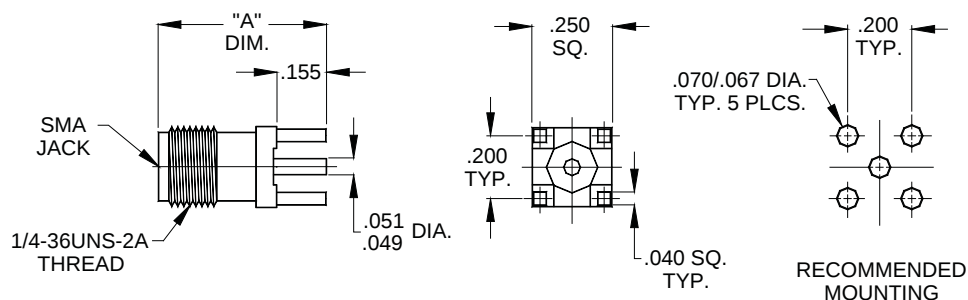


TORQUE TOOL : 99-TORQUE-22

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9933-0431-6415	.350	.015	STAINLESS STEEL	DC - 26.5 GHz.

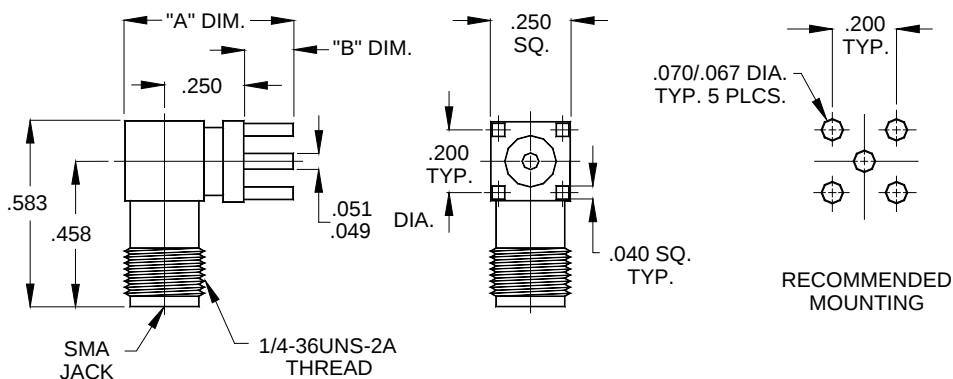
sma • printed circuit board mount

female, jack, straight, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9920-0031-2150	.411	.155	BRASS	DC - 18.0 GHz.
9920-0031-2725	.530	.155	BRASS	DC - 18.0 GHz.
9920-0031-6425	.530	.155	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, right angle, 4 post, thru hole

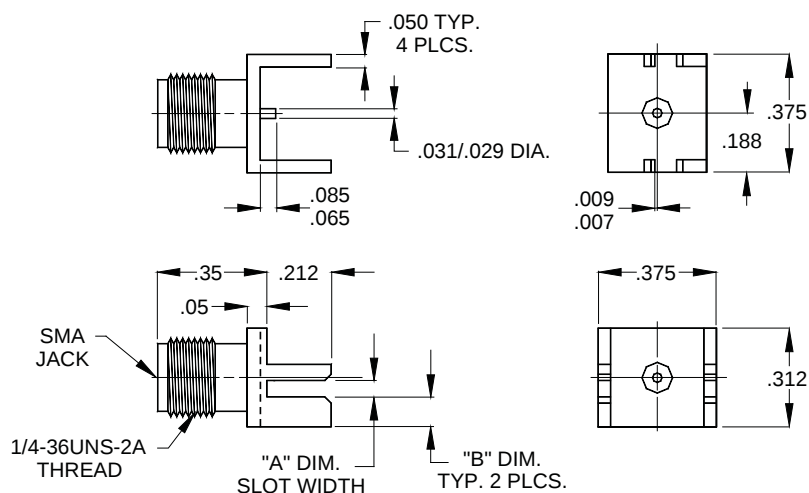


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9921-0031-2100	.530	.155	BRASS	DC - 18.0 GHz.
9921-0031-2725	.530	.155	BRASS	DC - 18.0 GHz.
9921-0031-6425	.530	.155	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

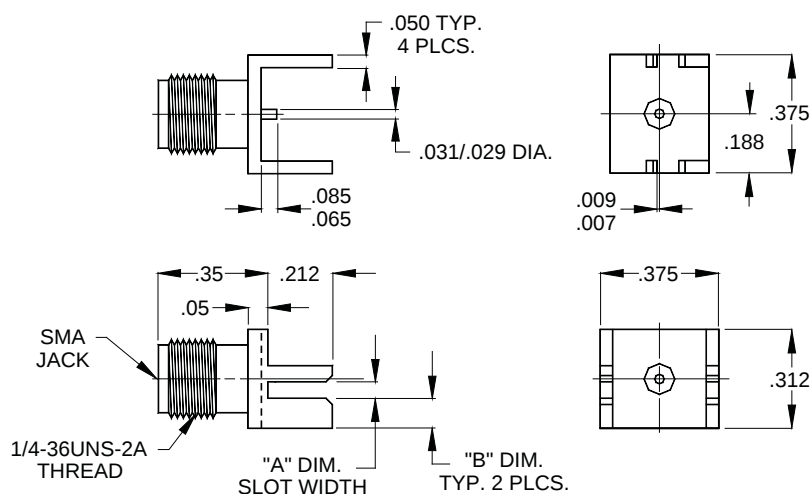
sma • printed circuit board mount

female, jack, straight, edge mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9920-0032-2100	.040/.034	.104	BRASS	DC - 18.0 GHz.
9920-0032-2101	.066/.063	.078	BRASS	DC - 18.0 GHz.
9920-0032-2301	.066/.063	.078	BRASS	DC - 18.0 GHz.

female, jack, straight, edge mount

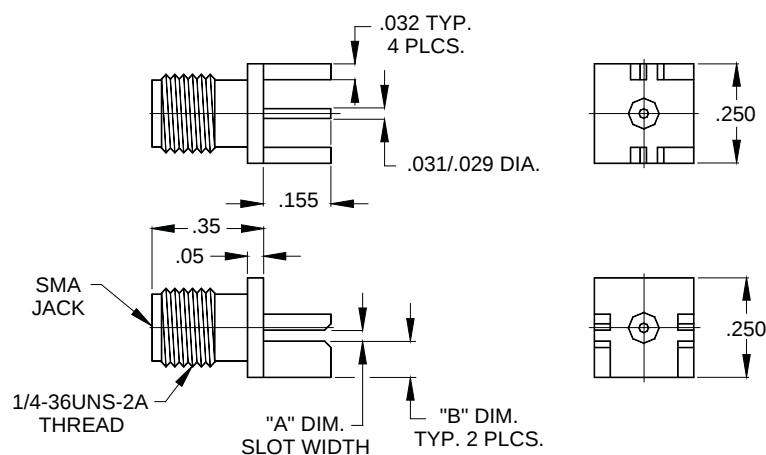


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9920-0032-2104	.066/.063	.084	BRASS	DC - 20.0 GHz.
9920-0032-2105	.036/.033	.114	BRASS	DC - 20.0 GHz.

Specifications are subject to change without notice

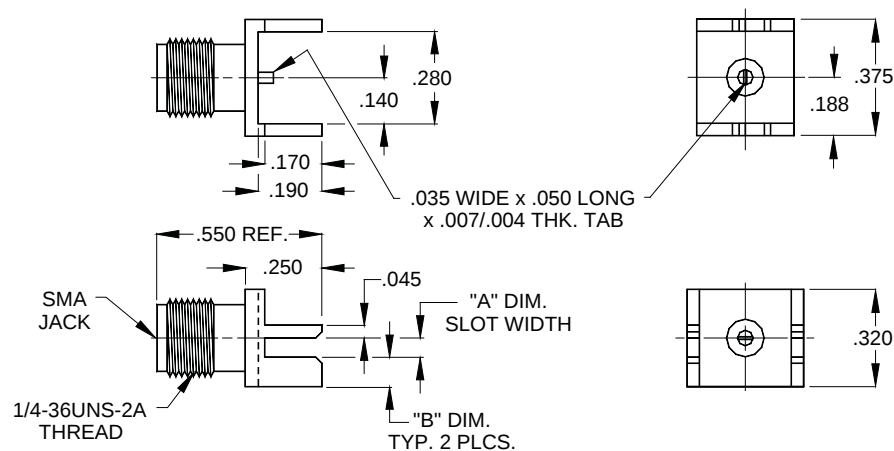
sma • printed circuit board mount

female, jack, straight, edge mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9920-0531-2701	.032/.028	.080	BRASS	DC - 18.0 GHz.
9920-0531-2702	.050/.046	.062	BRASS	DC - 18.0 GHz.
9920-0531-2704	.070/.066	.042	BRASS	DC - 18.0 GHz.

female, jack, straight, edge mount

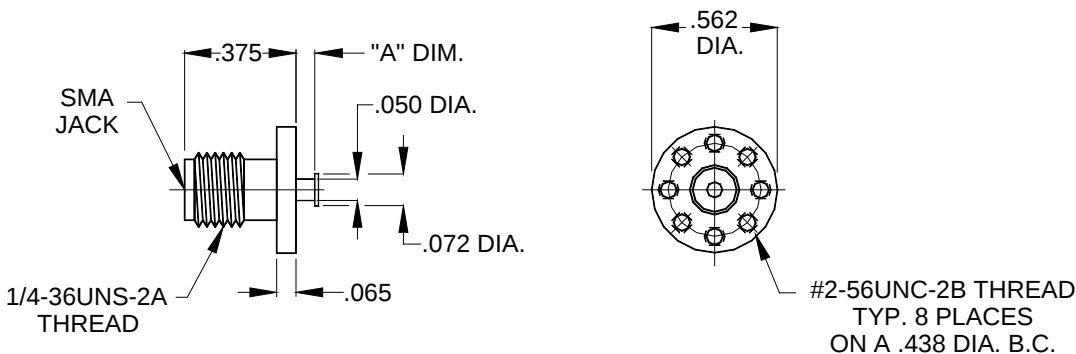


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9920-0051-6436	.074/.070	.088	BRASS	DC - 20.0 GHz.

Specifications are subject to change without notice

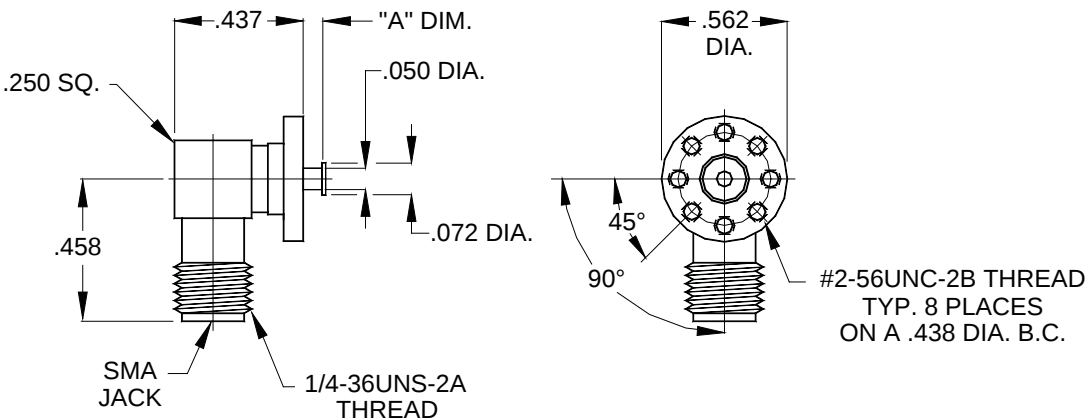
sma • printed circuit board mount

female, jack, straight, surface mount, non-captured contact



PART NUMBER	"A" DIM	MATERIAL TYPE	FREQUENCY RANGE
9980-0030-6202	.031	STAINLESS STEEL	DC - 25.0 GHz.
9980-0030-6201	.062	STAINLESS STEEL	DC - 25.0 GHz.
9980-0030-6200	.125	STAINLESS STEEL	DC - 25.0 GHz.

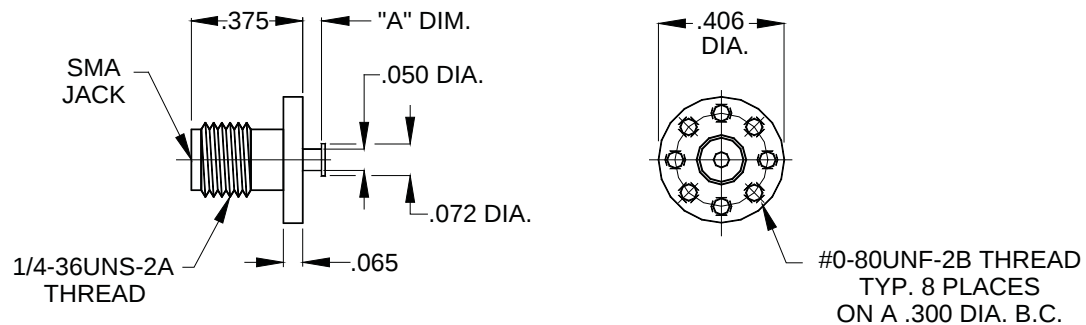
female, jack, right angle, surface mount, non-captured contact



PART NUMBER	"A" DIM	MATERIAL TYPE	FREQUENCY RANGE
9981-0361-6201	.031	STAINLESS STEEL	DC - 18.0 GHz.
9981-0361-6202	.062	STAINLESS STEEL	DC - 18.0 GHz.
9981-0361-6203	.125	STAINLESS STEEL	DC - 18.0 GHz.

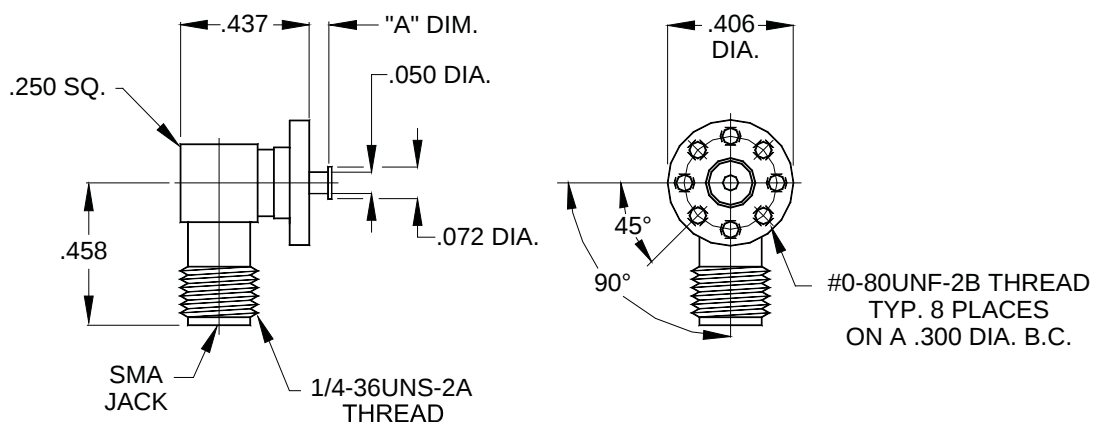
sma • printed circuit board mount

female, jack, straight, surface mount, non-captured contact



PART NUMBER	"A" DIM	MATERIAL TYPE	FREQUENCY RANGE
9980-0030-6230	.031	STAINLESS STEEL	DC - 25.0 GHz.
9980-0030-6240	.062	STAINLESS STEEL	DC - 25.0 GHz.
9980-0030-6250	.125	STAINLESS STEEL	DC - 25.0 GHz.

female, jack, right angle, surface mount, non-captured contact

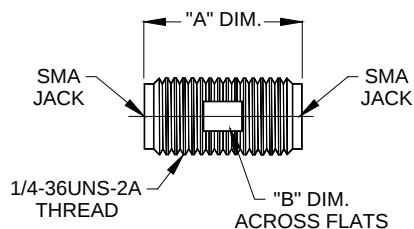


PART NUMBER	"A" DIM	MATERIAL TYPE	FREQUENCY RANGE
9981-0361-6204	.031	STAINLESS STEEL	DC - 18.0 GHz.
9981-0361-6205	.062	STAINLESS STEEL	DC - 18.0 GHz.
9981-0361-6206	.125	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

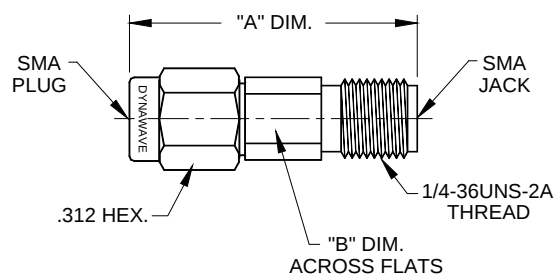
sma • in-series adapters

female, jack to female, jack, straight



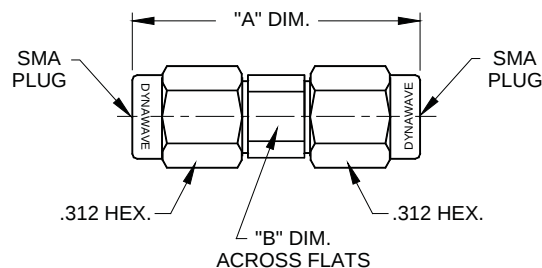
PART NUMBER	"A" DIM	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9999-6250	.500	.219	STAINLESS STEEL	DC - 26.5 GHz.

male, plug to female, jack, straight



PART NUMBER	"A" DIM	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9899-6200	.720	.219	STAINLESS STEEL	DC - 6.0 GHz.
1100-9899-6272	.720	.219	STAINLESS STEEL	DC - 27.0 GHz.
1100-9899-6220	.766	.280	STAINLESS STEEL	DC - 26.5 GHz.
1100-9899-6221	1.50	.280	STAINLESS STEEL	DC - 26.5 GHz.

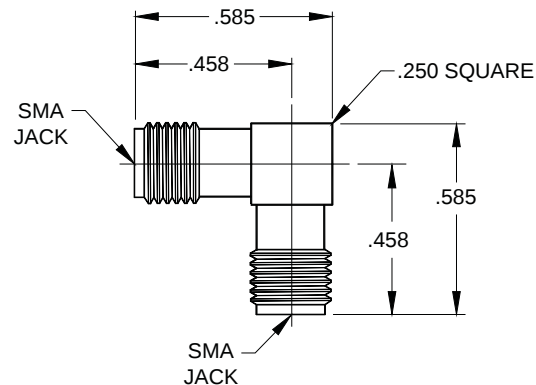
male, plug to male, plug, straight



PART NUMBER	"A" DIM	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9898-6220	.800	.312 DIA.	STAINLESS STEEL	DC - 26.5 GHz.
1100-9898-6287	.875	.219	STAINLESS STEEL	DC - 18.0 GHz.

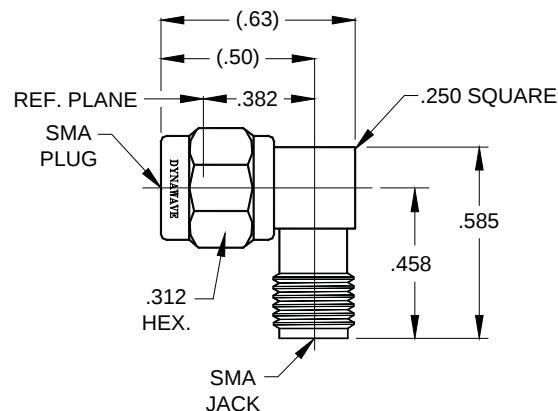
sma • in-series right angle adapters

female, jack to female, jack, right angle



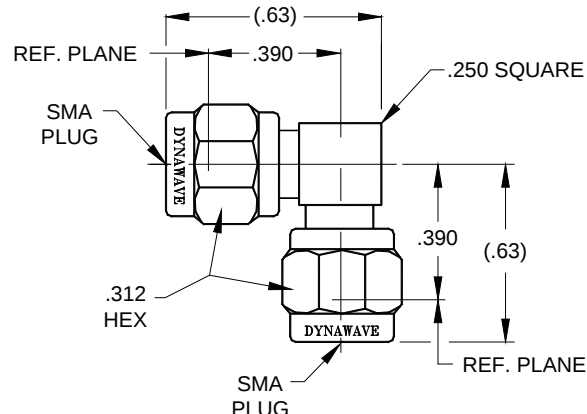
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9999-6250	STAINLESS STEEL	DC - 18.0 GHz.

female, jack to male, plug, right angle



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9899-6250	STAINLESS STEEL	DC - 18.0 GHz.

male, plug to male, plug, right angle

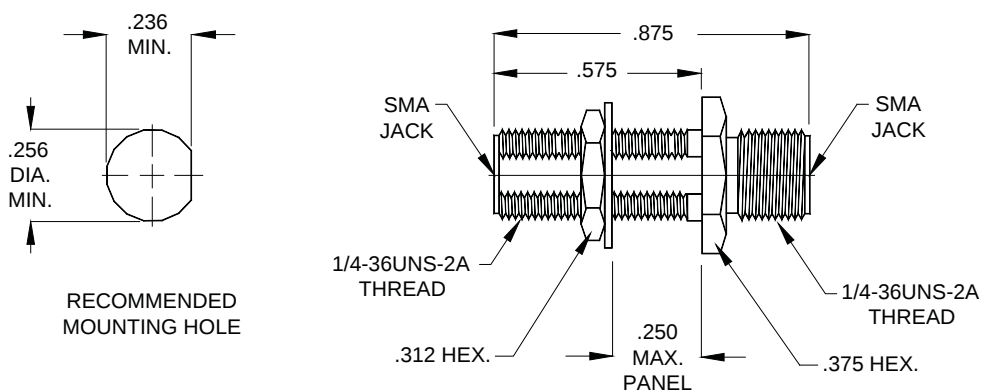


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9898-6239	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

sma • in-series adapters

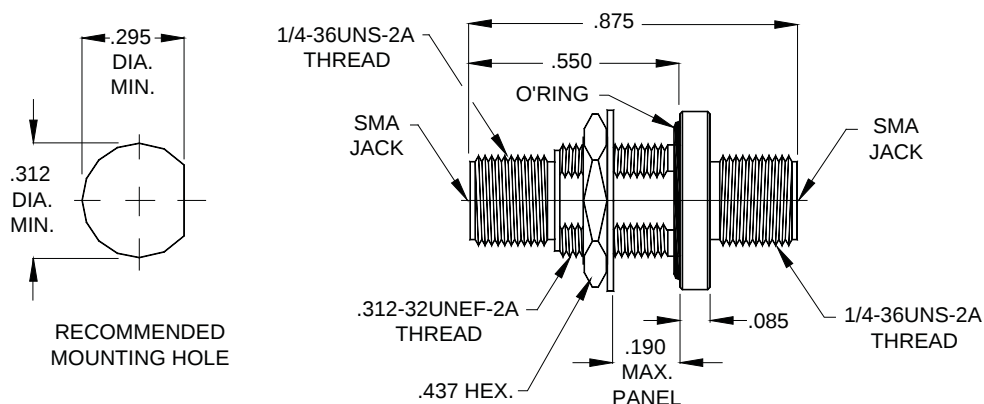
female, jack to female, jack, bulkhead mount



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1110-9999-2400	STAINLESS STEEL	DC - 18.0 GHz.
1110-9999-6201	STAINLESS STEEL	DC - 18.0 GHz.

sma • in-series hermetic adapters

female, jack to female, jack, bulkhead mount

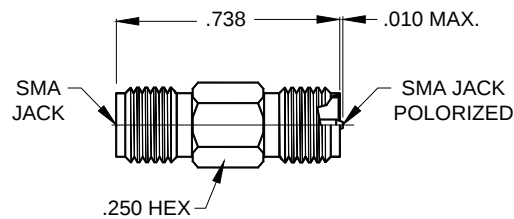


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1120-9999-6400	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

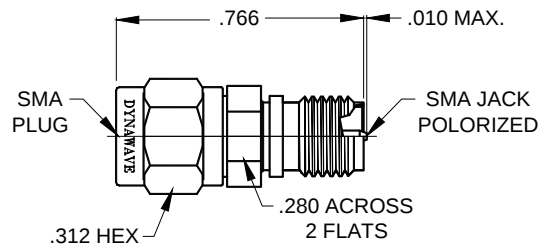
sma • in-series polarized adapters

female, jack to female, plug



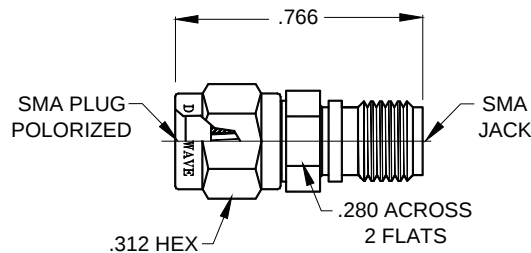
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-5999-6220	STAINLESS STEEL	DC - 26.5 GHz.

male, plug to female, plug



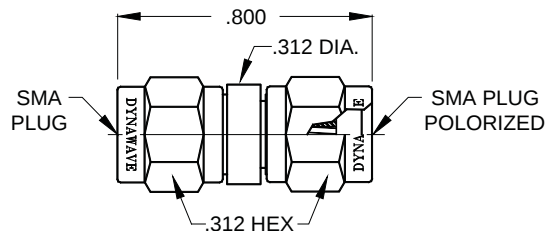
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-5998-6220	STAINLESS STEEL	DC - 26.5 GHz.

male, jack to female, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-5899-6220	STAINLESS STEEL	DC - 26.5 GHz.

male, plug to male, jack

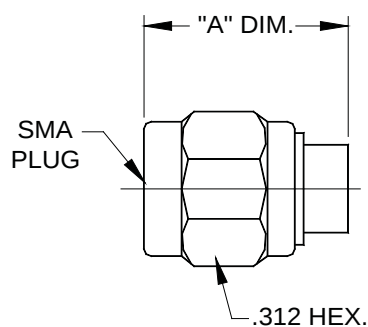


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-5898-6220	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

sma • terminations

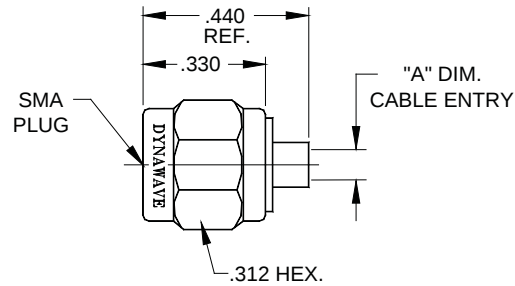
male, plug, termination



PART NUMBER	"A" DIM.	POWER	MATERIAL TYPE	FREQUENCY RANGE / VSWR MAX.
5400-9810-6251	.390 MAX.	1.0 W	STAINLESS STEEL	DC - 18.0 GHz. / 1.20 : 1
5400-9810-6250	.440/380	1.0 KW	STAINLESS STEEL	DC - 2.5 GHz. / 1.15 : 1

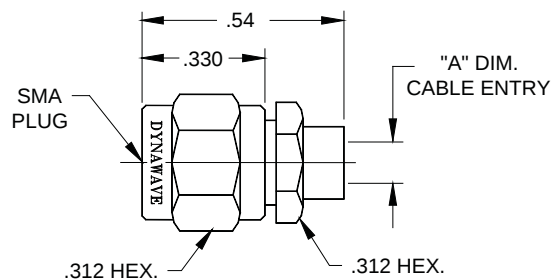
sma ● semi rigid, hi-voltage cable connectors

straight cable, male, plug, direct solder



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
5800-4126-6401	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 4.0 GHz.

straight cable, male, plug, anti-torque, direct solder

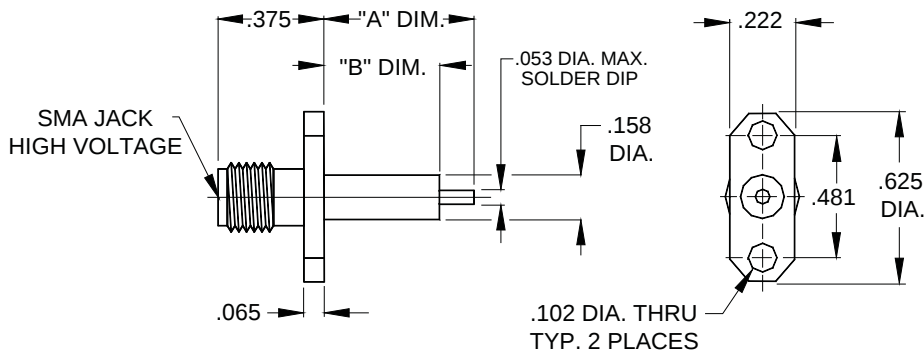


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
5800-4126-6400	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 4.0 GHz.

Specifications are subject to change without notice

sma • straight terminal, high voltage

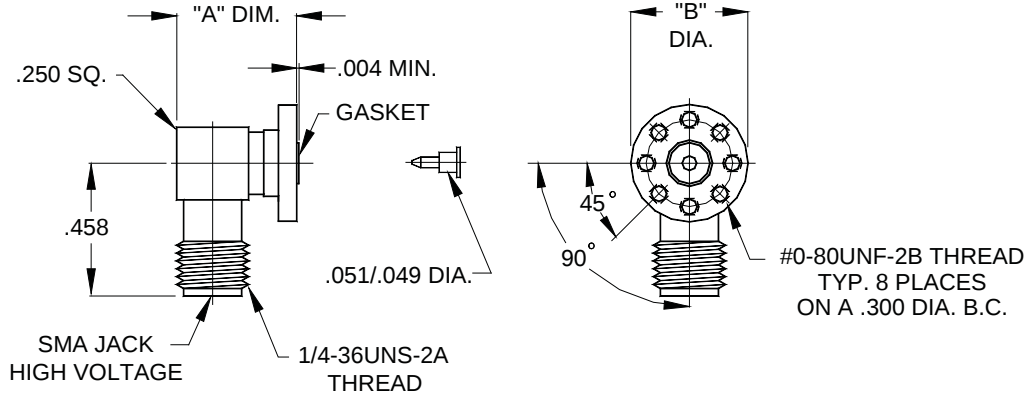
female, jack, 2 hole flange mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
5952-0031-6483	.198 / .178	.115 / .095	STAINLESS STEEL	DC - 4.0 GHz.
5952-0031-6484	.245 / .225	.180 / .160	STAINLESS STEEL	DC - 4.0 GHz.
5952-0031-6485	.650 / .630	.600 / .580	STAINLESS STEEL	DC - 4.0 GHz.

sma • right angle, surface launch

female, jack, right angle, surface launch



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
5981-0381-6441	.415 MAX.	.406 DIA.	STAINLESS STEEL	DC - 4.0 GHz.

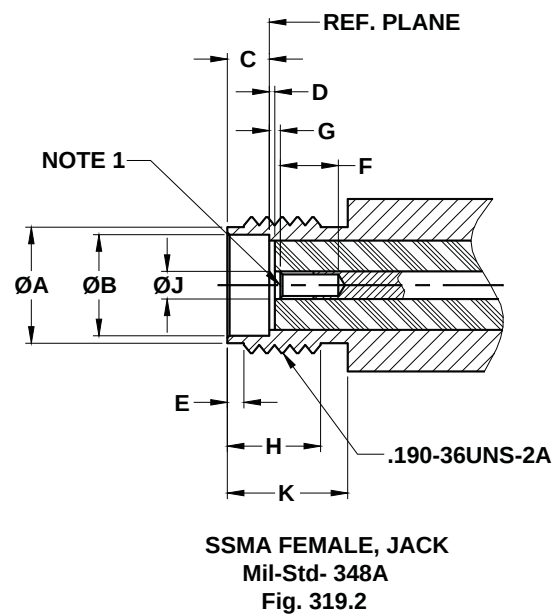
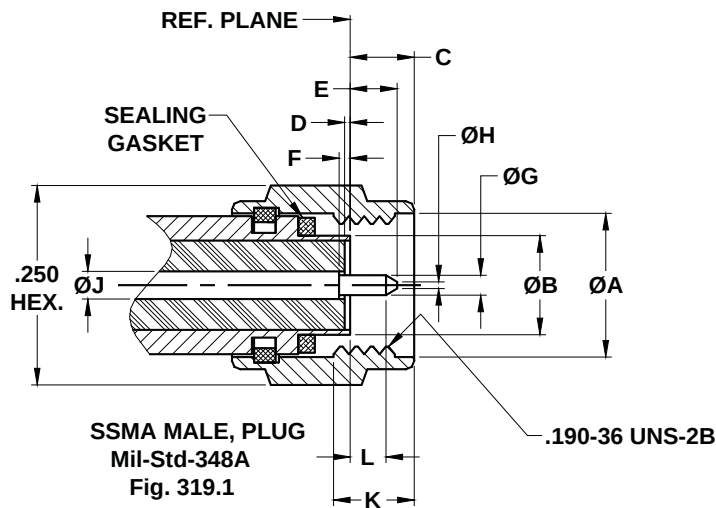


The image features a collection of various SSMA (Solderless Surface Mount Antenna) connectors scattered across a light gray background. These connectors include different types such as SMA, SMC, and SMC-1, with some having gold-plated contacts. The SSMA logo is prominently displayed in green text on the right side of the image.

Below the main image, there is a horizontal strip containing three smaller images: a green industrial structure, a fighter jet in flight, and a control room with multiple monitors.

At the bottom of the image, there is a green banner with the website address www.dynawave.com on the left and the Dynawave Incorporated logo on the right.

ssma • interface dimensions



SSMA 46.0 GHz. has an Air/Teflon Dielectric Interface
per Dynawave Specification MD-96 and MD-97.

male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.198	4.98	.202	5.13
B	.124	3.15	.1268	3.22
C	.100	2.54	.133	3.38
D*	.000	0.00	.010	0.25
E	.050	1.27	.065	1.65
F**	.000	0.00	.010	0.25
G	.0195	0.50	.0208	0.53
H	-----	-----	.010	0.25
J	.0355	0.85	.0348	0.88
K	.130	3.30	-----	-----
L	.038	0.96	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.153	3.89	.160	
B	.127	3.23	.130	3.30
C	.075	1.90	.077	1.96
D*	.000	0.00	.010	0.25
E	.020	0.51	.040	1.02
F**	.075	1.91	-----	-----
G	.000	0.00	.010	0.25
H	.170	4.32	-----	-----
J	.0335	0.85	.0348	0.88
K	.230	5.84	-----	-----
L	-----	-----	-----	-----

* Dielectric Insulator Gap measured from connector body reference plane .000 inches maximum above (flush) to .010 inches maximum below.

** Center Contact Gap measured from connector body reference plane .000 inches maximum above (flush) to .010 maximum below.

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0208 / .0195 Dia. inches (0.53 / 0.50) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

Specifications are subject to change without notice

ssma specifications

The specifications below are general specifications for all SSMA connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

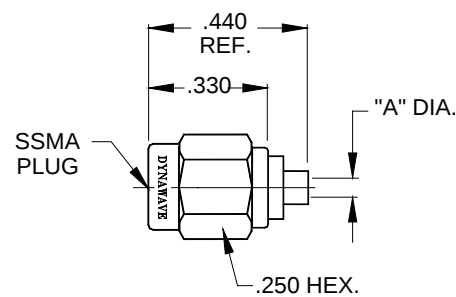
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM- A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Class 1, Grade B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 750 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 500 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.16	The center contact resistance drop shall not exceed 2.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The torque required to engage and disengage shall not exceed 2 inch pounds. The longitudinal force is not applicable.
Coupling Nut Retention Force	3.25	Not applicable for Female connectors. For Male connectors, the retension force is 60 pounds minimum. The Proof torque is 10 inch-pounds minimum.
Cable Retention force requirements shall not apply.	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending
Mating Characteristics	3.7	See interface dimensions shown on Page 50. Applicable to Females only: over size pin .021 minimum diameter .045 deep; Insertion force 3 pounds maximum with .0208 minimum diameter pin; withdrawal force 1 ounce minimum with .0195 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be + 200°C.
Recommended Mating Torque		5-7 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 190 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

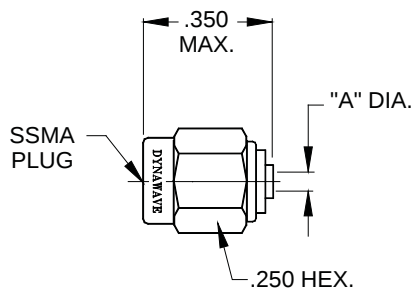
ssma • semi rigid cable connectors

male, plug, straight with center contact



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9200-4720-6200	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 36.0 GHz.
9200-8520-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 36.0 GHz.

male, plug, straight, low profile with no center contact

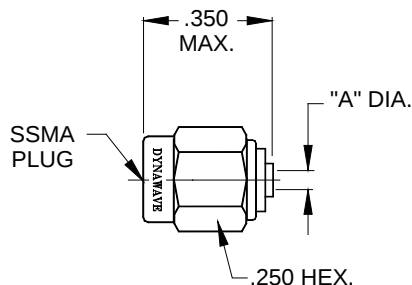


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9200-8520-6244	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 60.0 GHz.
9200-8526-2300	.089 MIN.	RG 405/U (.085)	BRASS	DC - 60.0 GHz.

Specifications are subject to change without notice

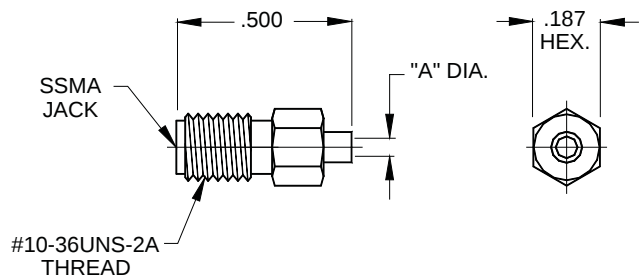
ssma • semi rigid cable connectors

male, plug, straight, retractable coupling nut, without center contact



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9600-8526-2401	.089 MIN.	RG 405/U (.085)	BRASS	DC - 60.0 GHz.

female, jack, straight

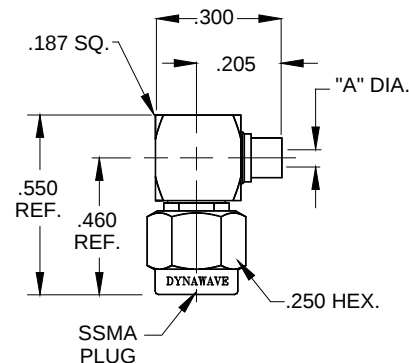


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9300-4721-6444	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 36.0 GHz.
9300-8521-6444	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

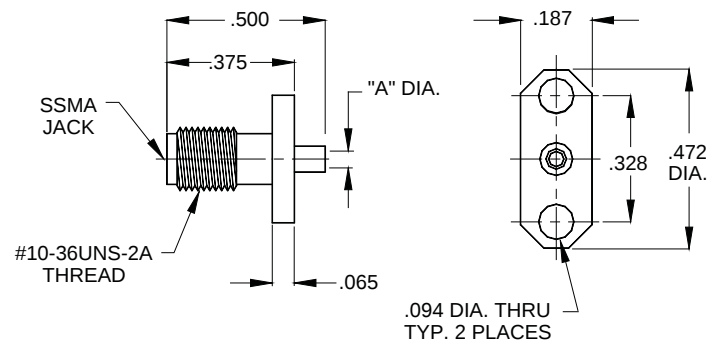
ssma • semi rigid cable connectors

male, plug, right angle



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9201-4721-6420	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 12.4 GHz.
9201-8521-6420	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 12.4 GHz.

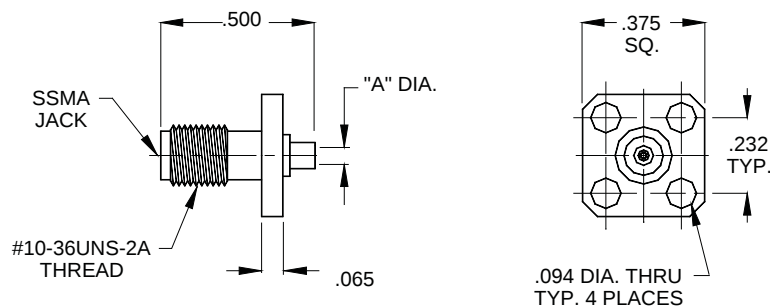
female, jack, 2 hole flange mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9752-4725-6440	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 46.0 GHz.
9352-8525-6440	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 36.0 GHz.

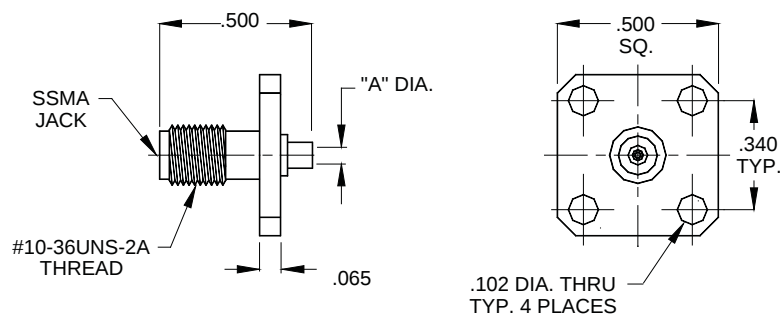
ssma● semi rigid cable connectors

female, jack, 4 hole flange mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9754-4722-6440	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 46.0 GHz.
9354-8522-6440	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 36.0 GHz.

female, jack, 4 hole flange mount

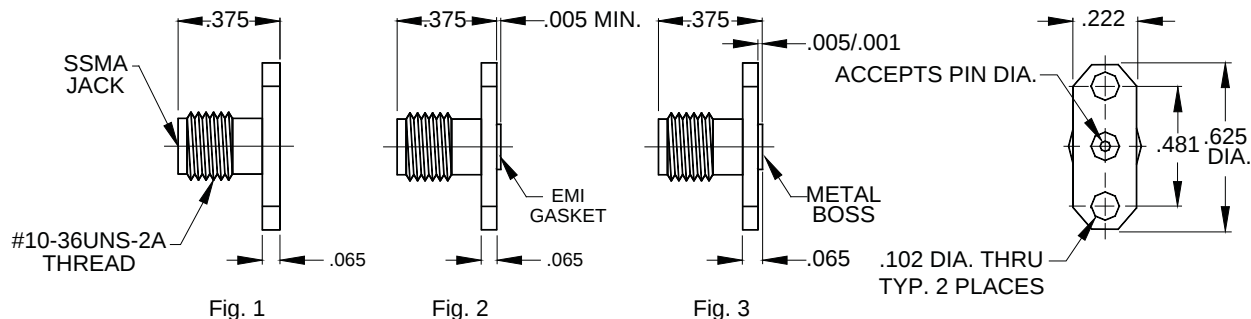


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9754-4721-6400	.051 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 46.0 GHz.
9354-8521-6400	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 36.0 GHz.

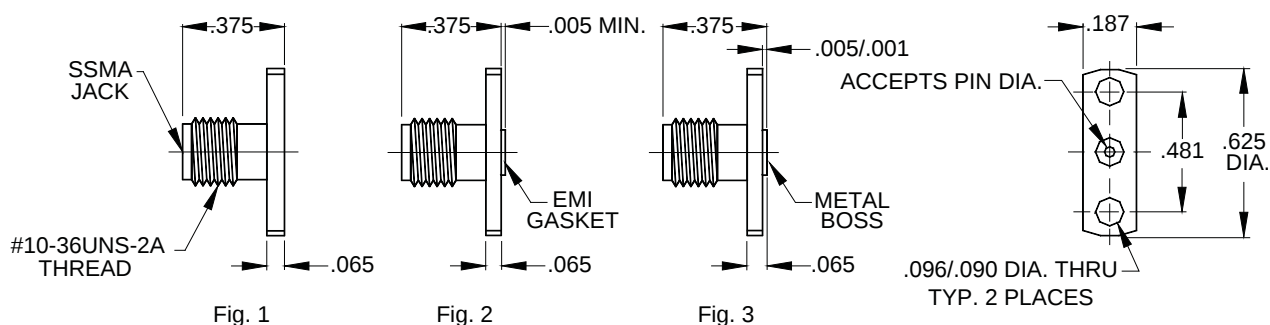
Specifications are subject to change without notice

ssma • field replaceable connectors

female, jack, 2 hole flange mount



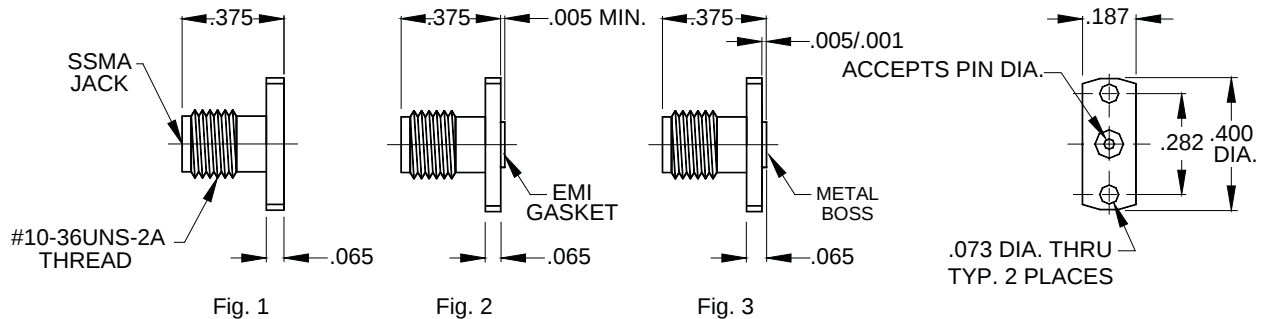
PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9352-0081-6201	1	.016/.011	DC - 36.0 GHz.
9352-0781-6201	2	.016/.011	DC - 36.0 GHz.
9352-0881-6201	3	.016/.011	DC - 36.0 GHz.
9752-0081-6201	1	.016/.011	DC - 46.0 GHz.
9752-0781-6201	2	.016/.011	DC - 46.0 GHz.
9752-0881-6201	3	.016/.011	DC - 46.0 GHz.



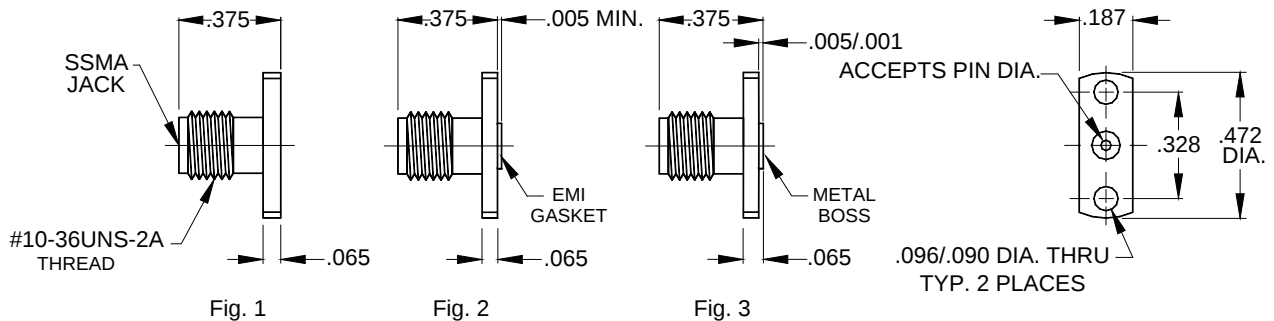
PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9352-0081-6202	1	.016/.011	DC - 36.0 GHz.
9352-0781-6202	2	.016/.011	DC - 36.0 GHz.
9352-0881-6202	3	.016/.011	DC - 36.0 GHz.
9752-0081-6203	1	.016/.011	DC - 46.0 GHz.
9752-0781-6203	2	.016/.011	DC - 46.0 GHz.
9752-0881-6203	3	.016/.011	DC - 46.0 GHz.

ssma • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9752-0081-6211	1	.016/.011	DC - 46.0 GHz.
9752-0781-6211	2	.016/.011	DC - 46.0 GHz.
9752-0881-6211	3	.016/.011	DC - 46.0 GHz.

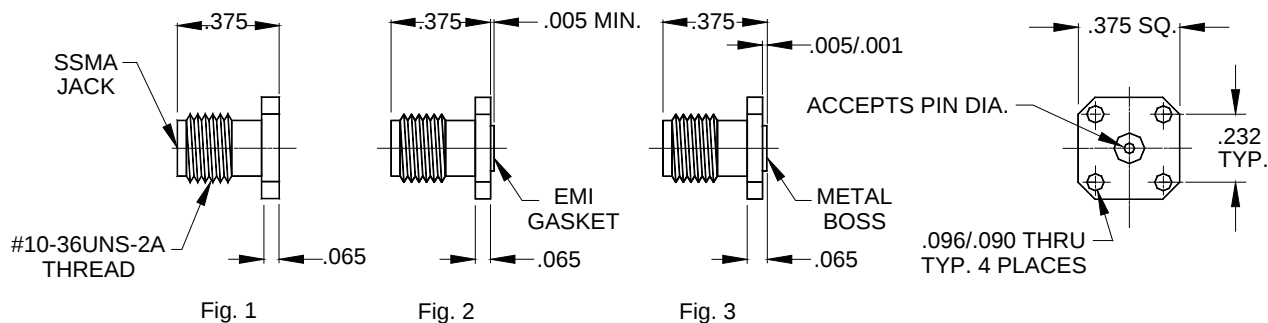


PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9352-0081-6200	1	.016/.011	DC - 36.0 GHz.
9352-0781-6200	2	.016/.011	DC - 36.0 GHz.
9352-0881-6200	3	.016/.011	DC - 36.0 GHz.
9352-0081-6220	1	.021/.017	DC - 36.0 GHz.
9352-0781-6220	2	.021/.017	DC - 36.0 GHz.
9352-0881-6220	3	.021/.017	DC - 36.0 GHz.
9752-0081-6215	1	.016/.011	DC - 46.0 GHz.
9752-0781-6215	2	.016/.011	DC - 46.0 GHz.
9752-0881-6215	3	.016/.011	DC - 46.0 GHz.

Specifications are subject to change without notice

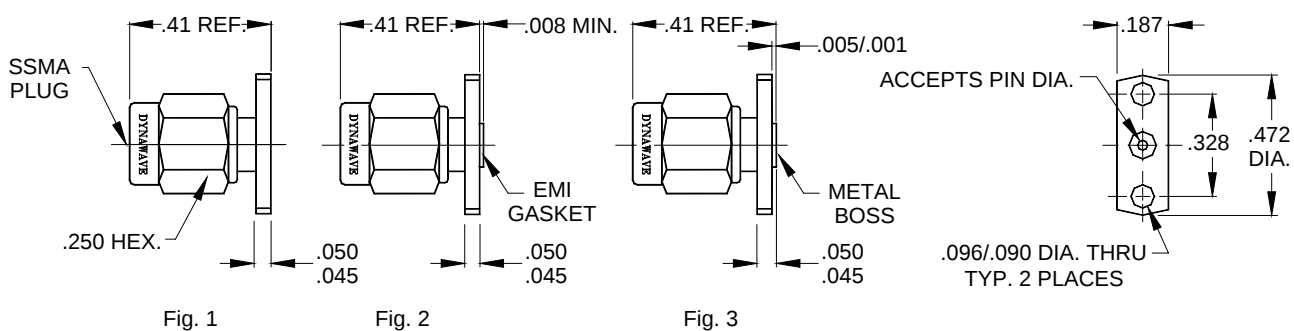
ssma • field replaceable connectors

female, jack, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9354-0081-6215	1	.016/.011	DC - 36.0 GHz.
9354-0781-6215	2	.016/.011	DC - 36.0 GHz.
9354-0881-6215	3	.016/.011	DC - 36.0 GHz.
9354-0081-6218	1	.019/.014	DC - 36.0 GHz.
9354-0781-6218	2	.019/.014	DC - 36.0 GHz.
9354-0881-6218	3	.019/.014	DC - 36.0 GHz.
9754-0081-6215	1	.016/.011	DC - 46.0 GHz.
9754-0781-6215	2	.016/.011	DC - 46.0 GHz.
9754-0881-6215	3	.016/.011	DC - 46.0 GHz.
9754-0081-6218	1	.019/.014	DC - 46.0 GHz.
9754-0781-6218	2	.019/.014	DC - 46.0 GHz.
9754-0881-6218	3	.019/.014	DC - 46.0 GHz.

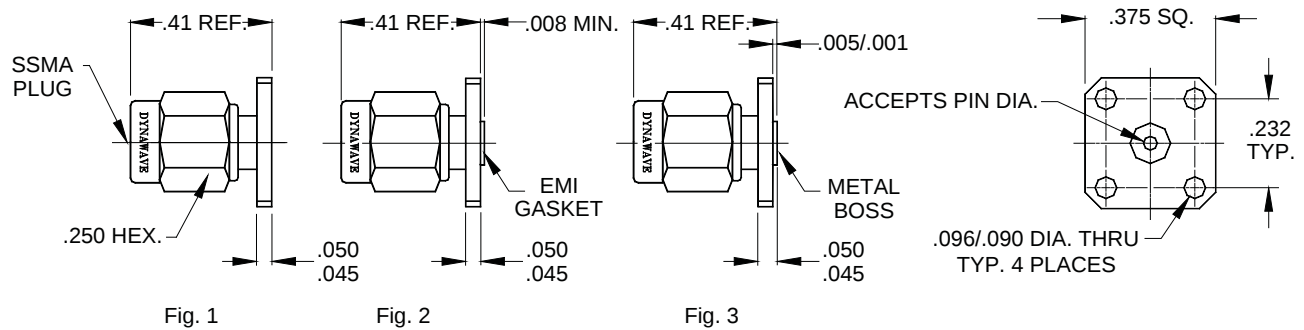
male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9252-0081-6215	1	.016/.011	DC - 36.0 GHz.
9252-0781-6215	2	.016/.011	DC - 36.0 GHz.
9252-0881-6215	3	.016/.011	DC - 36.0 GHz.
9652-0081-6215	1	.016/.011	DC - 46.0 GHz.
9652-0781-6215	2	.016/.011	DC - 46.0 GHz.
9652-0881-6215	3	.016/.011	DC - 46.0 GHz.

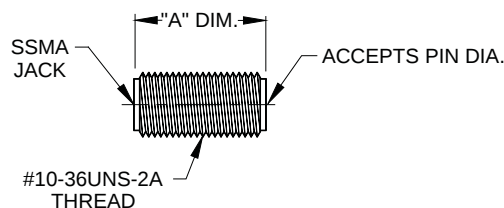
ssma • field replaceable connectors

male, plug, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9254-0081-6215	1	.016/.011	DC - 36.0 GHz.
9254-0781-6215	2	.016/.011	DC - 36.0 GHz.
9254-0881-6215	3	.016/.011	DC - 36.0 GHz.
9654-0081-6215	1	.016/.011	DC - 46.0 GHz.
9654-0781-6215	2	.016/.011	DC - 46.0 GHz.
9654-0881-6215	3	.016/.011	DC - 46.0 GHz.

female, jack, thread-in



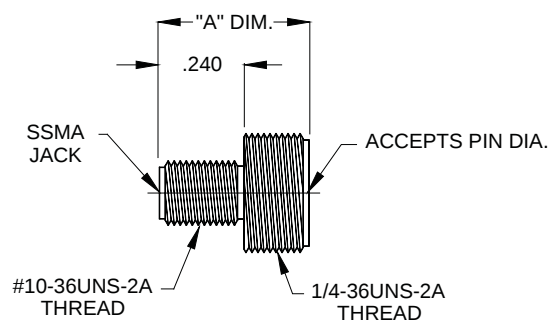
TORQUE TOOL : 93-TORQUE-20

PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	FREQUENCY RANGE
9330-0081-6212	.016/.011	.450	DC - 36.0 GHz.
9330-0081-6214	.016/.011	.400	DC - 36.0 GHz.
9330-0881-6218	.016/.011	.800	DC - 36.0 GHz.
9730-0081-6215	.016/.011	.375	DC - 46.0 GHz.
9730-0081-6218	.019/.014	.375	DC - 46.0 GHz.

Specifications are subject to change without notice

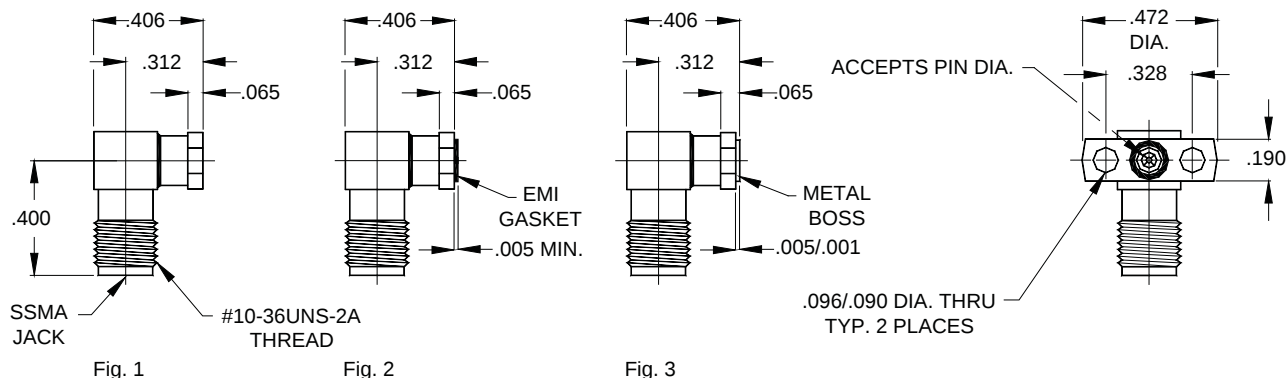
ssma • field replaceable connectors

female, jack, thread-in



PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	FREQUENCY RANGE
9330-0081-6275	.016/.011	.375	DC - 36.0 GHz.
9330-0081-6280	.021/.017	.375	DC - 36.0 GHz.

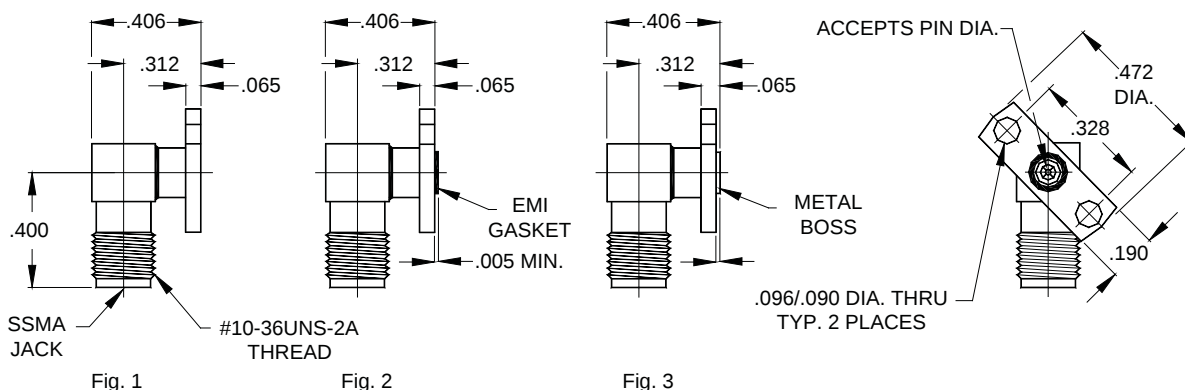
female, jack, 2 hole, right angle, flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9756-0081-6215	1	.016/.011	DC - 40.0 GHz.
9756-0781-6215	2	.016/.011	DC - 40.0 GHz.
9756-0881-6215	3	.016/.011	DC - 40.0 GHz.
9756-0081-6220	1	.021/.017	DC - 40.0 GHz.
9756-0781-6220	2	.021/.017	DC - 40.0 GHz.
9756-0881-6220	3	.021/.017	DC - 40.0 GHz.

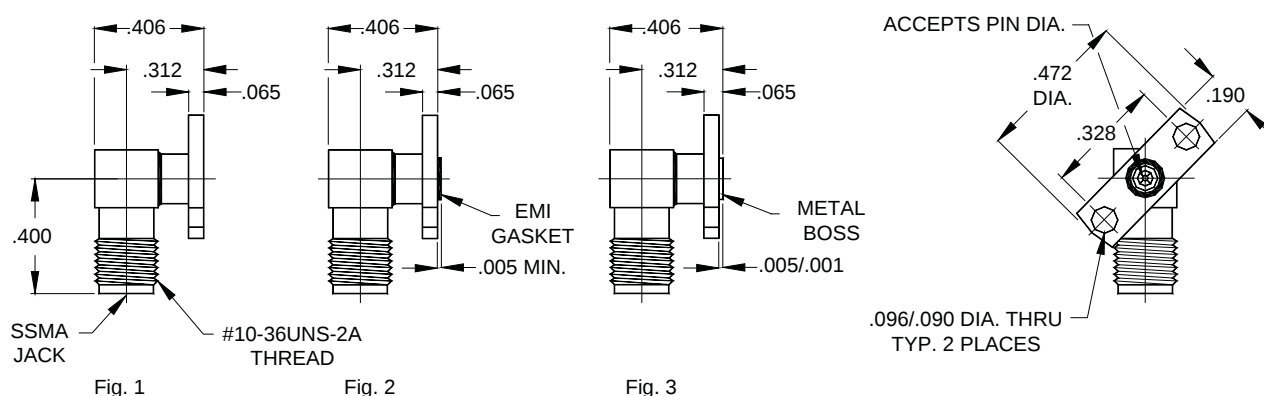
ssma • field replaceable connectors

female, jack, 2 hole, right angle, flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9756-2081-6213	1	.016/.011	DC - 40.0 GHz.
9756-2781-6213	2	.016/.011	DC - 40.0 GHz.
9756-2881-6213	3	.016/.011	DC - 40.0 GHz.
9756-2081-6223	1	.021/.017	DC - 40.0 GHz.
9756-2781-6223	2	.021/.017	DC - 40.0 GHz.
9756-2881-6223	3	.021/.017	DC - 40.0 GHz.

female, jack, 2 hole, right angle, flange mount

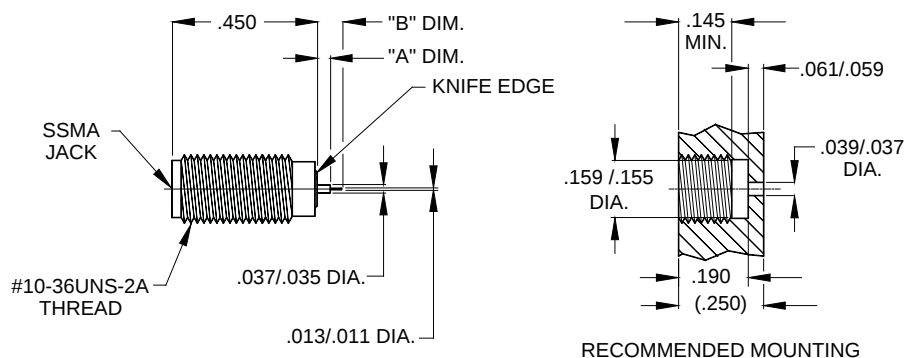


PART NUMBER	Fig.	ACCEPTS PIN DIA.	FREQUENCY RANGE
9756-1081-6213	1	.016/.011	DC - 40.0 GHz.
9756-1781-6213	2	.016/.011	DC - 40.0 GHz.
9756-1881-6213	3	.016/.011	DC - 40.0 GHz.
9756-1081-6223	1	.021/.017	DC - 40.0 GHz.
9756-1781-6223	2	.021/.017	DC - 40.0 GHz.
9756-1881-6223	3	.021/.017	DC - 40.0 GHz.

Specifications are subject to change without

ssma • hermetic connectors

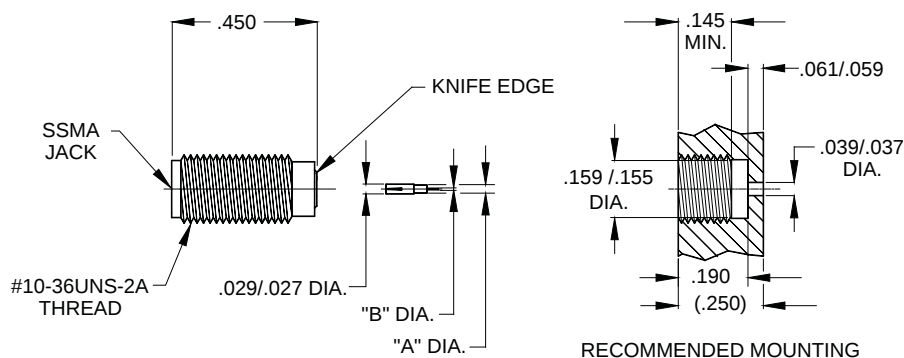
female, jack, thread-in “sparkplug”



TORQUE TOOL : 93-TORQUE-20

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9330-0431-6465	.063/.057	.075	STAINLESS STEEL	DC - 36.0 GHz.
9330-0431-6461	.059/.053	.082	STAINLESS STEEL	DC - 36.0 GHz.
9330-0431-6464	.043/.038	.085/.078	STAINLESS STEEL	DC - 36.0 GHz.
9330-0431-6460	.063/.057	.100	STAINLESS STEEL	DC - 36.0 GHz.
9330-0431-6466	.059/.053	.100	STAINLESS STEEL	DC - 36.0 GHz.
9330-0431-6462	.063/.057	.105	STAINLESS STEEL	DC - 36.0 GHz.

female, jack, thread-in “sparkplug” sliding contact

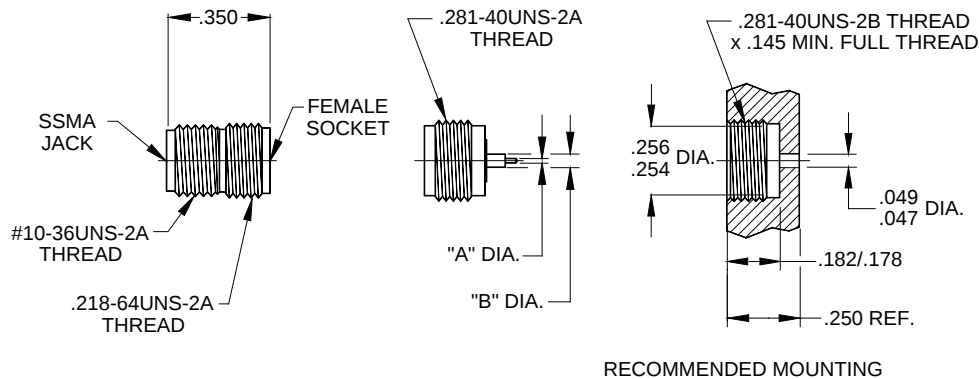


TORQUE TOOL : 93-TORQUE-20

PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9330-0441-6415	.0175/.0160	.014/.011	STAINLESS STEEL	DC - 36.0 GHz.

ssma • hermetic connectors

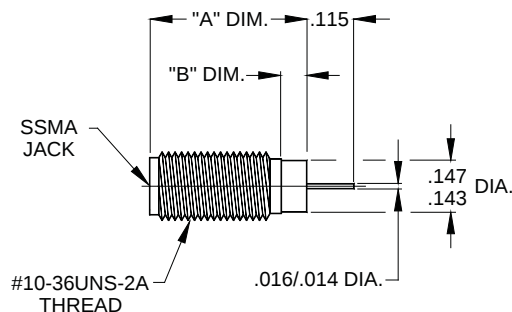
female, jack, thread-in, knife edge, field replaceable “sparkplug”



TORQUE TOOL : 93-TORQUE-30

PART NUMBER	"A" DIA.	"B" DIA.	MATERIAL TYPE	FREQUENCY RANGE
9333-0431-6215	.016/.015	.046/.044	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, solder-in

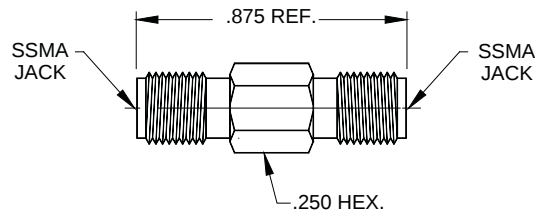


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
9740-0431-6415	.437	.189/.185	STAINLESS STEEL	DC - 26.5 GHz.
9740-0431-6416	.335	.095/.091	STAINLESS STEEL	DC - 26.5 GHz.
9740-0431-6418	.400	.187/.185	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

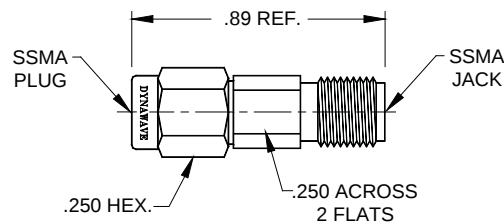
ssma • in-series adapters

straight, female, jack to female, jack



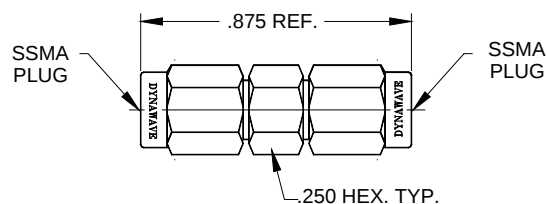
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9393-6200	STAINLESS STEEL	DC - 36.0 GHz.

straight, male, plug to female, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9293-6220	STAINLESS STEEL	DC - 36.0 GHz.

straight, male, plug to male, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9292-6200	STAINLESS STEEL	DC - 36.0 GHz.



smp

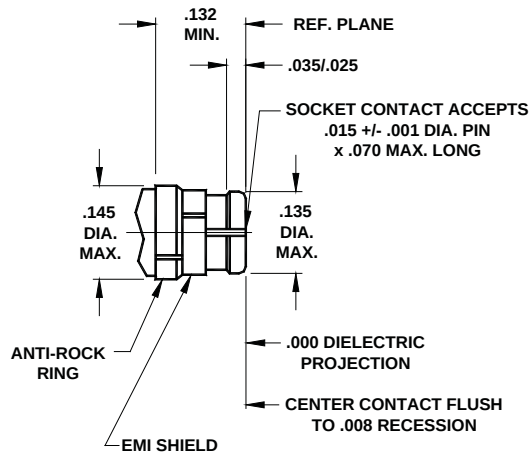


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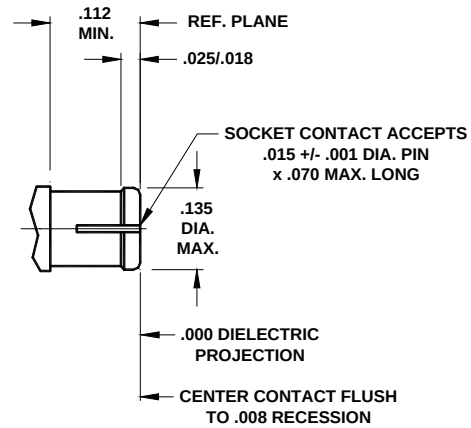
smp interface

socket (cable)



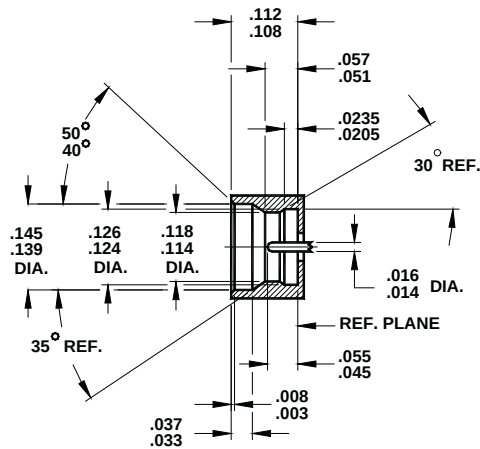
Mil-Std-348A
Fig. 326.1a

socket (adapter)

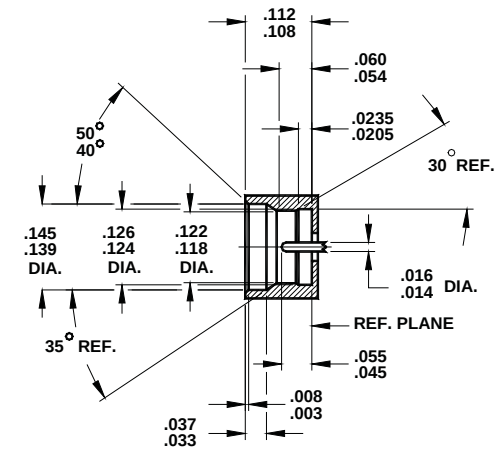


Mil-Std-348A
Fig. 326.1

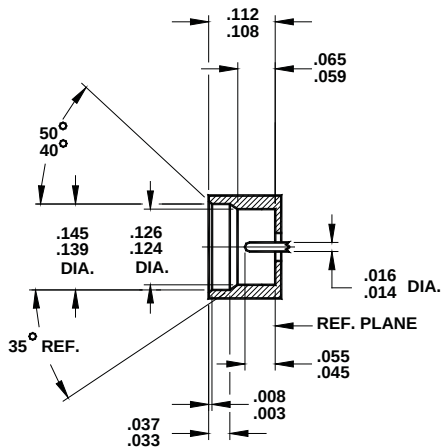
pin (shroud)



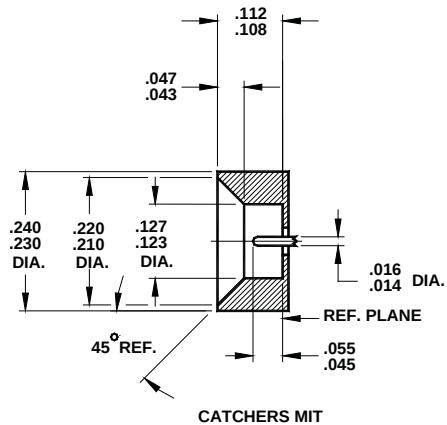
Mil-Std-348A
Fig. 326.2



Mil-Std-348A
Fig. 326.3

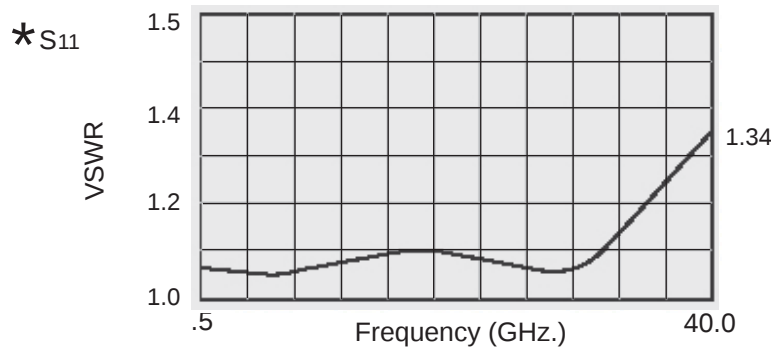


Mil-Std-348A
Fig. 326.4



Mil-Std-348A
Fig. 326.5

smp specifications



The Dynawave **SMP** socket adapter, P/N 1100-2020-5450 has a Maximum VSWR of 1.35 : 1 through 40.0 Ghz. compared to DSCC published specification of 1.70 : 1 (DSCC P/N 94007ZCG-1)

* ELECTRICAL :

Frequency Range	DC TO 40.0 GHz.
*VSWR Max.	1.10 DC TO 23.0 GHz. 1.15 : 23.0 GHz. TO 26.5 GHz. 1.35 : 26.5 GHz. TO 40.0 GHz.
Insertion Loss	.10 dB x F/GHz.
Nominal Impedance (OHMS)	50
Voltage Rating (Max. VRMS)	170
RF Leakage (Min. dB down, fully mated)	-80 dB - F/GHz. TO 3.0 GHz. -65 dB FROM 3.0 TO 26.5 GHz. MIN.
Temperature Rating (Degrees Centigrade)	-65 °C TO +165 °C
Dielectric Withstanding Voltage (Max. VRMS)	500
Insulation Resistance (Min. MEGOHMS)	5,000
Center Contact (Socket) Resistance (Max. MILLIOHMS)	6.0
Outer Contact Resistance (Max. MILLIOHMS)	2.0

* DYNAWAVE P/N 1100-2020-5450 DSCC P/N 94007ZCG-1

MECHANICAL :

CAPTIVATION-CENTER CONTACT

MINIMUM AXIAL FORCE : 1.5 LBS.
MINIMUM RADIAL TORQUE : N/A

MATING FORCES

Engagement (Max. Lbs.)	Full Detent 15.0, Limited Detent 10.0, Smooth Bore 2.0
Disengagement (Min. Lbs.)	Full Detent 5.0, Limited Detent 2.0, Smooth Bore 0.5
Durability (Max. Matings)	Full Detent (100), Limited Detent (250), Smooth Bore (1,000)
Axial Displacement (Inches)	.000/.010
Total Radial Misalignment (Inches)	.010 (.020 FOR DSCC #94007ZSP-6SC ONLY)

ENVIRONMENTAL :

Temperature Cycling	MIL-STD-202, Method 102, Cond. C (-65 °C TO + 165 °C)
Shock	MIL-STD-202, Method 213, Cond. 1 (100 G's)
Vibration	MIL-STD-202, Method 204, Cond. D (20 G's)
Barometric Pressure (Altitude)	MIL-STD-202, Method 105, Cond. C (70,000 FT.)(125 VRMS)
Thermal Shock	MIL-STD-202, METHOD 107, COND. B (HIGH TEMP. 165 °C)
Temperature Rating	-65 °C TO +165 °C

MATERIAL / FINISH :

ADAPTER BODY

Beryllium Copper per ASTM B196/B, 196M-03 Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

SHROUD (PIN) HERMETIC SEAL - WITH 7070 GLASS BEAD

Iron Nickel Alloy per MIL-I-23011 (Kovar)
Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS 2700, Type 2, CLASS 4.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

SHROUD (PIN) NON-HERMETIC

Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS 2700, Type 2, CLASS 4.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

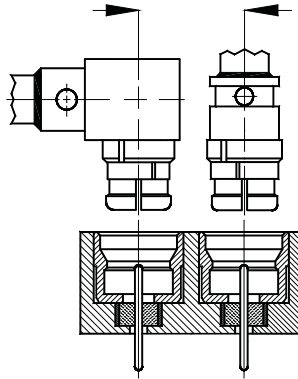
CENTER CONTACT (SOCKET)

Beryllium Copper per ASTM B196/B, 196M-03, Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

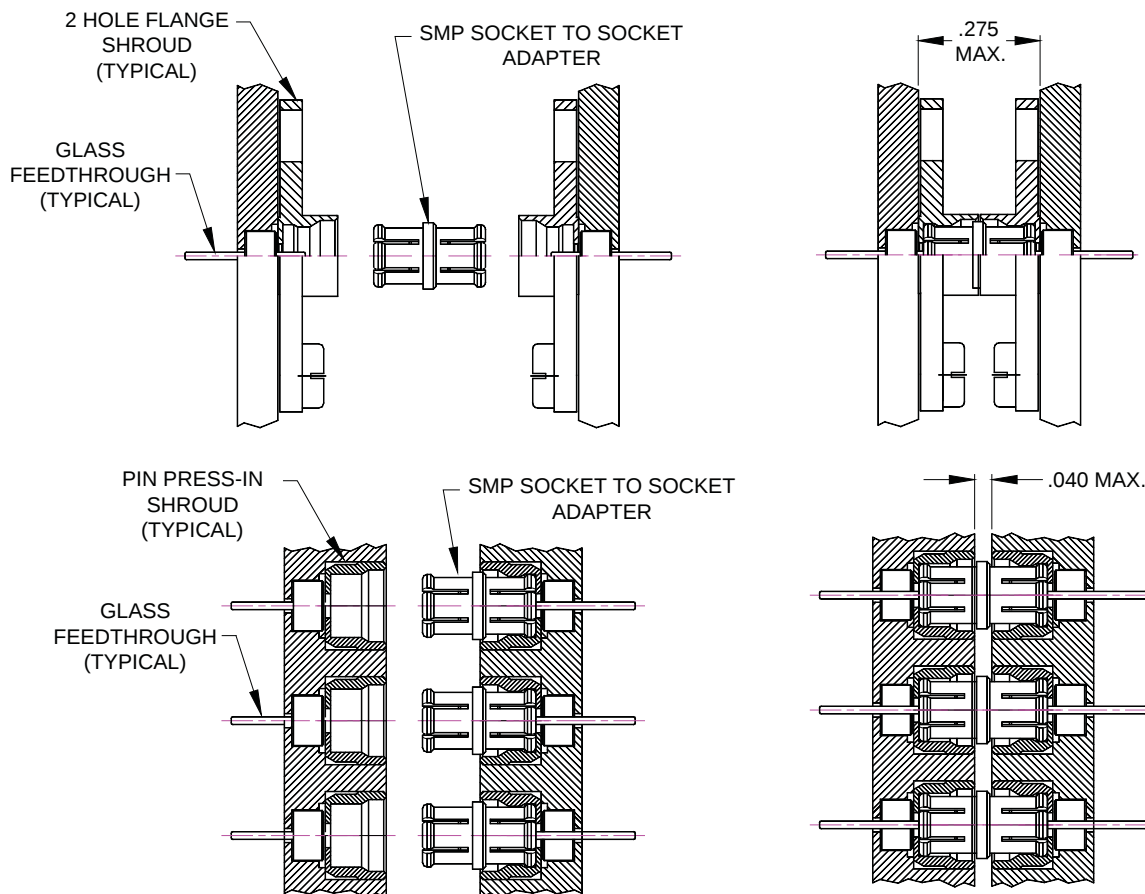
INSULATOR

TEFLON PER ASTM D1710, Type 1, Class 1, Grade B.

smp application notes



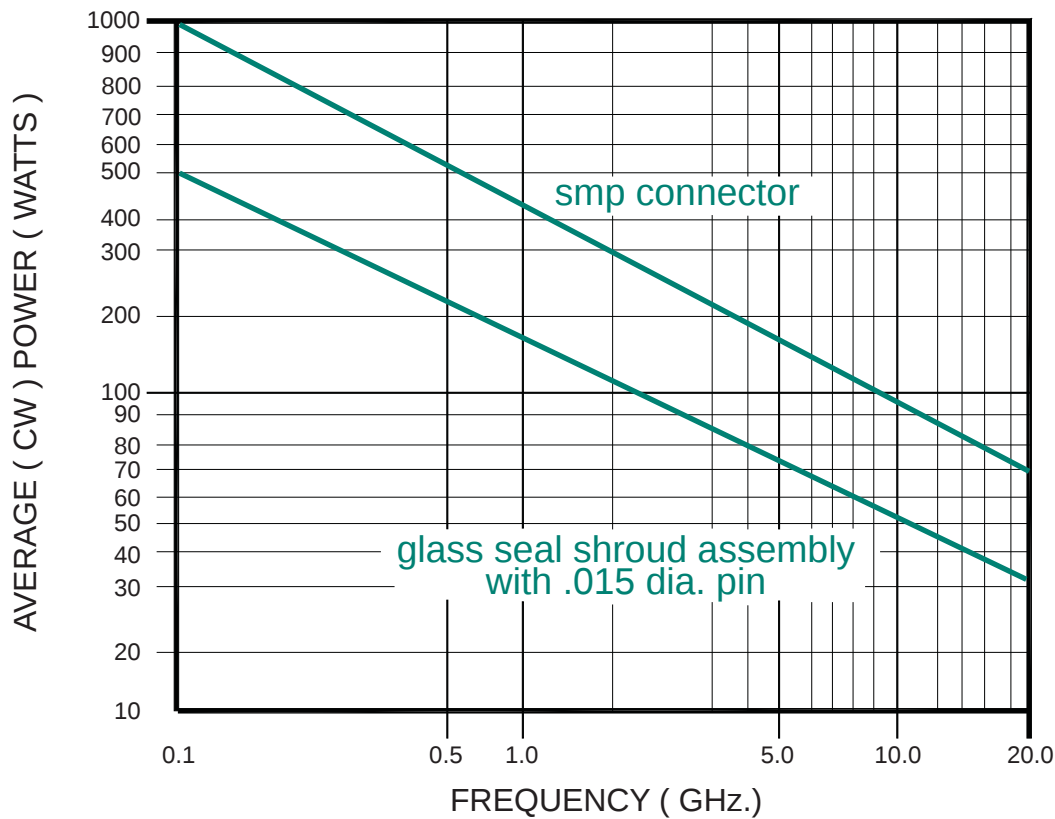
The Dynawave **SMP** series of connectors are designed to minimize MIC package size and reduce valuable mounting space. The low profile design will allow module to module mounting with a center to center dimension of .170 inches. The **SMP** cable connectors straight and right angle as shown are designed for .047 and .085 semi-rigid cables.



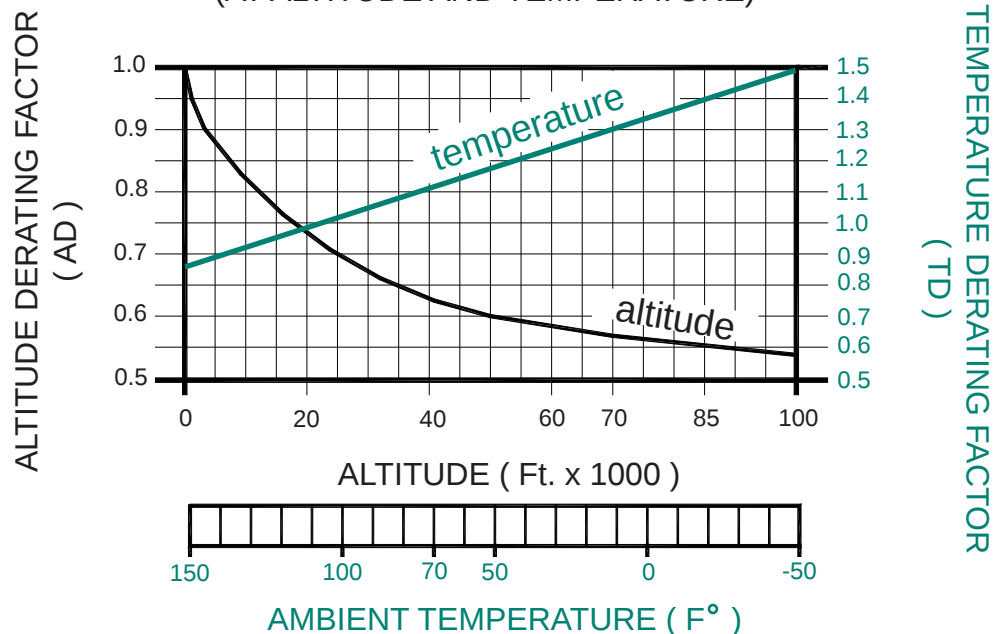
The Dynawave **SMP** 2 hole flange mount connectors or press-in shrouds are designed to reduce valuable mounting space thus allowing modules to be significantly reduced in size to maintain a low profile. The shrouds are used with a glass bead assembly to complete the coaxial interface. Hermetic Shroud designs consisting of Body, Pin and Glass are available to eliminate multi-component assemblies. The smooth bore interface allows the component engineers to mate multiple connectors at one time. Non-standard interfaces for customer unique engagement and disengagement designs are available upon request.

smp power ratings

AVERAGE (CW) POWER RATING
(AT SEA LEVEL & +100 °F TEMPERATURE)



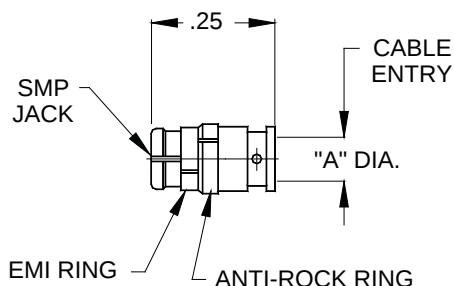
AVERAGE (CW) POWER DERATING FACTOR
(AT ALTITUDE AND TEMPERATURE)



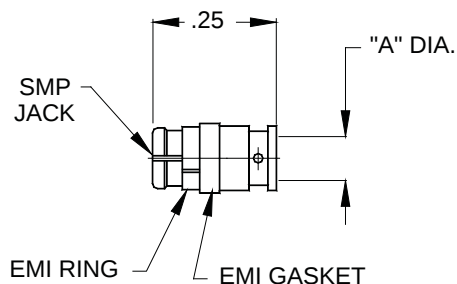
$$\text{MAXIMUM OPERATING POWER} = \text{POWER RATING} \times \text{AD} \times \text{TD}$$

smp • semi rigid cable connectors

female, jack, straight

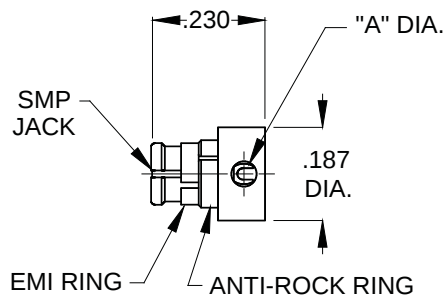


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ. RANGE
2000-3420-5400	.036 MIN.	.034 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.
2000-4720-5425	.049 MIN.	.047 S.R.	BERYLLIUM	94008ZCG-2	DC - 40.0 GHz.
2000-8520-5425	.089 MIN.	RG405/U (.085)	BERYLLIUM	94008ZCG-1	DC - 40.0 GHz.



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ. RANGE
2000-3427-5400	.036 MIN.	.034 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.
2000-4727-5425	.049 MIN.	.047 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.
2000-8527-5425	.089 MIN.	RG405/U (.085)	BERYLLIUM	-----	DC - 40.0 GHz.

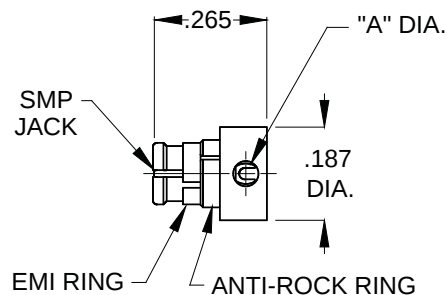
female, jack, right angle



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ. RANGE
2001-4720-5425	.049 MIN.	.047 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.

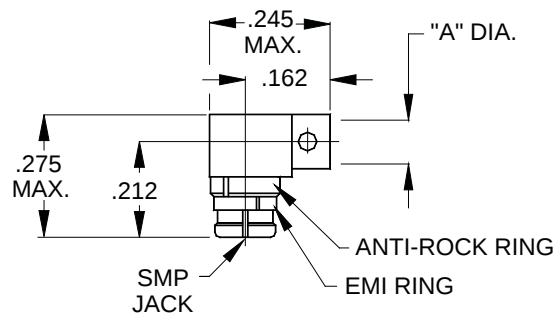
smp • semi rigid cable connectors

female, jack, right angle



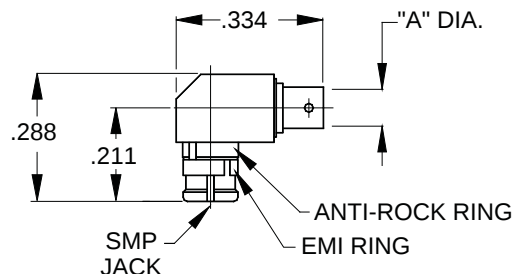
PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
2001-4720-5400	.049 MIN.	.047 S.R.	BERYLLIUM	94008ZCG-6	DC - 12.5 GHz.
2001-8520-5425	.089 MIN.	RG405/U (.085)	BERYLLIUM	94008ZCG-5	DC - 12.5 GHz.

female, jack, right angle



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
2001-4720-5444	.049 MIN.	.047 S.R.	BERYLLIUM	94008ZCG-4	DC - 12.5 GHz.
2001-8520-5444	.089 MIN.	RG405/U (.085)	BERYLLIUM	94008ZCG-3	DC - 12.5 GHz.

female, jack, right angle

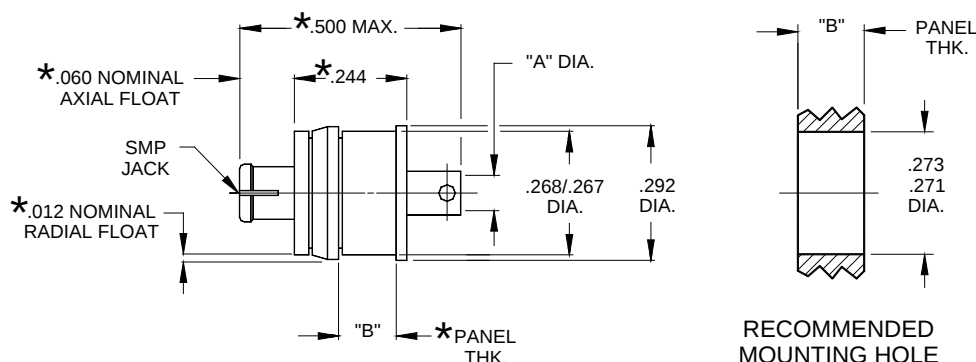


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
2001-4720-5429	.049 MIN.	.047 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.
2001-8520-5429	.089 MIN.	RG405/U (.085)	BERYLLIUM	-----	DC - 40.0 GHz.

Specifications are subject to change without notice

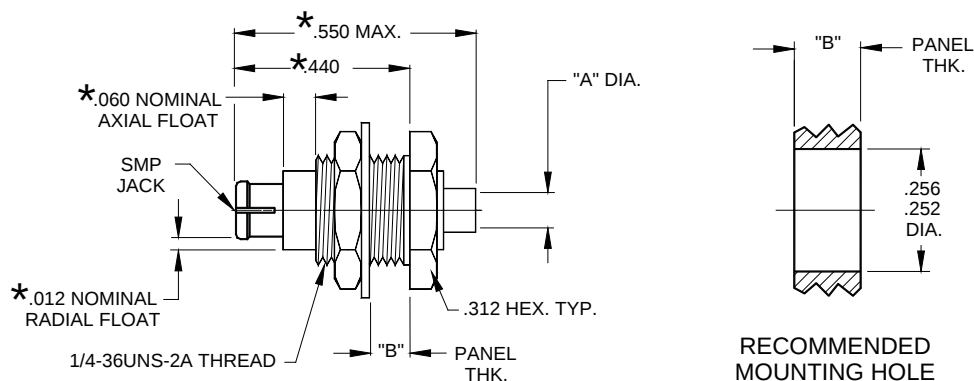
smp • semi-rigid cable connectors

female, jack, bulkhead, float mount



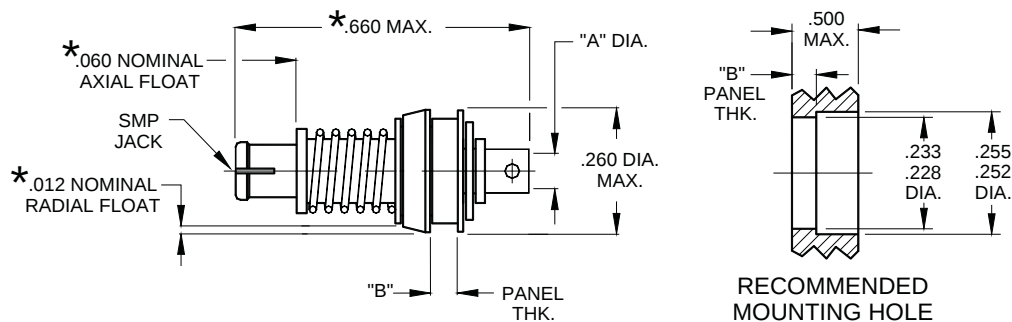
PART NUMBER	"A" DIM.	"B" DIM.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2060-4720-5400	.049 MIN.	.125	.047 SEMI-RIGID	BERYLLIUM	DC - 26.5 GHz.
2060-8520-5441	.089 MIN.	.093	RG405/U (.085)	BERYLLIUM	DC - 26.5 GHz.

female, jack, bulkhead, float mount



PART NUMBER	"A" DIM.	"B" DIM.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2060-4720-5425	.049 MIN.	.125	.047 SEMI-RIGID	BERYLLIUM	DC - 26.5 GHz.
2060-8520-5440	.089 MIN.	.093	RG405/U (.085)	BERYLLIUM	DC - 26.5 GHz.

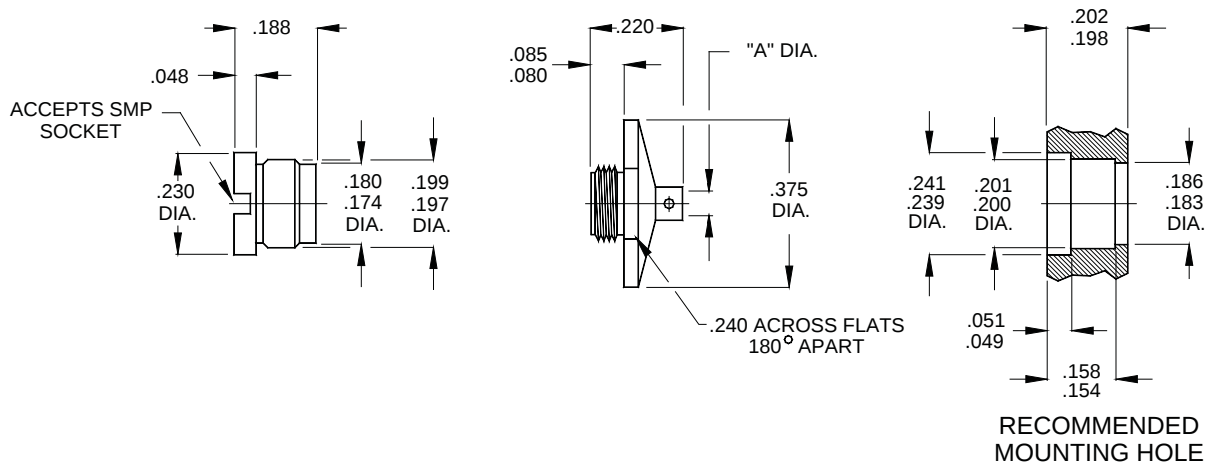
female, jack, bulkhead, float mount



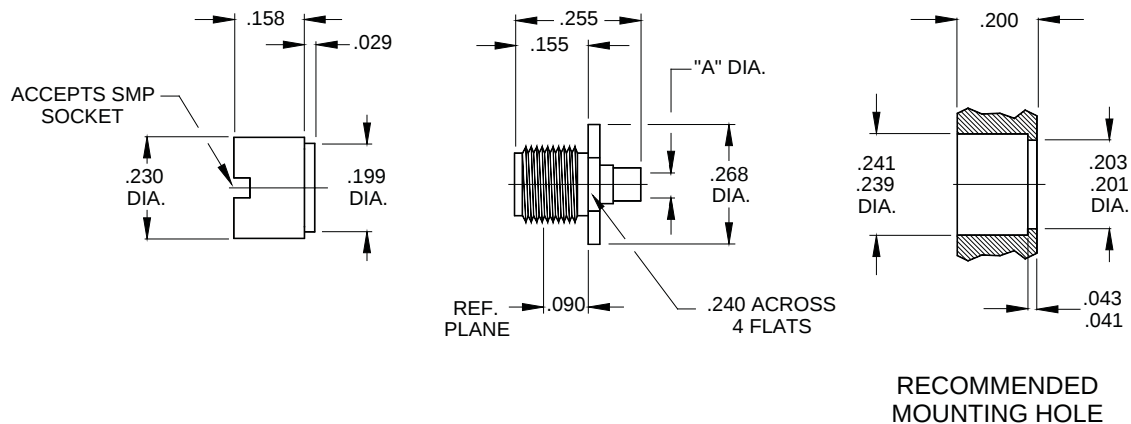
PART NUMBER	"A" DIM.	"B" DIM.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2060-4720-5455	.049 MIN.	.050	.047 SEMI-RIGID	BERYLLIUM	DC - 26.5 GHz.
2060-8520-5455	.089 MIN.	.050	RG405/U (.085)	BERYLLIUM	DC - 26.5 GHz.

smp • semi-rigid cable connectors

male, plug, bulkhead mount



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2110-4721-6200	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-4721-6200	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-4721-6200	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2110-8521-6204	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-8521-6204	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-8521-6204	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

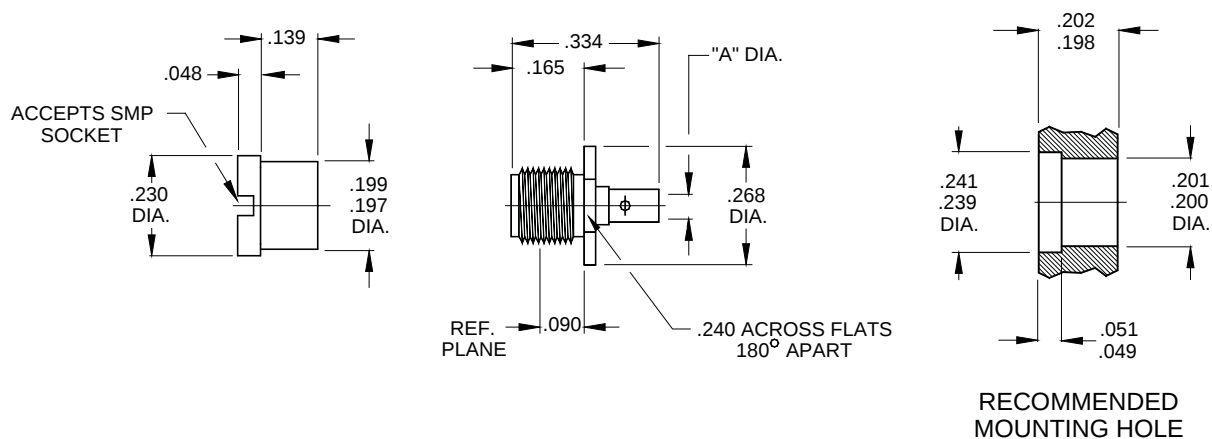


PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2110-4721-6201	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-4721-6201	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-4721-6201	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2110-8521-6203	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-8521-6203	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-8521-6203	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

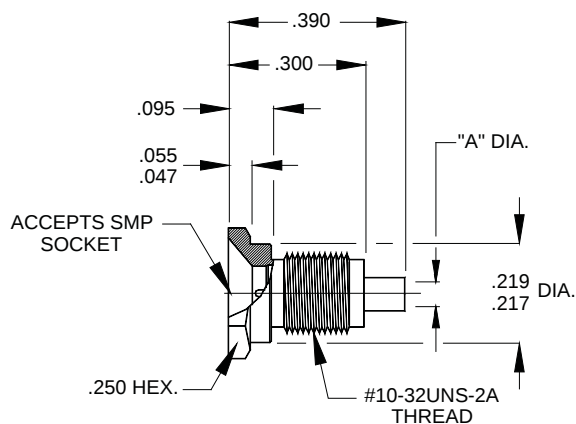
smp • semi-rigid cable connectors

male, plug, bulkhead mount



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2110-4725-6200	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-4725-6200	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-4725-6200	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2110-8525-6202	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2117-8525-6202	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2119-8525-6202	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

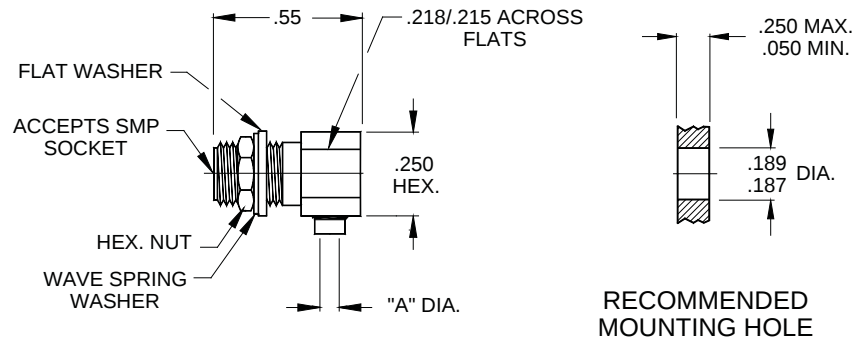
male, plug, catchers mitt, bulkhead mount



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2130-4720-6432	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2137-4720-6432	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2139-4720-6432	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2130-8520-6432	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2137-8520-6432	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2139-8520-6432	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

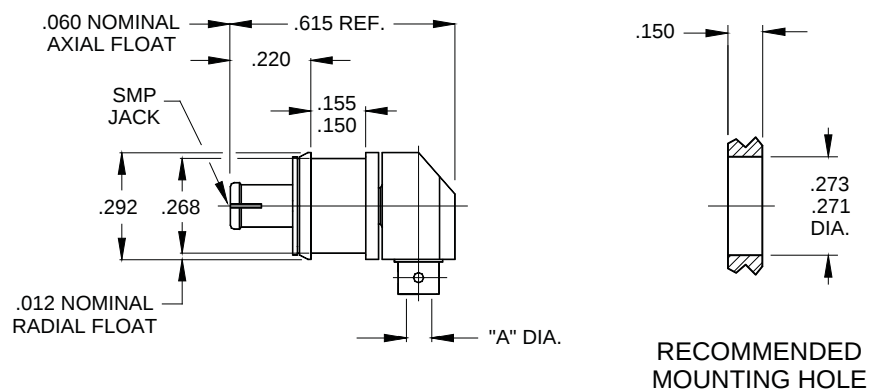
smp • semi-rigid cable connectors

male, plug, right angle, bulkhead mount



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2111-4720-6477	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 12.5 GHz.
2111-4727-6477	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 12.5 GHz.
2111-4729-6477	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 12.5 GHz.
2111-8520-6477	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 12.5 GHz.
2111-8527-6477	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 12.5 GHz.
2111-8529-6477	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 12.5 GHz.

female, jack, right angle, bulkhead float mount

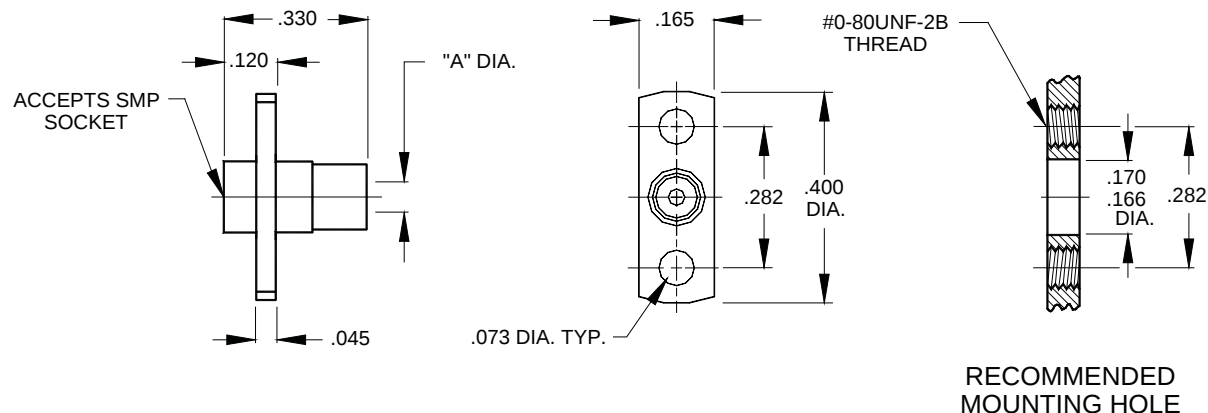


PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2061-4720-5441	.049 MIN.	.047 S.R.	N/A	BERYLLIUM	DC - 12.5 GHz.
2061-8520-5441	.089 MIN.	RG 405/U (.086)	N/A	BERYLLIUM	DC - 12.5 GHz.

Specifications are subject to change without notice

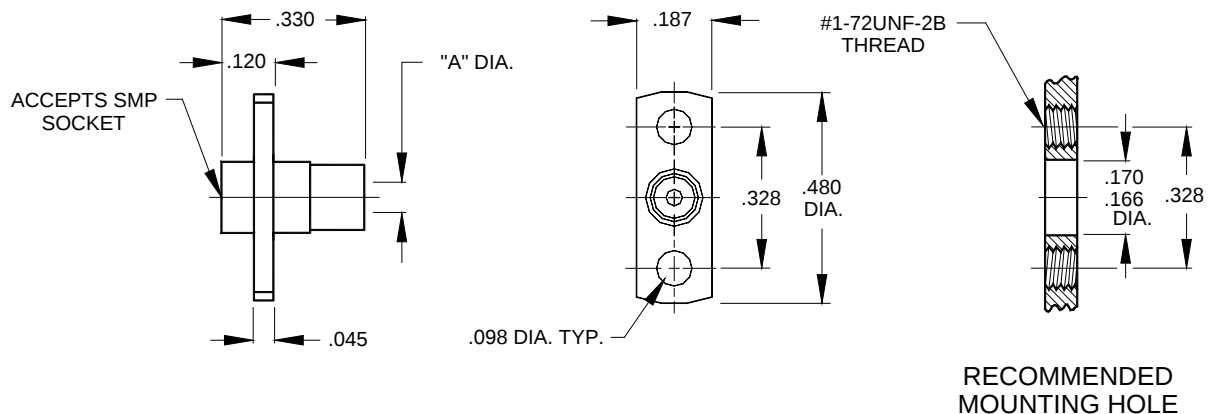
smp • shrouds and bushings

male, plug, flange mount shroud, direct solder .282 hole spacing



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2152-4720-6428	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-4720-6428	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-4720-6428	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2152-8520-6428	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-8520-6428	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-8520-6428	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

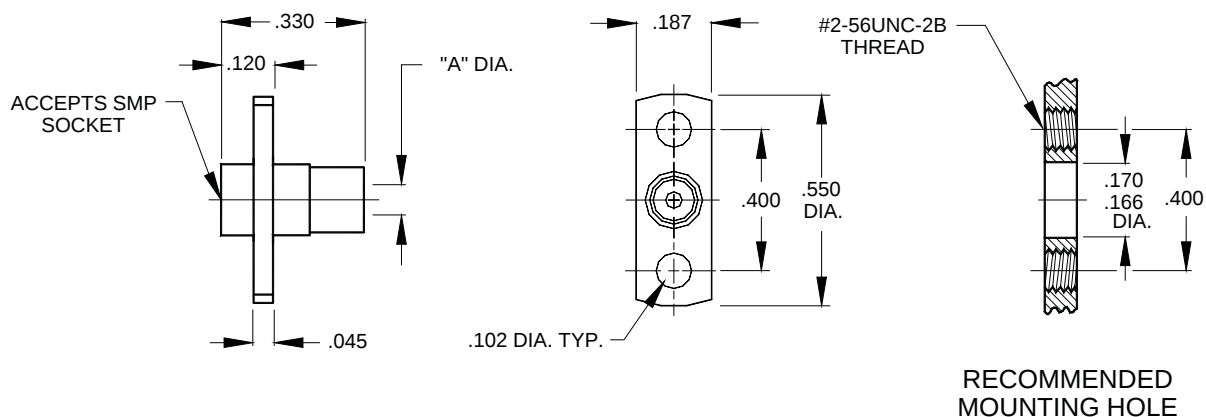
male, plug, flange mount shroud, direct solder .328 hole spacing



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2152-4720-6432	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-4720-6432	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-4720-6432	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2152-8520-6432	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-8520-6432	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-8520-6432	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

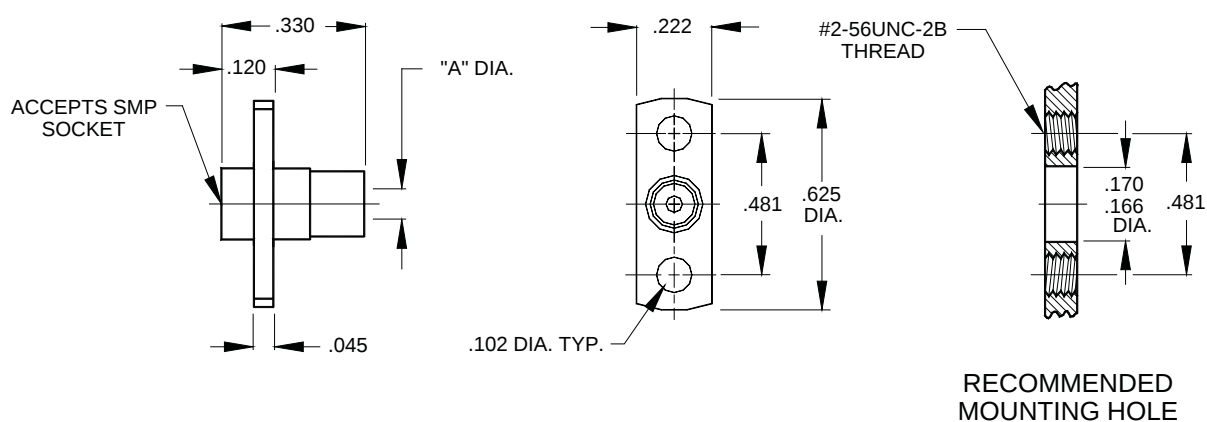
smp • shrouds and bushings

male, plug, flange mount shroud, direct solder .400 hole spacing



PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2152-4720-6440	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-4720-6440	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-4720-6440	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2152-8520-6440	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-8520-6440	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-8520-6440	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, flange mount shroud, direct solder .481 hole spacing

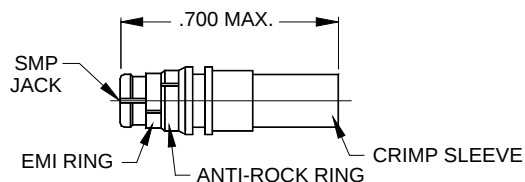


PART NUMBER	"A" DIM	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
2152-4720-6448	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-4720-6448	.049 MIN.	.047 S.R.	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-4720-6448	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.
2152-8520-6448	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2172-8520-6448	.089 MIN.	RG405/U (.085)	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.
2192-8520-6448	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

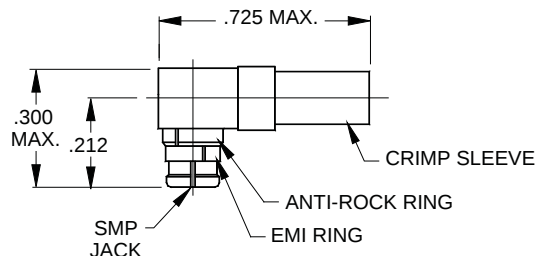
smp • flexible cable connectors

female, jack, straight, crimp attachment



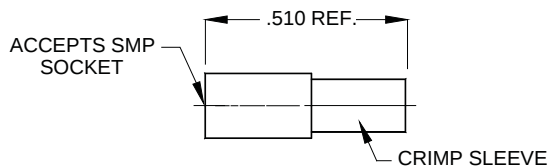
PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2000-1630-5435	RG 174/U, 188, 316	BERYLLIUM	DC - 4.0 GHz.
2000-7830-5435	RG 178/U, 196	BERYLLIUM	DC - 4.0 GHz.

female, jack, right angle, crimp attachment



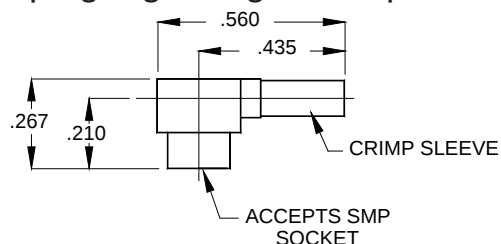
PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2001-1630-5444	RG 174/U, 188, 316	BERYLLIUM	DC - 4.0 GHz.
2001-7830-5444	RG 178/U, 196	BERYLLIUM	DC - 4.0 GHz.

male, plug, straight, crimp attachment



PART NUMBER	CABLE TYPE	FREQUENCY RANGE
2100-1630-5435	RG 174/U, 188, 316	DC - 4.0 GHz.
2100-7830-5435	RG 178/U, 196	DC - 4.0 GHz.

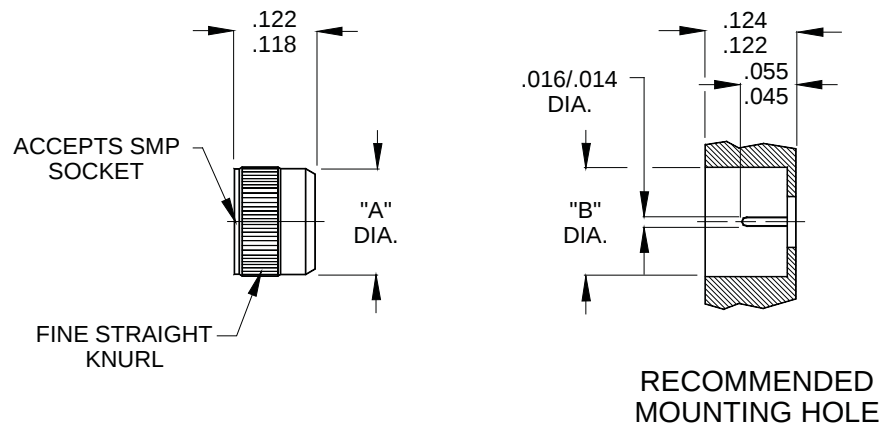
male, plug, right angle, crimp attachment



PART NUMBER	CABLE TYPE	FREQUENCY RANGE
2101-1630-5435	RG 174/U, 188, 316	DC - 4.0 GHz.
2101-7830-5435	RG 178/U, 196	DC - 4.0 GHz.

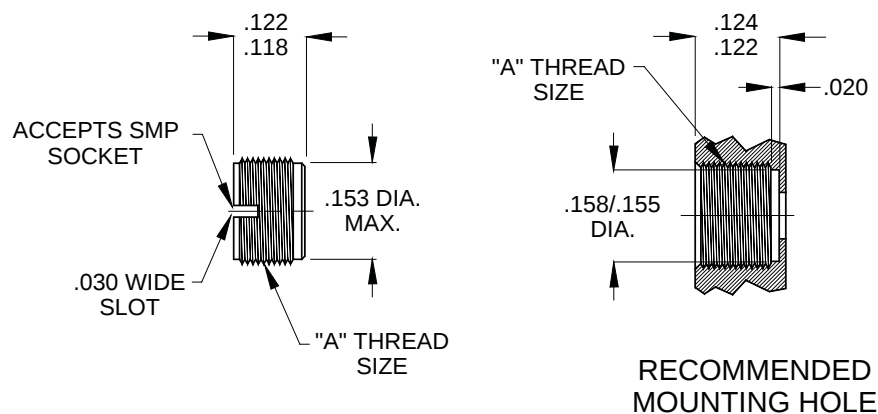
smp • shrouds and bushings

press-in shroud



PART NUMBER	"A" DIA.	"B" DIA.	MATERIAL TYPE	ENGAGEMENT TYPE	PRESS TOOL
9-21011	.155/.153	.151/.150	STAINLESS STEEL	FULL DETENT	9-20142-00
9-21000	.175/.173	.171/.170	STAINLESS STEEL	FULL DETENT	9-20142-00
9-21711	.155/.153	.151/.150	STAINLESS STEEL	LIMITED DETENT	9-20142-07
9-21718	.175/.173	.171/.170	STAINLESS STEEL	LIMITED DETENT	9-20142-07
9-21911	.155/.153	.151/.150	STAINLESS STEEL	SMOOTH BORE	9-20141-09
9-21918	.175/.173	.171/.170	STAINLESS STEEL	SMOOTH BORE	9-20142-09

thread-in shroud

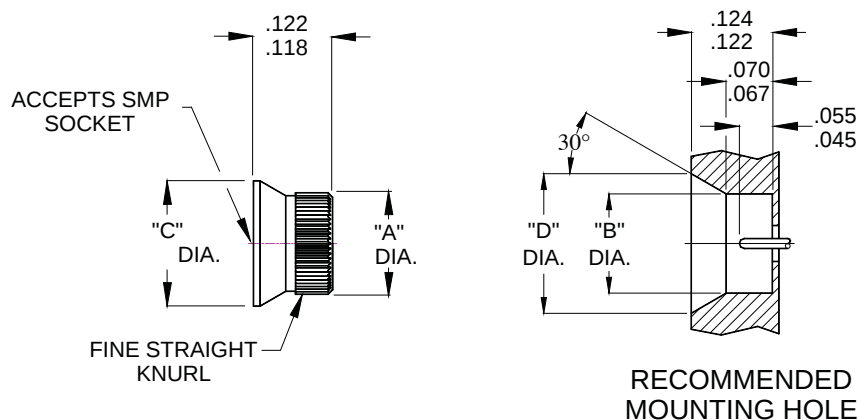


PART NUMBER	"A" THREAD SIZE	MATERIAL TYPE	ENGAGEMENT TYPE	TORQUE TOOL
9-21015	#10-48UNS-2A	STAINLESS STEEL	FULL DETENT	9-20164-00
9-21016	#10-36UNS-2A	STAINLESS STEEL	FULL DETENT	9-20164-00
9-21717	#10-48UNS-2A	STAINLESS STEEL	LIMITED DETENT	9-20164-07
9-21719	#10-36UNS-2A	STAINLESS STEEL	LIMITED DETENT	9-20164-07
9-21917	#10-48UNS-2A	STAINLESS STEEL	SMOOTH BORE	9-20164-09
9-21920	#10-36UNS-2A	STAINLESS STEEL	SMOOTH BORE	9-20164-09

Specifications are subject to change without notice

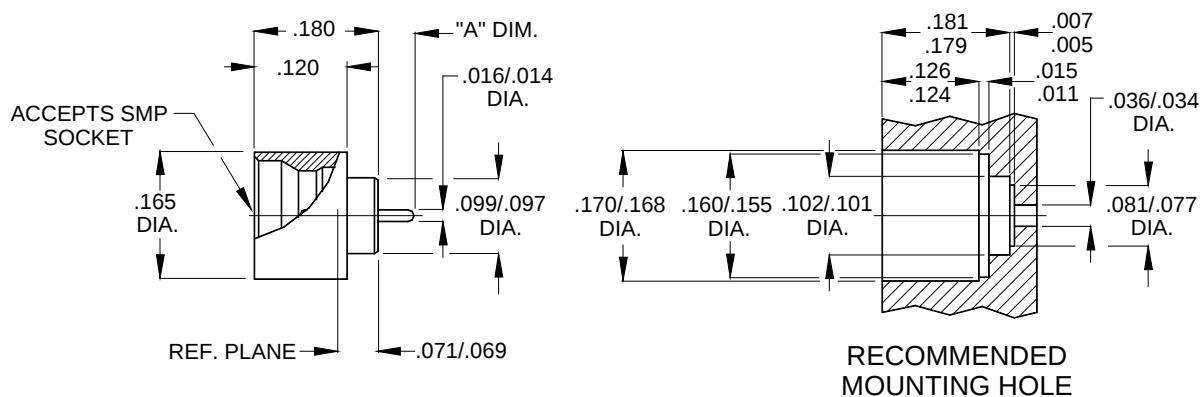
smp • shrouds and bushings

catchers mit press-in shroud



PART NUMBER	"A" DIA.	"B" DIA.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	PRESS TOOL
9-21088	.155/.153	.151/.150	.195/.190	.212 REF.	FULL DETENT	9-20142-00
9-21087	.175/.173	.171/.170	.215/.210	.231 REF.	FULL DETENT	9-20142-00
9-21705	.155/.153	.151/.150	.195/.190	.212 REF.	LIMITED DETENT	9-20142-07
9-21706	.175/.173	.171/.170	.215/.210	.231 REF.	LIMITED DETENT	9-20142-07
9-21999	.155/.153	.151/.150	.195/.190	.212 REF.	SMOOTH BORE	9-20141-09
9-21998	.175/.173	.171/.170	.215/.210	.231 REF.	SMOOTH BORE	9-20142-09

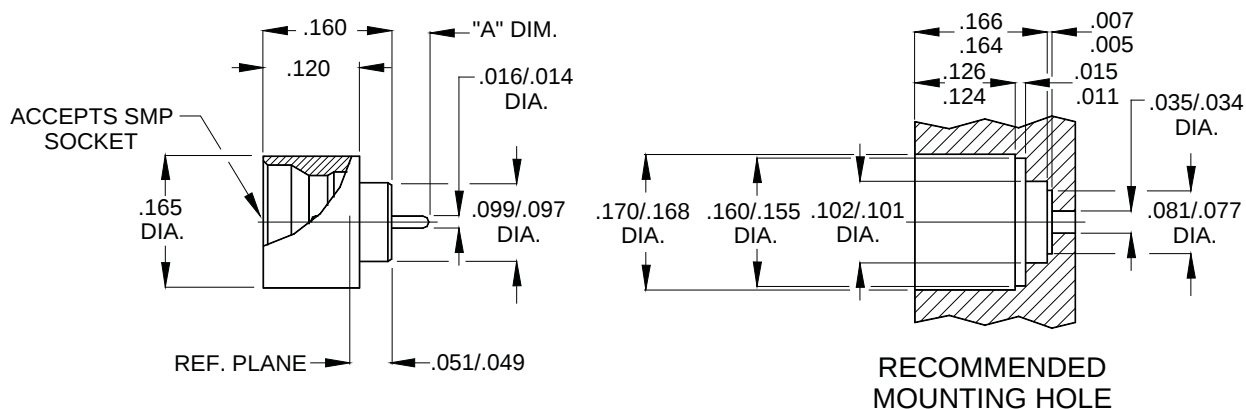
hermetic solder-in shroud



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2140-0435-7409	.095/.085	FULL DETENT	KOVAR	DC - 39.0 GHz.
2140-0435-7407	.075/.065	FULL DETENT	KOVAR	DC - 39.0 GHz.
2147-0435-7409	.095/.085	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2147-0435-7407	.075/.065	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2149-0435-7409	.095/.085	SMOOTH BORE	KOVAR	DC - 39.0 GHz.
2149-0435-7407	.075/.065	SMOOTH BORE	KOVAR	DC - 39.0 GHz.

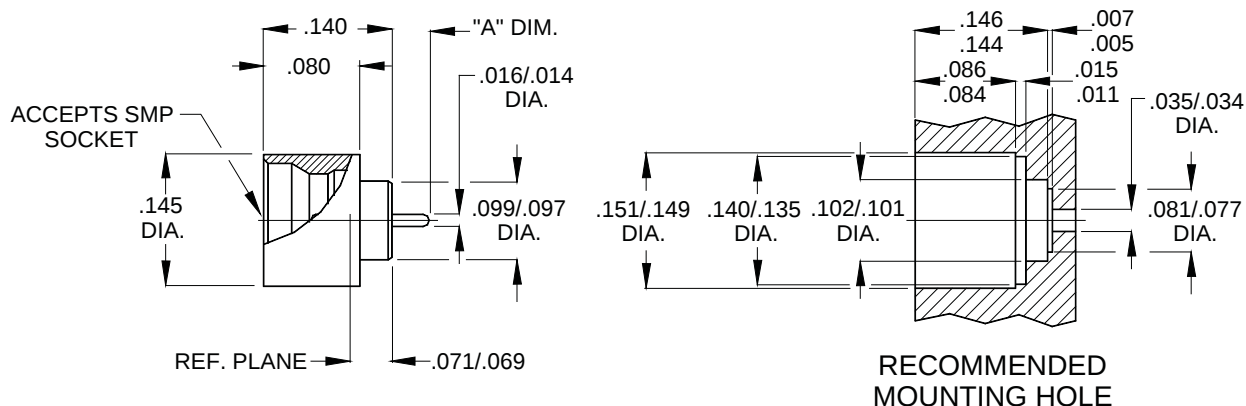
smp • shrouds and bushings

hermetic solder-in shroud



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2140-0435-7400	.090/.080	FULL DETENT	KOVAR	DC - 39.0 GHz.
2140-0435-7408	.080/.070	FULL DETENT	KOVAR	DC - 39.0 GHz.
2140-0435-7411	.095/.085	FULL DETENT	KOVAR	DC - 39.0 GHz.
2147-0435-7400	.090/.080	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2147-0435-7408	.080/.070	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2147-0435-7411	.095/.085	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2149-0435-7400	.090/.080	SMOOTH BORE	KOVAR	DC - 39.0 GHz.
2149-0435-7408	.080/.070	SMOOTH BORE	KOVAR	DC - 39.0 GHz.
2149-0435-7411	.095/.085	SMOOTH BORE	KOVAR	DC - 39.0 GHz.

hermetic solder-in shroud

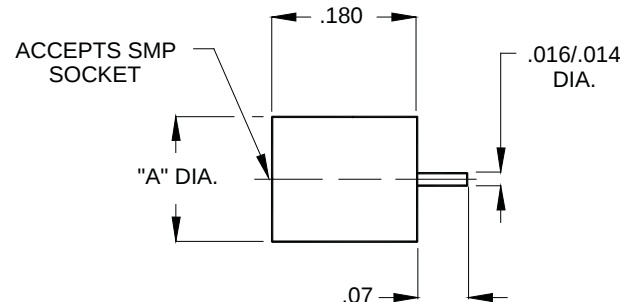


PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2140-0434-7437	.080/.070	FULL DETENT	KOVAR	DC - 39.0 GHz.
2147-0434-7437	.080/.070	LIMITED DETENT	KOVAR	DC - 39.0 GHz.
2149-0434-7437	.080/.070	SMOOTH BORE	KOVAR	DC - 39.0 GHz.

Specifications are subject to change without notice

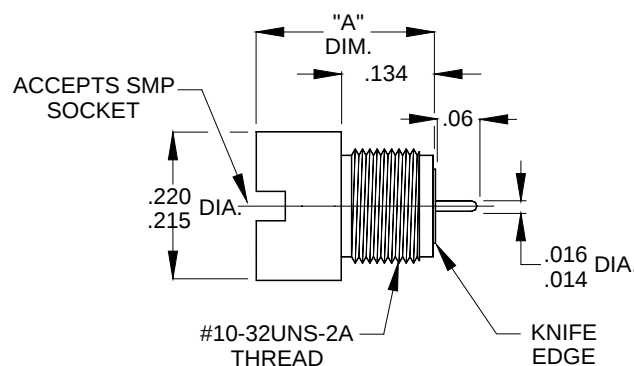
smp • shrouds and bushings

male, plug, solder-in, hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2140-0434-6402	.152/.150	FULL DETENT	STAINLESS STEEL	DC - 39.0 GHz.
2140-0434-6403	.170/.168	FULL DETENT	STAINLESS STEEL	DC - 39.0 GHz.
2147-0434-6402	.152/.150	LIMITED DETENT	STAINLESS STEEL	DC - 39.0 GHz.
2147-0434-6403	.170/.168	LIMITED DETENT	STAINLESS STEEL	DC - 39.0 GHz.
2149-0434-6402	.152/.150	SMOOTH BORE	STAINLESS STEEL	DC - 39.0 GHz.
2149-0434-6403	.170/.168	SMOOTH BORE	STAINLESS STEEL	DC - 39.0 GHz.

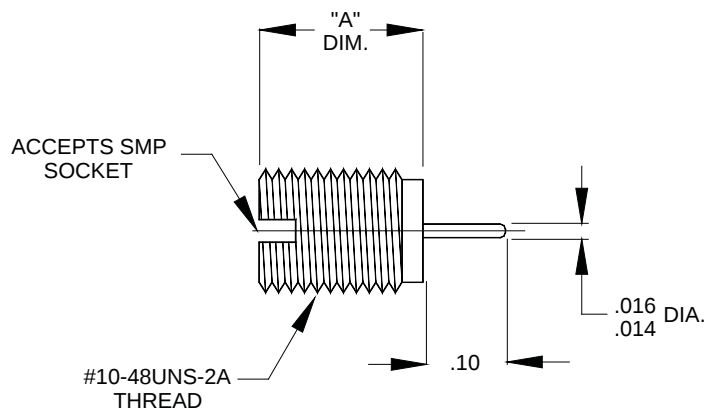
male, plug, thread-in, hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2135-0431-6436	.259	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.	9-20164-00
2137-0431-6436	.259	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.	9-21064-07
2139-0431-6436	.259	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.	9-20164-09

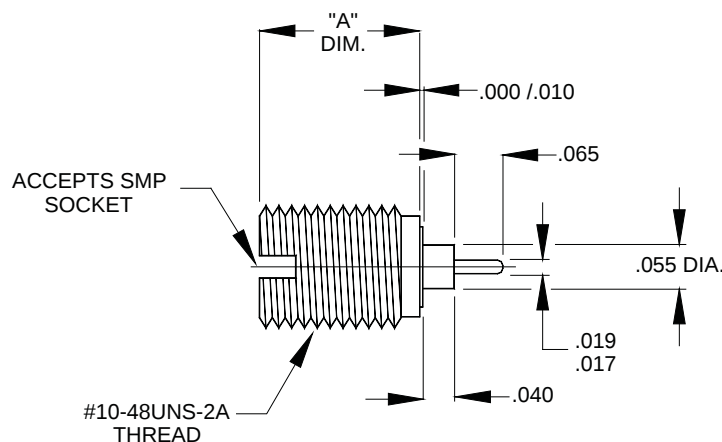
smp • shrouds and bushings

male, plug, thread-in, hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2130-0430-6401	.190	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-00
2137-0430-6401	.190	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-21064-07
2139-0430-6401	.190	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-09

male, plug, thread-in, non-hermetic shroud

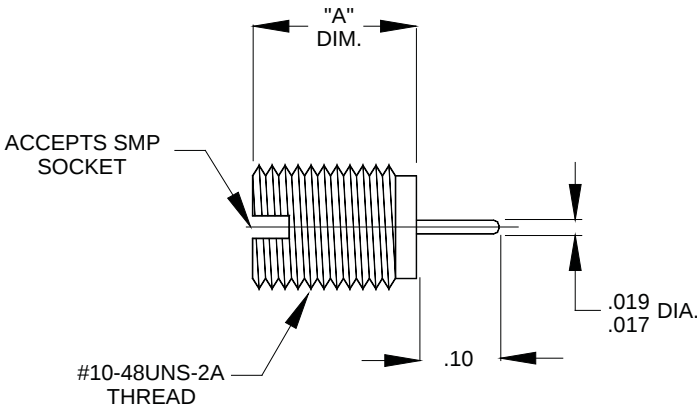


PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2130-0232-6218	.190	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-00
2137-0232-6218	.190	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-21064-07
2139-0232-6218	.190	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-09

Specifications are subject to change without notice

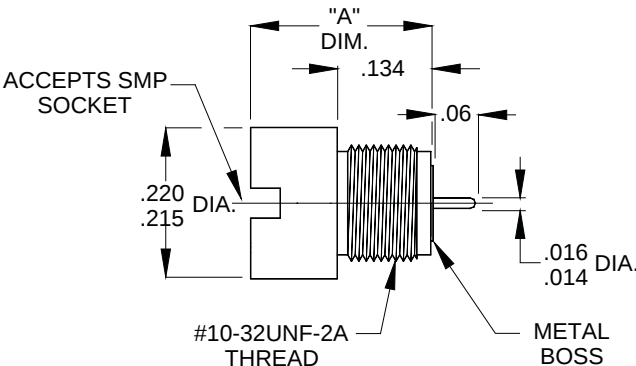
smp • shrouds and bushings

male, plug, thread-in, non-hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2130-0031-6200	.190	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-00
2137-0031-6200	.190	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-21064-07
2139-0031-6200	.190	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-09

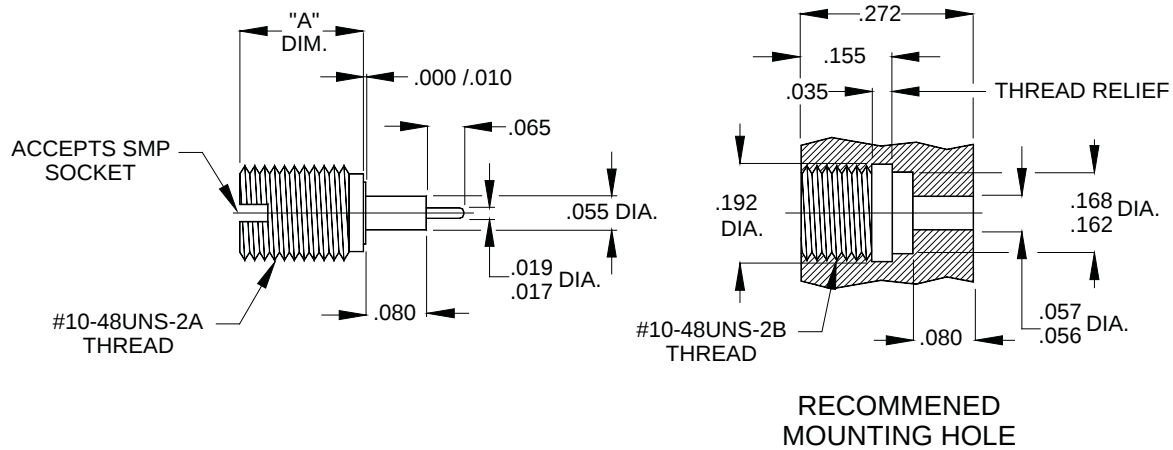
male, plug, thread-in, non-hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2135-0032-6200	.259	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-00
2137-0032-6201	.259	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-21064-07
2139-0032-6202	.259	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-09

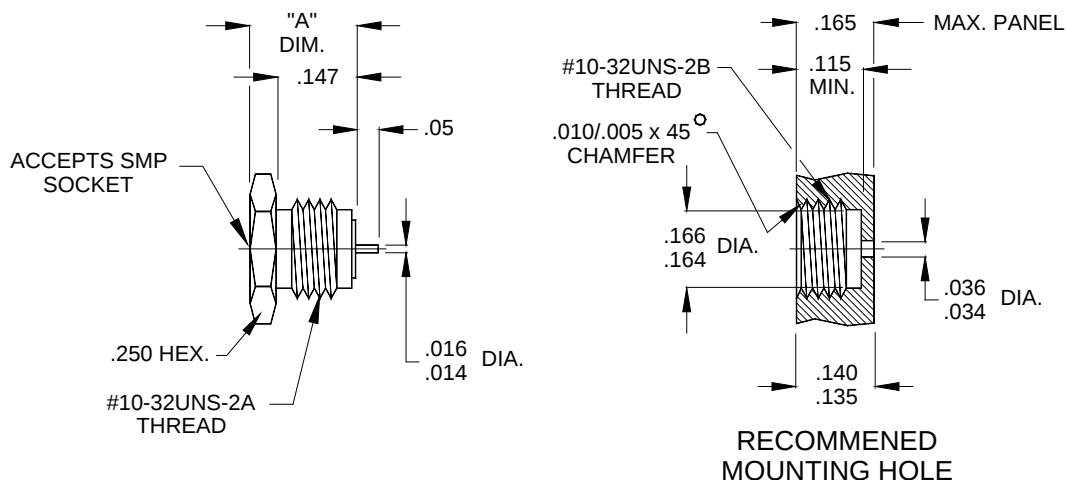
smp • shrouds and bushings

male, plug, thread-in, non-hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2130-0032-6251	.190	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-00
2137-0032-6251	.190	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.	9-21064-07
2139-0032-6251	.190	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.	9-20164-09

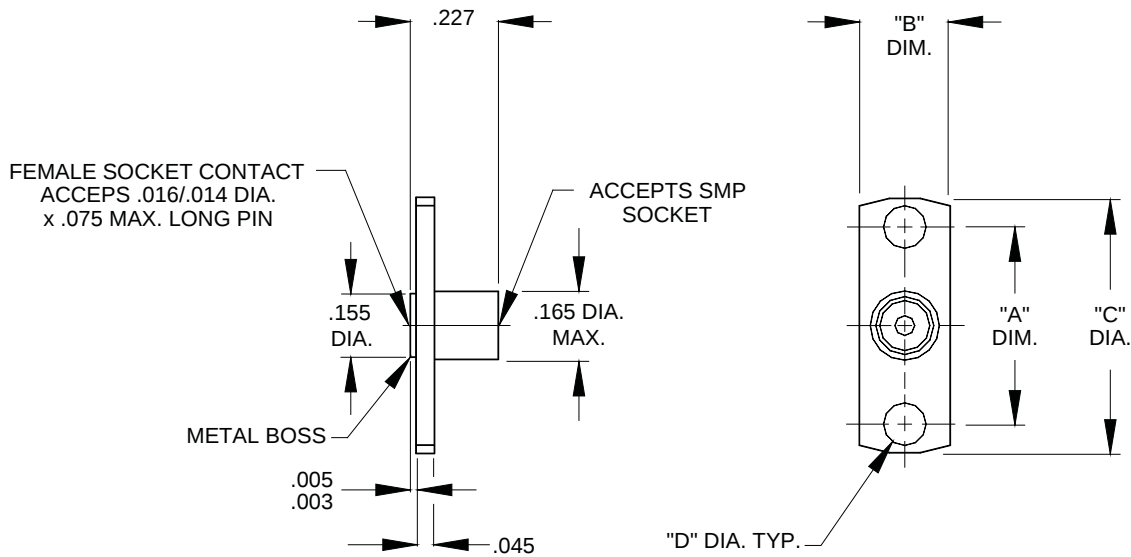
male, plug, thread-in, non-hermetic shroud



PART NUMBER	"A" DIM.	ENGAGEMENT	MATERIAL TYPE	FREQ. RANGE	TORQUE TOOL
2130-0032-6232	.195	FULL DETENT	STAINLESS STEEL	DC - 26.5 GHz.	9-96002
2137-0032-6232	.195	LIMITED DETENT	STAINLESS STEEL	DC - 26.5 GHz.	9-96002
2139-0032-6232	.195	SMOOTH BORE	STAINLESS STEEL	DC - 26.5 GHz.	9-96002

smp • shrouds and bushings

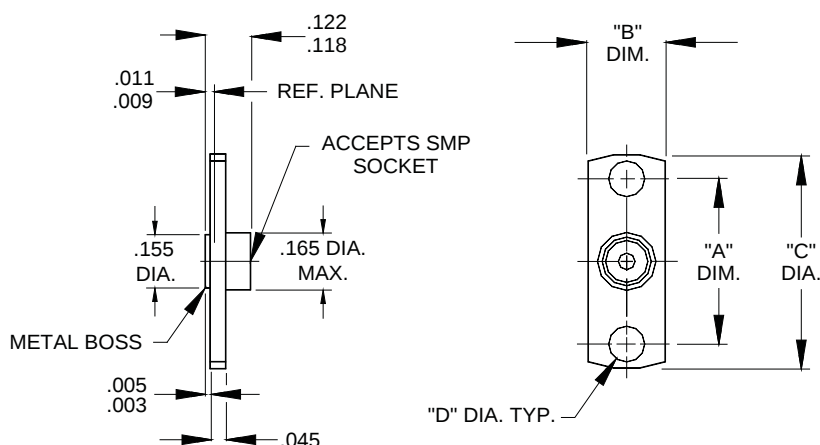
male, plug, flange mount, field replacable



PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	FREQUENCY RANGE
2152-0881-6228	.282	.165	.400	.073	FULL DETENT	DC - 26.5 GHz.
2152-0881-6232	.328	.187	.480	.098	FULL DETENT	DC - 26.5 GHz.
2152-0881-6240	.400	.187	.550	.102	FULL DETENT	DC - 26.5 GHz.
2152-0881-6248	.481	.222	.625	.102	FULL DETENT	DC - 26.5 GHz.
2172-0881-6228	.282	.165	.400	.073	LIMITED DETENT	DC - 26.5 GHz.
2172-0881-6232	.328	.187	.480	.098	LIMITED DETENT	DC - 26.5 GHz.
2172-0881-6240	.400	.187	.550	.102	LIMITED DETENT	DC - 26.5 GHz.
2172-0881-6248	.481	.222	.625	.102	LIMITED DETENT	DC - 26.5 GHz.
2192-0881-6228	.282	.165	.400	.073	SMOOTH BORE	DC - 26.5 GHz.
2192-0881-6232	.328	.187	.480	.098	SMOOTH BORE	DC - 26.5 GHz.
2192-0881-6240	.400	.187	.550	.102	SMOOTH BORE	DC - 26.5 GHz.
2192-0881-6248	.481	.222	.625	.102	SMOOTH BORE	DC - 26.5 GHz.

smp • shrouds and bushings

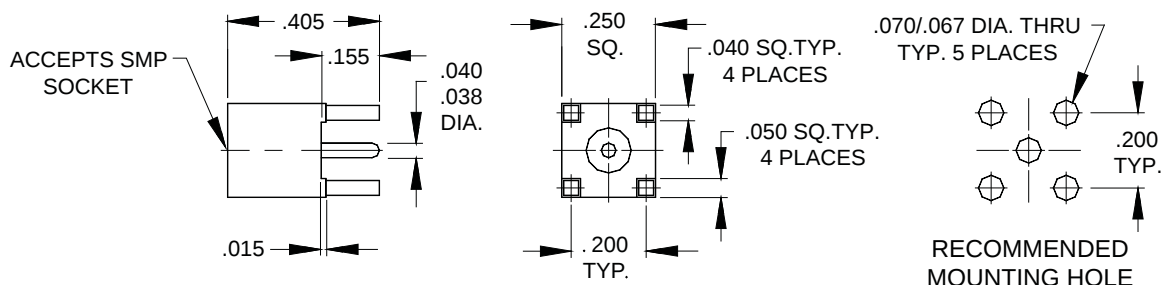
flange mount shroud with metal boss



CENTERING TOOL FOR ALL DETENTS : 9-21040

PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	DSCC PART NUMBER
9-21801	.282	.165	.400	.073	FULL DETENT	94007ZSP-5
9-21802	.328	.187	.480	.098	FULL DETENT	94007ZSP-3
9-21803	.400	.187	.550	.102	FULL DETENT	-----
9-21804	.481	.222	.625	.102	FULL DETENT	94007ZSP-4
9-21701	.282	.165	.400	.073	LIMITED DETENT	94007ZSP-5L
9-21702	.328	.187	.480	.098	LIMITED DETENT	94007ZSP-3L
9-21703	.400	.187	.550	.102	LIMITED DETENT	-----
9-21720	.481	.222	.625	.102	LIMITED DETENT	94007ZSP-4L
9-21901	.282	.165	.400	.073	SMOOTH BORE	94007ZSP-5S
9-21902	.328	.187	.480	.098	SMOOTH BORE	94007ZSP-3S
9-21903	.400	.187	.550	.102	SMOOTH BORE	-----
9-21908	.481	.222	.625	.102	SMOOTH BORE	94007ZSP-4S

printed circuit board thru hole mount

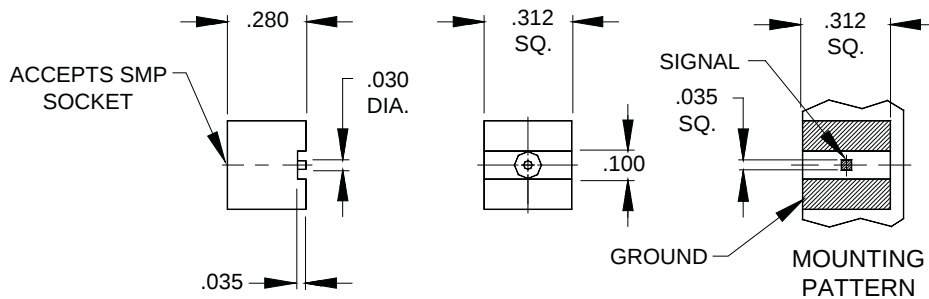


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0031-2700	FULL DETENT	BRASS	DC - 12.5 GHz.
2127-0031-2700	LIMITED DETENT	BRASS	DC - 12.5 GHz.
2129-0031-2700	SMOOTH BORE	BRASS	DC - 12.5 GHz.

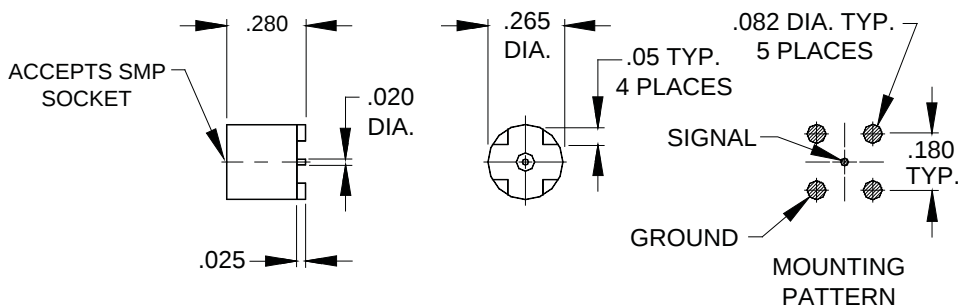
Specifications are subject to change without notice

smp • shrouds and bushings

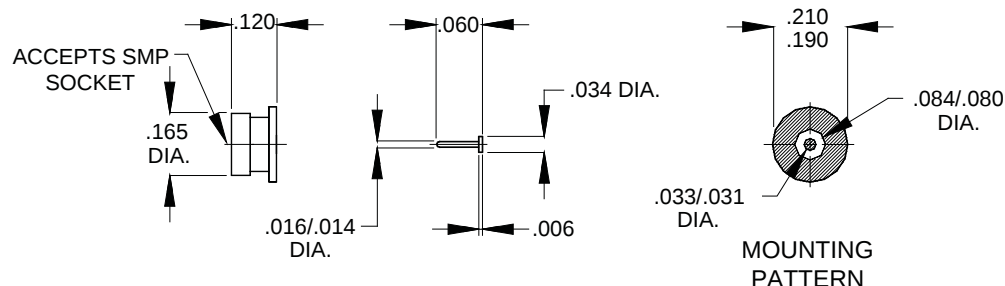
printed circuit board surface mount



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0031-2321	FULL DETENT	BRASS	DC - 12.5 GHz.
2127-0031-2321	LIMITED DETENT	BRASS	DC - 12.5 GHz.
2129-0031-2321	SMOOTH BORE	BRASS	DC - 12.5 GHz.



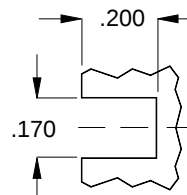
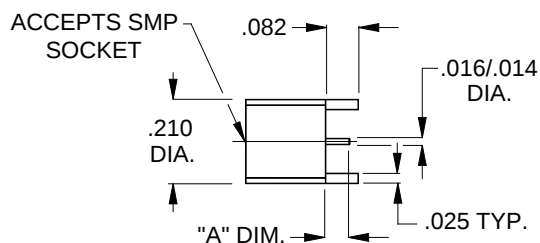
PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0031-2320	FULL DETENT	BRASS	DC - 12.5 GHz.
2127-0031-2320	LIMITED DETENT	BRASS	DC - 12.5 GHz.
2129-0031-2320	SMOOTH BORE	BRASS	DC - 12.5 GHz.



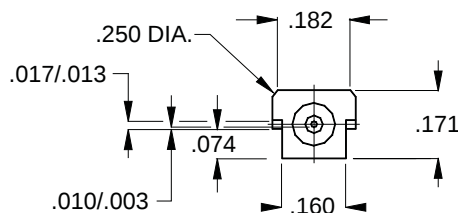
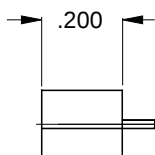
PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE	CENTER TOOL
2120-0330-6406	FULL DETENT	BRASS	DC - 12.5 GHz.	9-21037-00
2127-0330-6406	LIMITED DETENT	BRASS	DC - 12.5 GHz.	9-21037-07
2129-0330-6406	SMOOTH BORE	BRASS	DC - 12.5 GHz.	9-21037-09

smp • shrouds and bushings

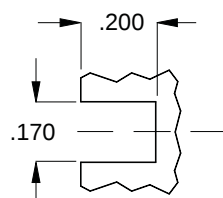
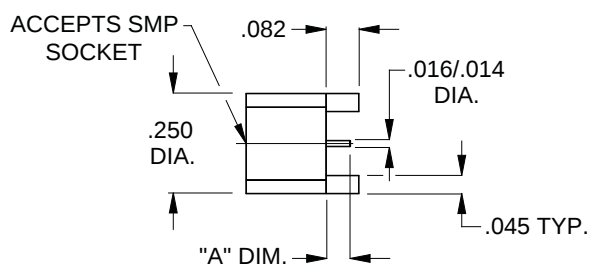
printed circuit board edge mount



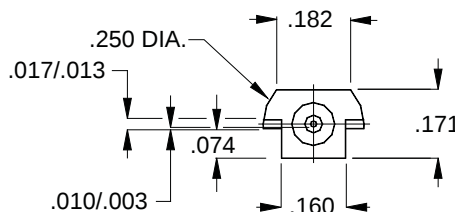
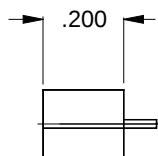
RECOMMENDED MOUNTING



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0232-6400	.082	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2127-0232-6400	.082	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2129-0232-6400	.082	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.



RECOMMENDED MOUNTING

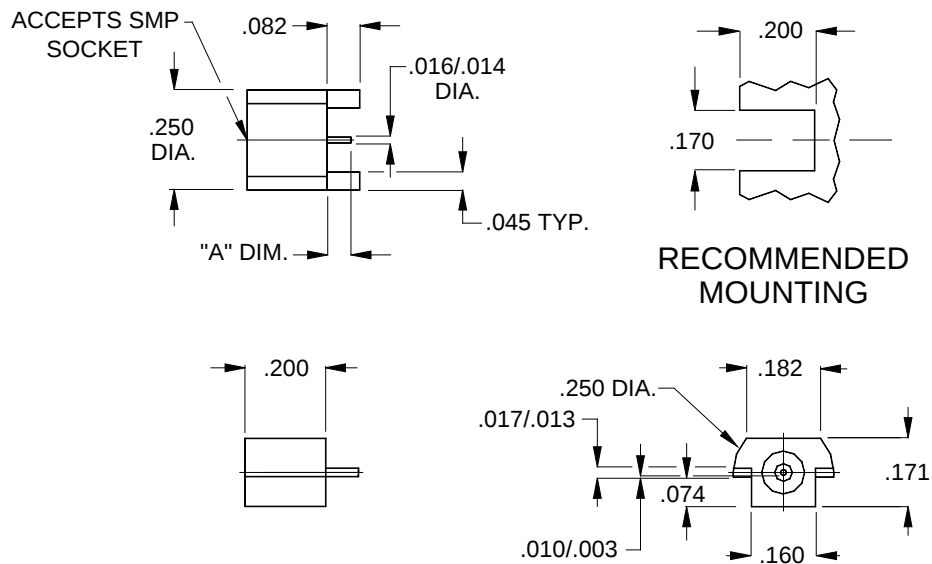


PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0232-6418	.082	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2127-0232-6418	.082	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2129-0232-6418	.082	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.

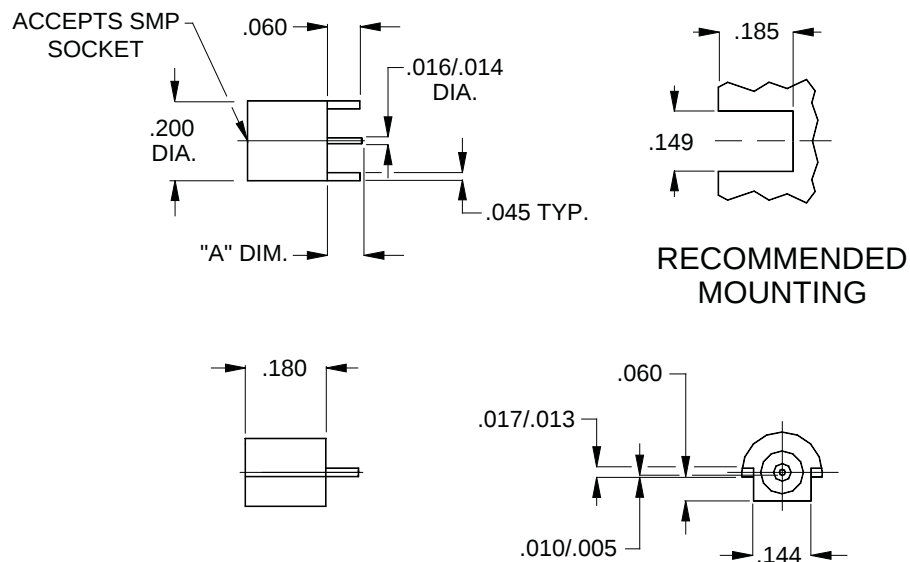
Specifications are subject to change without notice

smp • shrouds and bushings

printed circuit board edge mount, hermetically sealed



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0431-6418	.082	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2127-0431-6418	.082	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2129-0431-6418	.082	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.

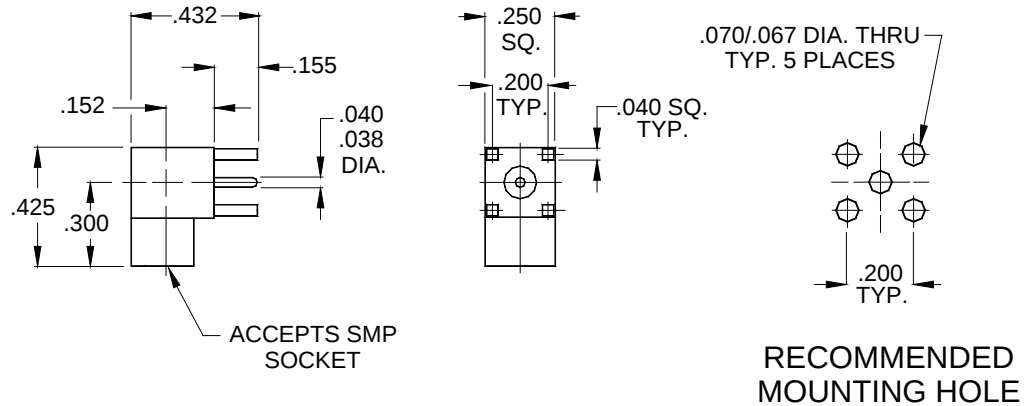


PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2120-0431-6400	.060	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2127-0431-6400	.060	LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
2129-0431-6400	.060	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

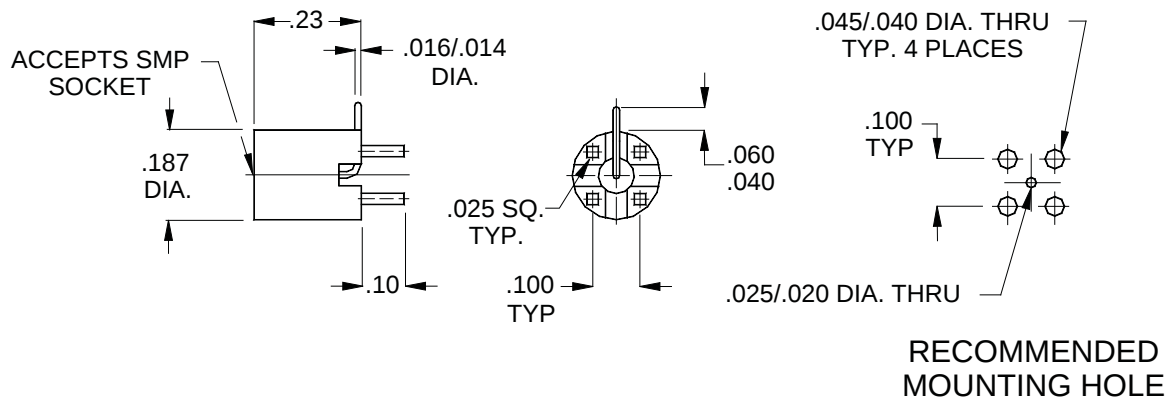
smp • shrouds and bushings

printed circuit board thru hole mount, right angle



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2121-0031-2700	FULL DETENT	BRASS	DC - 6.0 GHz.
2121-0031-2707	LIMITED DETENT	BRASS	DC - 6.0 GHz.
2121-0031-2709	SMOOTH BORE	BRASS	DC - 6.0 GHz.

printed circuit board, surface mount, right angle, hermetically sealed

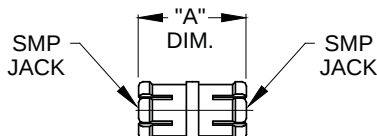


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
2121-0431-6400	FULL DETENT	STAINLESS STEEL	DC - 6.0 GHz.
2121-0431-6407	LIMITED DETENT	STAINLESS STEEL	DC - 6.0 GHz.
2121-0431-6409	SMOOTH BORE	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without notice

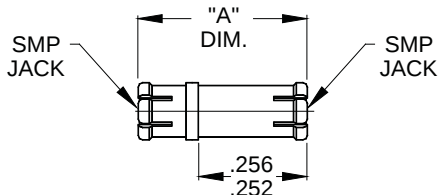
smp • in-series adapters

female, jack to female, jack, straight



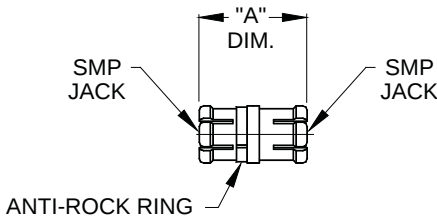
PART NUMBER	"A" DIM.	DSCC PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2020-5450	.2555 / .2535	94007ZCG-1	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5456	.2255 / .2225	-----	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5411	.241 / .239	-----	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5401	.285	-----	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5407	.414	-----	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5426	.836	-----	BERYLLIUM	DC - 40.0 GHz.
1100-200-5498	1.000	-----	BERYLLIUM	DC - 40.0 GHz.
1100-2020-5497	1.427	-----	BERYLLIUM	DC - 40.0 GHz.

female, jack to female, jack, straight



PART NUMBER	"A" DIM.	DSCC PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2020-5495	.395	94007ZCG-2	BERYLLIUM	DC - 40.0 GHz.

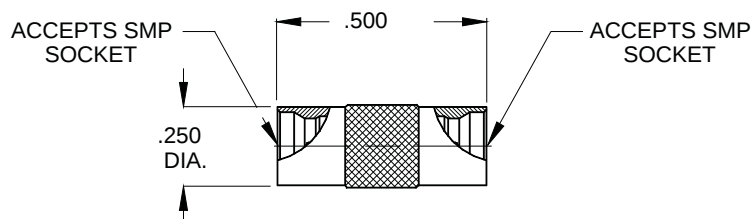
female, jack to female, jack, straight



PART NUMBER	"A" DIM.	DSCC PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2020-5455	.2555 / .2535	-----	BERYLLIUM	DC - 40.0 GHz.

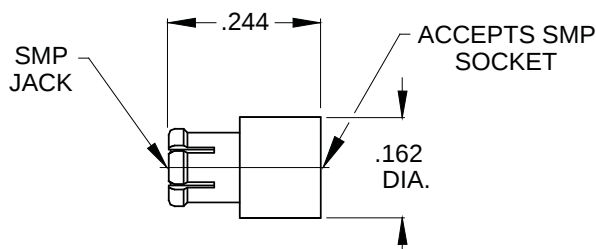
smp • in-series adapters

male, plug to male, plug, straight



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-2121-6250	FULL DETENT / FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
1107-2121-6250	LIMITED DETENT / LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
1109-2121-6250	SMOOTH BORE / SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.
1100-2121-6251	FULL DETENT / LIMITED DETENT	STAINLESS STEEL	DC - 40.0 GHz.
1107-2121-6251	LIMITED DETENT / SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.
1109-2121-6251	FULL DETENT / SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.

female, jack to male, plug, straight

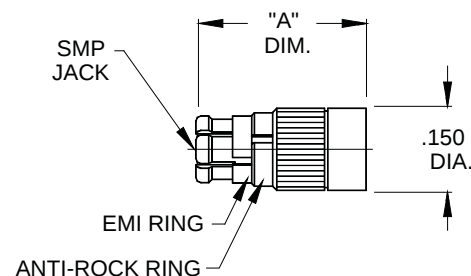


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-2021-5400	FULL DETENT	BERYLLIUM COPPER	DC - 40.0 GHz.
1107-2021-5400	LIMITED DETENT	BERYLLIUM COPPER	DC - 40.0 GHz.
1109-2021-5400	SMOOTH BORE	BERYLLIUM COPPER	DC - 40.0 GHz.

Specifications are subject to change without notice

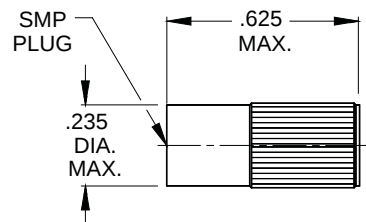
smp • termination

smp, female, jack, termination



PART NUMBER	"A" DIM.	POWER	MATERIAL TYPE	FREQUENCY RANGE / VSWR MAX.
5400-2005-5400	.57 MAX.	0.5 W	BERYLLIUM COPPER	DC - 18.0 GHz. / 1.20 : 1
5400-2005-5401	.57 MAX.	0.5 W	BERYLLIUM COPPER	DC - 26.5 GHz. / 1.30 : 1

smp, male, plug, termination



PART NUMBER	ENGAGEMENT	POWER	MATERIAL TYPE	FREQ. RANGE / VSWR MAX.
5400-2105-6250	FULL DETENT	0.5 W	STAINLESS STEEL	DC - 18.0 GHz. / 1.20 : 1
5400-2107-6250	LIMITED DETENT	0.5 W	STAINLESS STEEL	DC - 18.0 GHz. / 1.20 : 1

Specifications are subject to change without notice



smpm

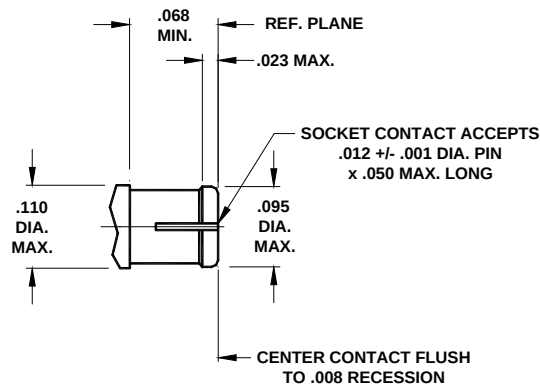


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dynawave
INCORPORATED

smpm interfaces

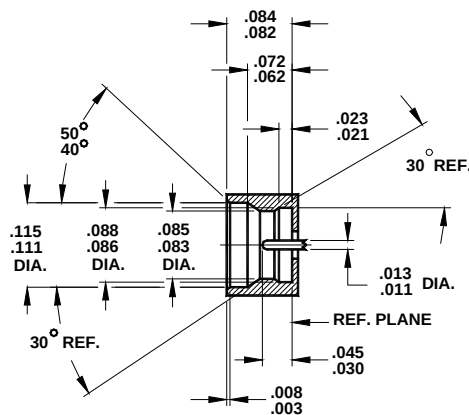
socket (adapter)



FEMALE, JACK

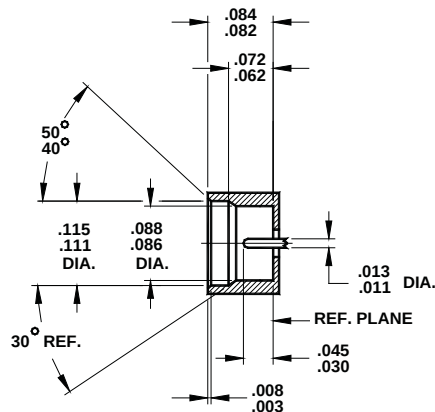
Mil-Std-348A
Fig. 328.1

pin (shroud)



MALE, PLUG, FULL DETENT

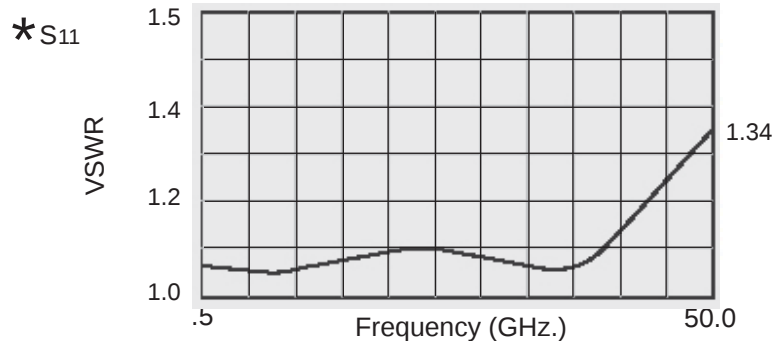
Mil-Std-348A
Fig. 328.2



MALE, PLUG, SMOOTH BORE

Mil-Std-348A
Fig. 328.3

smpm specifications



The Dynawave **SMPM** socket adapter, P/N 1100-3030-5450 has a Maximum VSWR of 1.35 : 1 through 50.0 Ghz.

* ELECTRICAL :

Frequency Range	DC TO 50.0 GHz.
*VSWR Max.	1.10 DC TO 23.0 GHz. 1.15 : 23.0 GHz. TO 26.5 GHz. 1.35 : 26.5 GHz. TO 40.0 GHz.
Insertion Loss	.10 dB x FGHz.
Nominal Impedance (OHMS)	50
Voltage Rating (Max. VRMS)	170
RF Leakage (Min. dB down, fully mated)	-80 dB - FGHz. TO 3.0 GHz. -65 dB FROM 3.0 TO 26.5 GHz. MIN.
Temperature Rating (Degrees Centigrade)	-65 °c TO +165 °c
Dielectric Withstanding Voltage (Max. VRMS)	500
Insulation Resistance (Min. MEGOHMS)	5,000
Center Contact (Socket) Resistance (Max. MILLIOHMS)	6.0
Outer Contact Resistance (Max. MILLIOHMS)	2.0

* DYNAWAVE P/N 1100-3030-5450 DSCC P/N 10019-A

MECHANICAL :

CAPTIVATION-CENTER CONTACT

MINIMUM AXIAL FORCE : 1.5 LBS.
MINIMUM RADIAL TORQUE : N/A

MATING FORCES

Engagement (Max. Lbs.)	Full Detent 6.5, Smooth Bore 1.5
Disengagement (Min. Lbs.)	Full Detent 5.0, Smooth Bore 0.05
Durability (Max. Matings)	Full Detent (100), Smooth Bore (500)
Axial Displacement (Inches)	.000/.010
Total Radial Misalignment (Inches)	.010

ENVIRONMENTAL :

Temperature Cycling	MIL-STD-202, Method 102, Cond. C (-65 °c TO + 165 °c)
Shock	MIL-STD-202, Method 213, Cond. 1 (100 G's)
Vibration	MIL-STD-202, Method 204, Cond. D (20 G's)
Barometric Pressure (Altitude)	MIL-STD-202, Method 105, Cond. C (70,000 FT.) (125 VRMS)
Thermal Shock	MIL-STD-202, METHOD 107, COND. B (HIGH TEMP. 165 °c)
Temperature Rating	-65 °c TO +165 °c

MATERIAL / FINISH :

ADAPTER BODY

Beryllium Copper per ASTM B196/B, 196M-03 Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

SHROUD (PIN) HERMETIC SEAL - WITH 7070 GLASS BEAD

Iron Nickel Alloy per MIL-I-23011 (Kovar)
Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS 2700, Type 2, CLASS 4.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

SHROUD (PIN) NON-HERMETIC

Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS 2700, Type 2, CLASS 4.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

CENTER CONTACT (SOCKET)

Beryllium Copper per ASTM B196/B, 196M-03, Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 1, Grade C, Class 1.25 Over Nickel per SAE-AMS-QQ-N-290, Class 1.

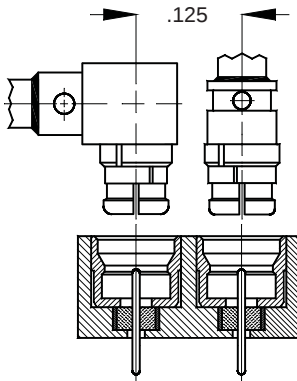
INSULATOR

TEFLON PER ASTM D1710, Type 1, Class 1, Grade B.

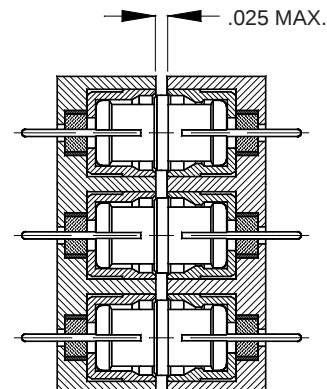
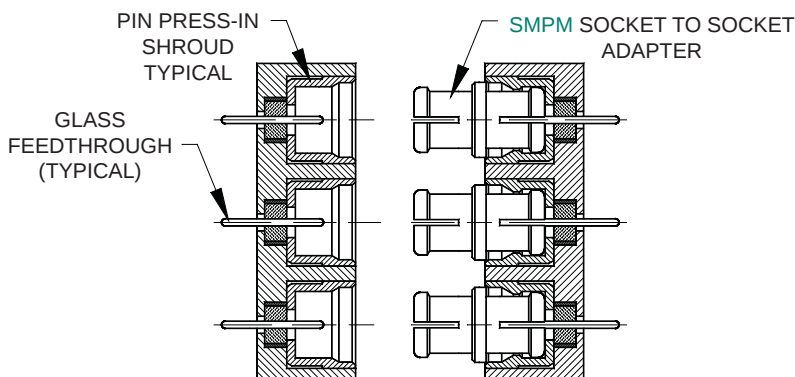
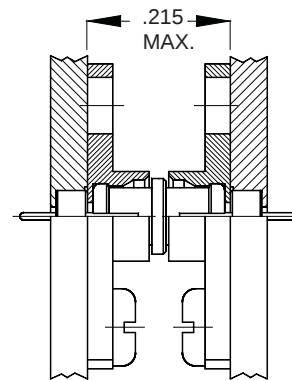
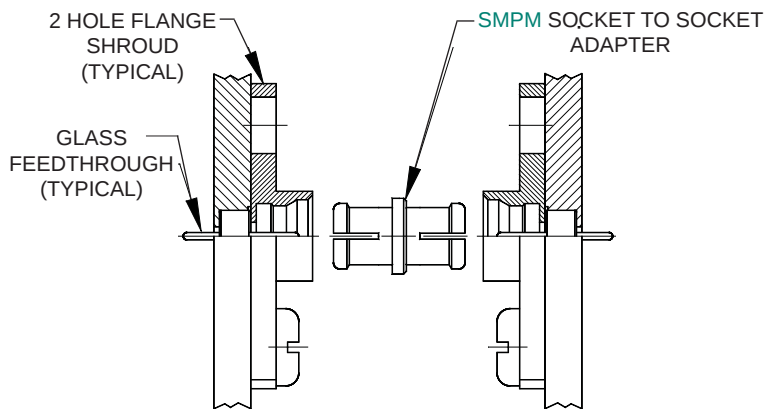
Specifications are subject to change without notice

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smpm application notes



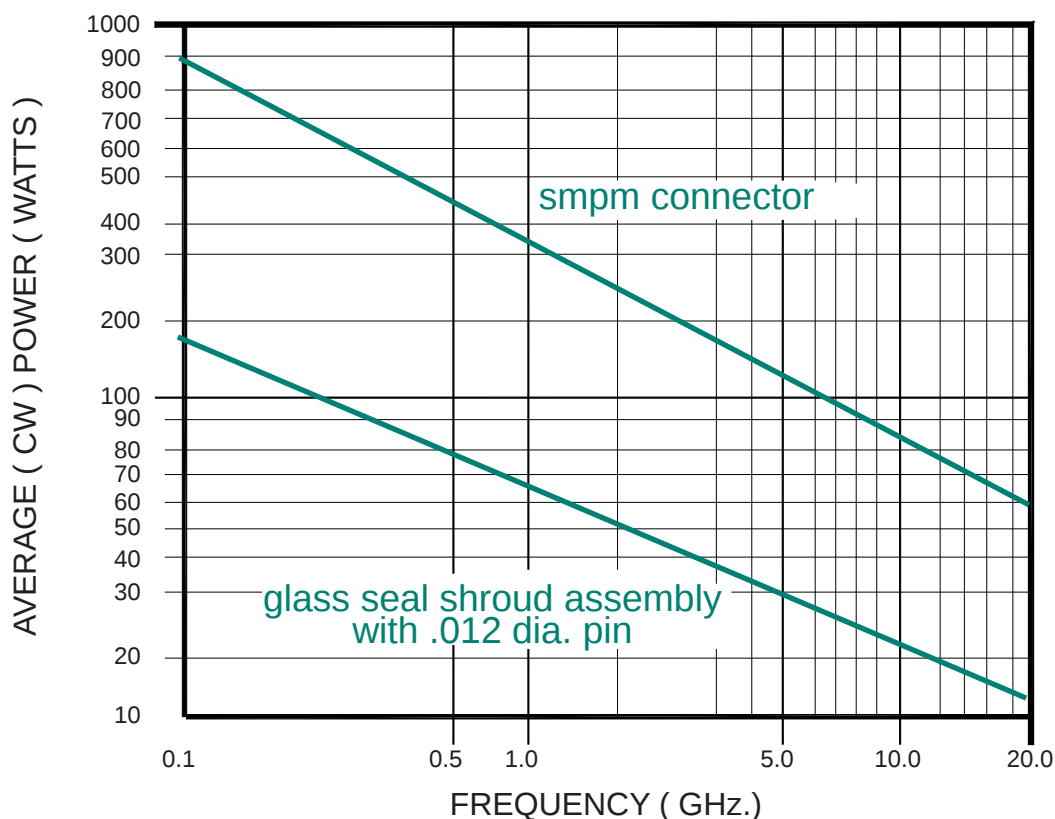
The Dynawave **SMPM** series of connectors are designed to minimize MIC package size and reduce valuable mounting space. The low profile design will allow module to module mounting with a center to center dimension of .125 inches. The **SMPM** cable connectors straight and right angle as shown are designed for .047 and .085 semi-rigid cables.



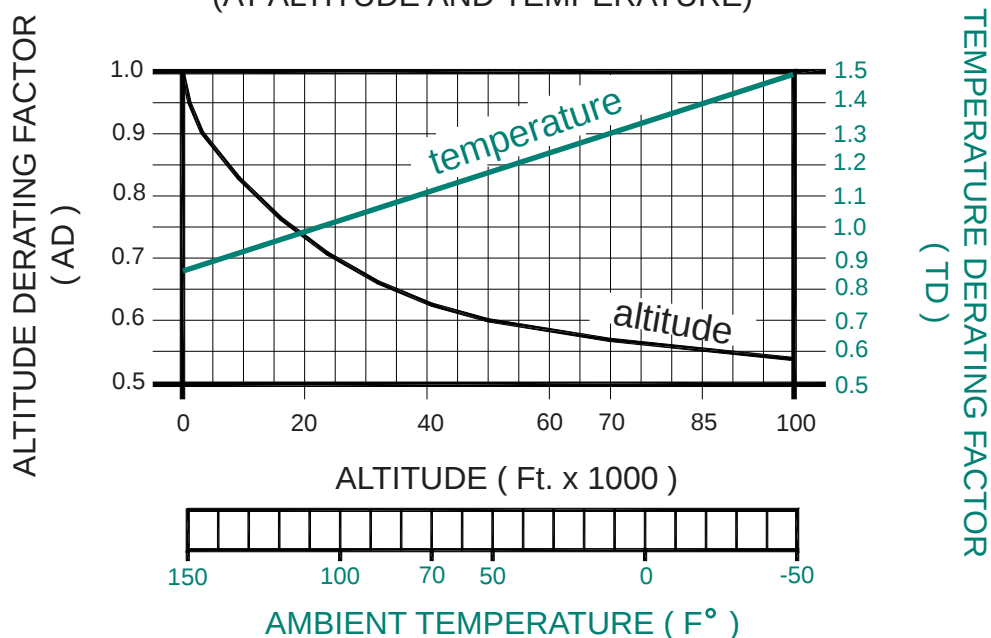
The Dynawave **SMPM** 2 hole flange mount connectors or press-in shrouds are designed to reduce valuable mounting space thus allowing modules to be significantly reduced in size to maintain a low profile. The shrouds are used with a glass bead assembly to complete the coaxial interface. Hermetic Shroud designs consisting of Body, Pin and Glass are available to eliminate multi-component assemblies. The smooth bore interface allows the component engineers to mate multiple connectors at one time. Non-standard interfaces for customer unique engagement and disengagement designs are available upon request.

smpm power ratings

AVERAGE (CW) POWER RATING
(AT SEA LEVEL & +70 °F TEMPERATURE)



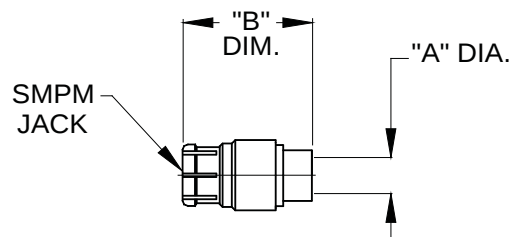
AVERAGE (CW) POWER DERATING FACTOR
(AT ALTITUDE AND TEMPERATURE)



$$\text{MAXIMUM OPERATING POWER} = \text{POWER RATING} \times \text{AD} \times \text{TD}$$

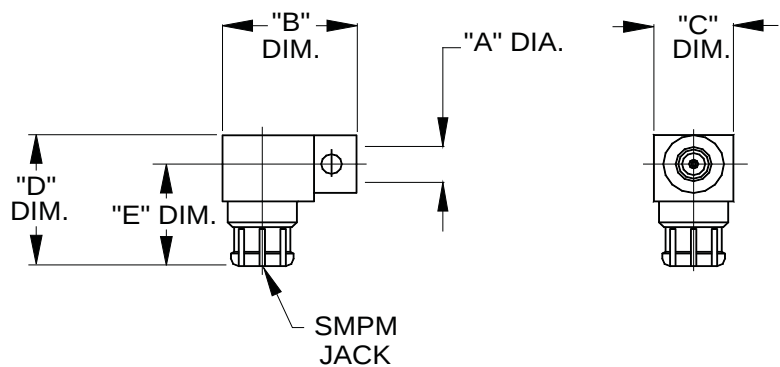
smpm • semi rigid cable connectors

female, jack, straight



PART NUMBER	"A" DIA.	"B" DIM.	CABLE TYP.	DSCC NUMBER	FREQ. RANGE
3000-3420-5425	.036 MIN.	.260	.034 S.R.	-----	DC - 50.0 GHz.
3000-4720-5425	.049 MIN.	.260	.047 S.R.	-----	DC - 50.0 GHz.
3000-8520-5425	.089 MIN.	.285	RG405/U (.085)	-----	DC - 50.0 GHz.

female, jack, right angle

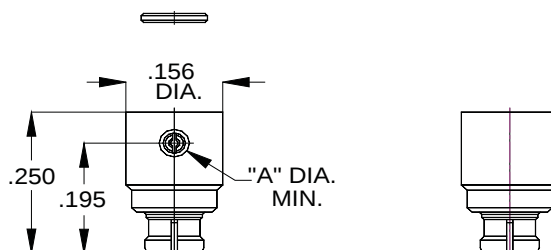


PART NUMBER	"A" DIA.	"B" DIM.	"C" DIM.	"D" DIM.	"E" DIM.	CABLE TYPE	FREQ. RANGE
3001-3420-5444	.036 MIN.	.147	.109	.200	.161	.034 S.R.	DC - 18.0 GHz.
3001-4720-5444	.049 MIN.	.147	.109	.200	.161	.047 S.R.	DC - 18.0 GHz.
3001-8520-5444	.089 MIN.	.220	.125	.230	.170	RG405/U (.085)	DC - 18.0 GHz.

Specifications are subject to change without notice

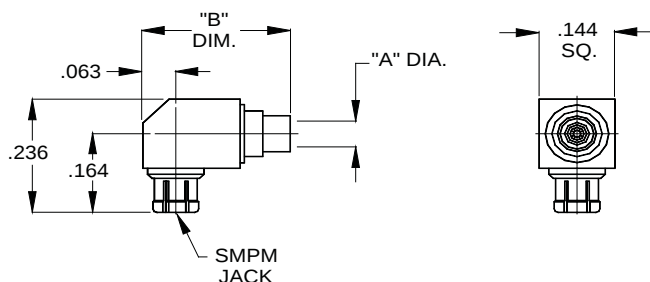
smpm • semi rigid cable connectors

female, jack, right angle



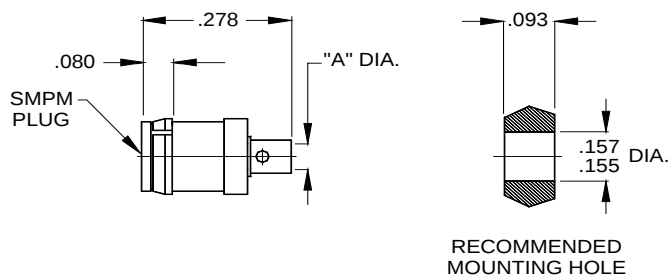
PART NUMBER	"A" DIA.	CABLE TYPE	DSCC NUMBER	FREQUENCY RANGE
3001-3420-5425	.036 MIN.	.034 S.R.	-----	DC - 18.0 GHz.
3001-4720-5425	.049 MIN.	.047 S.R.	-----	DC - 18.0 GHz.
3001-8520-5425	.089 MIN.	RG405/U (.085)	-----	DC - 18.0 GHz.

female, jack, right angle



PART NUMBER	"A" DIA.	"B" DIM.	CABLE TYPE	DSCC NUMBER	FREQ. RANGE
3001-3420-5429	.036 MIN.	.280	.034 S.R.	-----	DC - 40.0 GHz.
3001-4720-5429	.049 MIN.	.280	.047 S.R.	-----	DC - 40.0 GHz.
3001-8520-5429	.089 MIN.	.320	RG405/U (.085)	-----	DC - 40.0 GHz.

male, plug, straight, float mount

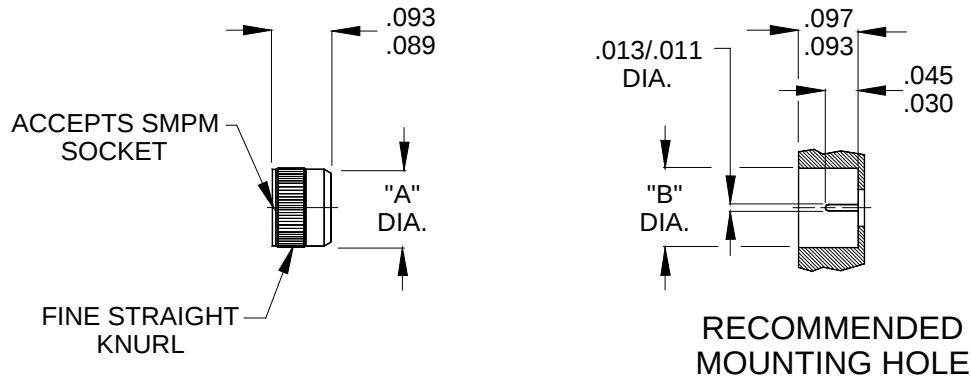


PART NUMBER	"A" DIM.	CABLE TYPE	ENGAGEMENT	MATERIAL TYPE	FREQUENCY RANGE
3160-4720-6201	.049 MIN.	.047 S.R.	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
3169-4720-6201	.049 MIN.	.047 S.R.	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.
3160-8520-6203	.089 MIN.	RG405/U (.085)	FULL DETENT	STAINLESS STEEL	DC - 40.0 GHz.
3169-8520-6203	.089 MIN.	RG405/U (.085)	SMOOTH BORE	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

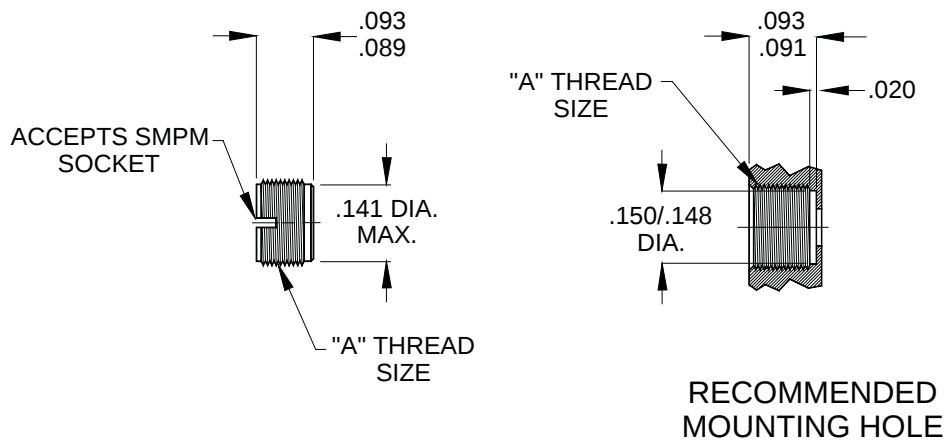
smpm • shrouds and bushings

press-in shroud



PART NUMBER	"A" DIA.	"B" DIA.	MATERIAL TYPE	ENGAGEMENT TYPE	PRESS TOOL
9-31011	.117/.115	.113/.112	STAINLESS STEEL	FULL DETENT	9-30142-00
9-31000	.137/.135	.133/.132	STAINLESS STEEL	SMOOTH BORE	9-30142-00
9-31911	.117/.115	.113/.112	STAINLESS STEEL	FULL DETENT	9-30142-09
9-31918	.137/.135	.133/.132	STAINLESS STEEL	SMOOTH BORE	9-30142-09

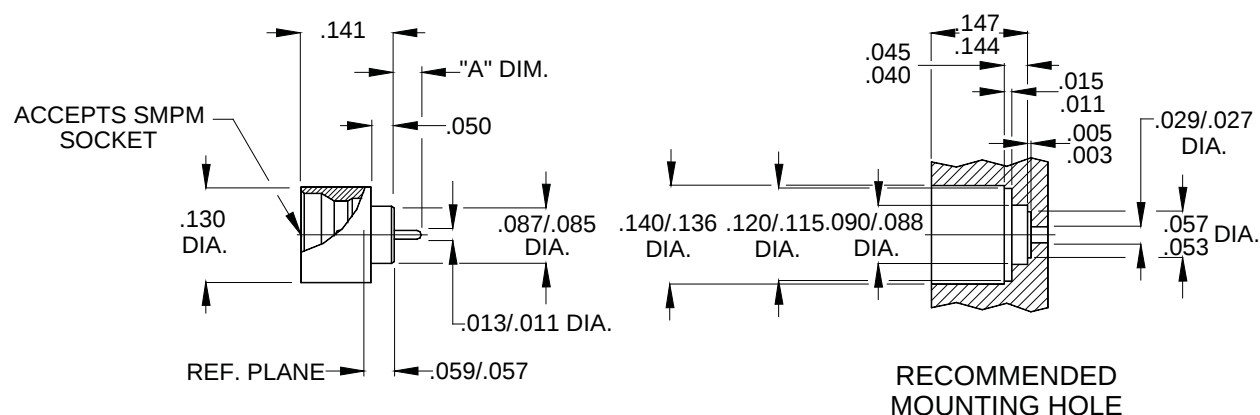
thread-in shroud



PART NUMBER	"A" THREAD SIZE	MATERIAL TYPE	ENGAGEMENT TYPE	TORQUE TOOL
9-31015	.164-36UNS-2A	STAINLESS STEEL	FULL DETENT	9-30164-00
9-31016	.164-64UNS-2A	STAINLESS STEEL	SMOOTH BORE	9-30164-09
9-31917	.164-36UNS-2A	STAINLESS STEEL	FULL DETENT	9-30164-00
9-31920	.164-64UNS-2A	STAINLESS STEEL	SMOOTH BORE	9-30164-09

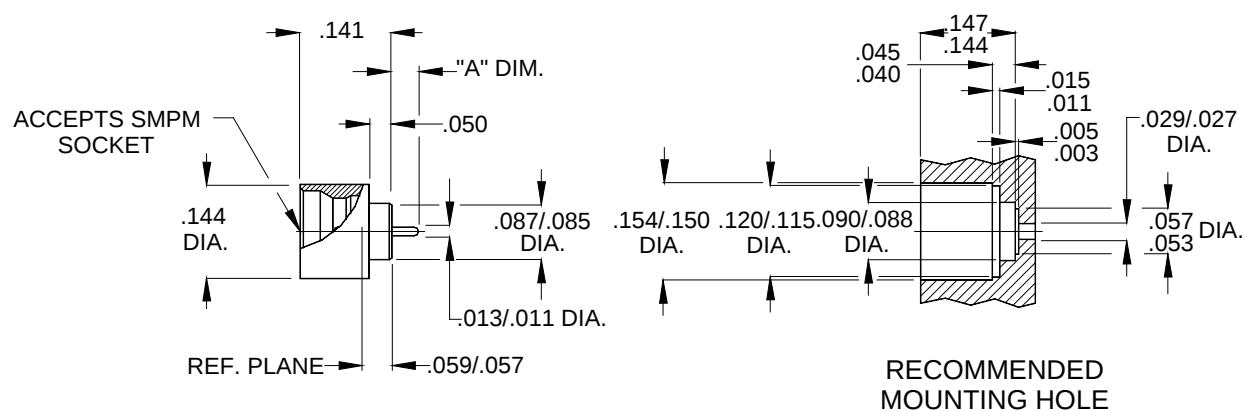
smpm • shrouds and bushings

hermetic solder-in shroud



PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3140-0434-7404	.130	FULL DETENT	KOVAR	DC-46.0 GHz.
3140-0434-7450	.050	FULL DETENT	KOVAR	DC-46.0 GHz.
3140-0434-7470	.070	FULL DETENT	KOVAR	DC-46.0 GHz.
3149-0434-7404	.130	SMOOTH BORE	KOVAR	DC-46.0 GHz.
3149-0434-7450	.050	SMOOTH BORE	KOVAR	DC-46.0 GHz.
3149-0434-7470	.070	SMOOTH BORE	KOVAR	DC-46.0 GHz.

hermetic solder-in shroud

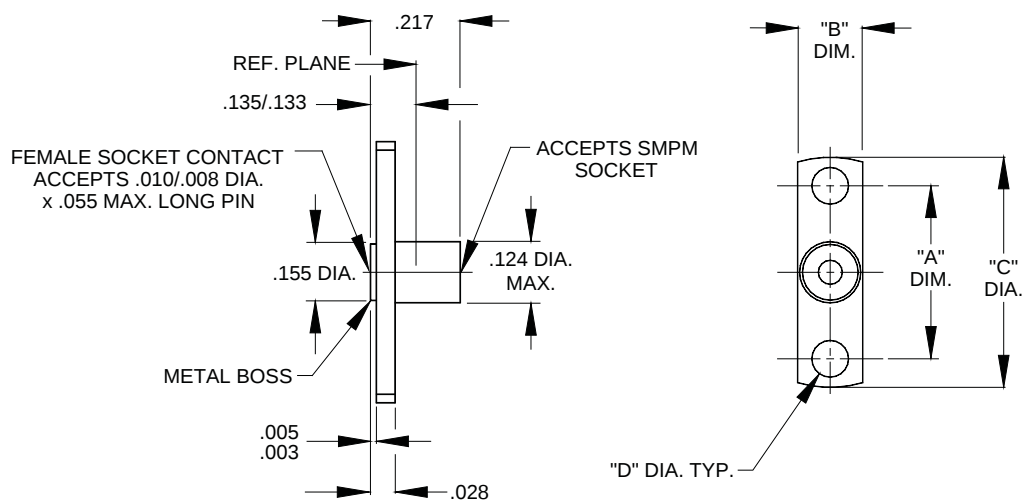


PART NUMBER	"A" DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3140-0434-7405	.130	FULL DETENT	KOVAR	DC-46.0 GHz.
3140-0434-7451	.050	FULL DETENT	KOVAR	DC-46.0 GHz.
3140-0434-7471	.070	FULL DETENT	KOVAR	DC-46.0 GHz.
3149-0434-7405	.130	SMOOTH BORE	KOVAR	DC-46.0 GHz.
3149-0434-7451	.050	SMOOTH BORE	KOVAR	DC-46.0 GHz.
3149-0434-7471	.070	SMOOTH BORE	KOVAR	DC-46.0 GHz.

Specifications are subject to change without notice

smpm • shrouds and bushings

male, plug, flange mount, field replacable

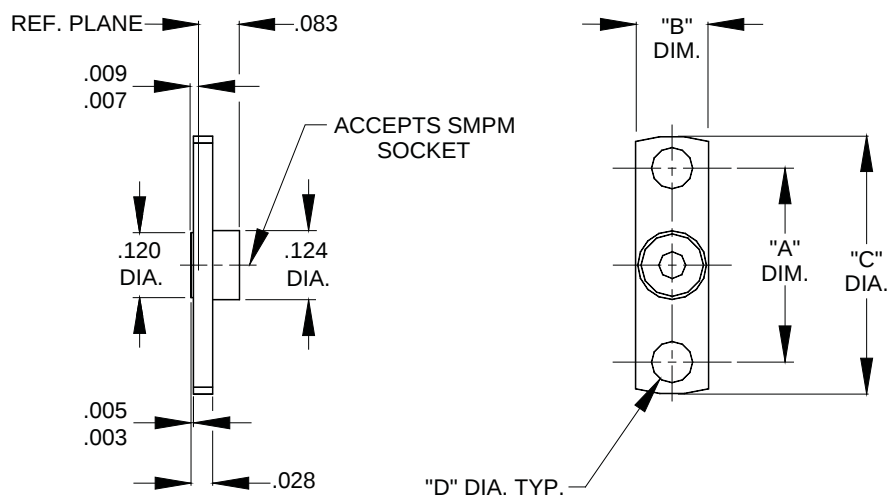


PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	FREQUENCY RANGE
3152-0881-6228	.282	.165	.400	.073	FULL DETENT	DC-40.0 GHz.
3152-0881-6232	.328	.187	.480	.098	FULL DETENT	DC-40.0 GHz.
3152-0881-6240	.400	.187	.550	.102	FULL DETENT	DC-40.0 GHz.
3152-0881-6248	.481	.222	.625	.102	FULL DETENT	DC-40.0 GHz.
3192-0881-6228	.282	.165	.400	.073	SMOOTH BORE	DC-40.0 GHz.
3192-0881-6232	.328	.187	.480	.098	SMOOTH BORE	DC-40.0 GHz.
3192-0881-6240	.400	.187	.550	.102	SMOOTH BORE	DC-40.0 GHz.
3192-0881-6248	.481	.222	.625	.102	SMOOTH BORE	DC-40.0 GHz.

Specifications are subject to change without notice

smpm • shrouds and bushings

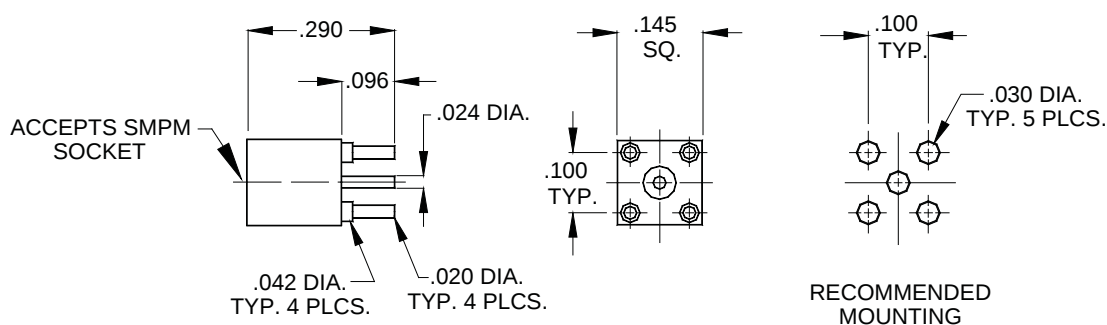
flange mount shroud with metal boss



CENTERING TOOL FOR ALL DETENTS : 9-31040

PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	DSCC PART NUMBER
9-31801	.282	.165	.400	.073	FULL DETENT	-----
9-31802	.328	.187	.480	.098	FULL DETENT	-----
9-31803	.400	.187	.550	.102	FULL DETENT	-----
9-31804	.481	.222	.625	.102	FULL DETENT	-----
9-31901	.282	.165	.400	.073	SMOOTH BORE	-----
9-31902	.328	.187	.480	.098	SMOOTH BORE	-----
9-31903	.400	.187	.550	.102	SMOOTH BORE	-----
9-31904	.481	.222	.625	.102	SMOOTH BORE	-----

printed circuit board thru hole mount

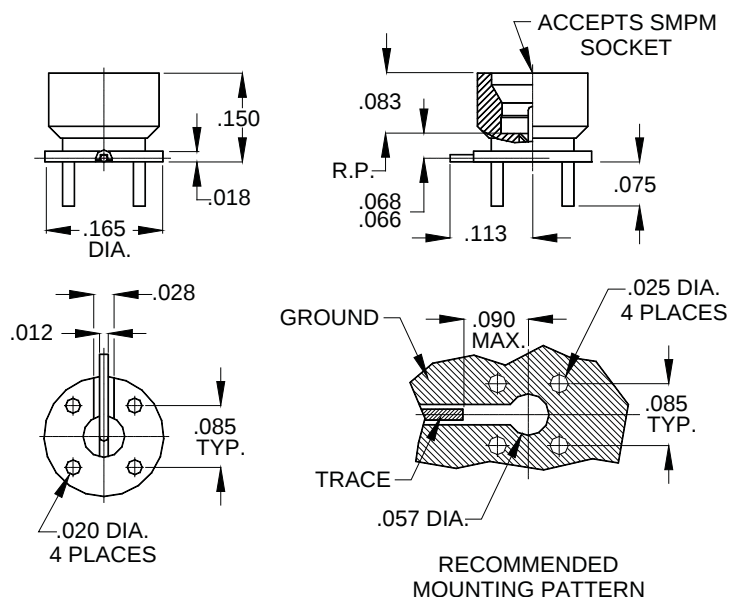


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0031-6400	FULL DETENT	STAINLESS STEEL	DC-12.5 GHz.
3129-0031-6400	SMOOTH BORE	STAINLESS STEEL	DC-12.5 GHz.

Specifications are subject to change without notice

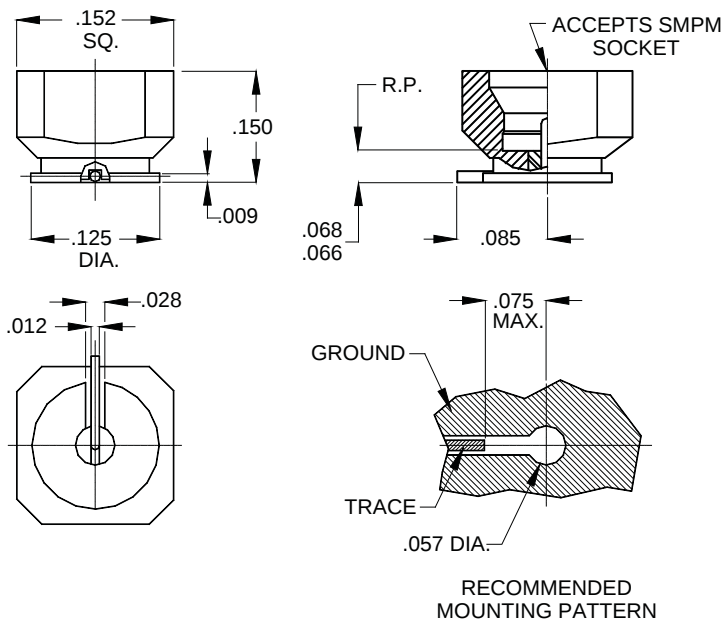
smpm • shrouds and bushings

printed circuit board thru hole, surface mount



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0531-6401	FULL DETENT	STAINLESS STEEL	DC-18.0 GHz.
3129-0531-6401	SMOOTH BORE	STAINLESS STEEL	DC-18.0 GHz.

printed circuit board, surface mount

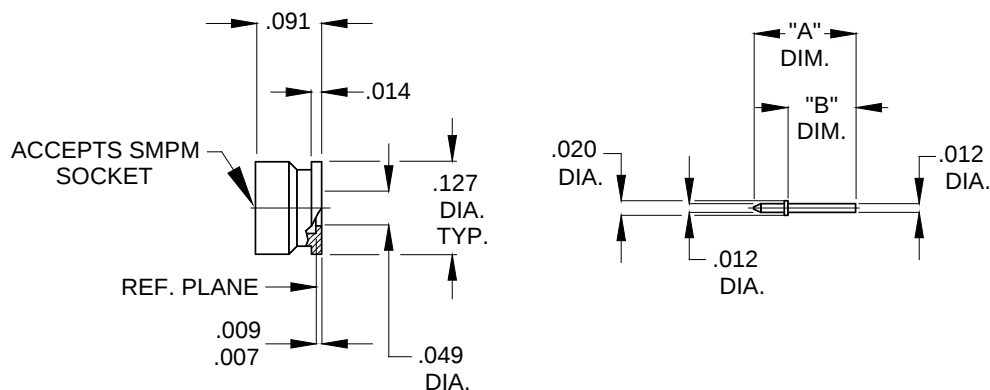


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0531-6400	FULL DETENT	STAINLESS STEEL	DC-18.0 GHz.
3129-0531-6400	SMOOTH BORE	STAINLESS STEEL	DC-18.0 GHz.

Specifications are subject to change without notice

smpm • shrouds and bushings

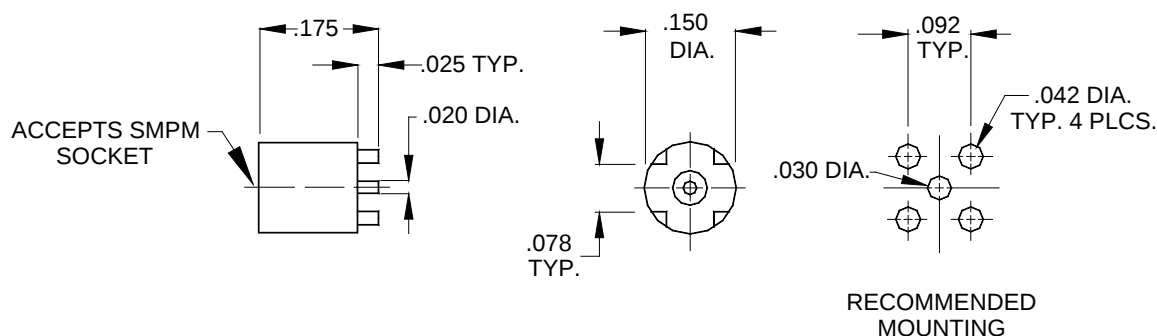
printed circuit board, surface mount



CENTERING TOOL : 9-31040

PART NUMBER	"A" DIA.	"B" DIA.	MATERIAL TYPE	ENGAGEMENT	FREQUENCY RANGE
3120-0390-6400	.140	.093	STAINLESS STEEL	FULL DETENT	DC-12.5 GHz.
3120-0390-6401	.052	.005	STAINLESS STEEL	FULL DETENT	DC-12.5 GHz.
3120-0390-6402	.047	.000	STAINLESS STEEL	FULL DETENT	DC-12.5 GHz.
3120-0390-6403	.084	.005	STAINLESS STEEL	FULL DETENT	DC-12.5 GHz.
3129-0390-6400	.140	.093	STAINLESS STEEL	SMOOTH BORE	DC-12.5 GHz.
3129-0390-6401	.052	.005	STAINLESS STEEL	SMOOTH BORE	DC-12.5 GHz.
3129-0390-6402	.047	.000	STAINLESS STEEL	SMOOTH BORE	DC-12.5 GHz.
3129-0390-6403	.084	.005	STAINLESS STEEL	SMOOTH BORE	DC-12.5 GHz.

printed circuit board, thru hole surface mount

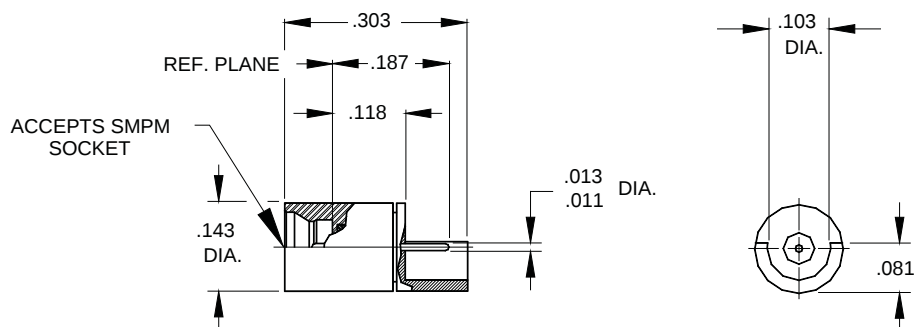


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0031-2300	FULL DETENT	BRASS	DC-40.0 GHz.
3129-0031-2300	SMOOTH BORE	BRASS	DC-40.0 GHz.

Specifications are subject to change without notice

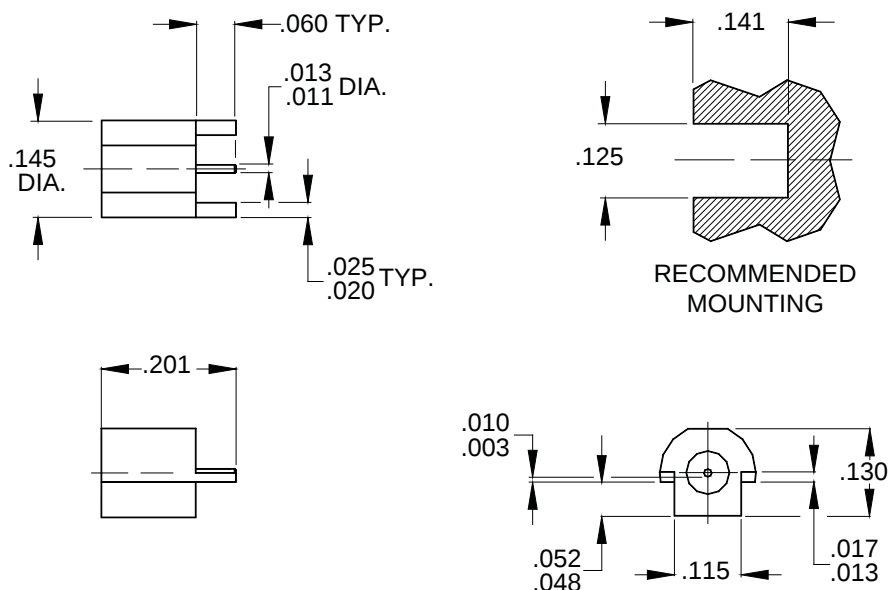
smpm • shrouds and bushings

printed circuit board, edge mount



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0535-6400	FULL DETENT	STAINLESS STEEL	DC-40.0 GHz.
3129-0535-6400	SMOOTH BORE	STAINLESS STEEL	DC-40.0 GHz.

printed circuit board, hermetically sealed, edge mount

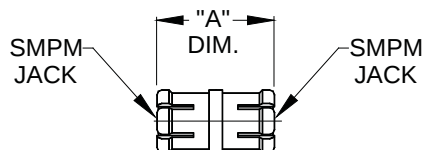


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
3120-0431-6418	FULL DETENT	STAINLESS STEEL	DC-40.0 GHz.
3129-0431-6418	SMOOTH BORE	STAINLESS STEEL	DC-40.0 GHz.

Specifications are subject to change without notice

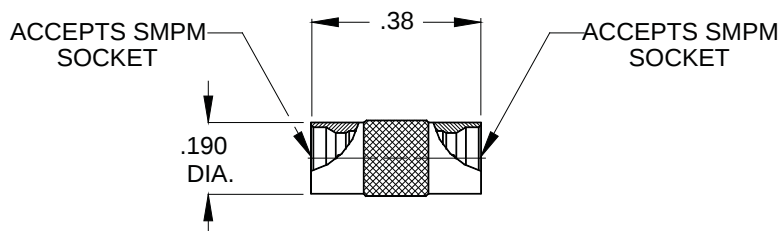
smpm • in-series adapters

female, jack to female, jack, straight



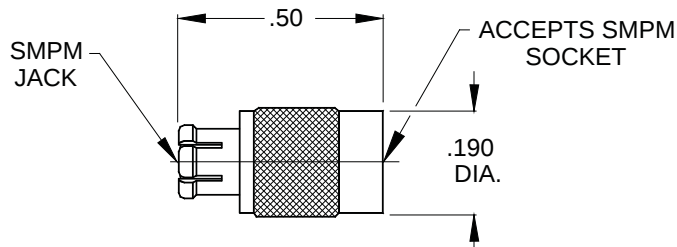
PART NUMBER	"A" DIM.	DSCC PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3030-5450	.190/.189	-----	BERYLLIUM	DC-50.0 GHz.
1100-3030-5451	.505/.495	-----	BERYLLIUM	DC-50.0 GHz.
1100-3030-5455	.2555/.2535	-----	BERYLLIUM	DC-50.0 GHz.
1100-3030-5452	.210	-----	BERYLLIUM	DC-50.0 GHz.

male, plug to male, plug, straight



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-3131-6250	FULL DETENT / FULL DETENT	STAINLESS STEEL	DC-50.0 GHz.
1100-3131-6251	FULL DETENT / SMOOTH BORE	STAINLESS STEEL	DC-50.0 GHz.
1100-3131-6252	SMOOTH BORE / SMOOTH BORE	STAINLESS STEEL	DC-50.0 GHz.

female, jack to male, plug, straight

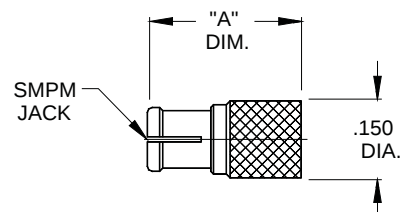


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-3031-6250	FULL DETENT	STAINLESS STEEL	DC-50.0 GHz.
1100-3031-6251	SMOOTH BORE	STAINLESS STEEL	DC-50.0 GHz.

Specifications are subject to change without notice

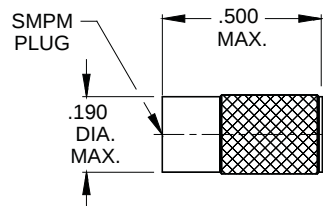
smpm • termination

smpm, female, jack, termination



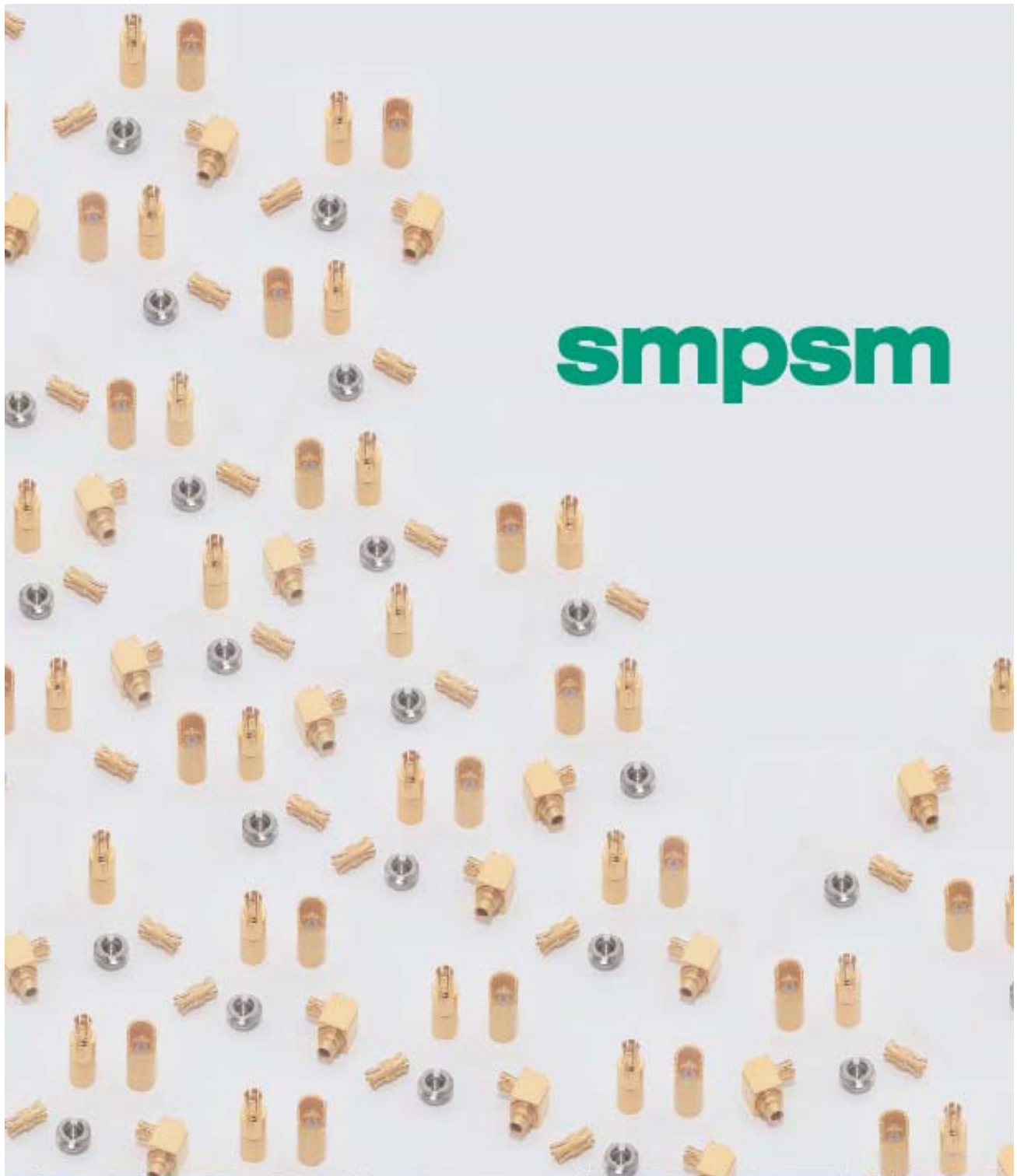
PART NUMBER	"A" DIM.	POWER	MATERIAL TYPE	FREQUENCY RANGE/VSWR MAX.
5400-3005-5400	.40 MAX.	0.5 W	BERYLLIUM COPPER	DC-30.0 GHz. / 1.20 : 1
5400-3005-5401	.40 MAX.	0.5 W	BERYLLIUM COPPER	DC-50.0 GHz. / 1.30 : 1

smpm, male, plug, termination



PART NUMBER	ENGAGEMENT	POWER	MATERIAL TYPE	FREQ. RANGE/VSWR MAX.
5400-3105-6200	FULL DETENT	0.5 W	STAINLESS STEEL	DC-30.0 GHz. / 1.20 : 1
5400-3109-6200	SMOOTH BORE	0.5 W	STAINLESS STEEL	DC-50.0 GHz. / 1.30 : 1

Specifications are subject to change without notice



smps

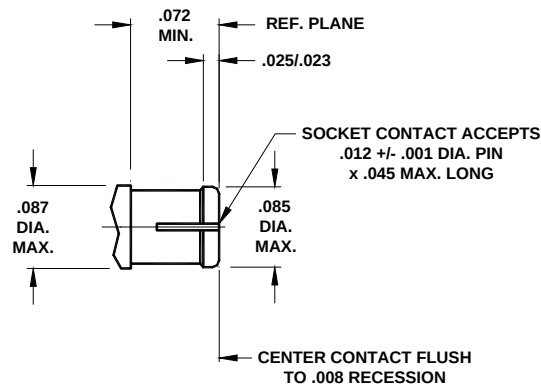


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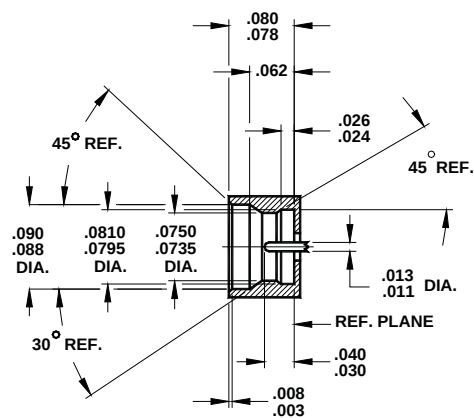
dynawave
INCORPORATED

smpsm interfaces

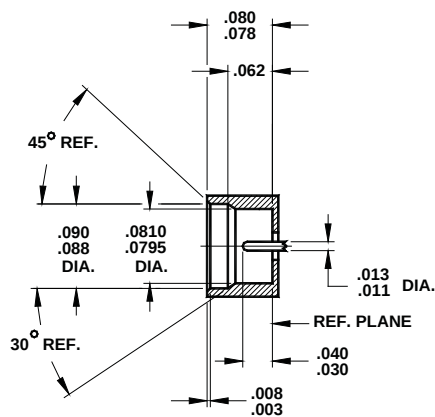
socket (adapter)



pin (shroud)



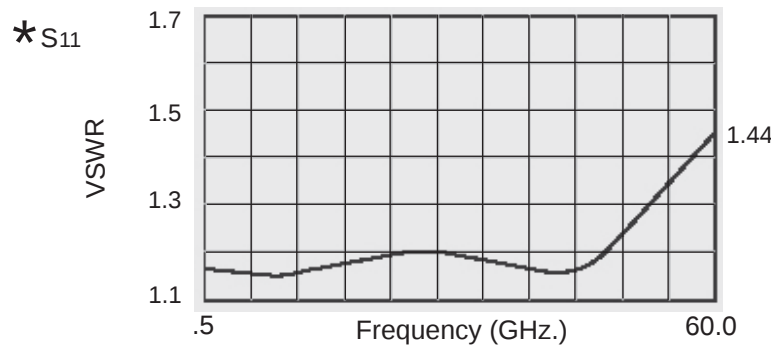
MALE, PLUG, FULL DETENT



MALE, PLUG, SMOOTH BORE

OTHER INTERFACE DIMENSIONS AVAILABLE PER CUSTOMER ENGAGE AND DISENGAGE FORCE REQUIREMENTS.

smpsm specifications



The Dynawave **SMPSM** socket adapter, P/N 1100-5050-5450 has a Maximum VSWR of 1.44 : 1 through 60.0 GHz.

ELECTRICAL :

Frequency Range	DC TO 60.0 GHz.
VSWR Max.	1.10 DC TO 23.0 GHz. 1.20 : 23.0 GHz. TO 26.5 GHz. 1.44 : 26.5 GHz. TO 60.0 GHz.
Insertion Loss (Max. dB)	.10 dB x $\sqrt{\text{FGHz.}}$
Nominal Impedance (OHMS)	50
Voltage Rating (Max. VRMS)	170
RF Leakage (Min. dB down, fully mated)	-80 dB - FGHz. TO 3.0 GHz. -65 dB FROM 3.0 TO 26.5 GHz. MIN.
Temperature Rating (Degrees Centigrade)	-65 °C TO +165 °C
Dielectric Withstanding Voltage (Max. VRMS)	500
Insulation Resistance (Min. MEGOHMS)	5,000
Center Contact (Socket) Resistance (Max. MILLIOHMS)	6.0
Outer Contact Resistance (Max. MILLIOHMS)	2.0

MECHANICAL :

CAPTIVATION-CENTER CONTACT

Minimum Axial Force	1.5 Lbs.
Minimum Radial Torque	N/A

MATING FORCES

Engagement (Max. Lbs.)	Full Detent 6.5, Smooth Bore 1.5
Disengagement (Min. Lbs.)	Full Detent 3.5, Smooth Bore 0.5
Durability (Max. Matings)	Full Detent (100), Smooth Bore (500)
Axial Displacement (Inches)	.000/.010
Total Radial Misalignment (Inches)	.0075

ENVIRONMENTAL :

Temperature Cycling	MIL-STD-202, Method 102, Cond. C (-65 °C TO + 165 °C)
Shock	MIL-STD-202, Method 213, Cond. 1 (100 G's)
Vibration	MIL-STD-202, Method 204, Cond. D (20 G's)
Barometric Pressure (Altitude)	MIL-STD-202, Method 105, Cond. C (70,000 FT.) (125 VRMS)
Thermal Shock	MIL-STD-202, METHOD 107, COND. B (HIGH TEMP. 165 °C)
Temperature Rating	-65 °C TO +165 °C

MATERIAL / FINISH :

ADAPTER BODY

Beryllium Copper per ASTM B196/B, 196M-03, Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 3, Grade C, Class 1.25 Over Nickel per QQ-N-290, Class 1.

SHROUD (PIN) HERMETIC SEAL - WITH 7070 GLASS BEAD

Iron Nickel Alloy per MIL-I-23011 (Kovar)
Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS QQ-P-35, Type 2.
Gold per ATSM B 488, Type 3, Grade C, Class 1.25 Over Nickel per QQ-N-290, Class 1.

SHROUD (PIN) NON-HERMETIC

Stainless per ASTM A581, or A582, Free Machining, Type 303, Condition A.
Passivate per AMS QQ-P-35, Type 2.
Gold per ATSM B 488, Type 3, Grade C, Class 1.25 Over Nickel per QQ-N-290, Class 1.

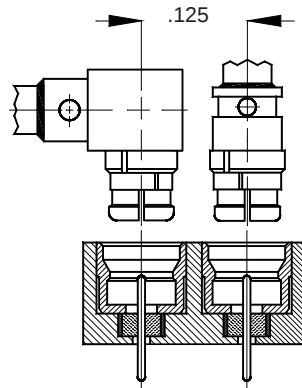
CENTER CONTACT (SOCKET)

Beryllium Copper per ASTM B196/B, 196M, Copper Alloy #UNS C17300, Temper TD04.
Gold per ATSM B 488, Type 3, Grade C, Class 1.25 Over Nickel per QQ-N-290, Class 1.

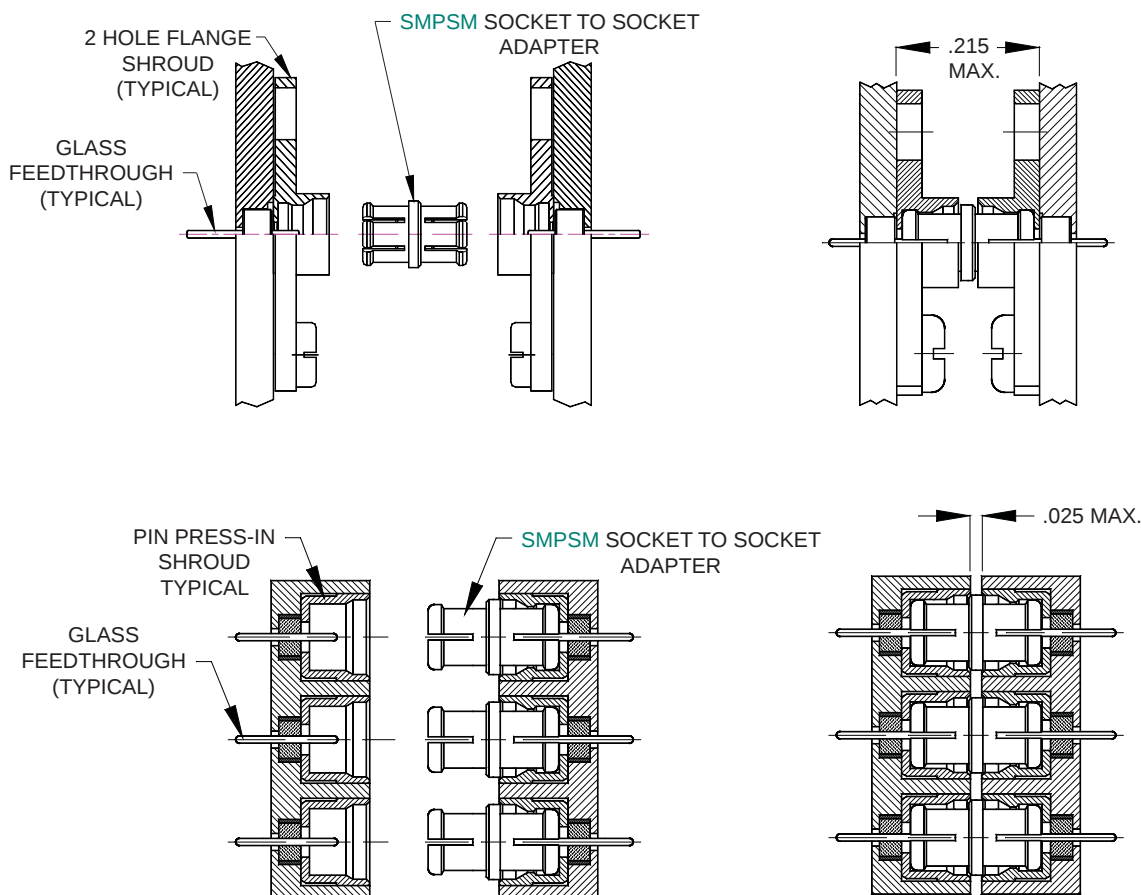
INSULATOR

TEFLON PER ASTM D1710-02, Type 1, Class 1, Grade B.

smpsm application notes



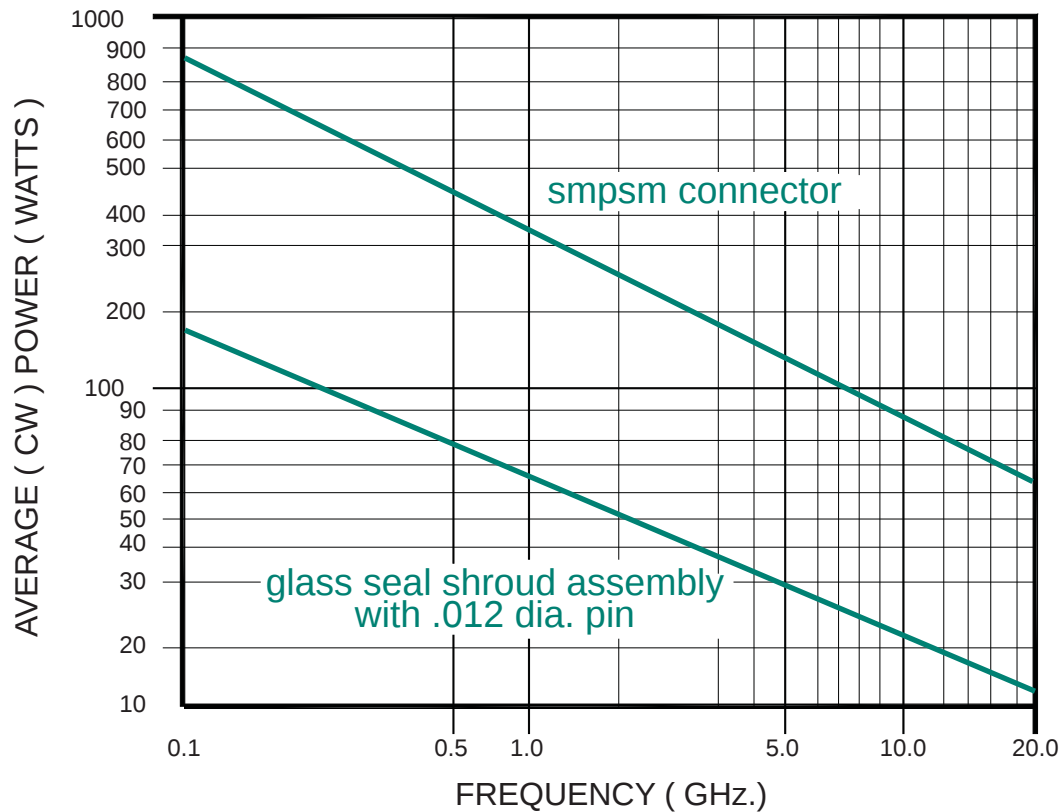
The Dynawave **SMPSM** series of connectors are designed to minimize MIC package size and reduce valuable mounting space. The low profile design will allow module to module mounting with a center to center dimension of .125 inches. The **SMPSM** cable connectors straight and right angle as shown are designed for .047 and .085 semi-rigid cables.



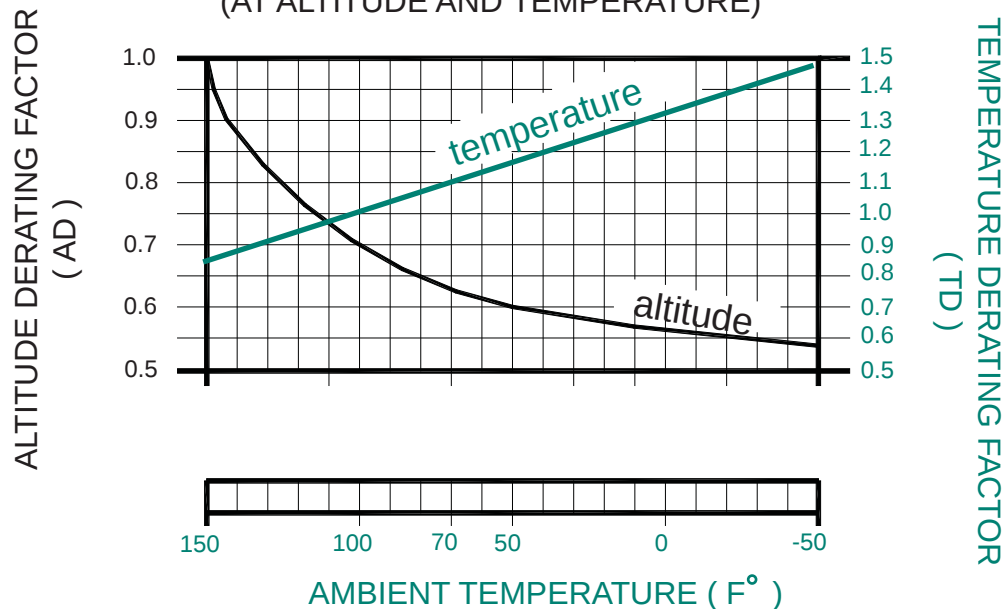
The Dynawave **SMPSM** 2 hole flange mount connectors or press-in shrouds are designed to reduce valuable mounting space thus allowing modules to be significantly reduced in size to maintain a low profile. The shrouds are used with a glass bead assembly to complete the coaxial interface. Hermetic Shroud designs consisting of Body, Pin and Glass are available to eliminate multi-component assemblies. The smooth bore interface allows the component engineers to mate multiple connectors at one time. Non-standard interfaces for customer unique engagement and disengagement designs are available upon request.

smpsm power ratings

AVERAGE (CW) POWER RATING
(AT SEA LEVEL & +70°F TEMPERATURE)



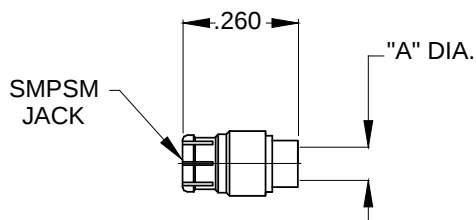
AVERAGE (CW) POWER DERATING FACTOR
(AT ALTITUDE AND TEMPERATURE)



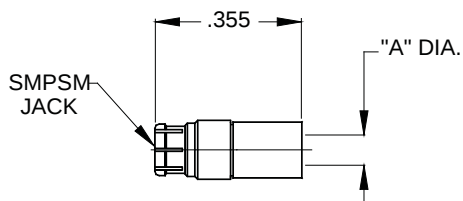
$$\text{MAXIMUM OPERATING POWER} = \text{POWER RATING} \times \text{AD} \times \text{TD}$$

smpsm • semi rigid cable connectors

female, jack, straight

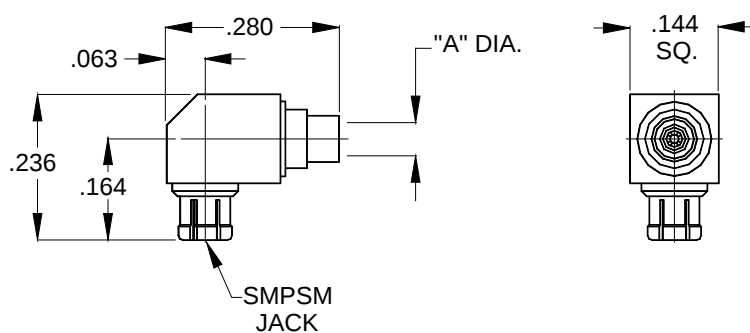


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
5000-3425-5400	.036 MIN.	.034 S.R.	BERYLLIUM	-----	DC - 60.0 GHz.
5000-4725-5400	.049 MIN.	.047 S.R.	BERYLLIUM	-----	DC - 60.0 GHz.



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
5000-8525-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM	-----	DC - 60.0 GHz.

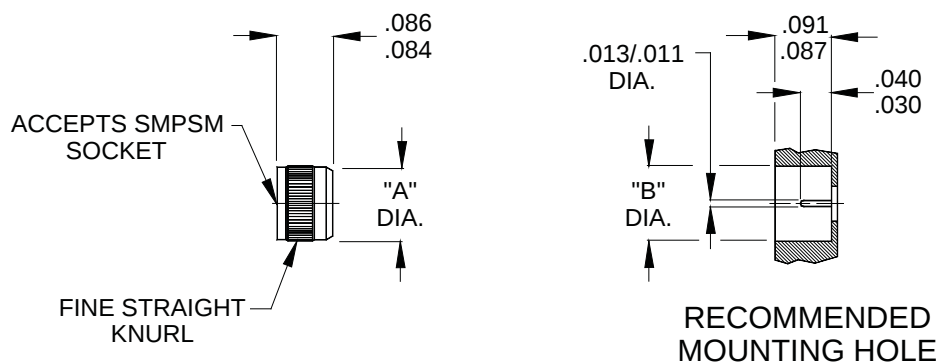
female, jack, right angle



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	DSCC NUMBER	FREQ.RANGE
5001-4720-5400	.049 MIN.	.047 S.R.	BERYLLIUM	-----	DC - 40.0 GHz.

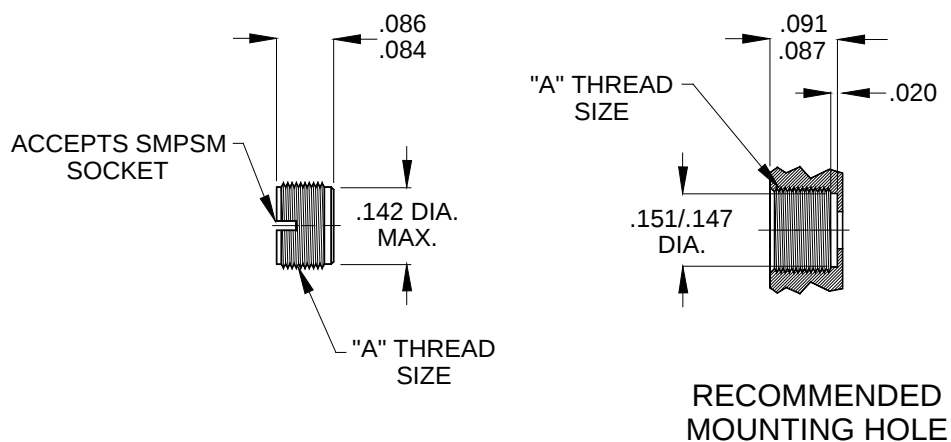
smpsm • shrouds and bushings

press-in shroud



PART NUMBER	"A" DIA.	"B" DIA.	MATERIAL TYPE	ENGAGEMENT TYPE	PRESS TOOL
9-51000	.105 / .103	.101 / .099	STAINLESS STEEL	FULL DETENT	9-50142-00
9-51900	.105 / .103	.101 / .099	STAINLESS STEEL	SMOOTH BORE	9-50142-09

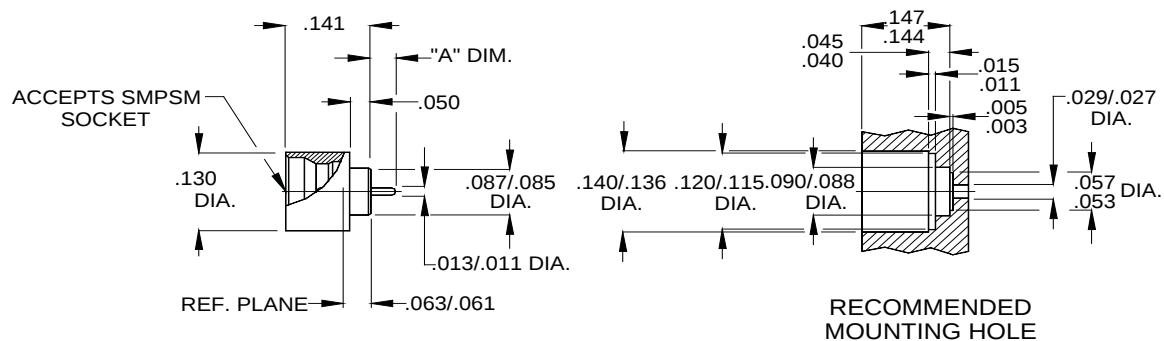
thread-in shroud



PART NUMBER	"A" THREAD SIZE	MATERIAL TYPE	ENGAGEMENT TYPE	TORQUE TOOL
9-51015	.164-64UNS-2A	STAINLESS STEEL	FULL DETENT	9-50164-00
9-51915	.164-64UNS-2A	STAINLESS STEEL	SMOOTH BORE	9-50164-09

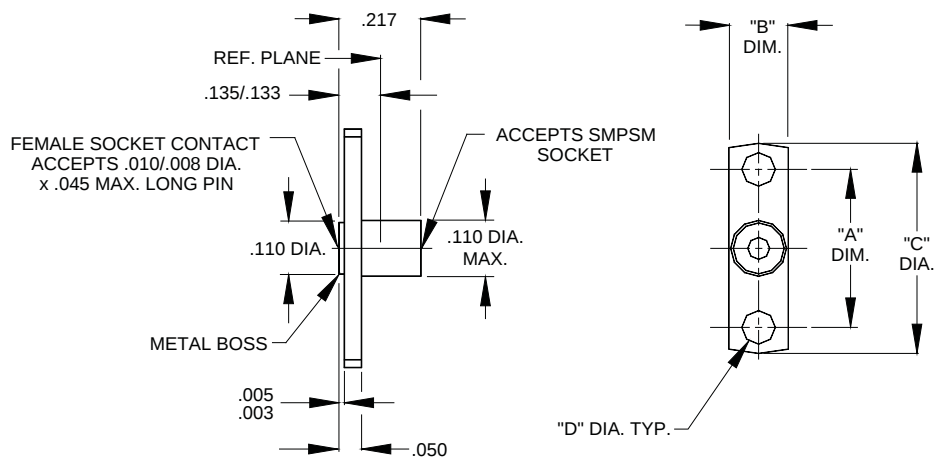
Specifications are subject to change without notice

hermetic solder-in shroud



PART NUMBER	“A” DIM.	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5140-0434-7413	.130	FULL DETENT	KOVAR	DC - 46.0 GHz.
5140-0434-7450	.05	FULL DETENT	KOVAR	DC - 46.0 GHz.
5140-0434-7470	.070	FULL DETENT	KOVAR	DC - 46.0 GHz.
5149-0434-7413	.130	SMOOTH BORE	KOVAR	DC - 46.0 GHz.
5149-0434-7450	.050	SMOOTH BORE	KOVAR	DC - 46.0 GHz.
5149-0434-7470	.070	SMOOTH BORE	KOVAR	DC - 46.0 GHz.

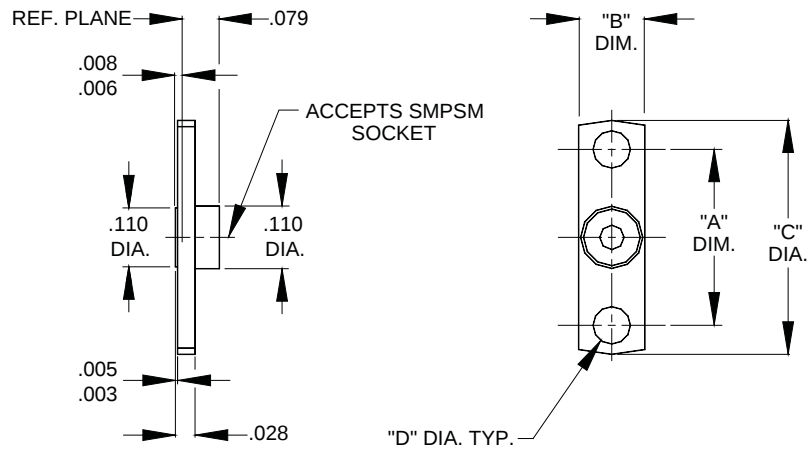
male, plug, flange mount, field replacable



PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	FREQUENCY RANGE
5152-0881-6228	.282	.165	.400	.073	FULL DETENT	DC - 40.0 GHz.
5152-0881-6232	.328	.187	.480	.098	FULL DETENT	DC - 40.0 GHz.
5152-0881-6240	.400	.187	.550	.102	FULL DETENT	DC - 40.0 GHz.
5152-0881-6248	.481	.222	.625	.102	FULL DETENT	DC - 40.0 GHz.
5192-0881-6228	.282	.165	.400	.073	SMOOTH BORE	DC - 40.0 GHz.
5192-0881-6232	.328	.187	.480	.098	SMOOTH BORE	DC - 40.0 GHz.
5192-0881-6240	.400	.187	.550	.102	SMOOTH BORE	DC - 40.0 GHz.
5192-0881-6248	.481	.222	.625	.102	SMOOTH BORE	DC - 40.0 GHz.

smpsm • shrouds and bushings

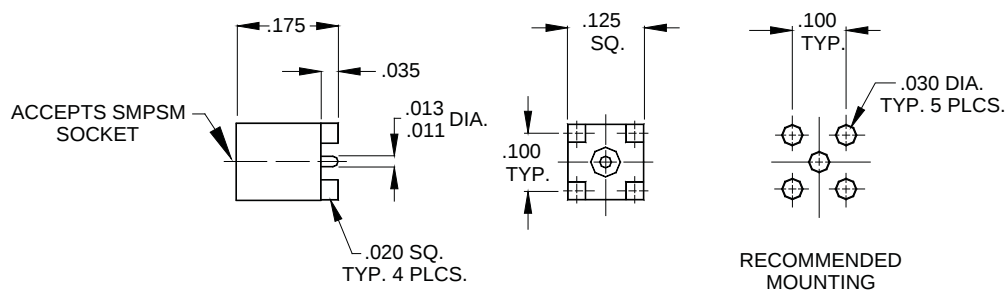
flange mount shroud with metal boss



CENTERING TOOL : 9-51040

PART NUMBER	"A" DIM.	"B" DIM.	"C" DIA.	"D" DIA.	ENGAGEMENT TYPE	DSCC PART NUMBER
9-51801	.282	.125	.400	.073	FULL DETENT	-----
9-51802	.328	.125	.480	.098	FULL DETENT	-----
9-51803	.400	.125	.550	.102	FULL DETENT	-----
9-51804	.481	.150	.625	.102	FULL DETENT	-----
9-51901	.282	.125	.400	.073	SMOOTH BORE	-----
9-51902	.328	.125	.480	.098	SMOOTH BORE	-----
9-51903	.400	.125	.550	.102	SMOOTH BORE	-----
9-51904	.481	.150	.625	.102	SMOOTH BORE	-----

printed circuit board thru hole mount

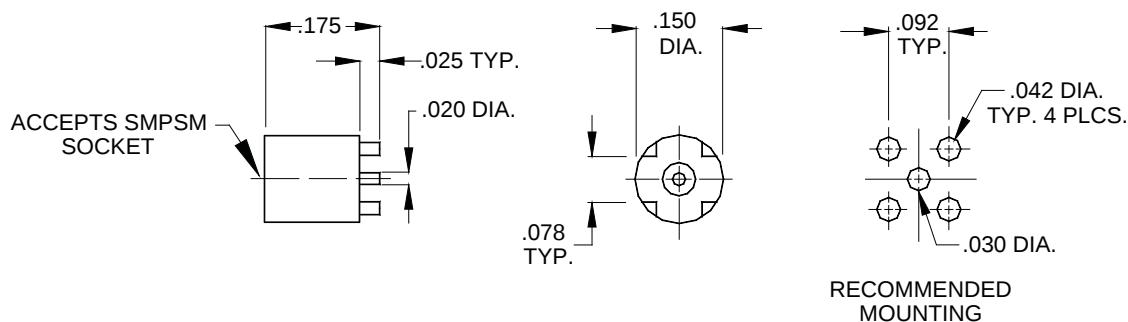


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5120-0031-6401	FULL DETENT	STAINLESS STEEL	DC - 60.0 GHz.
5129-0031-6401	SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.

Specifications are subject to change without notice

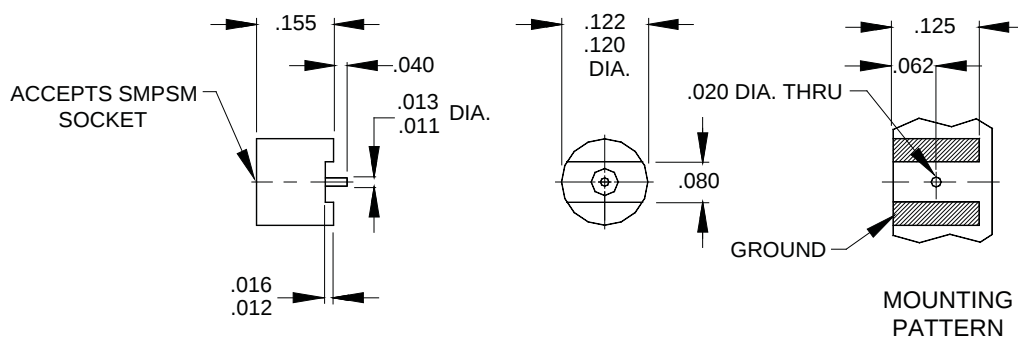
smpsm • shrouds and bushings

printed circuit board, surface mount



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5120-0031-2320	FULL DETENT	BRASS	DC - 60.0 GHz.
5129-0031-2320	SMOOTH BORE	BRASS	DC - 60.0 GHz.
5120-0031-6400	FULL DETENT	STAINLESS STEEL	DC - 60.0 GHz.
5129-0031-6400	SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.

printed circuit board, surface mount

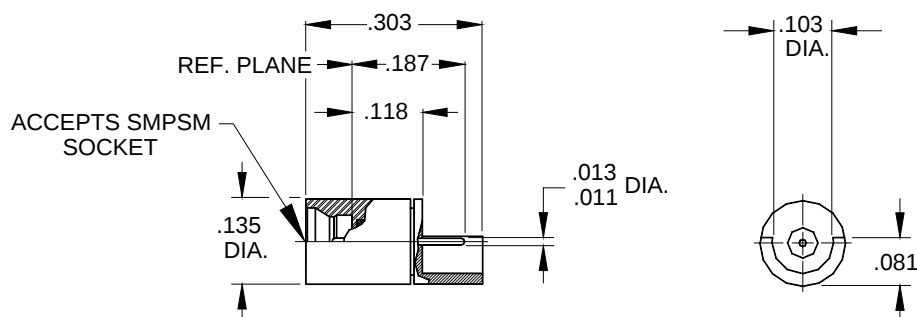


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5120-0031-2350	FULL DETENT	BRASS	DC - 60.0 GHz.
5129-0031-2350	SMOOTH BORE	BRASS	DC - 60.0 GHz.
5120-0031-6450	FULL DETENT	STAINLESS STEEL	DC - 60.0 GHz.
5129-0031-6450	SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.

Specifications are subject to change without notice

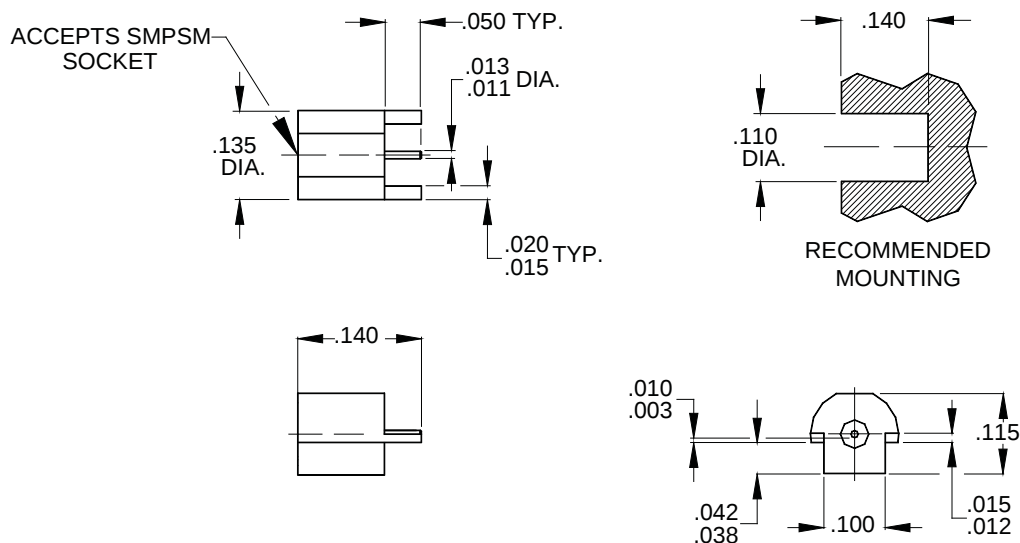
smpsm • shrouds and bushings

printed circuit board, edge mount



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5120-0535-6400	FULL DETENT	STAINLESS STEEL	DC - 50.0 GHZ.
5129-0535-6400	SMOOTH BORE	STAINLESS STEEL	DC - 50.0 GHZ.

printed circuit board, hermetically sealed, edge mount

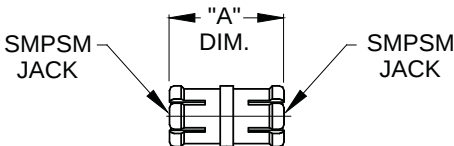


PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
5120-0431-6418	FULL DETENT	STAINLESS STEEL	DC - 50.0 GHZ.
5129-0431-6418	SMOOTH BORE	STAINLESS STEEL	DC - 50.0 GHZ.

Specifications are subject to change without notice

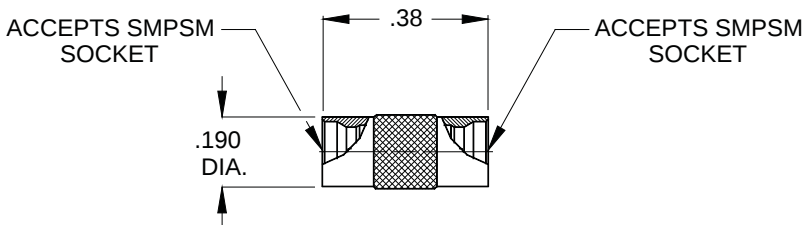
smpsm • in-series adapters

female, jack to female, jack, straight



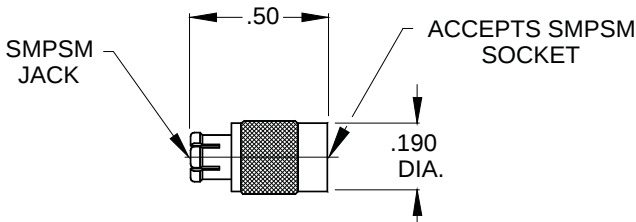
PART NUMBER	"A" DIM.	DSCC PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-5050-5450	.190/.189	-----	BERYLLIUM	DC - 60.0 GHz.
1100-5050-5451	.505/.495	-----	BERYLLIUM	DC - 60.0 GHz.
1100-5050-5455	.2555/.2535	-----	BERYLLIUM	DC - 60.0 GHz.

male, plug to male, plug, straight



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-5151-6250	FULL DETENT / FULL DETENT	STAINLESS STEEL	DC - 60.0 GHz.
1100-5151-6251	FULL DETENT / SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.
1100-5151-6252	SMOOTH BORE / SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.

female, jack to male, plug, straight



PART NUMBER	ENGAGEMENT TYPE	MATERIAL TYPE	FREQUENCY RANGE
1100-5051-6250	FULL DETENT	STAINLESS STEEL	DC - 60.0 GHz.
1100-5051-6251	SMOOTH BORE	STAINLESS STEEL	DC - 60.0 GHz.



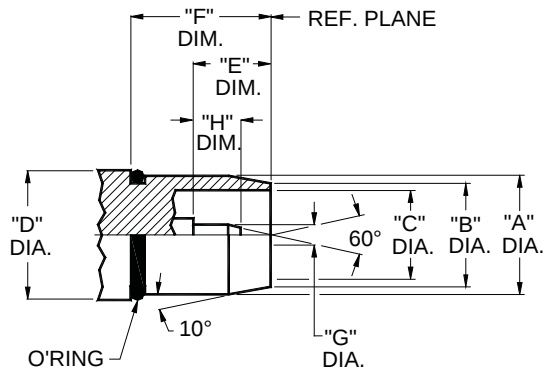
bma



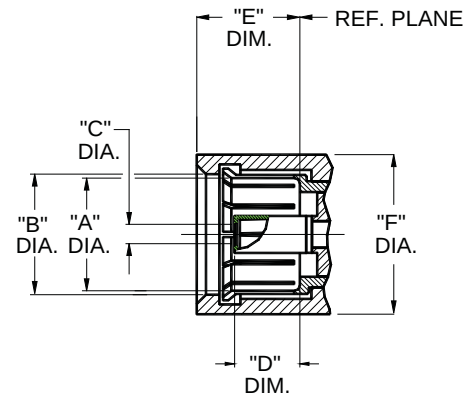
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INCORPORATED

bma • interface dimensions



BMA, MALE, PLUG
Mil-Std-348A
Fig. 321.1



BMA, FEMALE, JACK
Mil-Std-348A
Fig. 321.2

male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.209	5.31	.211	5.36
B	-----	-----	.193	4.90
C	-----	-----	.162	4.15
D	-----	-----	.300	7.62
E	.128	3.25	-----	-----
F	.198	5.03	-----	-----
G	.0355	0.90	.0370	0.94
H	-----	-----	.092	2.34
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	-----	-----	.200	5.08
B	.225	5.72	-----	-----
C	SEE NOTE 1		SEE NOTE 1	
D	-----	-----	.127	3.23
E	-----	-----	.198	5.03
F	.290	7.37	-----	-----
G	-----	-----	-----	-----
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0370/.0355 Dia. inches (0.94 / 0.90) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inches.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

bma specifications

The specifications below are general specifications for all BMA connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

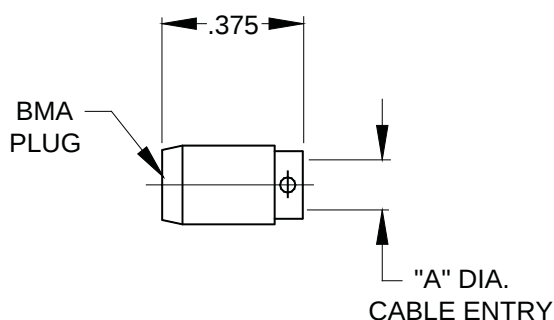
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM- A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710 Nitrile, (Buna-N) per MIL-P-25732
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 1,000 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 670 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 3.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The Engagement Force is 3.0 Lbs. maximum. The Disengagement Force is 1.5 Lbs. maximum.
Coupling Nut Retention Force and Proof Torque.		Not applicable .
Cable Retention force requirements shall not apply.	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending
Mating Characteristics	3.7	See interface dimensions shown on Page 124. Applicable to Females only: over size pin .0372 minimum diameter .045 deep; Insertion force 3 pounds maximum with .0375 minimum diameter pin; withdrawal force 1 ounce minimum with 0355 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperture shall be + 200°C.
Recommended Mating Torque		Not applicable.
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 250 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

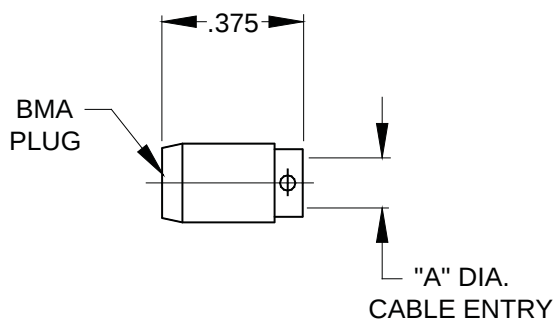
bma • semi rigid cable connectors

male, plug, straight, with center contact



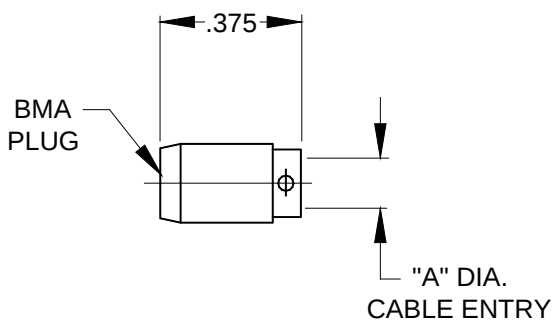
PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2800-4120-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 22.0 GHz.
2800-4120-6400	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 22.0 GHz.

male, plug, straight, without center contact



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2800-4120-2740	.144 MIN.	RG 402/U (.141)	BRASS	DC - 22.0 GHz.
2800-4120-6440	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 22.0 GHz.

male, plug, straight, low loss, with center contact

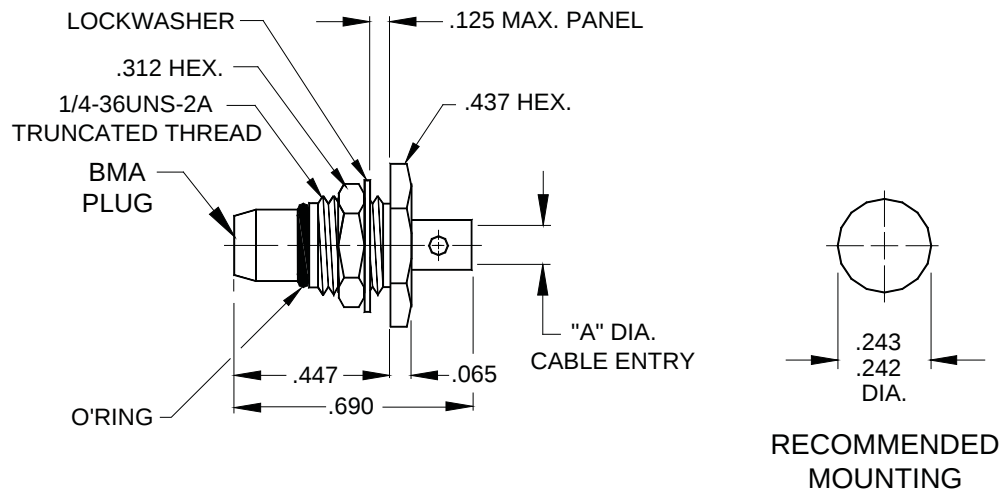


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2800-4220-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 22.0 GHz.
2800-4220-6400	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 22.0 GHz.

Specifications are subject to change without notice

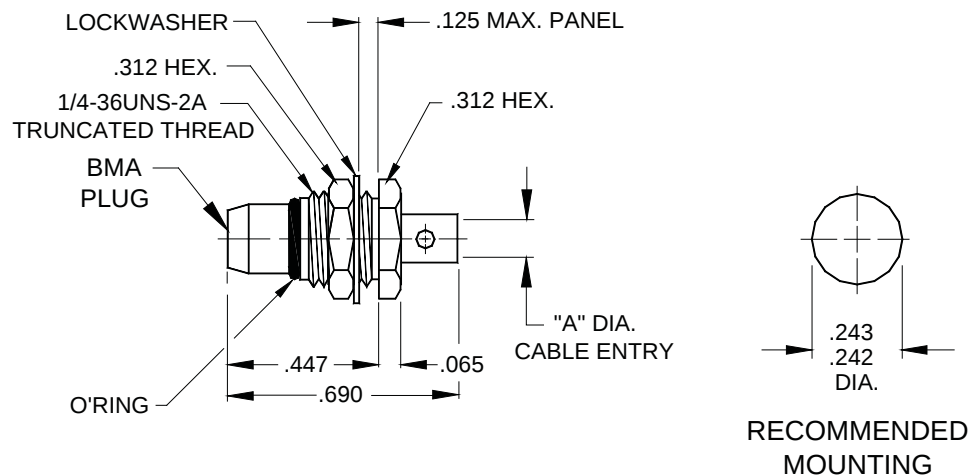
bma • semi rigid cable connectors

male, plug, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2810-8521-6401	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
2810-4121-6450	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

male, plug, bulkhead mount, low loss cable

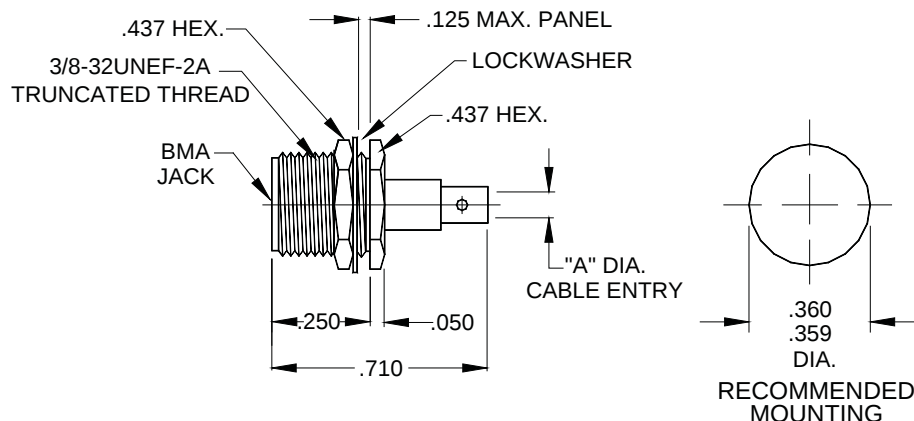


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2810-8921-6400	.089 MIN.	.085 LOW LOSS	STAINLESS STEEL	DC - 26.5 GHz.
2810-4921-6400	.144 MIN.	.141 LOW LOSS	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

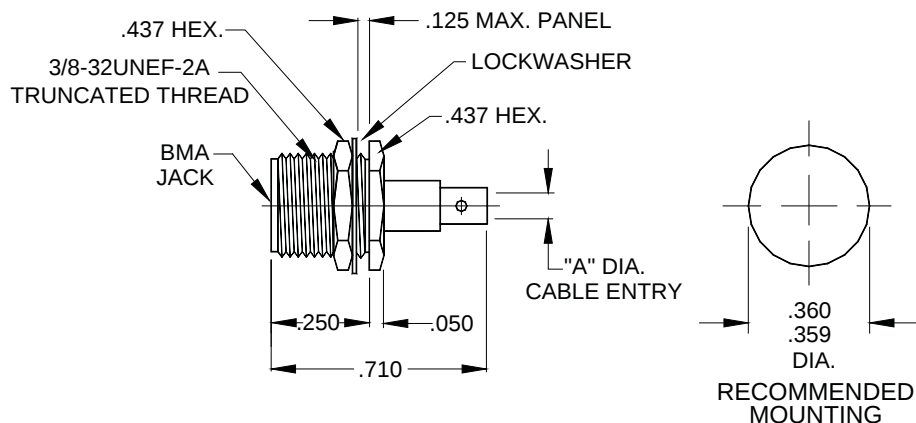
bma • semi rigid cable connectors

female, jack, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6710-8521-6450	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 20.0 GHz.
6710-4121-6450	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 20.0 GHz.

female, jack, bulkhead mount, low loss cable

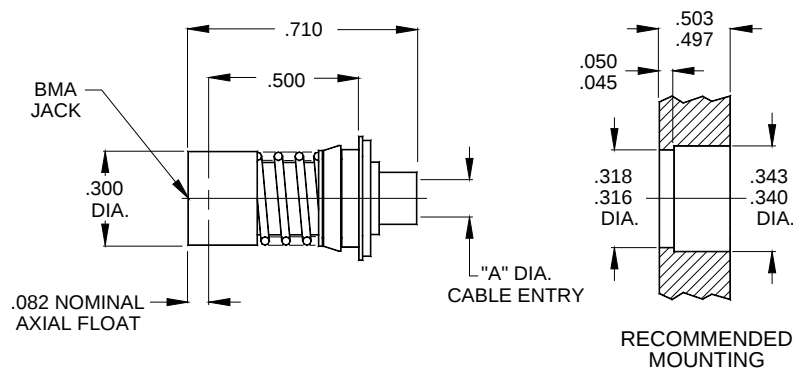


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6710-8921-6400	.089 MIN.	.085 LOW LOSS	STAINLESS STEEL	DC - 20.0 GHz.
6710-4921-6400	.144 MIN.	.141 LOW LOSS	STAINLESS STEEL	DC - 20.0 GHz.

Specifications are subject to change without notice

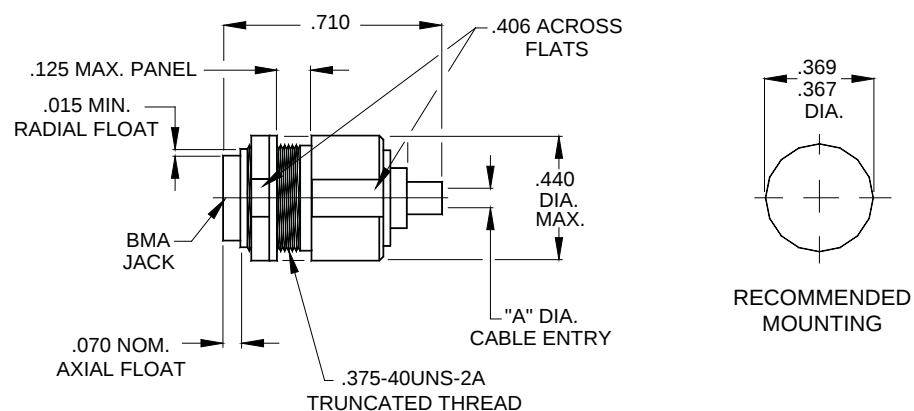
bma • semi rigid cable connectors

female, jack, bulkhead, straight, float mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6760-8521-6441	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
6760-4121-6467	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, bulkhead, straight, float mount

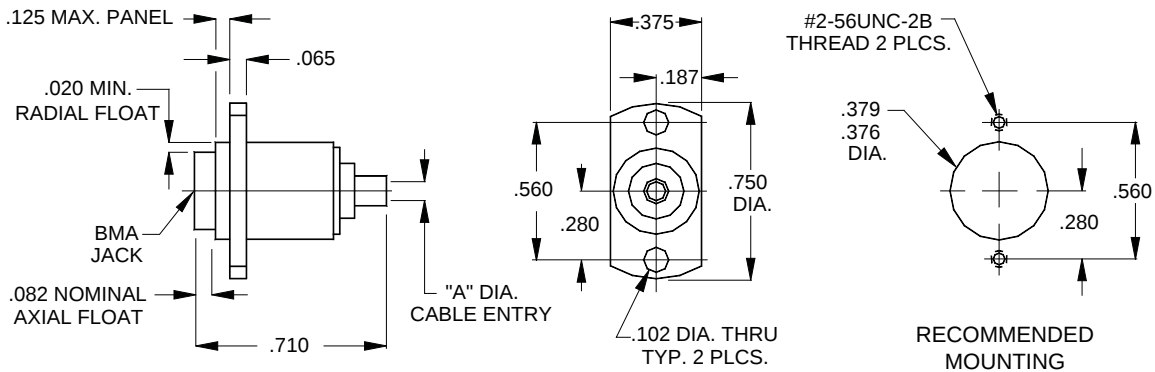


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6760-8529-6299	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
6760-4129-6299	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

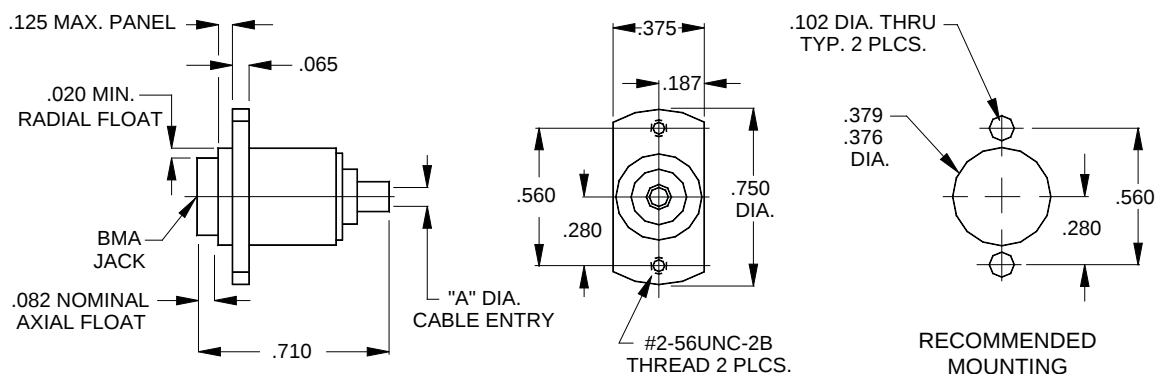
bma • semi rigid cable connectors

female, jack, 2 hole flange, float mount, threaded panel



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6762-8521-6256	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
6762-4121-6256	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, 2 hole flange, float mount, threaded flange

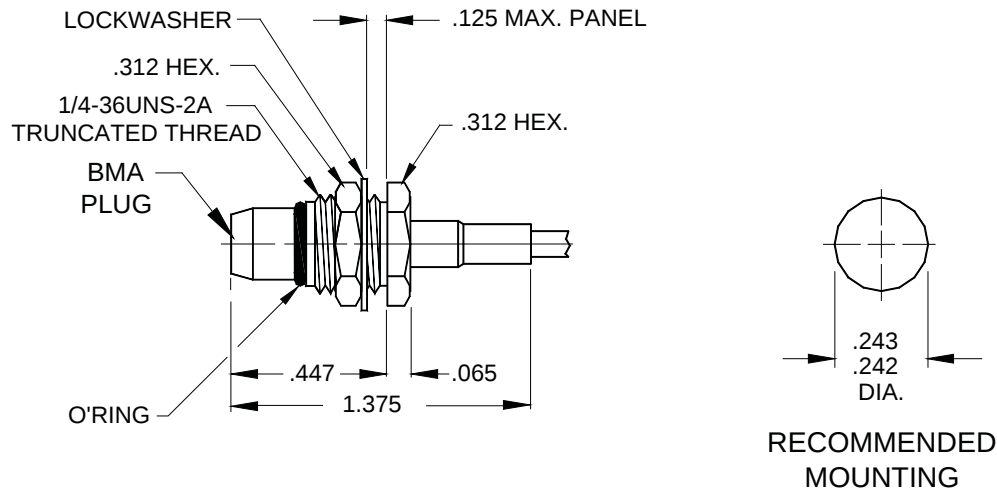


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6762-8521-6257	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
6762-4121-6257	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

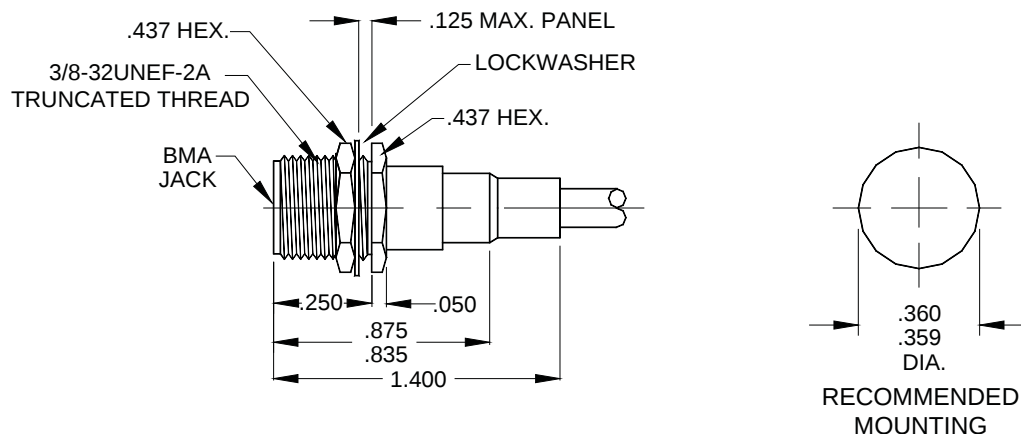
bma • flexible cable connectors

male, plug, bulkhead mount, crimp attachment



PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2810-1630-6231	RG 174/U, 179, 187, 188, 316	STAINLESS STEEL	DC - 3.0 GHz.
2810-1830-6231	RG 316 DOUBLE BRAID	STAINLESS STEEL	DC - 12.4 GHz.
2810-4230-6231	RG 58/U, 142, 223, 400	STAINLESS STEEL	DC - 12.4 GHz.

female, jack, bulkhead mount, crimp attachment

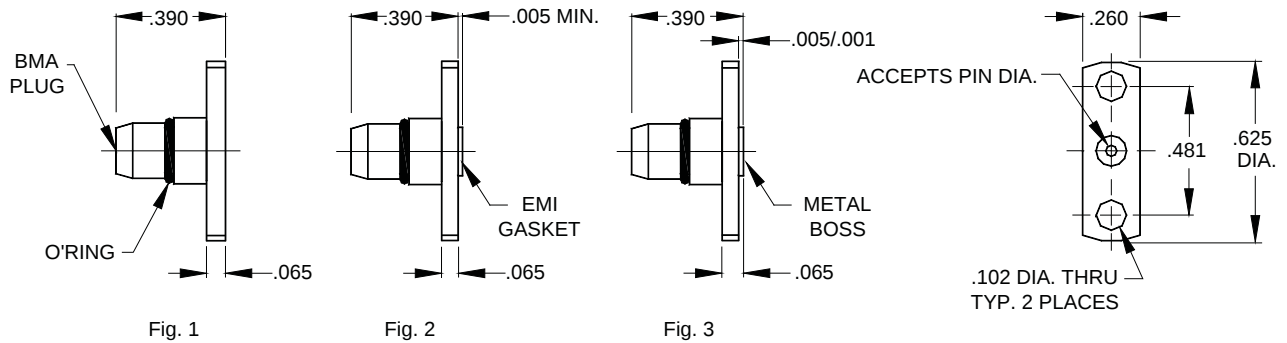


PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6710-1630-6231	RG 174/U, 179, 187, 188, 316	STAINLESS STEEL	DC - 3.0 GHz.
6710-1830-6231	RG 316 DOUBLE BRAID	STAINLESS STEEL	DC - 12.4 GHz.
6710-4230-6231	RG 58/U, 142, 223, 400	STAINLESS STEEL	DC - 12.4 GHz.

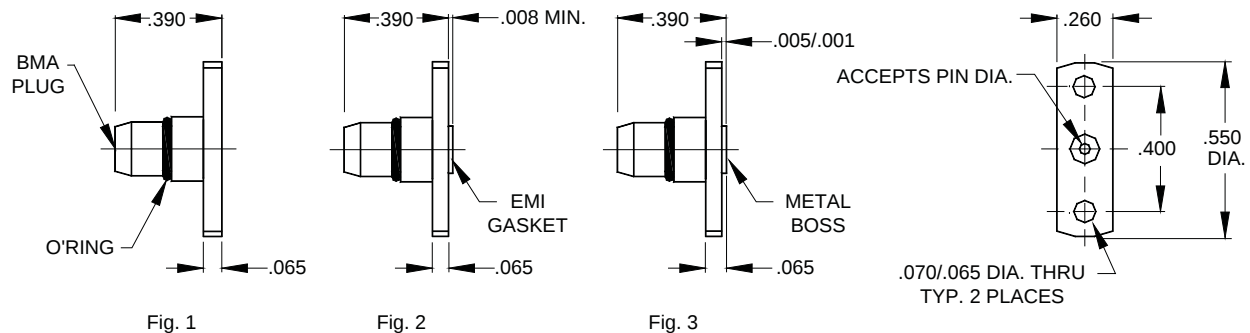
Specifications are subject to change without notice

bma • field replaceable connectors

male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2852-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0081-6236	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6236	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6236	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

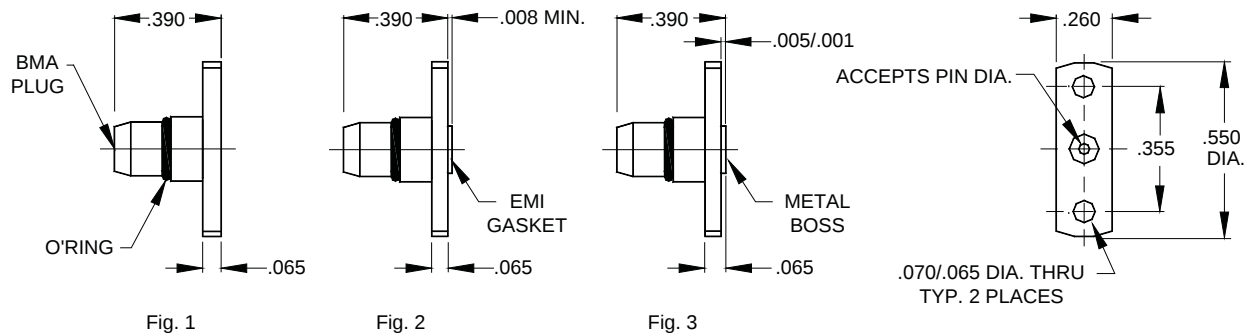


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2852-0081-6214	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6214	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6214	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0081-6224	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6224	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6224	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0081-6246	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6246	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6246	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

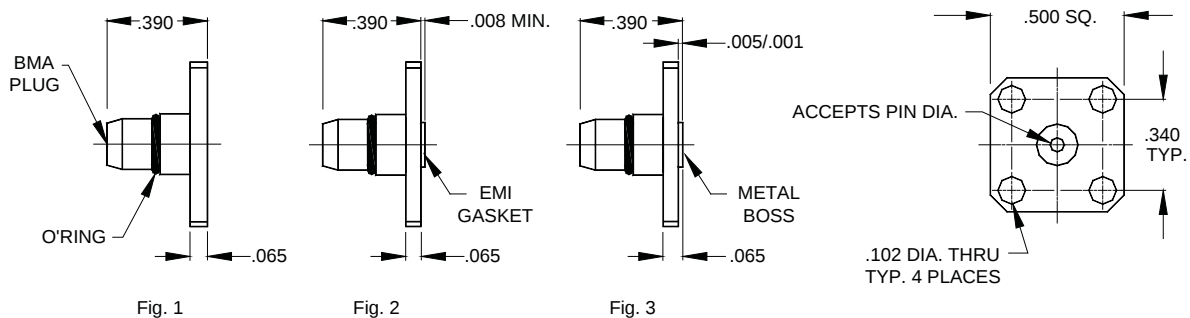
bma • field replaceable connectors

male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2852-0081-6213	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6213	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6213	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2852-0081-6223	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0781-6223	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2852-0881-6223	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.

male, plug, 4 hole flange mount

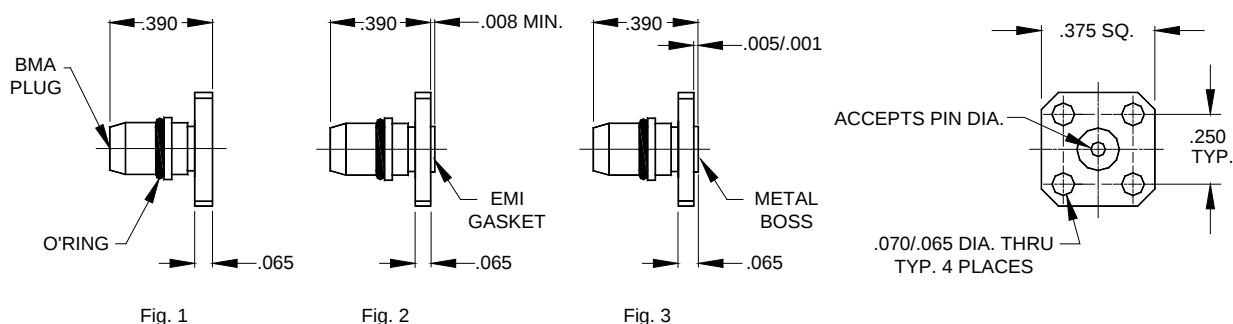


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2854-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6236	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6236	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6236	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

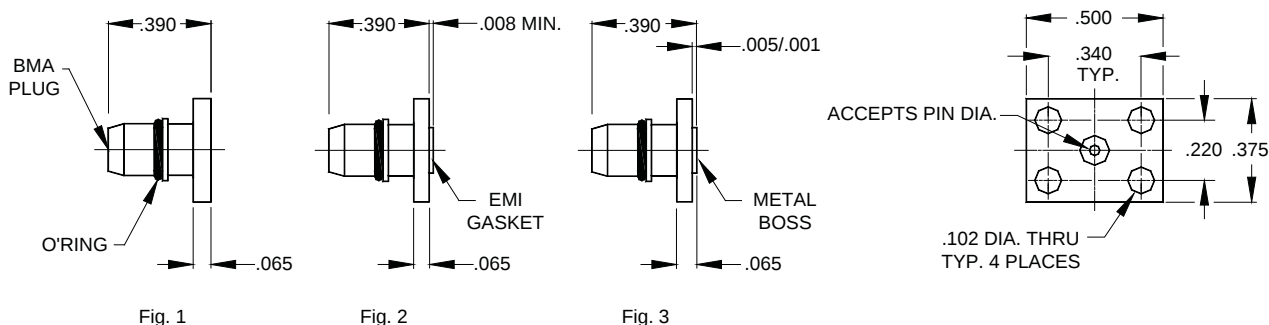
Specifications are subject to change without notice

bma • field replaceable connectors

male, plug, 4 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2854-0081-6217	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6217	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6217	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6227	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6227	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6227	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6237	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6237	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6237	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

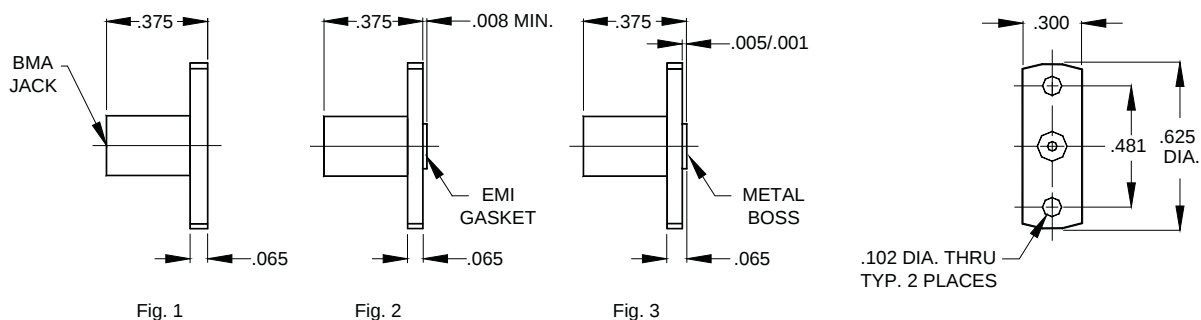


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2854-0081-6219	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6219	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6219	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6229	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6229	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6229	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
2854-0081-6239	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0781-6239	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
2854-0881-6239	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

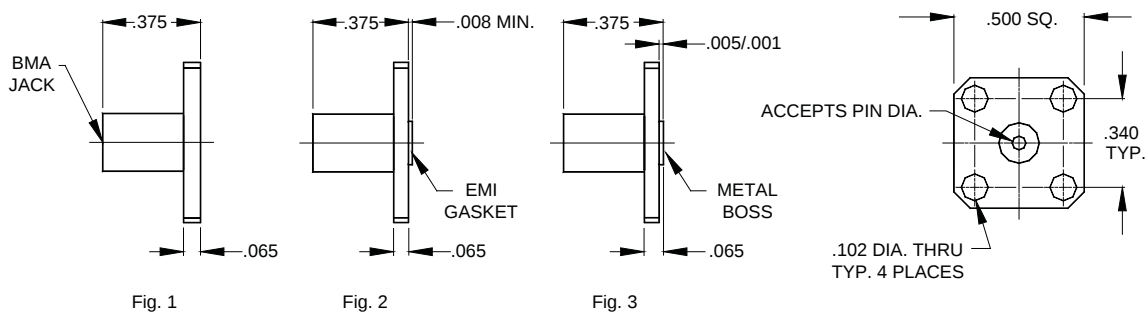
bma • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
6752-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6752-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6752-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6752-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6752-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6752-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6752-0081-6236	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
6752-0781-6236	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
6752-0881-6236	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, 4 hole flange mount

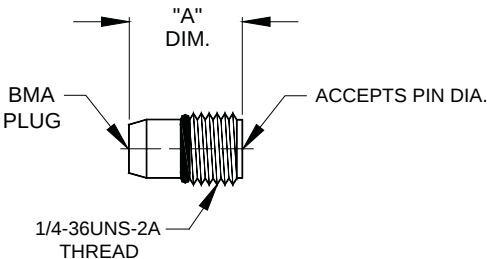


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
6754-0081-6214	1	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6754-0781-6214	2	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6754-0881-6214	3	.016/.011	STAINLESS STEEL	DC - 26.5 GHz.
6754-0081-6224	1	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6754-0781-6224	2	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6754-0881-6224	3	.021/.017	STAINLESS STEEL	DC - 26.5 GHz.
6754-0081-6246	1	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
6754-0781-6246	2	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.
6754-0881-6246	3	.037/.035	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

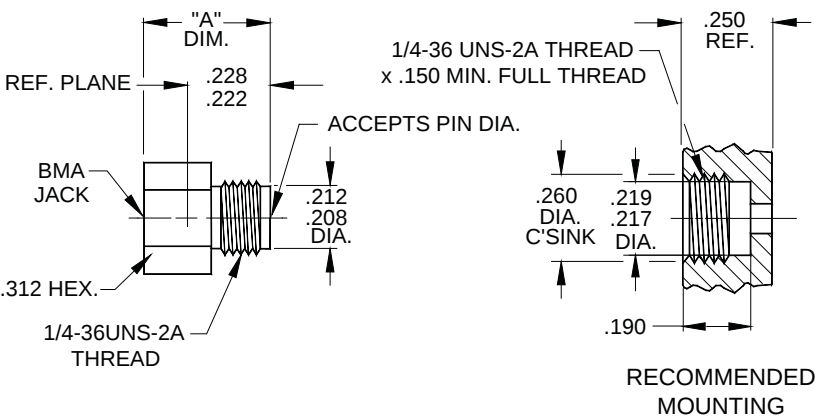
bma • field replaceable connectors

male, plug, thread-in



PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2830-0081-6214	.016/.011	.362	STAINLESS STEEL	DC - 26.5 GHz.
2830-0081-6221	.021-.017	.362	STAINLESS STEEL	DC - 26.5 GHz.
2830-0081-6215	.016/.011	.390	STAINLESS STEEL	DC - 26.5 GHz.
2830-0081-6220	.021/.017	.390	STAINLESS STEEL	DC - 26.5 GHz.
2830-0081-6216	.016/.011	.405	STAINLESS STEEL	DC - 26.5 GHz.
2830-0081-6219	.021/.017	.405	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, thread-in

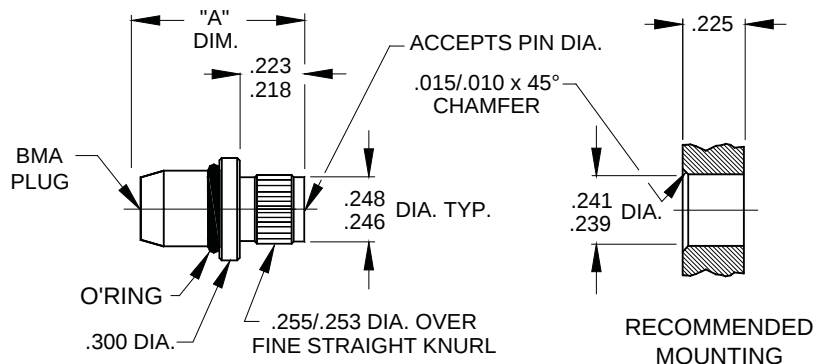


PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6730-0081-6215	.016/.011	.421	STAINLESS STEEL	DC - 26.5 GHz.
6730-0081-6220	.021-.017	.421	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

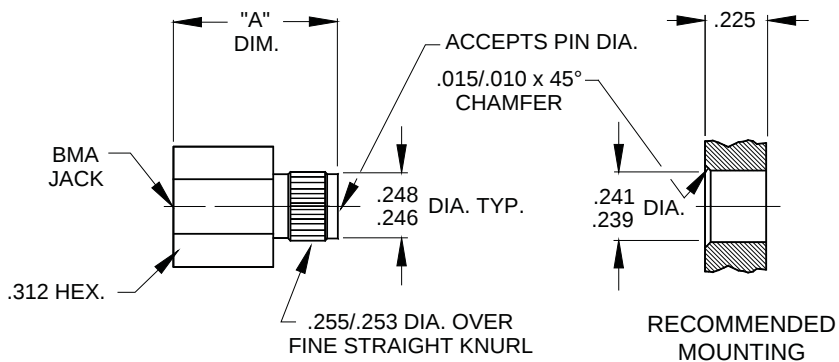
bma • field replaceable connectors

male, plug, press-in



PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2840-0081-6215	.016/.011	.460	STAINLESS STEEL	DC - 26.5 GHz.
2840-0081-6220	.021-.017	.460	STAINLESS STEEL	DC - 26.5 GHz.
2840-0081-6236	.037/.035	.460	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, press-in

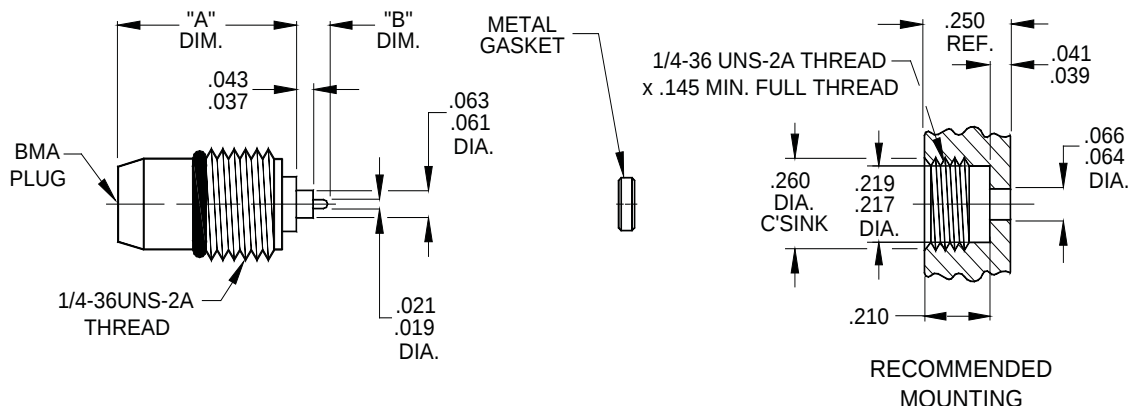


PART NUMBER	ACCEPTS PIN DIA	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6740-0081-6215	.016/.011	.530	STAINLESS STEEL	DC - 26.5 GHz.
6740-0081-6220	.021-.017	.530	STAINLESS STEEL	DC - 26.5 GHz.
6740-0081-6236	.037/.035	.530	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

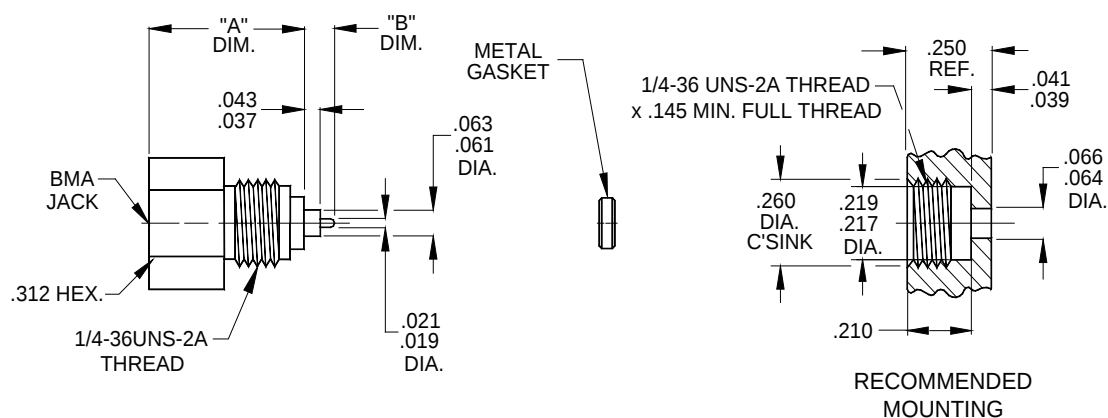
bma • hermetic connectors

male, plug, thread-in “sparkplug”



PART NUMBER	"A" DIM	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2830-0431-6422	.41	.058	STAINLESS STEEL	DC - 26.5 GHz.
2830-0431-6420	.41	.080	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, thread-in “sparkplug”

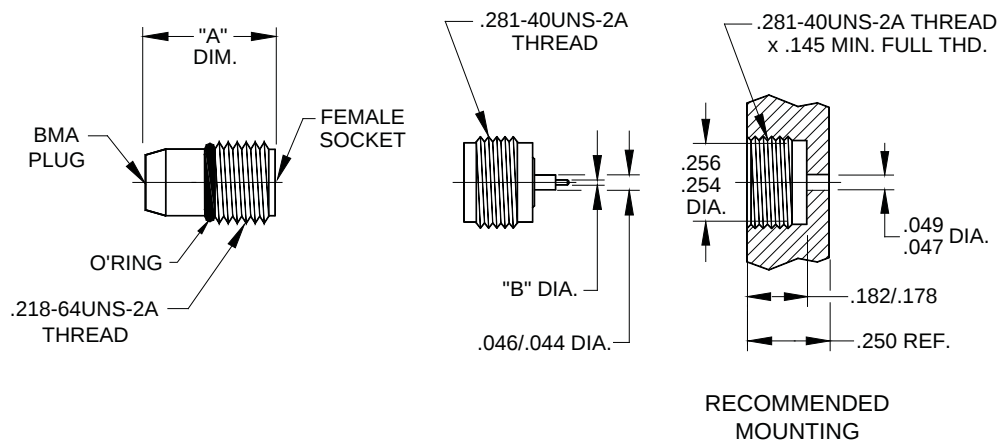


PART NUMBER	"A" DIM	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6730-0431-6422	.450	.058	STAINLESS STEEL	DC - 26.5 GHz.
6730-0431-6420	.450	.080	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

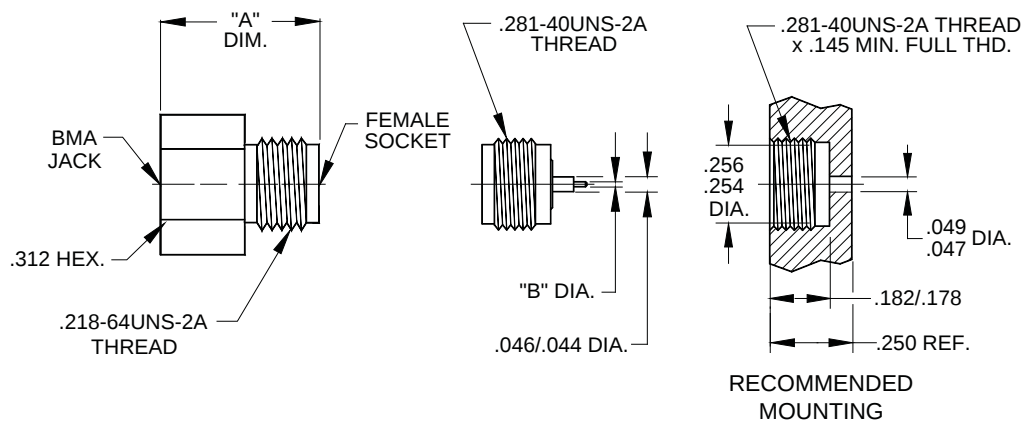
bma • hermetic connectors

male, plug, thread-in, knife edge, field replaceable, “sparkplug”



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2833-0431-6416	.360	.015	STAINLESS STEEL	DC - 26.5 GHz..

female, jack, thread-in, knife edge, field replaceable, “sparkplug”

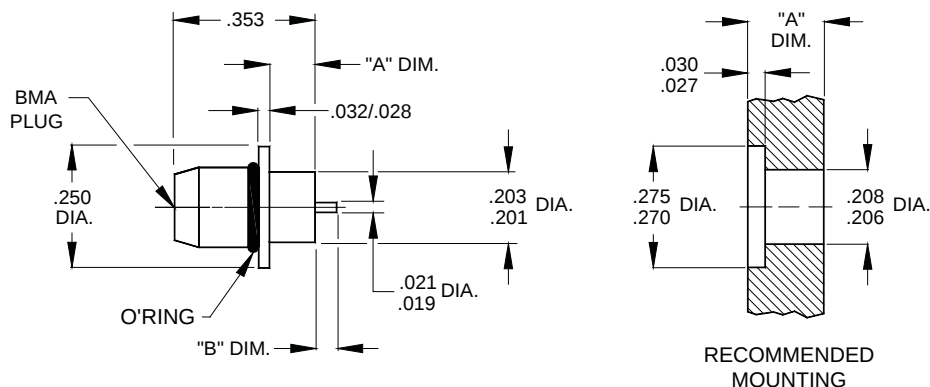


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6733-0431-6416	.375	.015	STAINLESS STEEL	DC - 26.5 GHz..

Specifications are subject to change without notice

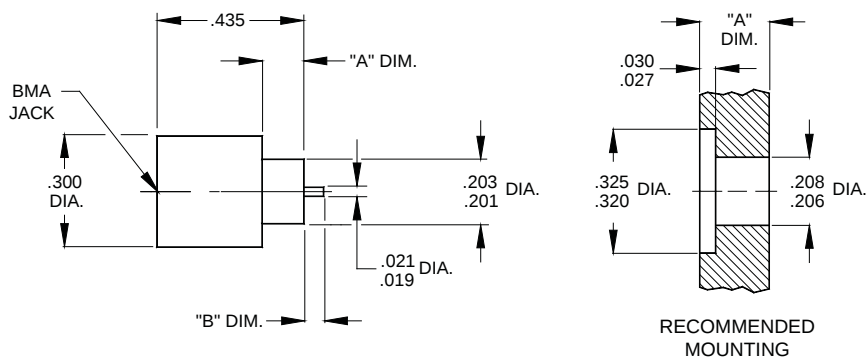
bma • hermetic connectors

male, plug, solder-in



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2840-0431-6420	.155/.151	.050	STAINLESS STEEL	DC - 26.5 GHz.
2840-0431-6421	.186/.182	.100	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, solder-in

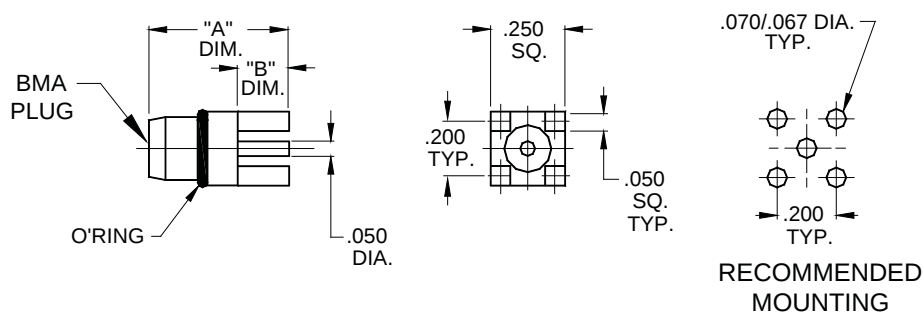


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6740-0431-6420	.155/.151	.050	STAINLESS STEEL	DC - 26.5 GHz.
6740-0431-6421	.186/.182	.100	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

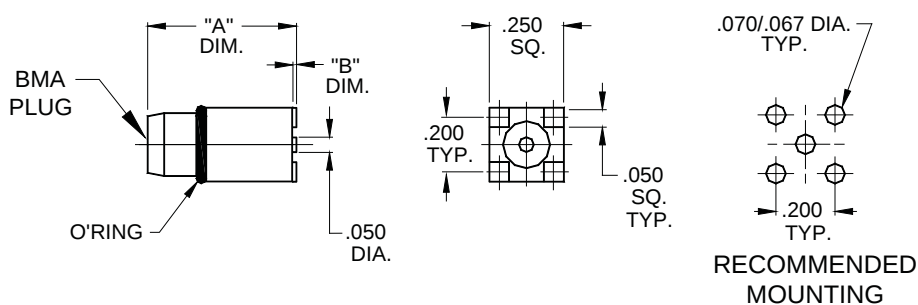
bma • printed circuit board mount

male, plug, straight, 4 post, thru hole mount



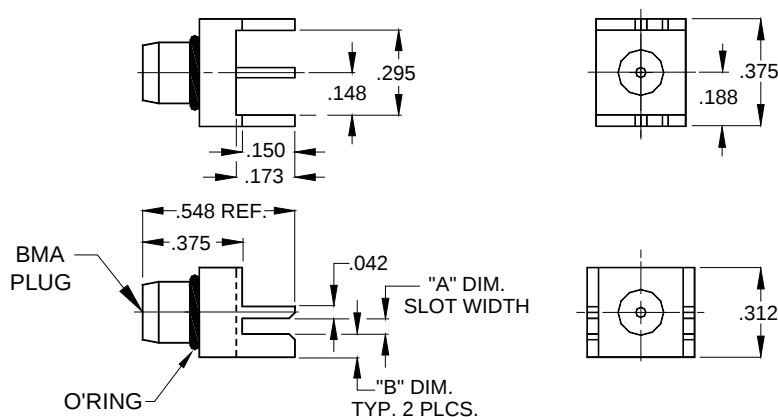
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2820-0031-2135	.530	.155	BRASS	DC - 6.0 GHz.
2820-0031-6435	.530	.155	STAINLESS STEEL	DC - 6.0 GHz.

male, plug, straight, surface mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2820-0031-2140	.720	.020	BRASS	DC - 12.0 GHz.
2820-0031-6440	.720	.020	STAINLESS STEEL	DC - 12.0 GHz.

male, plug, straight, edge mount

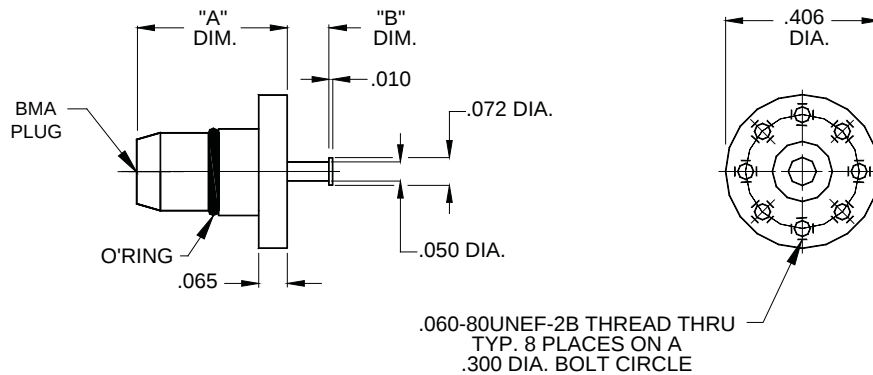


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2820-0031-2724	.068	.067	BRASS	DC - 4.0 GHz.
2820-0031-6424	.068	.067	STAINLESS STEEL	DC - 4.0 GHz.

Specifications are subject to change without notice

bma • printed circuit board mount

male, plug, surface mount, non-captured contact



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2880-0031-2720	.322	.062	BRASS	DC - 26.5 GHz.
2880-0031-6220	.322	.062	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-2722	.322	.125	BRASS	DC - 26.5 GHz.
2880-0031-6222	.322	.125	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-2731	.390	.031	BRASS	DC - 26.5 GHz.
2880-0031-6231	.390	.031	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-2763	.390	.062	BRASS	DC - 26.5 GHz.
2880-0031-6263	.390	.062	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-2725	.390	.125	BRASS	DC - 26.5 GHz.
2880-0031-6225	.390	.125	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-2756	.390	.156	BRASS	DC - 26.5 GHz.
2880-0031-6256	.390	.156	STAINLESS STEEL	DC - 26.5 GHz.
2880-0031-6224	.391	.236	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice



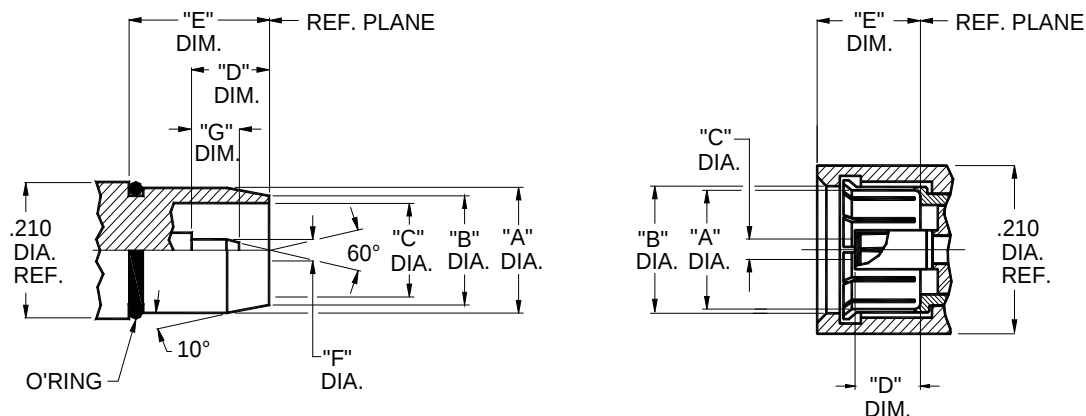
bmam



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INCORPORATED

bmam • interface dimensions



male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.139	3.53	.141	3.58
B	-----	-----	.120	3.05
C	-----	-----	.110	4.15
D	.128	3.25	.300	2.79
E	.199	5.05	-----	-----
F	.198	5.03	-----	-----
G	.019	0.48	.021	0.53
H	-----	-----	.100	2.54
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	-----	-----	.132	3.35
B	.154	3.91	-----	-----
C	SEE NOTE 1		SEE NOTE 1	
D	-----	-----	.127	3.23
E	-----	-----	.197	5.00
F	-----	-----	-----	-----
G	-----	-----	-----	-----
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .021 / .019 Dia. inches (0.53 / 0.48) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

bmam specifications

The specifications below are general specifications for all BMAM connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

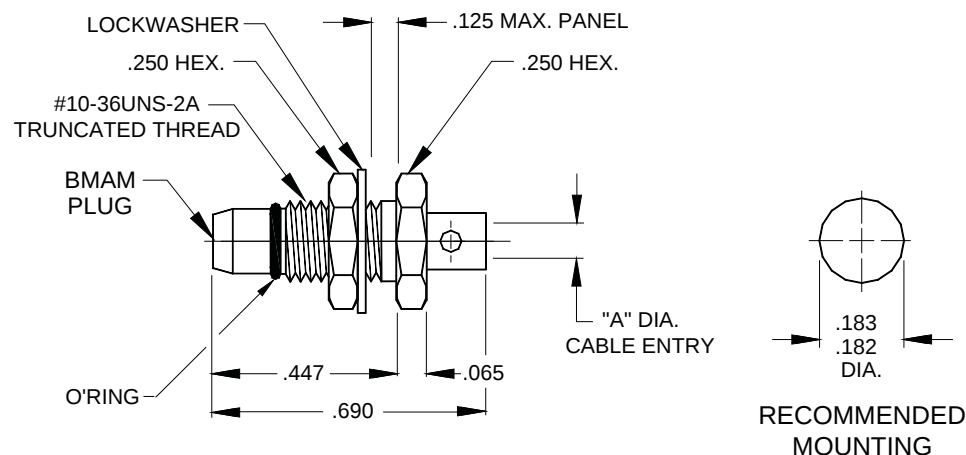
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM-A-581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Class 1, grade B. Nitrile, (Buna-N) per MIL-P-25732
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 675 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 500 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 3.0 milliohms and the outer contact resistance drop shall not exceed 1.5 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The Engagement Force is 3.0 Lbs. maximum. The Disengagement Force is 1.5 Lbs. maximum.
Coupling Nut Retention Force and Proof Torque.		Not applicable .
Cable Retention force	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending requirements shall not apply.
Mating Characteristics	3.7	See interface dimensions shown on Page 144. Applicable to Females only: over size pin .0202 minimum diameter .045 deep; Insertion force 3 pounds maximum with .0205 minimum diameter pin; withdrawal force 1 ounce minimum with .0190 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be + 200°C.
Recommended Mating Torque		Not applicable.
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 250 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

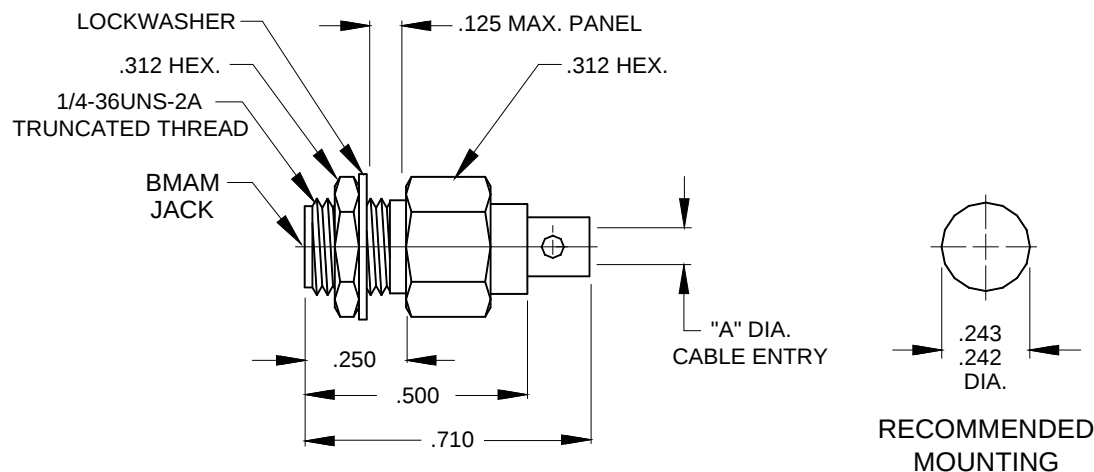
bmam • semi rigid cable connectors

male, plug, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2610-4721-6450	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
2610-8521-6450	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, bulkhead mount

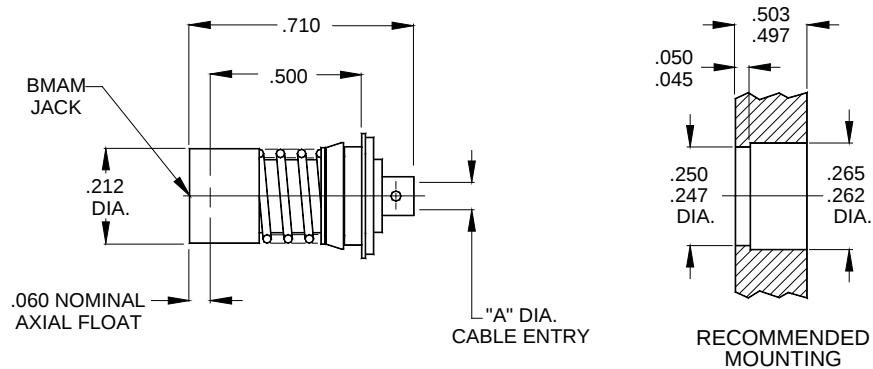


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6510-4721-6450	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 26.5 GHz.
6510-8521-6450	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

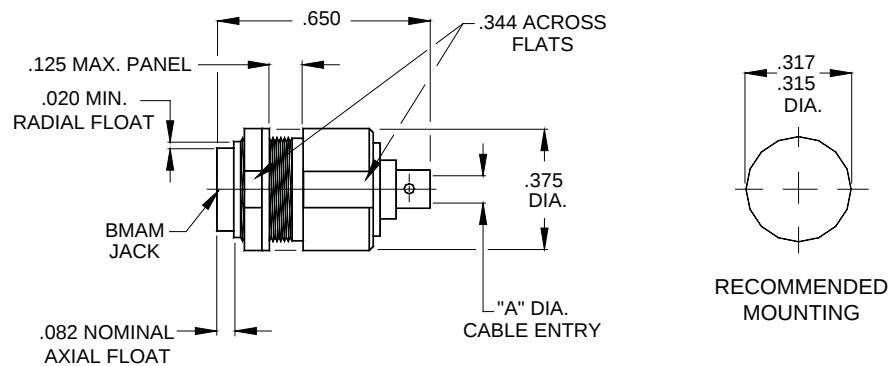
bmam • semi rigid cable connectors

female, jack, bulkhead, straight, float mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6560-4721-6441	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 38.0 GHz.
6560-8521-6441	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 38.0 GHz.

female, jack, bulkhead, straight, float mount

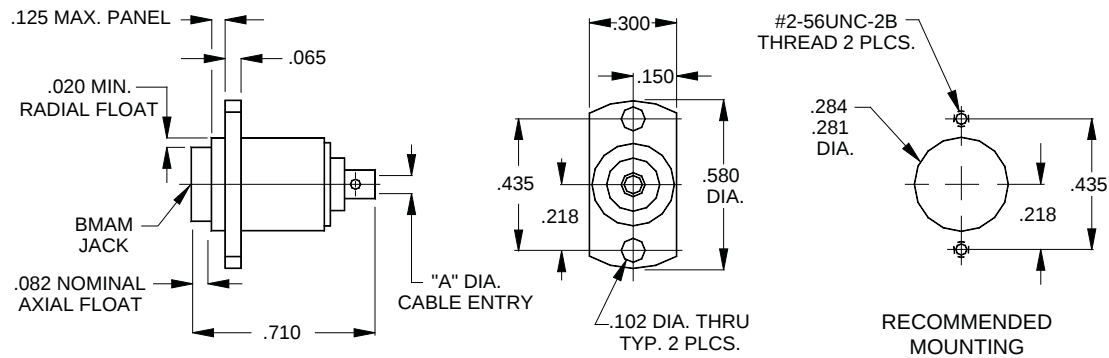


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6560-4721-6221	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 38.0 GHz.
6560-8521-6221	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

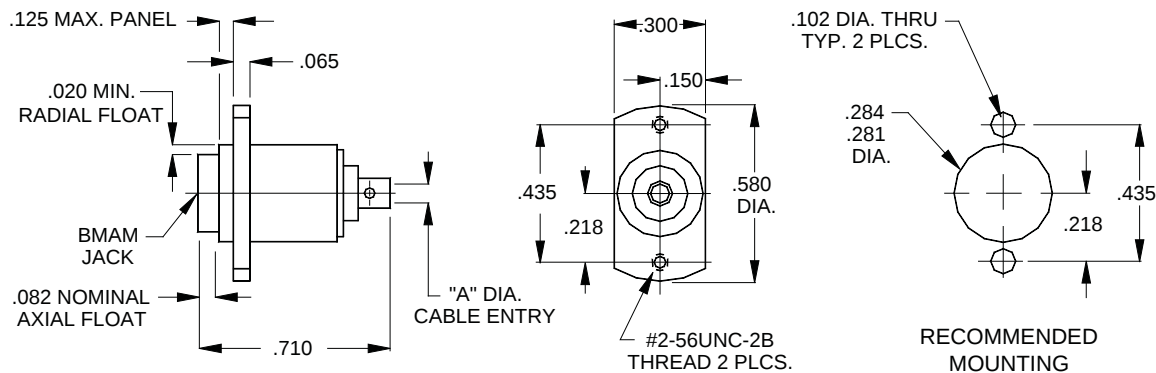
bmam • semi rigid cable connectors

female, jack, 2 hole flange, float mount, threaded panel



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6562-4721-6266	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 38.0 GHz.
6562-8521-6266	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 38.0 GHz.

female, jack, 2 hole flange, float mount, threaded flange

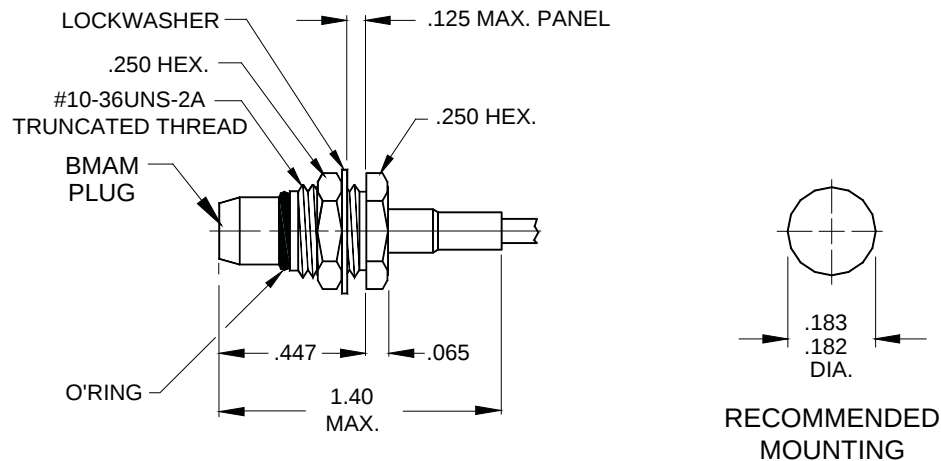


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6562-4721-6267	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 38.0 GHz.
6562-8521-6267	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

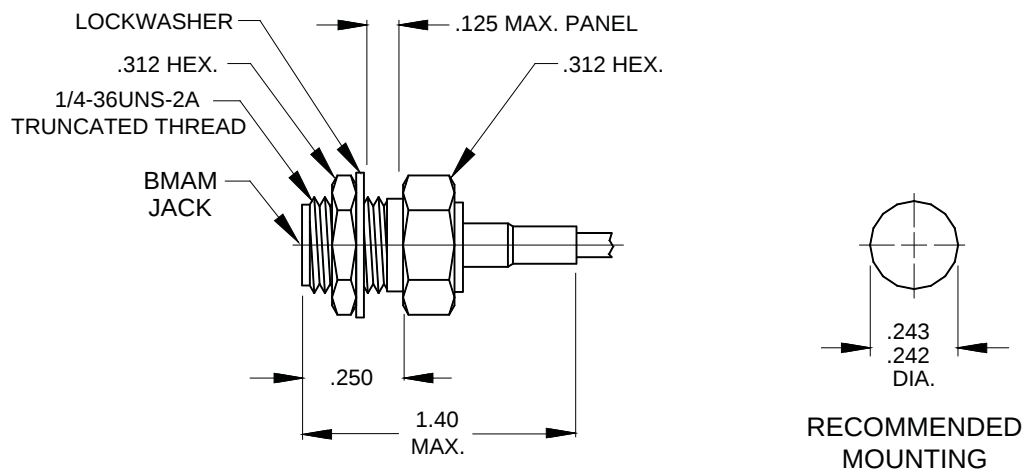
bmam • flexible cable connectors

male, plug, bulkhead mount, crimp attachment



PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2610-1630-6200	RG 174/U, 179, 187, 188, 316	STAINLESS STEEL	DC - 3.0 GHz.
2610-1830-6200	RG 316 DOUBLE BRAID	STAINLESS STEEL	DC - 12.4 GHz.
2610-4230-6200	RG 58/U, 142, 223, 400	STAINLESS STEEL	DC - 12.4 GHz.

female, jack, bulkhead mount, crimp attachment

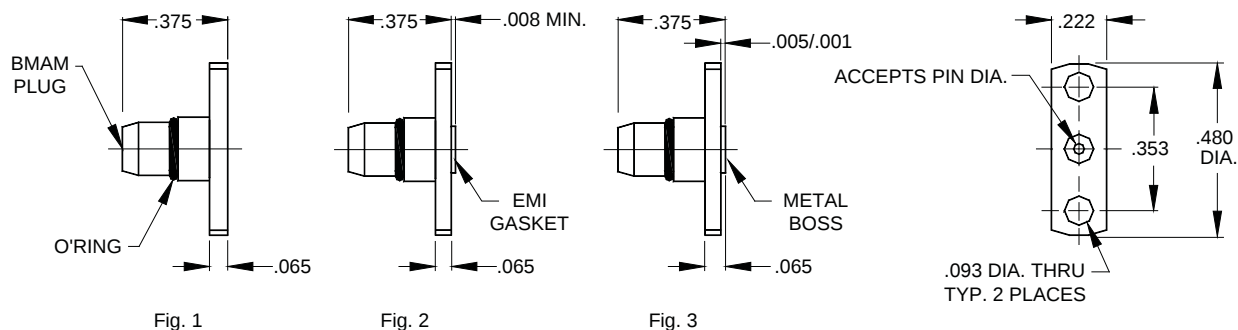


PART NUMBER	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
6510-1630-6200	RG 174/U, 179, 187, 188, 316	STAINLESS STEEL	DC - 3.0 GHz.
6510-1830-6200	RG 316 DOUBLE BRAID	STAINLESS STEEL	DC - 12.4 GHz.
6510-4230-6200	RG 58/U, 142, 223, 400	STAINLESS STEEL	DC - 12.4 GHz.

Specifications are subject to change without notice

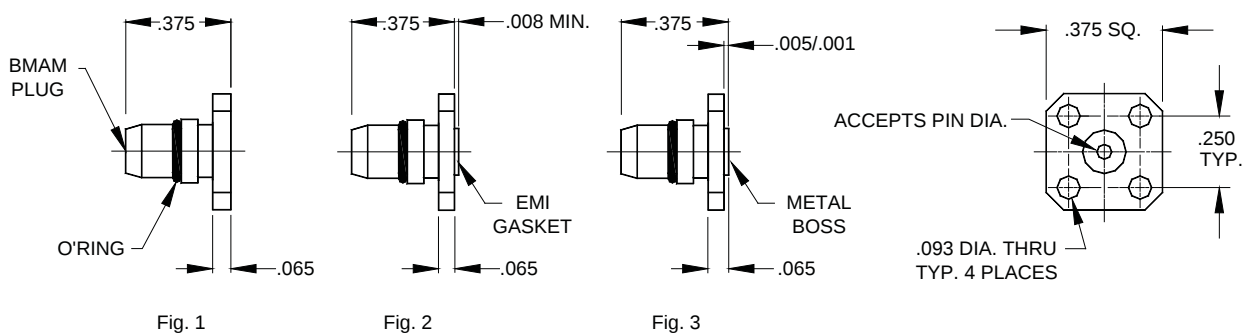
bmam • field replaceable connectors

male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2652-0081-6213	1	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2652-0781-6213	2	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2652-0881-6212	3	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2652-0081-6223	1	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
2652-0781-6223	2	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
2652-0881-6222	3	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.

male, plug, 4 hole flange mount

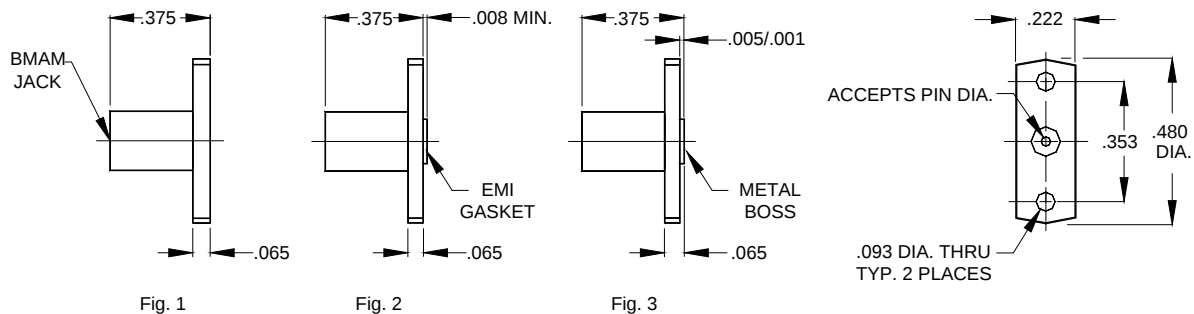


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
2654-0081-6217	1	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2654-0781-6217	2	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2654-0881-6217	3	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
2654-0081-6227	1	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
2654-0781-6227	2	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
2654-0881-6227	3	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

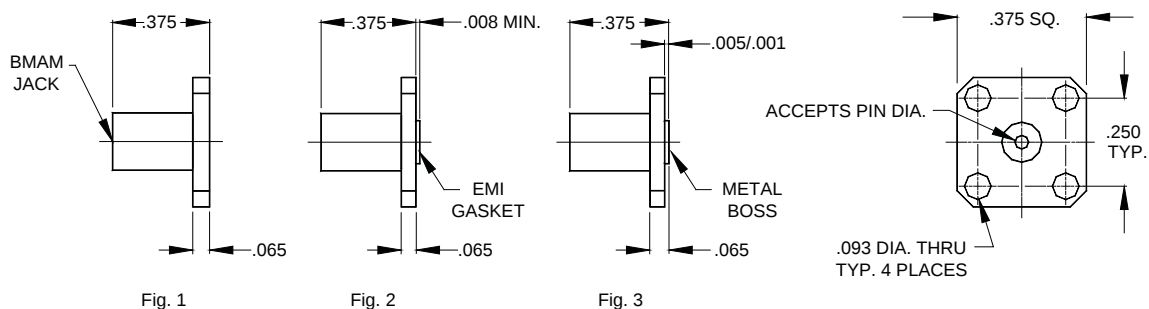
bmam • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
6552-0081-6215	1	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6552-0781-6215	2	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6552-0881-6215	3	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6552-0081-6220	1	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
6552-0781-6220	2	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
6552-0881-6220	3	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.

female, jack, 4 hole flange mount

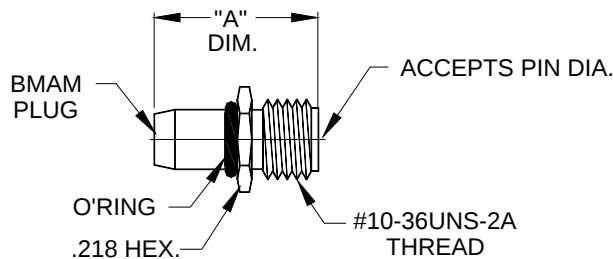


PART NUMBER	Fig.	ACCEPTS PIN DIA	MATERIAL TYPE	FREQUENCY RANGE
6554-0081-6217	1	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6554-0781-6217	2	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6554-0881-6217	3	.016/.011	STAINLESS STEEL	DC - 38.0 GHz.
6554-0081-6227	1	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
6554-0781-6227	2	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.
6554-0881-6227	3	.021/.017	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

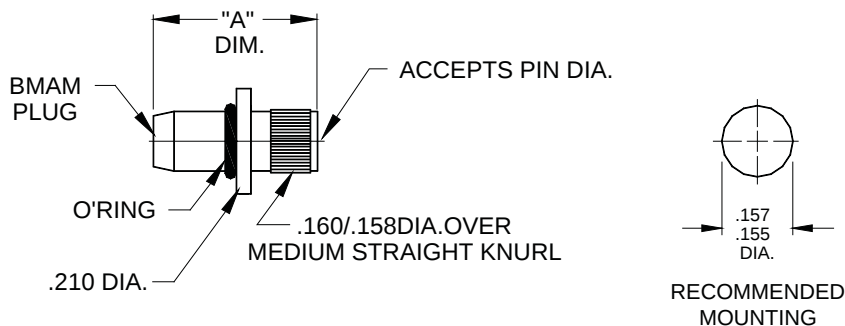
bmam • field replaceable connectors

male, plug, thread-in



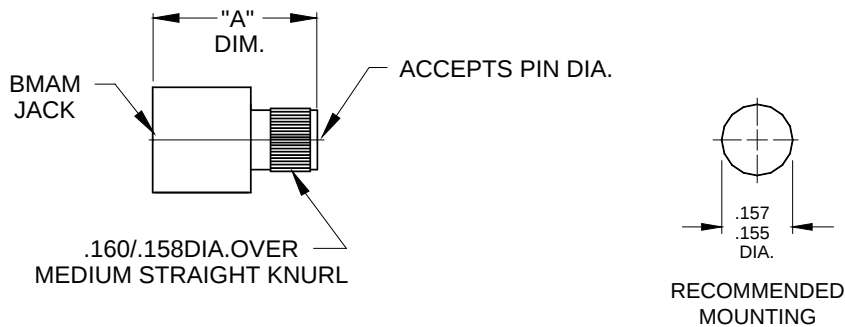
PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2630-0081-6211	.016/.011	.379	STAINLESS STEEL	DC - 38.0 GHz.
2630-0081-6214	.021/.017	.379	STAINLESS STEEL	DC - 38.0 GHz.

male, plug, press-in



PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2640-0081-6215	.016/.011	.450	STAINLESS STEEL	DC - 38.0 GHz.
2640-0081-6244	.021/.017	.450	STAINLESS STEEL	DC - 38.0 GHz.

female, jack, press-in

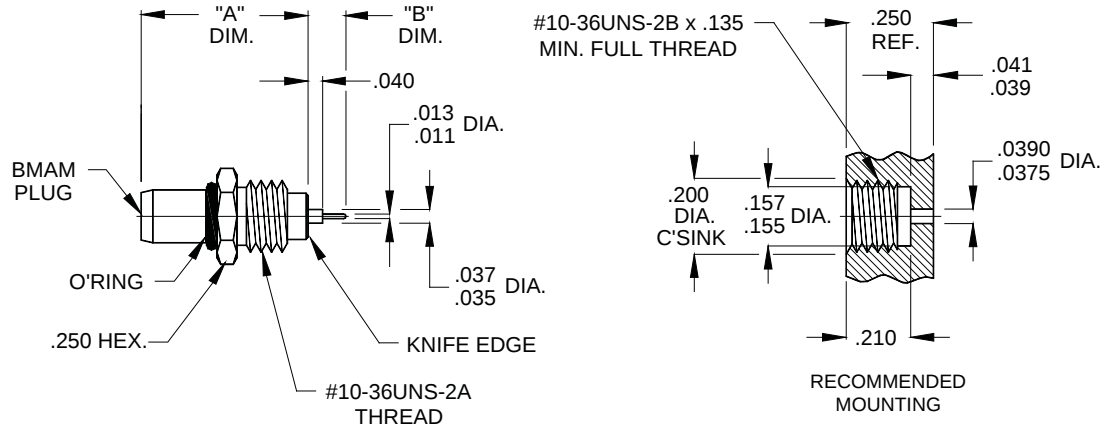


PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6540-0081-6215	.016/.011	.450	STAINLESS STEEL	DC - 38.0 GHz.
6540-0081-6220	.021/.017	.450	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

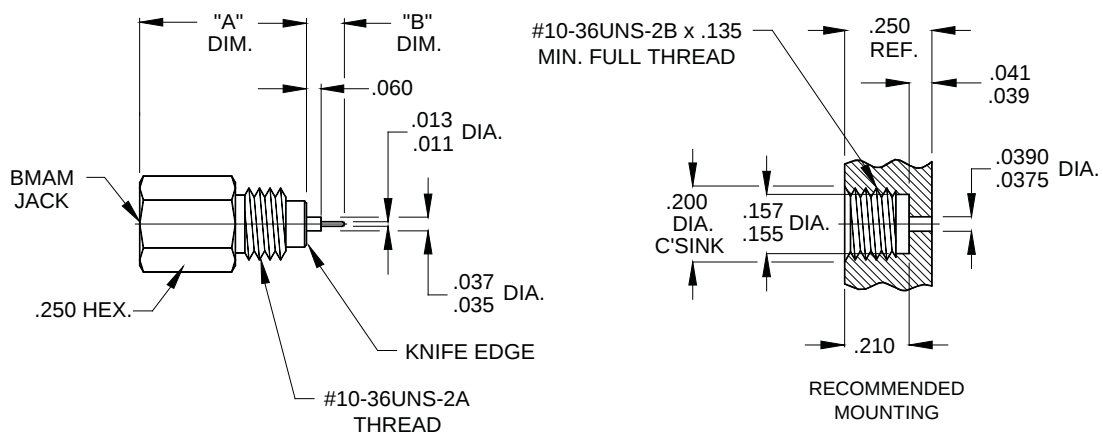
bmam • hermetic connectors

male, plug, thread-in “sparkplug”



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2630-0431-6400	.475	.080	STAINLESS STEEL	DC - 38.0 GHz.
2630-0431-6401	.440	.100	STAINLESS STEEL	DC - 38.0 GHz.

female, jack, thread-in “sparkplug”

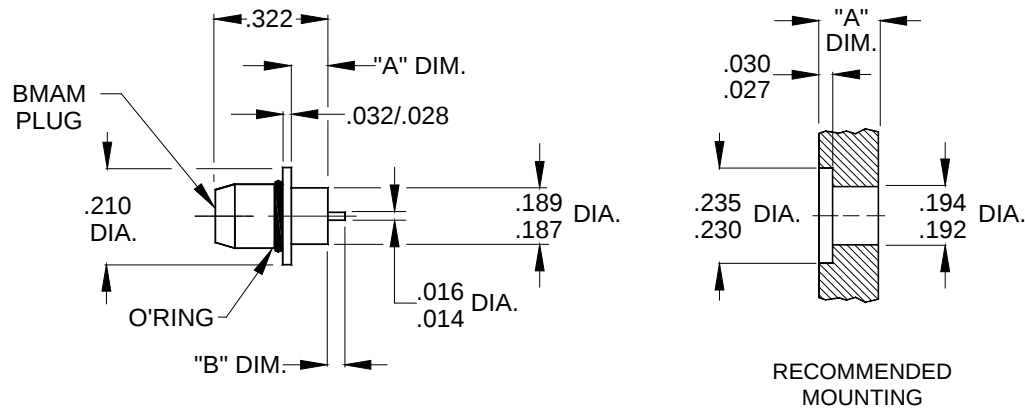


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6530-0431-6460	.455	.100	STAINLESS STEEL	DC - 38.0 GHz..

Specifications are subject to change without notice

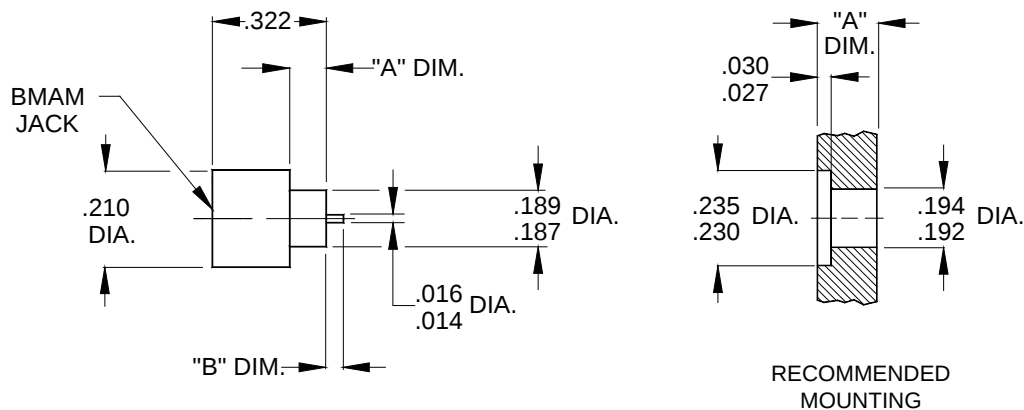
bmam • hermetic connectors

male, plug, solder-in



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2640-0431-6420	.072/.068	.040	STAINLESS STEEL	DC - 26.5 GHz.
2640-0431-6421	.072/.068	.200	STAINLESS STEEL	DC - 26.5 GHz.

female, jack, solder-in



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
6540-0431-6420	.072/.068	.040	STAINLESS STEEL	DC - 26.5 GHz.
6540-0431-6421	.072/.068	.200	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice



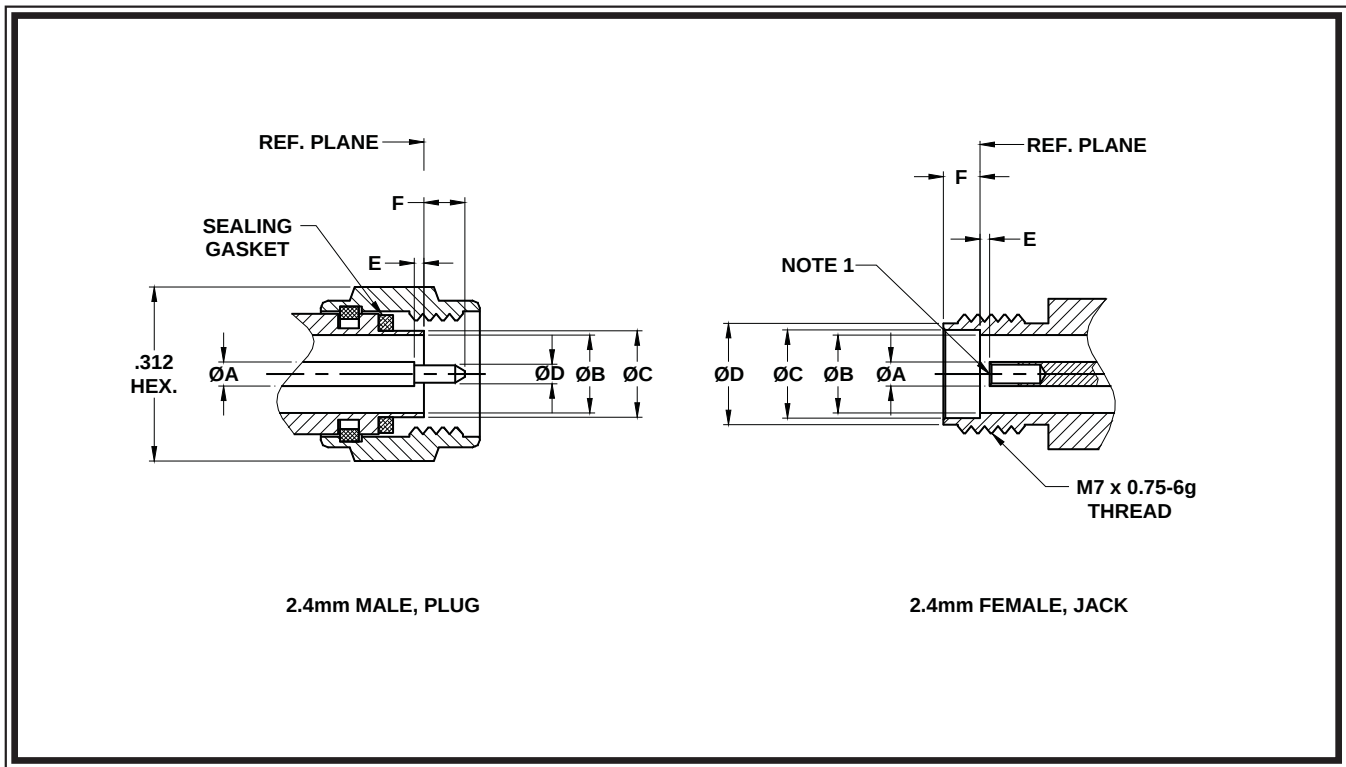
2.4mm



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INCORPORATED

2.4mm • interface dimensions



male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.0405	1.03	.0415	1.05
B	.094	2.39	.095	2.41
C	.1865	4.74	.1875	4.76
D	.0195	0.50	.0205	0.52
E*	.000	0.00	.004	0.10
F	.052	1.32	.058	1.47
G	-----	-----	-----	-----
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.0405	1.03	.0415	1.05
B	.094	2.39	.095	2.41
C	.1880	4.78	.1886	4.79
D	.229	5.82	.232	5.89
E*	.000	0.00	.004	0.10
F	.119	3.02	.121	3.07
G	-----	-----	-----	-----
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

* Center Contact Gap measured from connector body reference plane .000 inches maximum above (flush) to .004 maximum below.

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0205 / .0195 Dia. inches (0.52 / 0.50) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

2.4mm specifications

The specifications below are general specifications for all 2.4mm connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

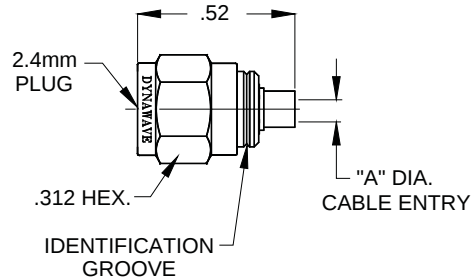
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of IEEE-287.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM- A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Class 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 500 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 350 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 3.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage pounds.	3.5.1	The torque required to engage and disengage shall not exceed 2 inch- The longitudinal force is not applicable
Coupling Nut Retention Force	3.25	Not applicable for Female connectors. For Male connectors, the retension force is and Proof Torque. 60 pounds minimum. The Proof torque is 15 inch-pounds minimum.
Cable Retention force	3.24	The force applied shall be 30 pounds minimum. The cable twisting and bending requirements shall not apply.
Mating Characteristics	3.7	See interface dimensions shown on Page 156. Applicable to Females only: oversize pin .0202 minimum diameter .045 deep; Insertion force 1.5 pounds maximum with .0205 minimum diameter pin; withdrawal force 1 ounce minimum with .0192 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be + 200°C.
Recommended Mating Torque		2.0 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 150 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

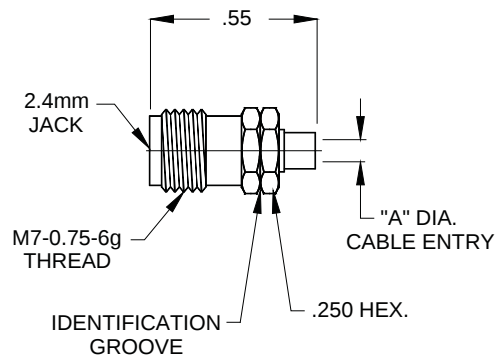
2.4mm • semi rigid cable connectors

male, plug, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1200-4725-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 50.0 GHz.
1200-8525-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 50.0 GHz.

female, jack, straight

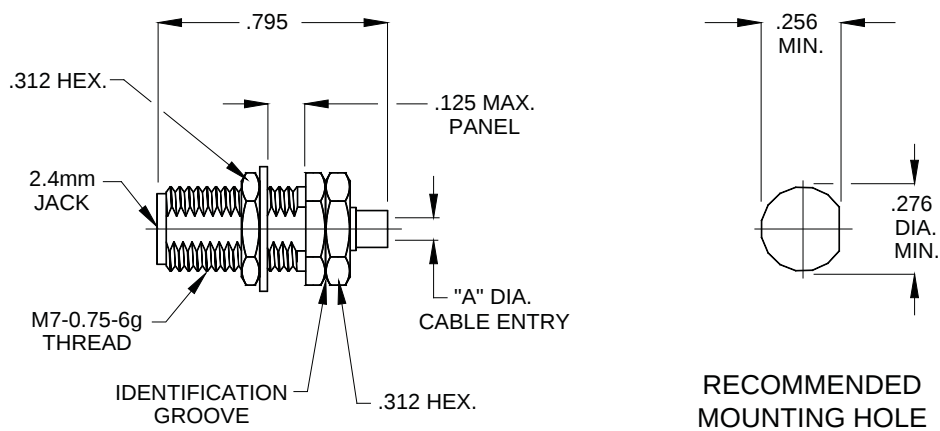


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1300-4725-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 50.0 GHz.
1300-8525-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 50.0 GHz.

Specifications are subject to change without notice

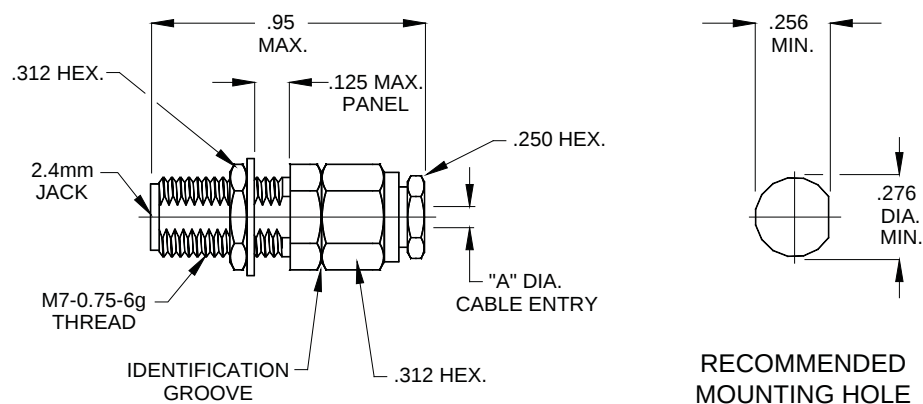
2.4mm • semi rigid cable connectors

female, jack, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1310-4725-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 50.0 GHz.
1310-8525-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 50.0 GHz.

female, jack, solder clamp, bulkhead mount

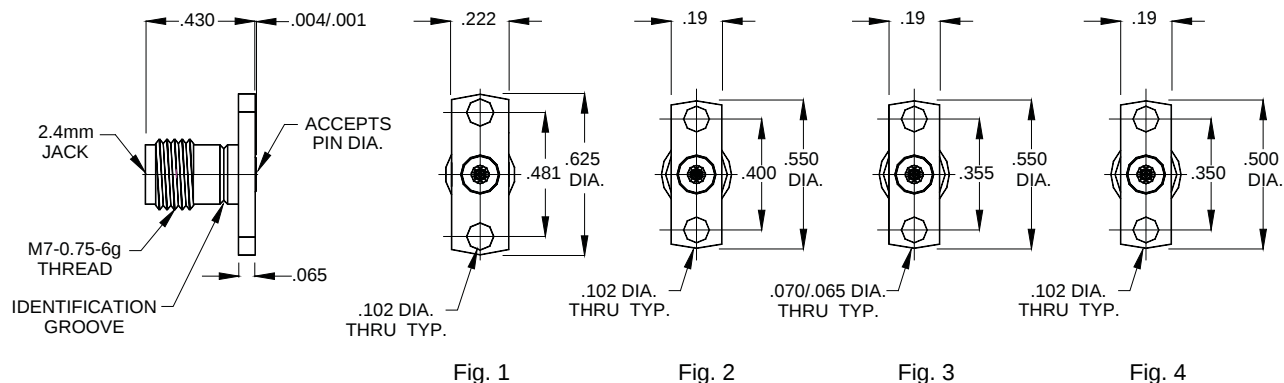


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1310-4745-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 50.0 GHz.
1310-8545-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 50.0 GHz.

Specifications are subject to change without notice

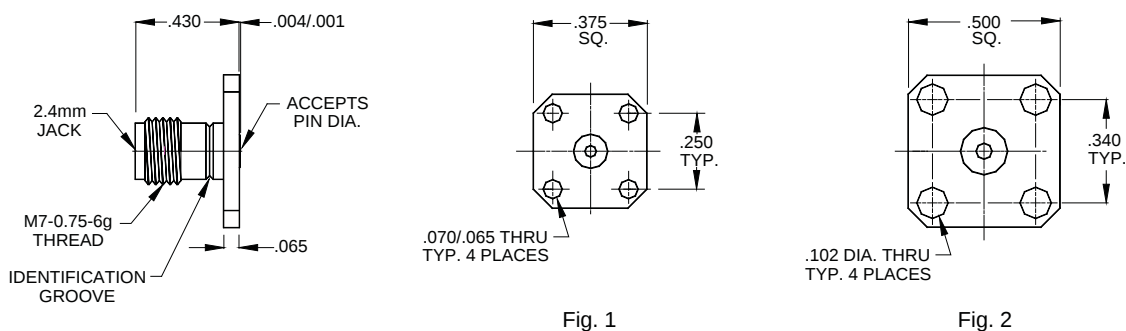
2.4mm • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
1352-0085-6200	1	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1352-0085-6204	2	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1352-0085-6202	3	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1352-0085-6206	4	.013/.017	STAINLESS STEEL	DC - 50.0 GHz.
1352-0085-6209	4	.010/.009	STAINLESS STEEL	DC - 50.0 GHz.

female, jack, 4 hole flange mount

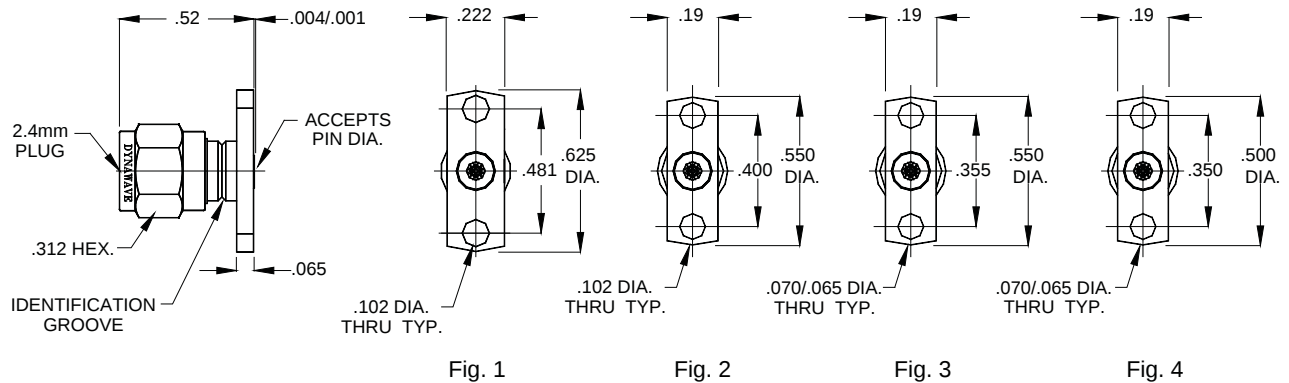


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
1354-0085-6202	1	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1354-0085-6203	2	.013/.011	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

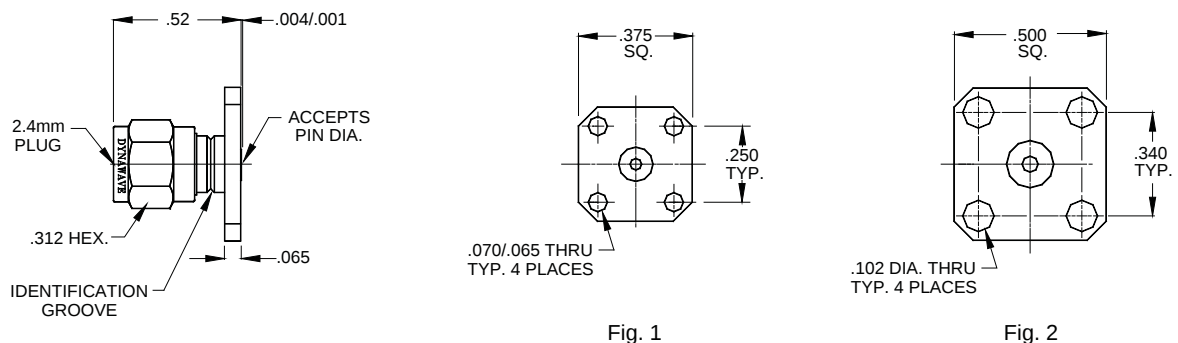
2.4mm • field replaceable connectors

male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
1252-0085-6200	1	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1252-0085-6201	2	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1252-0085-6202	3	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1252-0085-6204	4	.013/.017	STAINLESS STEEL	DC - 50.0 GHz.
1252-0085-6209	4	.010/.009	STAINLESS STEEL	DC - 50.0 GHz.

male, plug, 4 hole flange mount

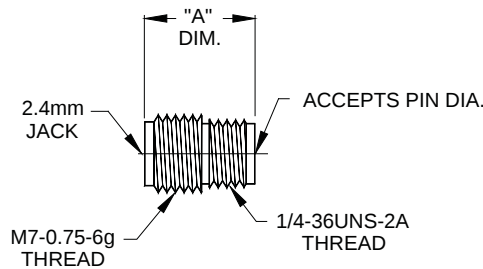


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
1254-0085-6200	1	.013/.011	STAINLESS STEEL	DC - 50.0 GHz.
1254-0085-6201	2	.013/.011	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

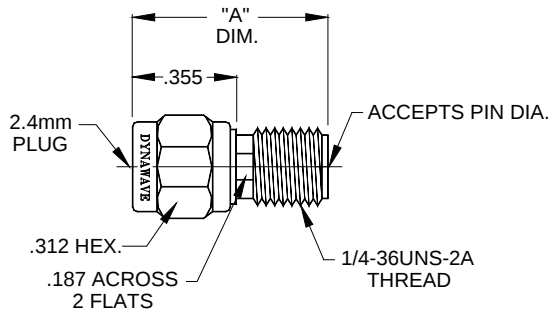
2.4mm • field replaceable connectors

female, jack, thread-in



PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1330-0081-6209	.010/.008	.430	STAINLESS STEEL	DC - 50.0 GHz.
1330-0081-6212	.013/.011	.430	STAINLESS STEEL	DC - 50.0 GHz..

male, plug, thread-in

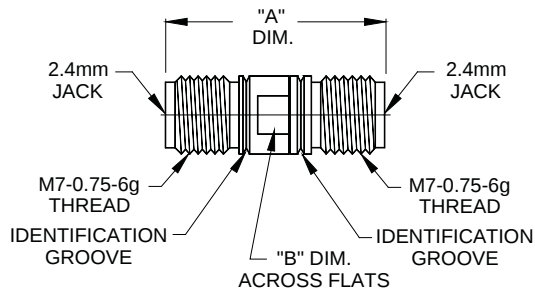


PART NUMBER	ACCEPTS PIN DIA.	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1230-0081-6209	.010/.008	.660	STAINLESS STEEL	DC - 50.0 GHz.
1230-0081-6212	.013/.011	.660	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

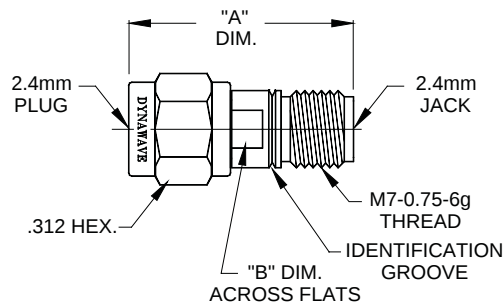
2.4mm • in-series adapters

female, jack to female, jack, straight



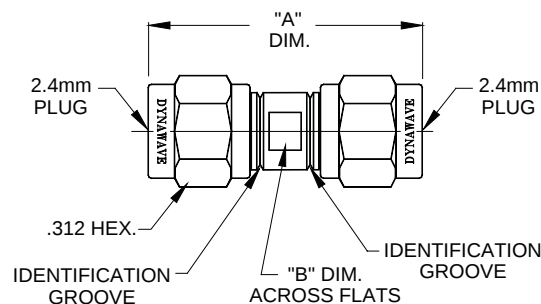
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-1313-6200	.798	.250	STAINLESS STEEL	DC - 50.0 GHz..

male, plug to female, jack, straight



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-1213-6200	.808	.250	STAINLESS STEEL	DC - 50.0 GHz..

male, plug to male, plug, straight

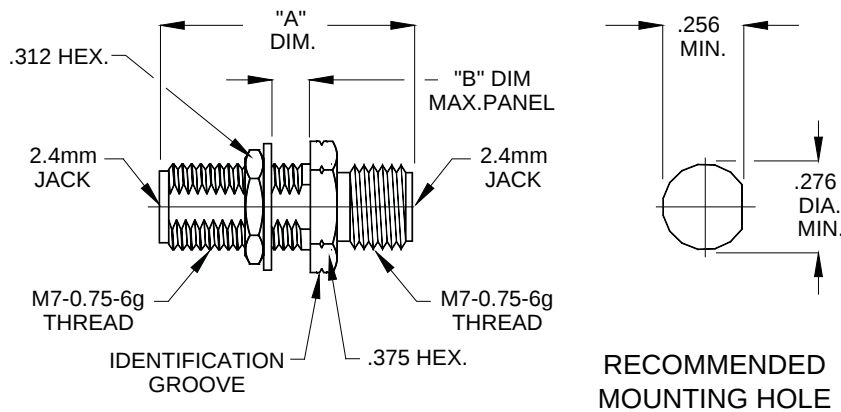


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-1212-6200	.818	.218	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

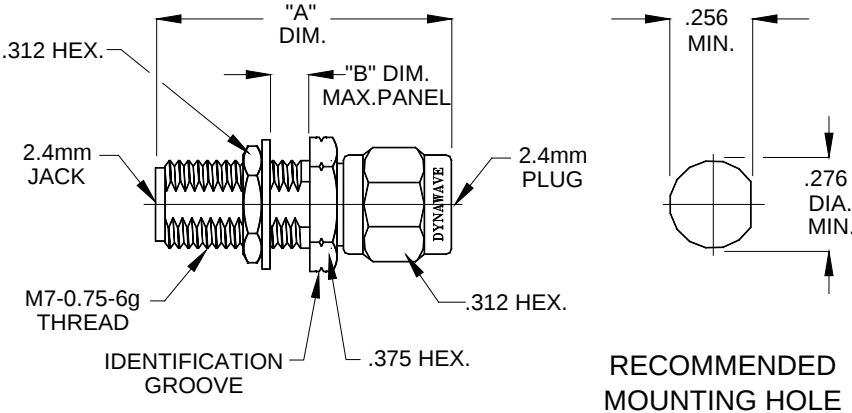
2.4mm • in-series adapters

female, jack to female, jack, bulkhead mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-1313-6240	.795	.150	STAINLESS STEEL	DC - 50.0 GHz..

male, plug to female, jack, bulkhead mount

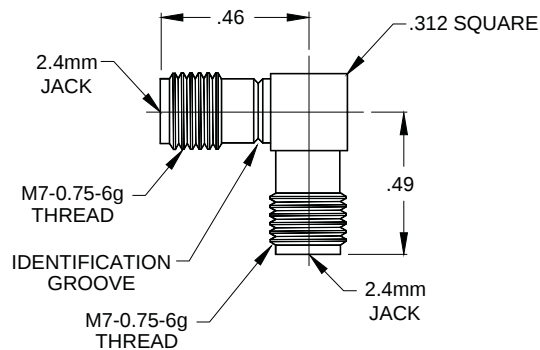


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-1213-6200	.895	.150	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

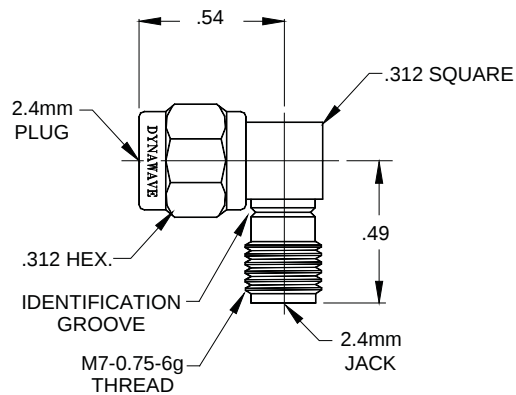
2.4mm • in-series right angle adapters

female, jack to female, jack, right angle



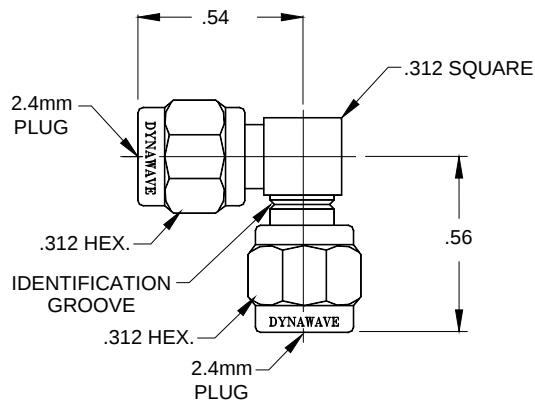
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-1313-6200	STAINLESS STEEL	DC - 50.0 GHz..

female, jack to male, plug, right angle



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-1213-6200	STAINLESS STEEL	DC - 50.0 GHz..

male, plug to male, plug, right angle



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-1212-6200	STAINLESS STEEL	DC - 50.0 GHz..

Specifications are subject to change without notice

Notes



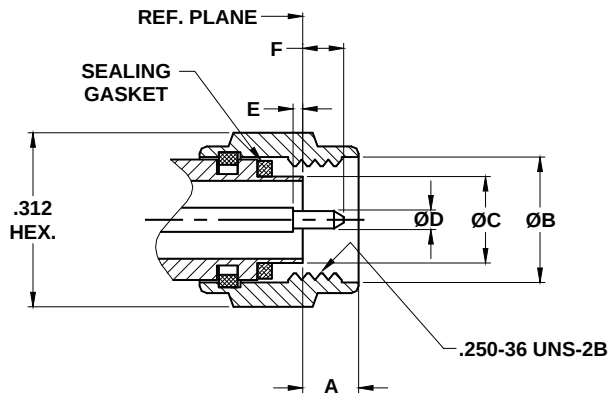
2.92mm



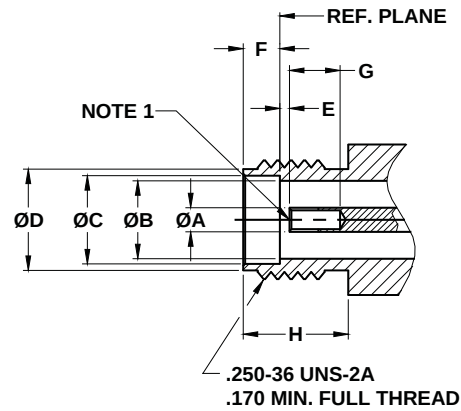
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INCORPORATED

2.92mm • interface dimensions



2.92mm MALE, PLUG
Mil-Std-348A
Fig. 323.1



2.92mm FEMALE, JACK
Mil-Std-348A
Fig. 323.2

male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	-----	-----	.135	3.43
B	.255	6.48	-----	-----
C	.178	4.52	.180	4.57
D	.0355	0.90	.0370	0.94
E*	.000	0.00	.005	0.13
F	.055	1.40	.065	1.65
G	-----	-----	-----	-----
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.0495	1.26	.0505	1.28
B	.114	2.90	.116	2.95
C	.181	4.60	.183	4.65
D	.206	5.23	.214	5.44
E*	.000	0.00	.005	0.13
F	.076	1.93	.078	1.98
G	.105	2.67	-----	-----
H	.218	5.53	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
---	-----	-----	-----	-----

* Center Contact Gap measured from connector body reference plane .000 inches maximum above (flush) to .005 maximum below.

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0370 / .0355 Dia. inches (0.94 / 0.90) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 in.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

Specifications are subject to change without notice

2.92mm specifications

The specifications below are general specifications for all 2.92mm connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

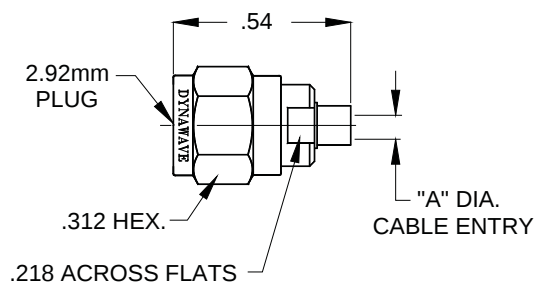
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of IEEE-287.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM- A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 500 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 350 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 3.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable
Coupling Nut Retention Force	3.25	Not applicable for Female connectors. For Male connectors, the retension force and Proof Torque.60 pounds minimum. The Proof torque is 15 inch-pounds minimum.
Cable Retention force requirements shall not apply.	3.24	The force applied shall be 30 pounds minimum. The cable twisting and bending
Mating Characteristics	3.7	See interface dimensions shown on Page 168. Applicable to Females only: oversize pin .0375 minimum diameter .065 deep; Insertion force 3.0 pounds maximum with .0370 minimum diameter pin; withdrqwal force 1 ounce minimum with .0355 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperture shall be + 200°C.
Recommended Mating Torque		2.0 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 150 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

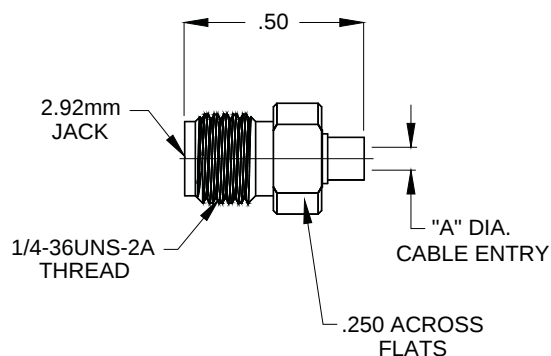
2.92mm • semi rigid cable connectors

male, plug, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9400-4725-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 40.0 GHz.
9400-8525-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 40.0 GHz.

female, jack, straight

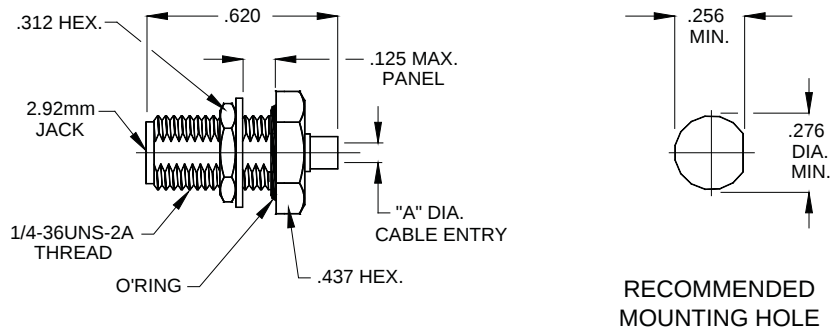


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9500-4725-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 40.0 GHz.
9500-8525-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

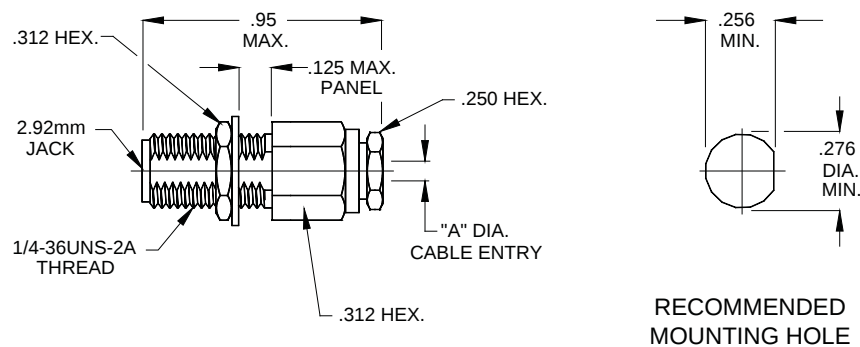
2.92mm • semi rigid cable connectors

female, jack, bulkhead mount



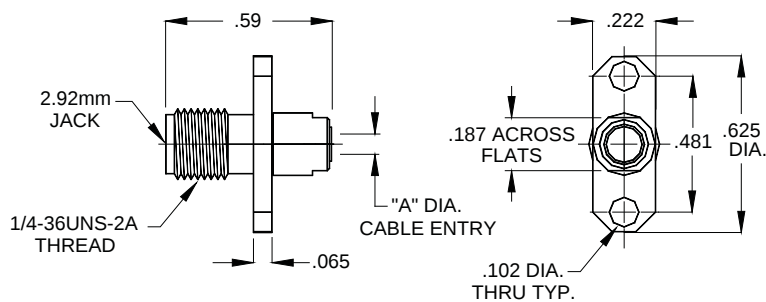
PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9510-4720-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 40.0 GHz.
9510-8520-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 40.0 GHz.

female, jack, solder clamp, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9510-4745-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 40.0 GHz.
9510-8545-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 40.0 GHz.

female, jack, solder clamp, 2 hole flange mount

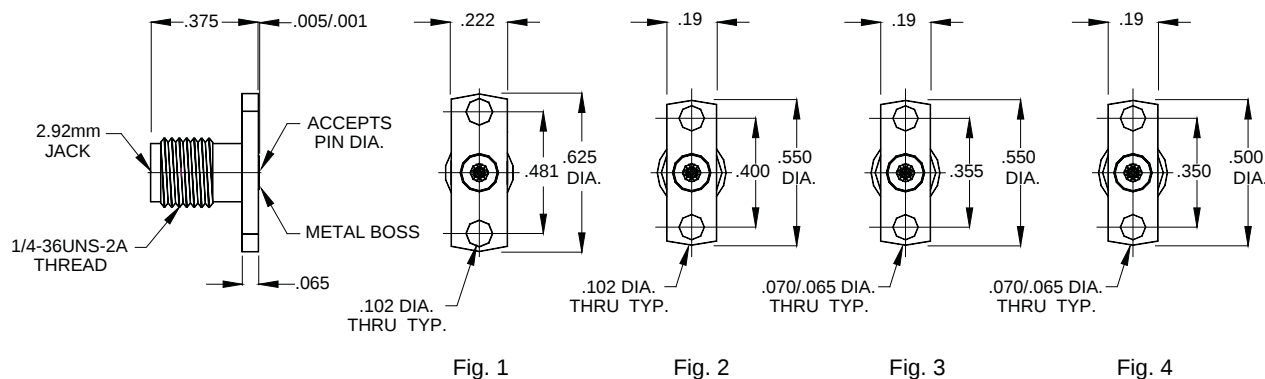


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
9552-4745-6200	.052 MIN.	.047 SEMI-RIGID	STAINLESS STEEL	DC - 40.0 GHz.
9552-8545-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

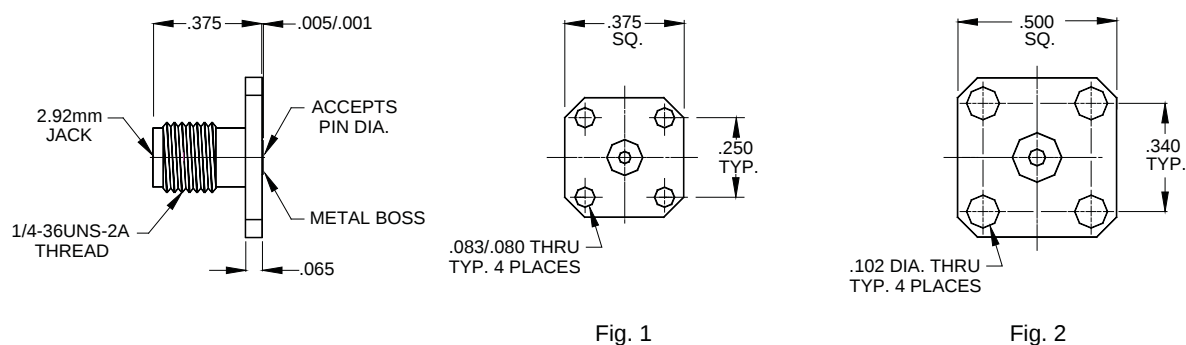
2.92mm • field replaceable connectors

female, jack, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
9552-0085-6200	1	.013/.011	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6208	1	.010/.008	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6214	2	.013/.011	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6224	2	.010/.009	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6213	3	.013/.011	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6223	3	.010/.009	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6227	4	.013/.011	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6217	1	.016/.014	STAINLESS STEEL	DC - 40.0 GHZ.
9552-0085-6220	1	.021/.019	STAINLESS STEEL	DC - 40.0 GHZ.

female, jack, 4 hole flange mount

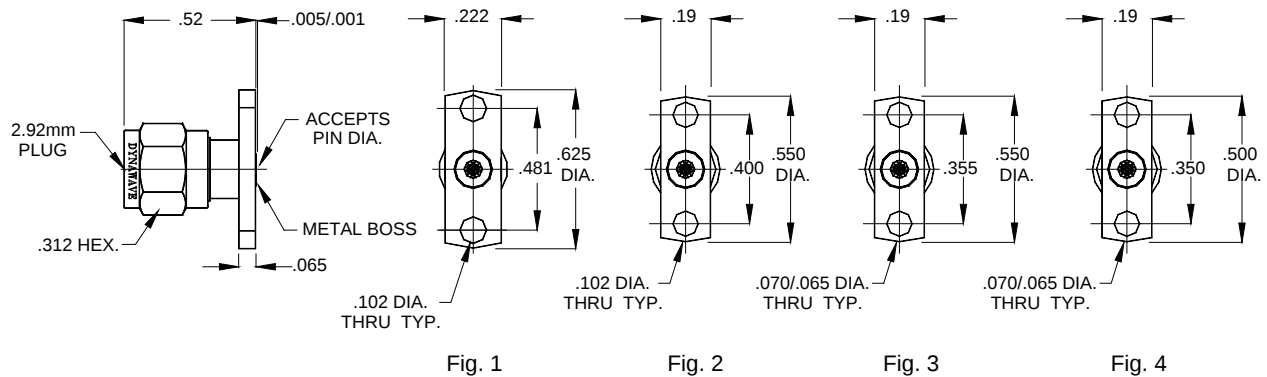


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
9554-0085-6204	1	.016/.014	STAINLESS STEEL	DC - 40.0 GHz.
9554-0085-6203	1	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9554-0085-6212	2	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9554-0085-6215	2	.016/.014	STAINLESS STEEL	DC - 40.0 GHz.
9554-0085-6220	3	.021/.019	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

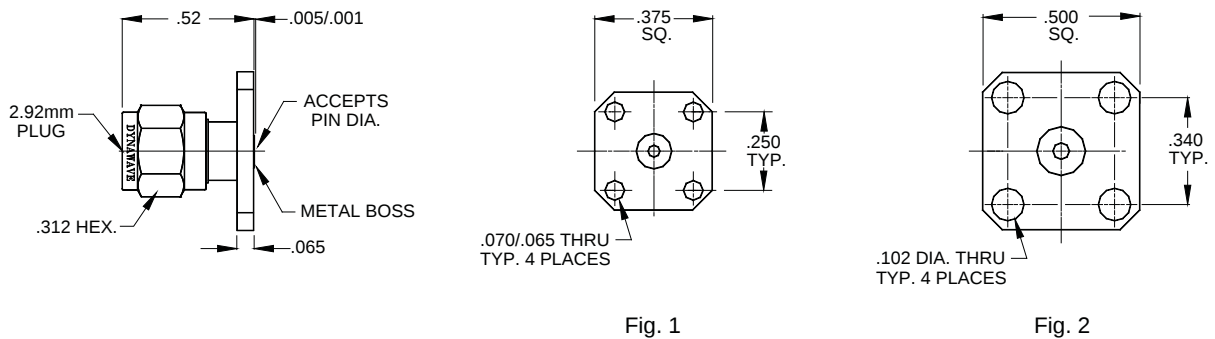
2.92mm • field replaceable connectors

male, plug, 2 hole flange mount



PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
9452-0085-6209	1	.011/.009	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6212	1	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6214	2	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6213	2	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6227	4	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6217	1	.016/.014	STAINLESS STEEL	DC - 40.0 GHz.
9452-0085-6220	1	.021/.019	STAINLESS STEEL	DC - 40.0 GHz.

male, plug, 4 hole flange mount

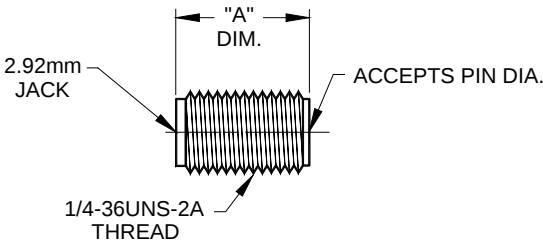


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
9454-0085-6204	1	.016/.014	STAINLESS STEEL	DC - 40.0 GHz.
9454-0085-6203	1	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9454-0085-6209	2	.013/.009	STAINLESS STEEL	DC - 40.0 GHz.
9454-0085-6212	2	.013/.011	STAINLESS STEEL	DC - 40.0 GHz.
9454-0085-6215	4	.016/.014	STAINLESS STEEL	DC - 40.0 GHz.
9454-0085-6220	1	.021/.019	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

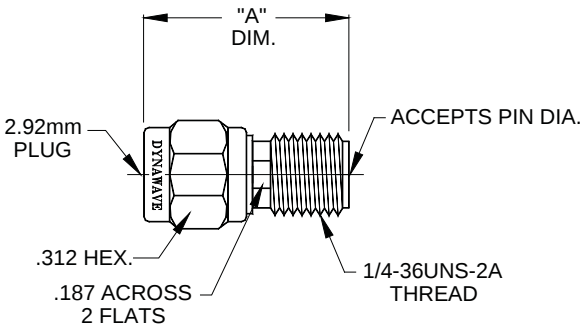
2.92mm • field replaceable connectors

female, jack, thread-in



PART NUMBER	ACCEPTS PIN DIA.	“A” DIM.	MATERIAL TYPE	FREQUENCY RANGE
9530-0085-6200	.016/.014	.405	STAINLESS STEEL	DC - 40.0 GHz.
9530-0085-6208	.013/.011	.375	STAINLESS STEEL	DC - 40.0 GHz.
9530-0085-6212	.013/.009	.375	STAINLESS STEEL	DC - 40.0 GHz.

male, plug, thread-in

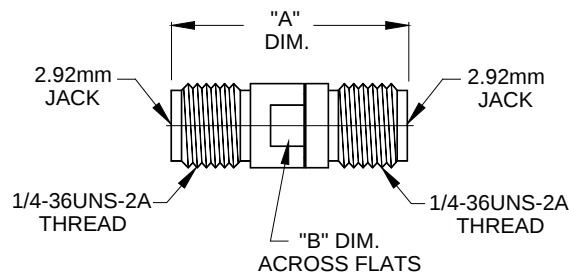


PART NUMBER	ACCEPTS PIN DIA.	“A” DIM.	MATERIAL TYPE	FREQUENCY RANGE
9430-0085-6200	.016/.014	.405	STAINLESS STEEL	DC - 40.0 GHz.
9430-0085-6208	.013/.011	.375	STAINLESS STEEL	DC - 40.0 GHz.
9430-0085-6212	.013/.009	.375	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

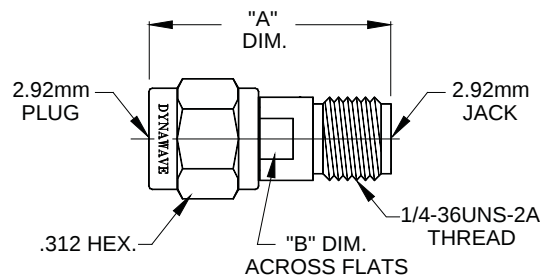
2.92mm • in-series adapters

female, jack to female, jack, straight



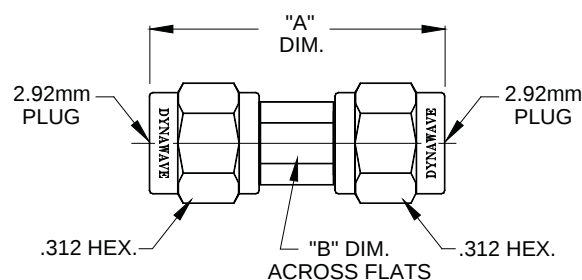
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9595-6200	.700	.218	STAINLESS STEEL	DC - 40.0 GHz.
1100-9595-6201	.680	.218	STAINLESS STEEL	DC - 40.0 GHz.

male, plug to female, jack, straight



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9495-6200	.730	.218	STAINLESS STEEL	DC - 40.0 GHz.
1100-9495-6201	.760	.218	STAINLESS STEEL	DC - 40.0 GHz.

male, plug to male, plug, straight

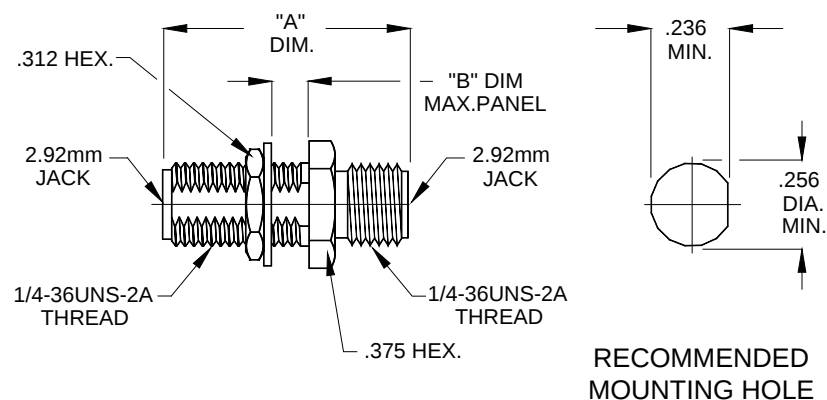


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-9494-6200	.79	.218	STAINLESS STEEL	DC - 40.0 GHz.
1100-9494-6201	.80	.218	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

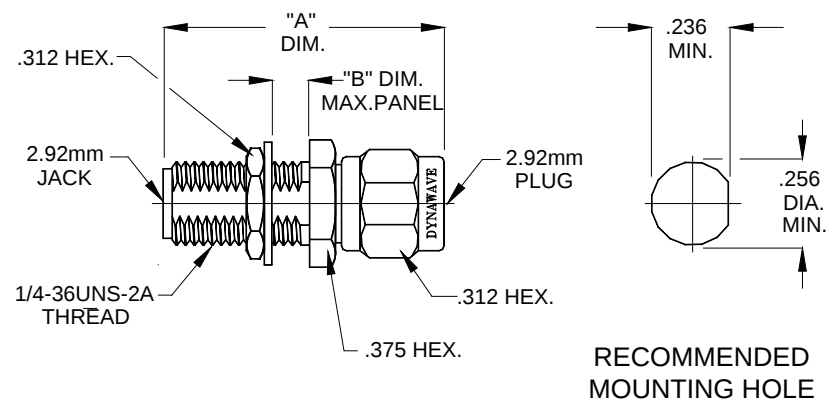
2.92mm • in-series adapters

female, jack to female, jack, bulkhead mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-9595-6200	.875	.150	STAINLESS STEEL	DC - 40.0 GHz..

male, plug to female, jack, bulkhead mount

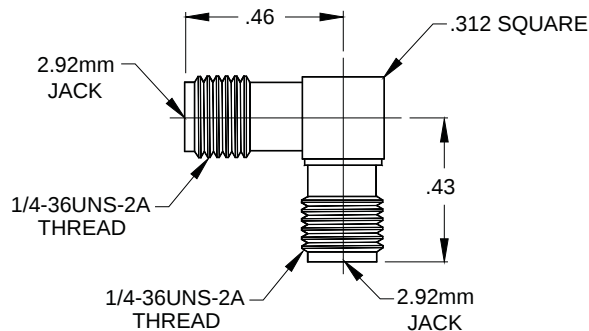


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-9495-6200	1.00	.150	STAINLESS STEEL	DC - 40.0 GHz..

Specifications are subject to change without notice

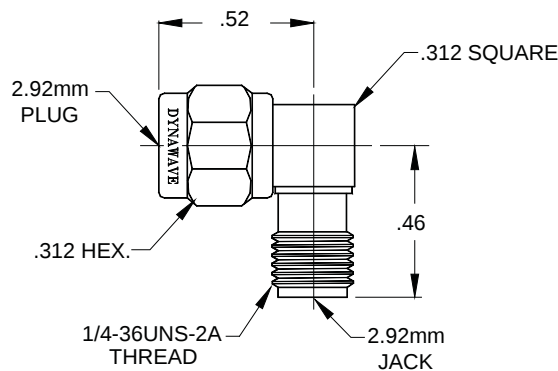
2.92mm • in-series right angle adapters

female, jack to female, jack, right angle



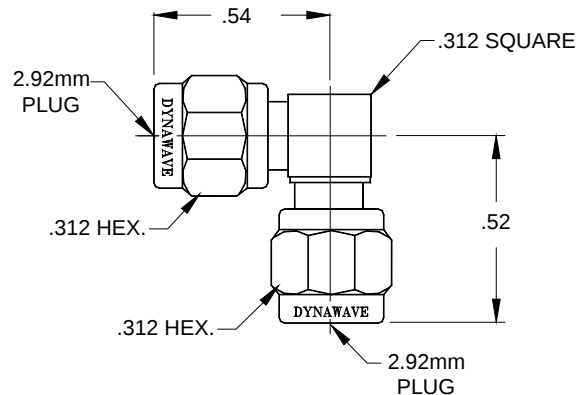
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9595-6200	STAINLESS STEEL	DC - 40.0 GHz..

female, jack to male, plug, right angle



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9495-6200	STAINLESS STEEL	DC - 40.0 GHz..

male, plug to male, plug, right angle



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1101-9494-6200	STAINLESS STEEL	DC - 40.0 GHz..

Specifications are subject to change without notice

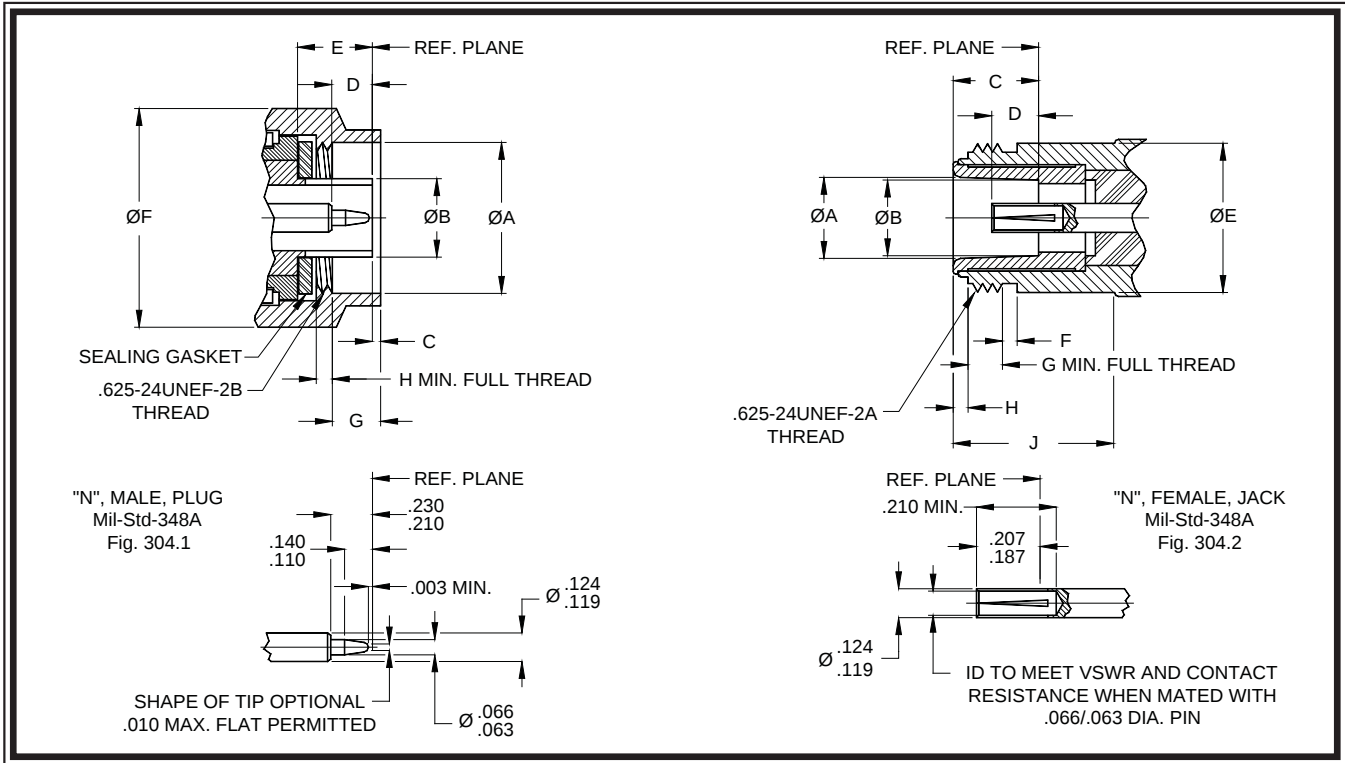
Notes

type “n”



The image displays a variety of type 'n' connectors, including straight, angled, and panel-mount versions in different sizes. Below the connectors is a collage of three images: a bridge, a fighter jet, and a control room. The website address www.dynawave.com and the company logo **dynawave** INCORPORATED are located at the bottom.

"N" • interface dimensions



male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.630	16.00	-----	-----
B	.313	7.95	.315	8.00
C	.016	0.41	.060	1.52
D	.210	5.33	.230	5.84
E	.398	10.11	.412	10.46
F	-----	-----	.827	21.00
G	.158	4.01	.168	4.27
H	.177	4.50	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.336	8.53	.344	8.74
B	.316	8.03	.320	8.13
C	.356	9.04	.362	9.19
D	.187	4.75	.207	5.26
E	-----	-----	.627	15.93
F	.047	1.19	.077	1.96
G	.172	4.37	.202	5.13
H	.047	1.19	.077	1.96
J	.422	10.72	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .066 / .063 Dia. inches (1.68 / 1.60) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inches.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

“N” specifications

The specifications below are general specifications for all Type “N” connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

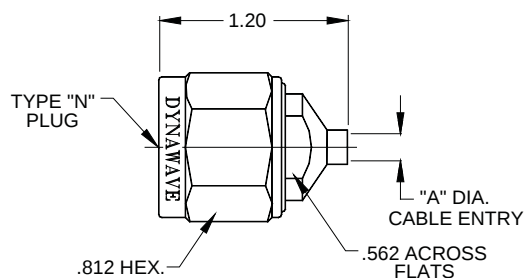
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM-A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 2,500 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 1,500 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 1.0 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The torque required to engage and disengage shall not exceed 2 inch pounds The longitudinal force is not applicable
Coupling Nut Retention Force and Proof Torque.	3.25	Not applicable for Female connectors. For Male connectors, the retension force is 100 pounds minimum. The Proof torque is 30 inch-pounds minimum.
Cable Retention force	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending requirements shall not apply.
Mating Characteristics	3.7	See interface dimensions shown on Page 180. Applicable to Females only: oversize pin .068 minimum diameter .150 deep; Insertion force 2 pounds maximum with .066 minimum diameter pin; withdrawal force 2 ounce minimum with .063 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be + 200°C.
Recommended Mating Torque		12-15 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 500 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

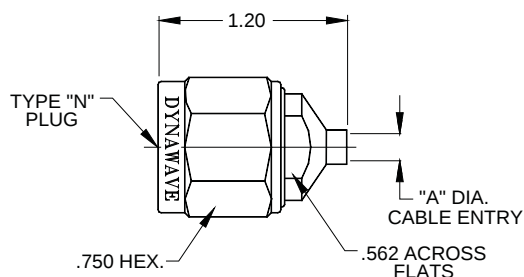
“N” • semi rigid cable connectors

male, plug, straight, with center contact



PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-8521-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7400-4121-2702	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7400-8521-6241	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7400-4121-6241	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7400-2502-2701	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2502-6240	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

male, plug, straight, with center contact

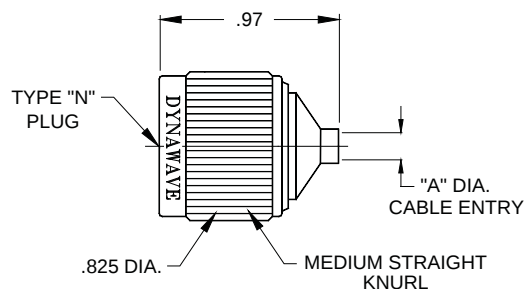


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-8521-2702	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7400-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7400-8521-6242	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7400-4121-6242	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7400-2502-2702	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2502-6242	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without notice

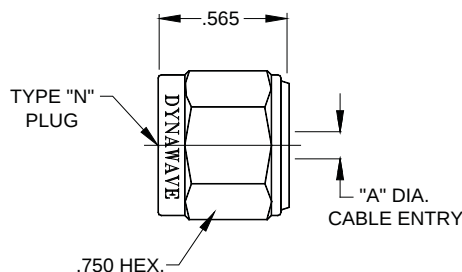
“N” • semi rigid cable connectors

male, plug, straight, with center contact



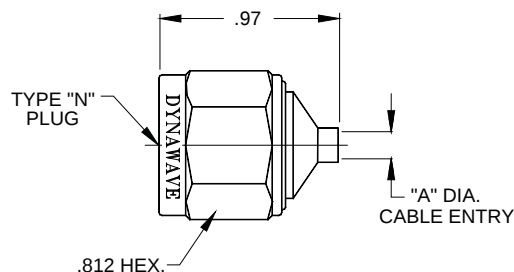
PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-8521-2701	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7400-4121-2701	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7400-8521-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7400-4121-6240	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7400-2502-2703	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2502-6241	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

male, plug, straight, with no center contact



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-2502-2400	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2502-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

male, plug, straight, with no center contact

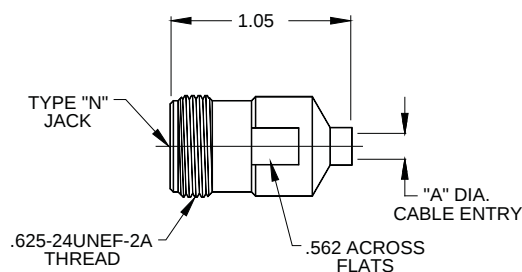


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-2526-2701	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2526-6201	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without

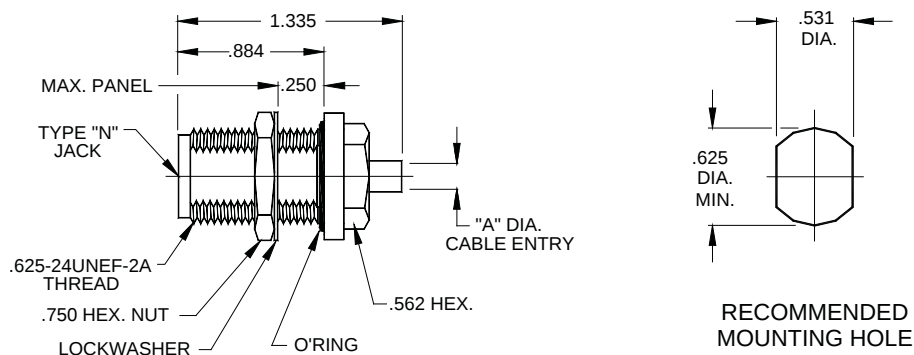
“N” • semi rigid cable connectors

female, jack, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7500-8521-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7500-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7500-8521-6440	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7500-4121-6440	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7500-2502-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7500-2502-6440	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

female, jack, bulkhead mount

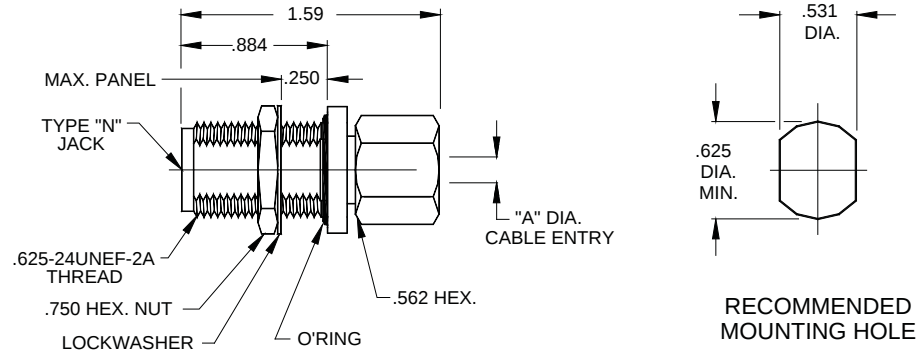


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7510-8541-2100	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7510-4141-2100	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7510-8541-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7510-4141-6240	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7510-2541-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7510-2541-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without notice

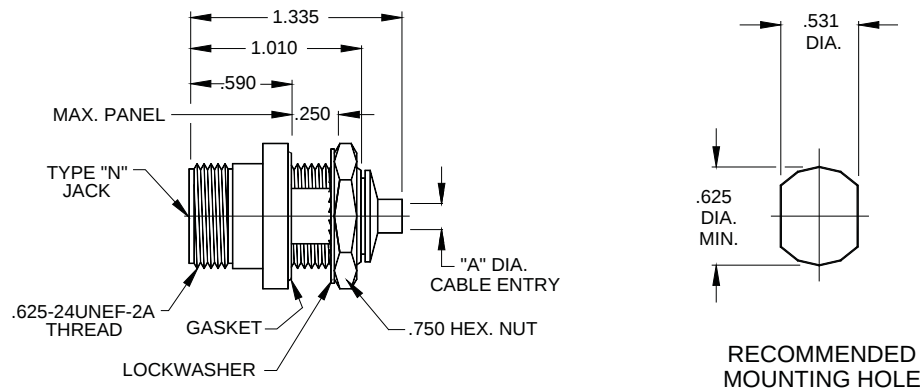
“N” • semi rigid cable connectors

female, jack, bulkhead mount



PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7510-2500-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7510-2500-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

female, jack, bulkhead, front mount

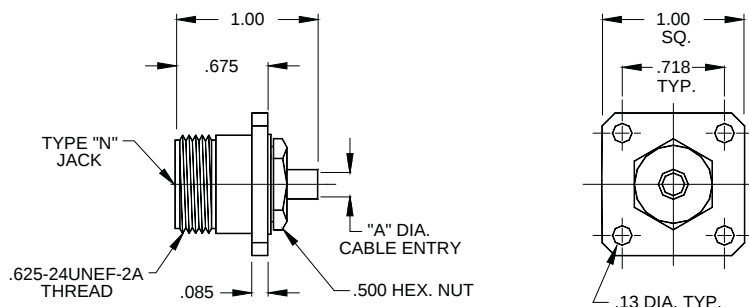


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7510-8541-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7510-4141-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7510-8541-6241	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7510-4141-6241	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7510-2541-2701	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7510-2541-6201	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without notice

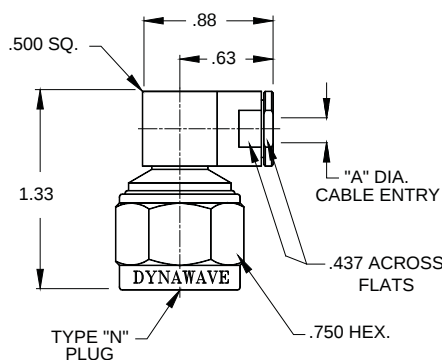
“N” • semi rigid cable connectors

female, jack, 4 hole flange mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7554-8521-2727	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7554-4121-2727	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7554-8521-6227	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7554-4121-6227	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7554-2521-2727	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7554-2521-6227	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

male, plug, right angle, solder clamp

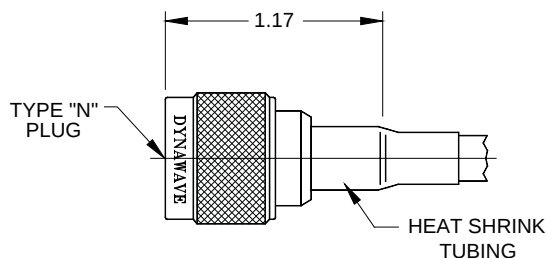


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7401-8545-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7401-4145-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7401-8545-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7401-4145-6240	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
7401-2545-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7401-2545-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without

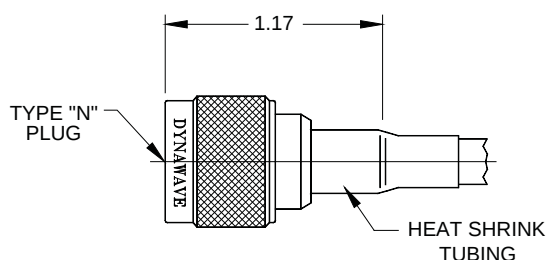
“N” • flexible cable connectors

male, plug, straight, crimp attachment
rg 174/u, 179, 187, 188, 316



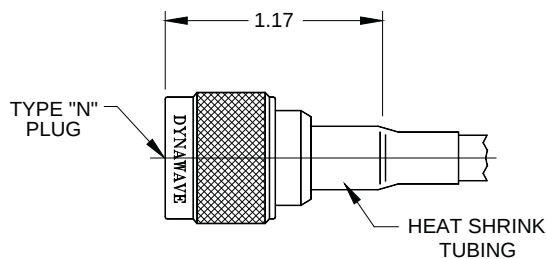
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7400-1631-2301	BRASS	DC - 3.0 GHz.
7400-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, straight, crimp attachment
rg 316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7400-1830-2300	BRASS	DC - 3.0 GHz.
7400-1830-6200	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, straight, crimp attachment
rg 58/u, 142, 223, 400

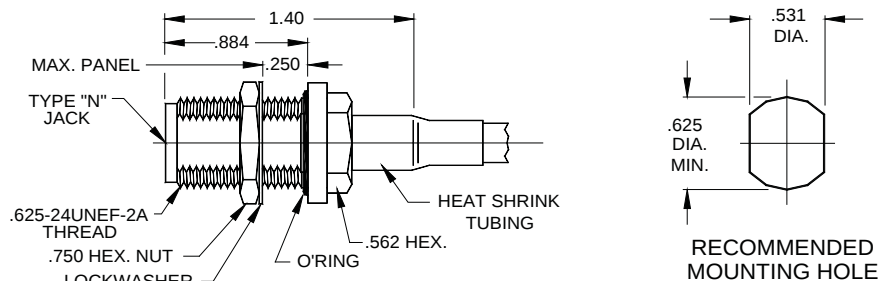


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7400-4230-2301	BRASS	DC - 6.0 GHz.
7400-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without

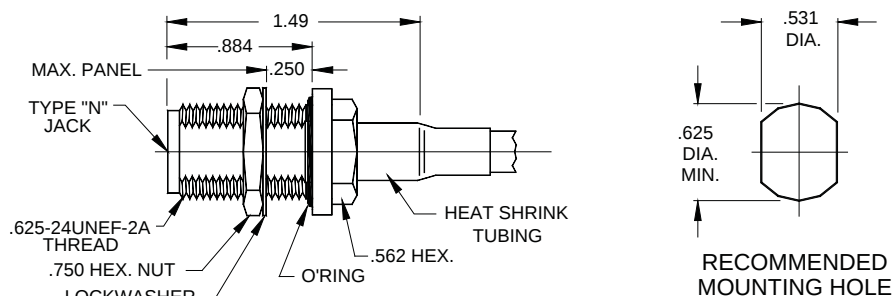
“N” • flexible cable connectors

female, jack, bulkhead, crimp attachment
rg 174/u, 179, 187, 188, 316



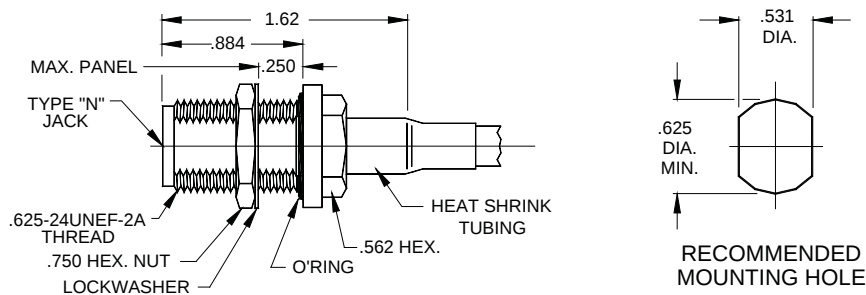
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7510-1631-2301	BRASS	DC - 3.0 GHz.
7510-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

female, jack, bulkhead, crimp attachment
rg 316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7510-1830-2300	BRASS	DC - 3.0 GHz.
7510-1830-6200	STAINLESS STEEL	DC - 3.0 GHz.

female, jack, bulkhead, crimp attachment
rg 58/u, 142, 223, 400

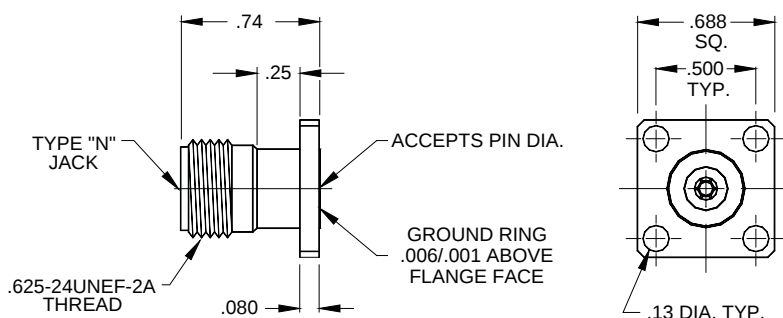


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7510-4230-2301	BRASS	DC - 6.0 GHz.
7510-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without notice

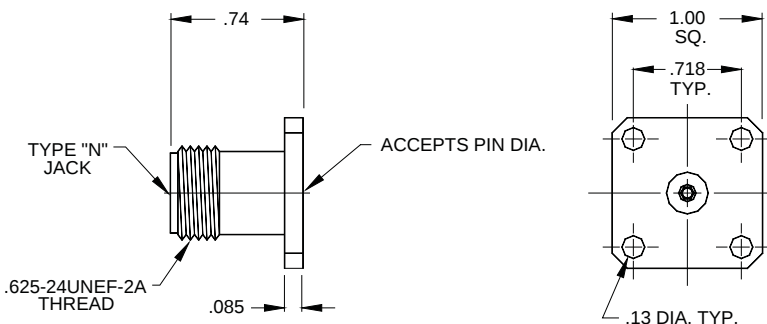
“N” • field replaceable connectors

female, jack, 4 hole flange mount



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
7554-0081-2715	.016/.011	BRASS	DC - 18.0 GHz.
7554-0081-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2720	.021/.017	BRASS	DC - 18.0 GHz.
7554-0081-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2736	.037/.035	BRASS	DC - 18.0 GHz.
7554-0081-6236	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2765	.066/.064	BRASS	DC - 10.0 GHz.
7554-0081-6265	.066/.064	STAINLESS STEEL	DC - 10.0 GHz.

female, jack, 4 hole flange mount

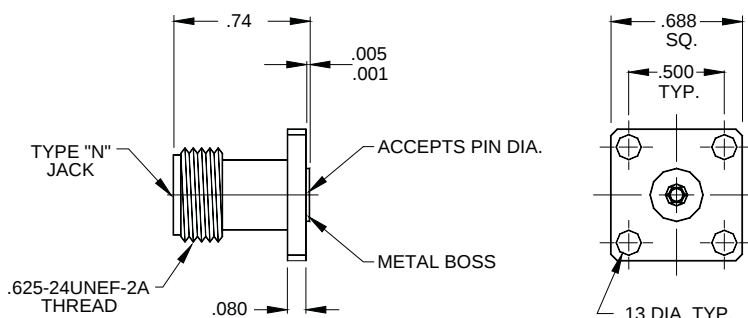


PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
7554-0081-2716	.016/.011	BRASS	DC - 18.0 GHz.
7554-0081-6216	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2721	.021/.017	BRASS	DC - 18.0 GHz.
7554-0081-6221	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2737	.037/.035	BRASS	DC - 18.0 GHz.
7554-0081-6237	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2766	.066/.064	BRASS	DC - 10.0 GHz.
7554-0081-6266	.066/.064	STAINLESS STEEL	DC - 10.0 GHz.

Specifications are subject to change without notice

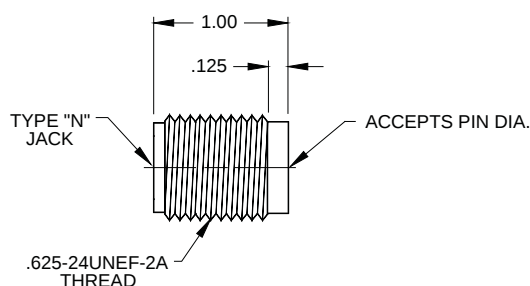
“N” • field replaceable connectors

female, jack, 4 hole flange mount with metal boss



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
7554-0881-2715	.016/.011	BRASS	DC - 18.0 GHz.
7554-0881-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
7554-0881-2720	.021/.017	BRASS	DC - 18.0 GHz.
7554-0881-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
7554-0881-2736	.037/.035	BRASS	DC - 18.0 GHz.
7554-0881-6236	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.
7554-0881-2765	.066/.064	BRASS	DC - 10.0 GHz.
7554-0881-6265	.066/.064	STAINLESS STEEL	DC - 10.0 GHz.

female, jack, thread-in



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
7530-0881-2715	.016/.011	BRASS	DC - 18.0 GHz.
7530-0881-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
7530-0881-2720	.021/.017	BRASS	DC - 18.0 GHz.
7530-0881-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
7530-0881-2736	.037/.035	BRASS	DC - 18.0 GHz.
7530-0881-6236	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.
7530-0881-2765	.066/.064	BRASS	DC - 10.0 GHz.
7530-0881-6265	.066/.064	STAINLESS STEEL	DC - 10.0 GHz.

Specifications are subject to change without notice

“N” • slotted terminal

female, jack, 4 hole flange mount

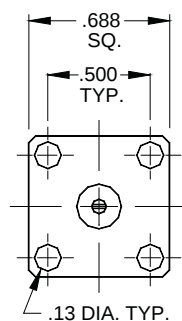
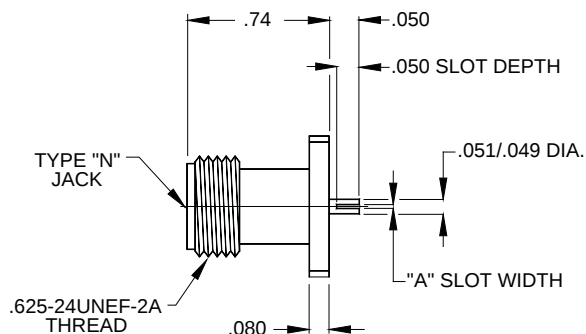


Fig. 1

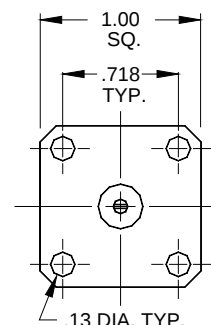


Fig. 2

PART NUMBER	Fig.	“A” SLOT WIDTH	MATERIAL TYPE	FREQUENCY RANGE
7554-0012-2751	1	.025/.017	BRASS	DC - 11.0 GHz.
7554-0012-2761	2	.025/.017	BRASS	DC - 11.0 GHz.

“N” • tab terminal

female, jack, 4 hole flange mount

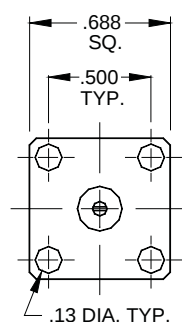
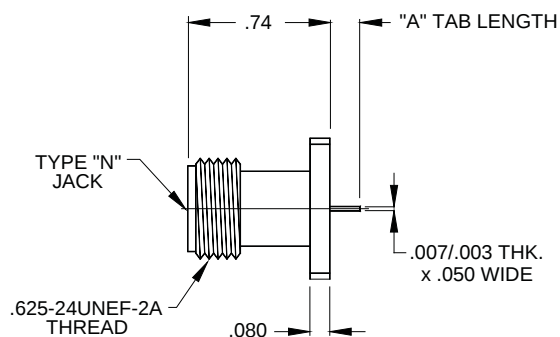


Fig. 1

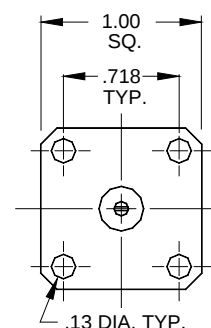


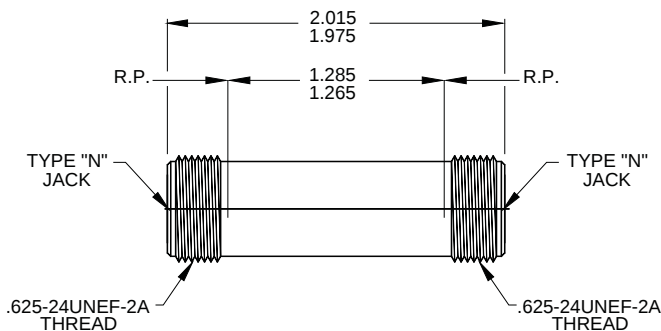
Fig. 2

PART NUMBER	Fig.	“A” TAB LENGTH	MATERIAL TYPE	FREQUENCY RANGE
7554-0052-2751	1	.025/.017	BRASS	DC - 11.0 GHz.
7554-0052-2761	2	.025/.017	BRASS	DC - 11.0 GHz.

Specifications are subject to change without notice

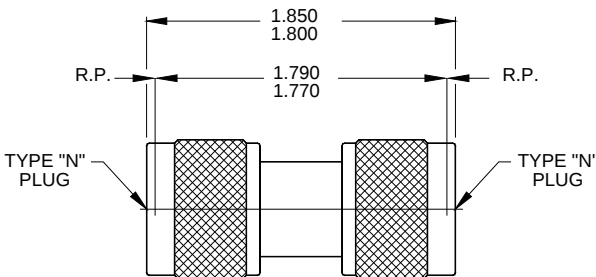
“N” • in-series adapters

female, jack to female, jack, straight



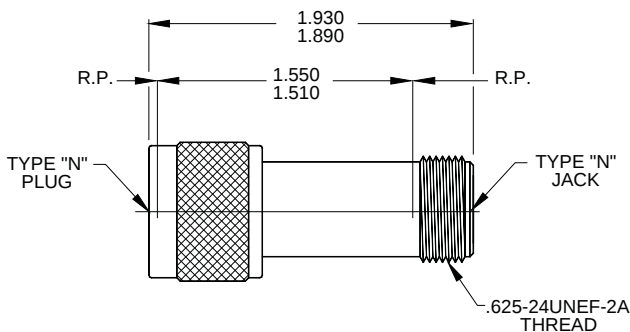
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7575-2720	BRASS	DC - 18.0 GHz.
1100-7575-6220	STAINLESS STEEL	DC - 18.0 GHz.

male, plug to male, plug, straight



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7474-2720	BRASS	DC - 18.0 GHz.
1100-7474-6220	STAINLESS STEEL	DC - 18.0 GHz.

male, plug to female, jack, straight



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7475-2720	BRASS	DC - 18.0 GHz.
1100-7475-6220	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

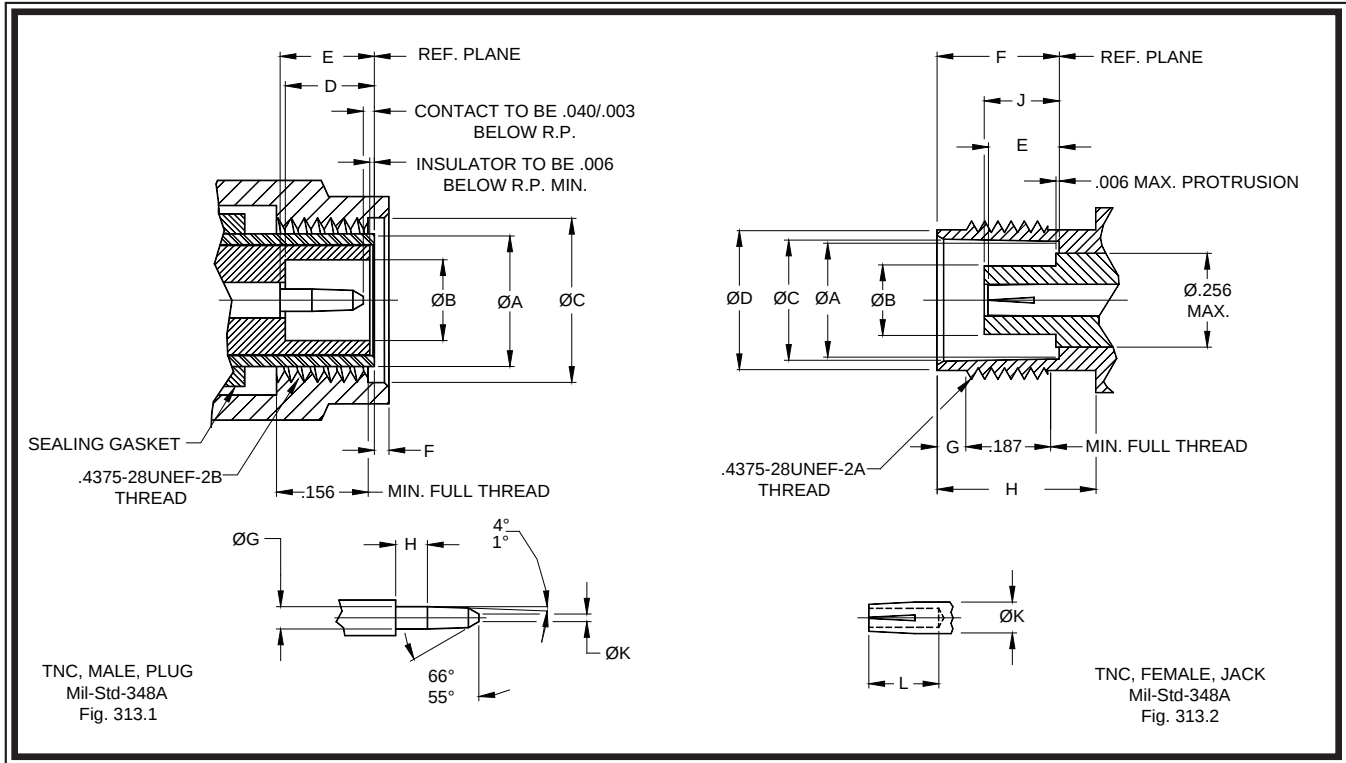


tnc

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INCORPORATED

TNC • interface dimensions



male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.314	7.98	.318	8.08
B	.190	4.83	-----	-----
C	.440	11.18	-----	-----
D	.208	5.28	.228	5.79
E	.210	5.33	.230	5.84
F	-----	-----	.078	1.98
G	.052	1.32	.054	1.37
H	.078	1.98	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.319	8.10	.321	8.15
B	.182	4.62	.186	4.72
C	.319	8.10	.321	8.15
D	.378	9.60	.381	9.68
E	.186	4.72	.206	5.23
F	.327	8.31	.335	8.51
G	.068	1.73	.088	2.24
H	.414	10.52	-----	-----
J	.188	4.78	.208	5.28
K	.084	2.13	.087	2.21
L	.195	4.95	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .054 / .052 Dia. inches (1.37 / 1.32) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inches.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

Specifications are subject to change without notice

TNC specifications

The specifications below are general specifications for all TNC connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

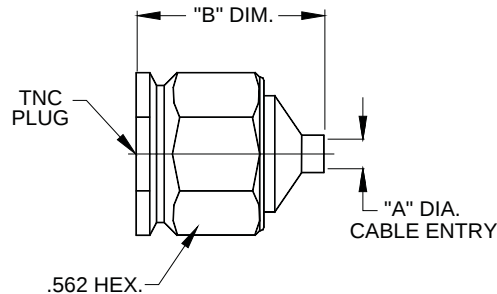
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
GENERAL		
Material	3.3	Steel corrosion resistant per ASTM- A- 581, Type 303, Cond. A Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	3.3.1	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	3.4	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL		
Insulation Resistance	3.11	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	3.17	The magnitude of the test voltage shall be 1,500 volts rms at sea level
RF High Potential Withstanding Voltage	3.23	The RF high potential withstanding voltage is 1,000 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	3.18	The center contact resistance drop shall not exceed 1.5 milliohms and the outer contact resistance drop shall not exceed 2.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	3.14	See applicable connector specifications.
RF Leakage	3.26	See applicable connector specifications.
Insertion Loss	3.27	See applicable connector specification.
MECHANICAL		
Force to Engage and Disengage	3.5.1	The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable
Coupling Nut Retention Force and Proof Torque.	3.25	Not applicable for Female connectors. For Male connectors, the retension force is 100 pounds minimum. The Proof torque is 30 inch-pounds minimum.
Cable Retention force	3.24	The force applied shall be 60 pounds minimum. The cable twisting and bending requirements shall not apply.
Mating Characteristics	3.7	See interface dimensions shown on Page 194. Applicable to Females only: oversize pin .055 minimum diameter .150 deep; Insertion force 2 pounds maximum with .054 minimum diameter pin; withdrawal force 2 ounce minimum with .052 maximum diameter pin.
Connector Durability	3.15	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL		
Vibration	3.18	Specification MIL-STD-202, Method 204, Test Condition D.
Shock	3.19	Specification MIL-STD-202, Method 213, Test Condition I.
Thermal Shock	3.20	Specification MIL-STD-202, Method 107, Test Condition B except high temperature shall be $\pm 200^{\circ}\text{C}$.
Recommended Mating Torque		12-15 inch-pounds
Corrosion (Salt Spray)	3.13	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	3.21	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.
Corona Level	3.22	The connector shall not exhibit breakdown (corona) when the applied voltage is 375 volts rms and the altitude is 70,000 feet.
Complete specifications on every connector in this catalog are available from Dynawave		

Specifications are subject to change without notice

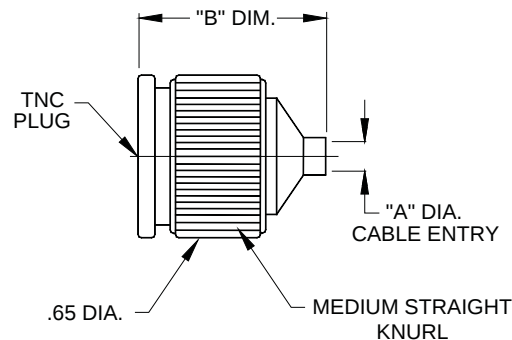
TNC • semi rigid cable connectors

male, plug, straight, with center contact



PART NUMBER	"A" DIA.	"B" DIM.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8400-8521-2700	.089 MIN.	.77	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8400-4121-2700	.144 MIN.	.76	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8400-8521-6200	.089 MIN.	.77	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8400-4121-6200	.144 MIN.	.76	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8400-2525-2700	.255 MIN.	.97	RG 401/U (.250)	BRASS	DC - 18.0 GHz.
8400-2525-6201	.255 MIN.	1.02	RG 401/U (.250)	STAINLESS STEEL	DC - 18.0 GHz.

male, plug, straight, with center contact

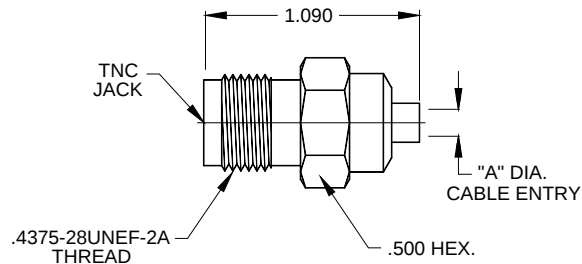


PART NUMBER	"A" DIA.	"B" DIM.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8400-8521-2701	.089 MIN.	.77	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8400-4121-2701	.144 MIN.	.77	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8400-8521-6201	.089 MIN.	.77	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8400-4121-6201	.144 MIN.	.77	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8400-2525-2702	.255 MIN.	.97	RG 401/U (.250)	BRASS	DC - 18.0 GHz.
8400-2525-6202	.255 MIN.	.97	RG 401/U (.250)	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

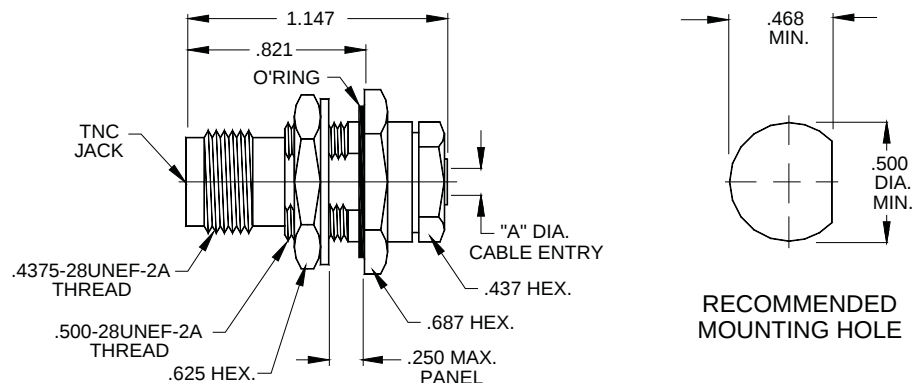
TNC • semi rigid cable connectors

female, jack, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8500-8521-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8500-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8500-8521-6400	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8500-4121-6400	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8500-2525-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 18.0 GHz.
8500-2525-6400	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, bulkhead mount, solder clamp

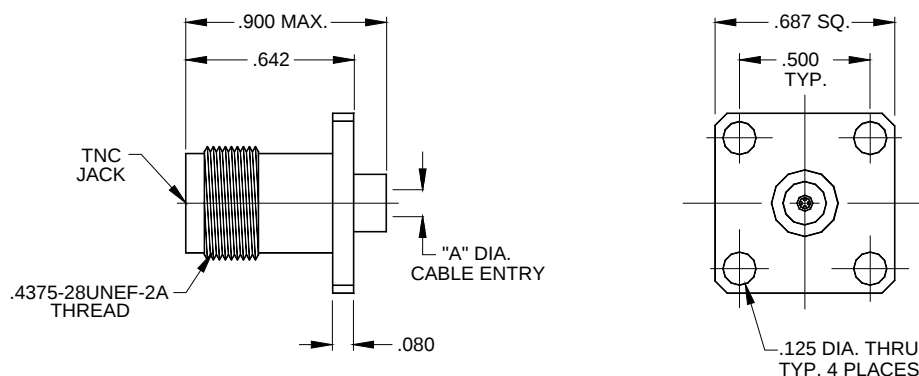


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8510-8521-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8510-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8510-8521-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8510-4121-6200	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8510-2521-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 18.0 GHz.
8510-2521-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

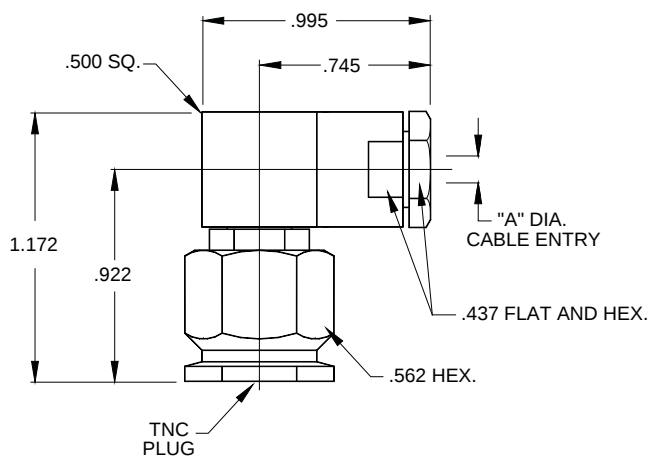
TNC • semi rigid cable connectors

female, jack, 4 hole flange mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8554-8521-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8554-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8554-8521-6400	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8554-4121-6400	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8554-2521-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
8554-2521-6400	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

male, plug, right angle, solder clamp

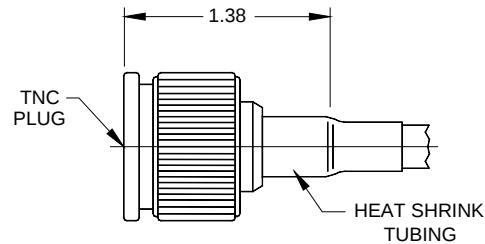


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
8401-8545-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
8401-4145-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
8401-8545-6200	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
8401-4145-6200	.144 MIN.	RG 402/U (.141)	STAINLESS STEEL	DC - 18.0 GHz.
8401-2545-2700	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
8401-2545-6200	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without notice

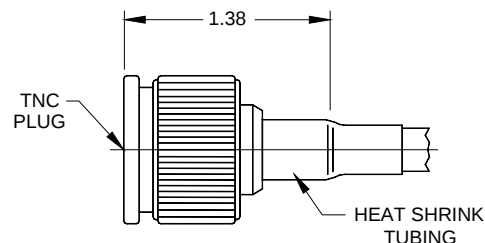
TNC • flexible cable connectors

male, plug, straight, crimp attachment
rg 174/u, 179, 187, 188, 316



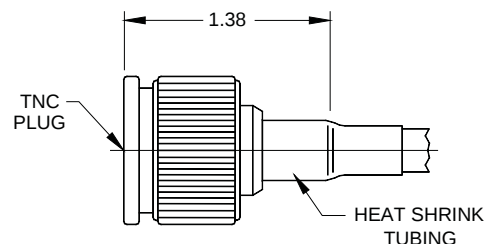
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8400-1631-2301	BRASS	DC - 3.0 GHz.
8400-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, straight, crimp attachment
rg 316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8400-1830-2300	BRASS	DC - 3.0 GHz.
8400-1830-6200	STAINLESS STEEL	DC - 3.0 GHz.

male, plug, straight, crimp attachment
rg 58/u, 142, 223, 400



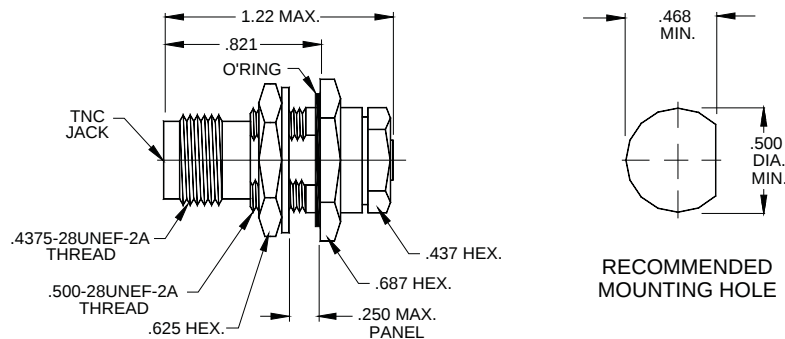
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8400-4230-2301	BRASS	DC - 6.0 GHz.
8400-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without notice

TNC • flexible cable connectors

female, jack, bulkhead, clamp attachment

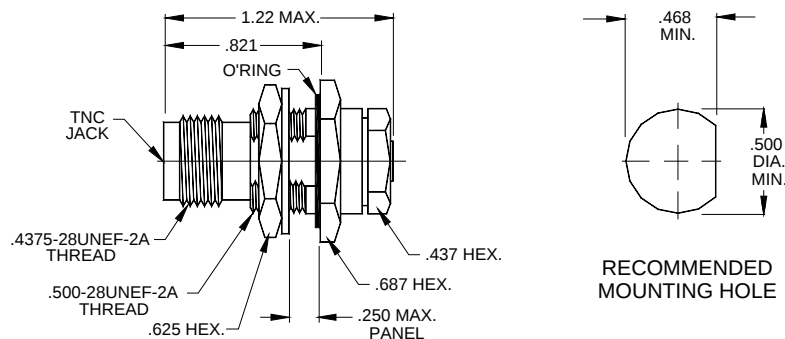
rg174/u, 179, 187, 188, 316



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8510-1631-2301	BRASS	DC - 3.0 GHz.
8510-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

female, jack, bulkhead, clamp attachment

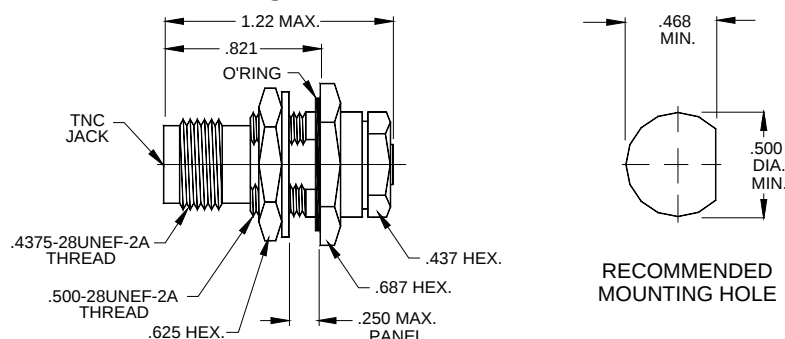
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8510-1830-2300	BRASS	DC - 3.0 GHz.
8510-1830-6200	STAINLESS STEEL	DC - 3.0 GHz.

female, jack, bulkhead, clamp attachment

rg55/u, 142, 223, 400

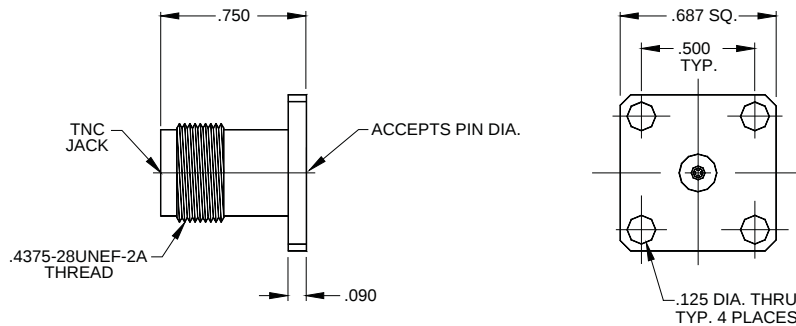


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
8510-4230-2301	BRASS	DC - 6.0 GHz.
8510-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without notice

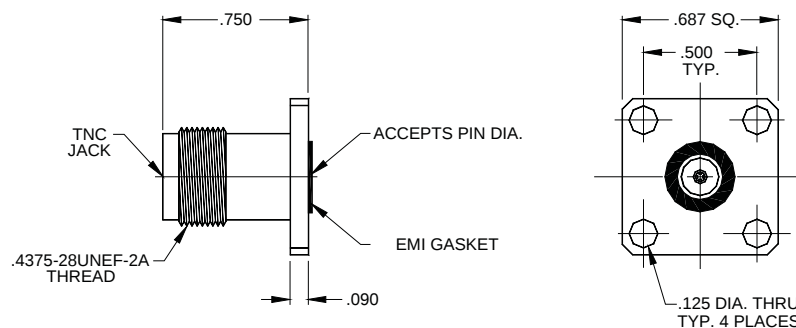
TNC • field replaceable connectors

female, jack, 4 hole flange mount



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8554-0081-2715	.016/.011	BRASS	DC - 18.0 GHz.
8554-0081-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8554-0081-2720	.021/.017	BRASS	DC - 18.0 GHz.
8554-0081-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8554-0081-2735	.037/.035	BRASS	DC - 18.0 GHz.
8554-0081-6235	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, 4 hole flange mount with emi gasket

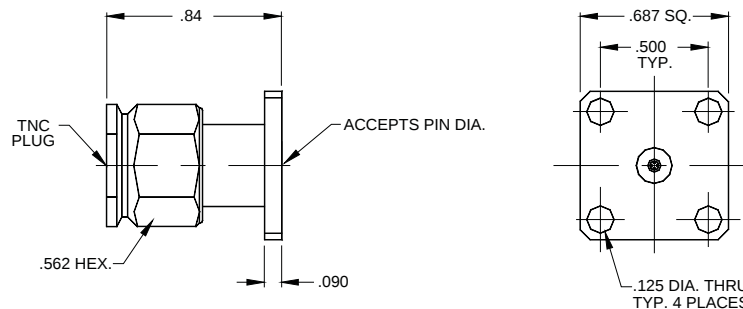


PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8554-0781-2715	.016/.011	BRASS	DC - 18.0 GHz.
8554-0781-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8554-0781-2720	.021/.017	BRASS	DC - 18.0 GHz.
8554-0781-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8554-0781-2735	.037/.035	BRASS	DC - 18.0 GHz.
8554-0781-6235	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

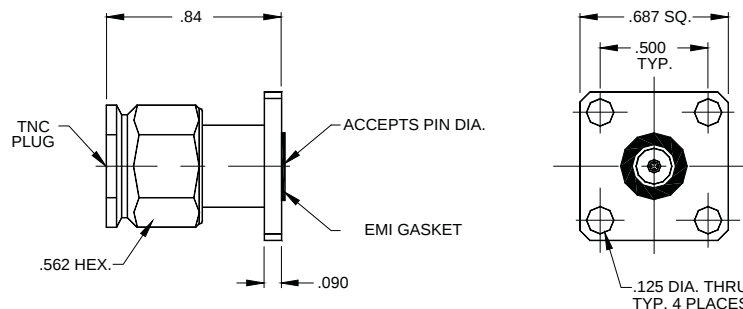
TNC • field replaceable connectors

male, plug, 4 hole flange mount



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8454-0081-2715	.016/.011	BRASS	DC - 18.0 GHz.
8454-0081-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8454-0081-2720	.021/.017	BRASS	DC - 18.0 GHz.
8454-0081-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8454-0081-2735	.037/.035	BRASS	DC - 18.0 GHz.
8454-0081-6235	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

male, plug, 4 hole flange mount with emi gasket

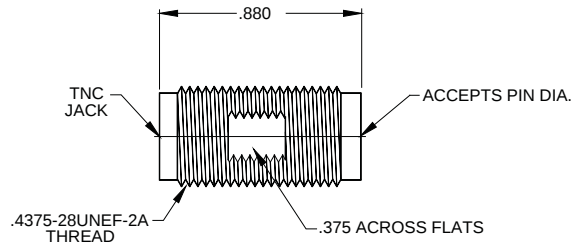


PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8454-0781-2715	.016/.011	BRASS	DC - 18.0 GHz.
8454-0781-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8454-0781-2720	.021/.017	BRASS	DC - 18.0 GHz.
8454-0781-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8454-0781-2735	.037/.035	BRASS	DC - 18.0 GHz.
8454-0781-6235	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

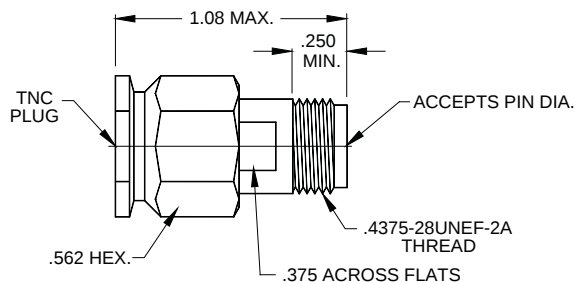
TNC • field replaceable connectors

female, jack, thread-in



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8530-0081-2715	.016/.011	BRASS	DC - 18.0 GHz.
8530-0081-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8530-0081-2722	.021/.017	BRASS	DC - 18.0 GHz.
8530-0081-6222	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8530-0081-2736	.037/.035	BRASS	DC - 18.0 GHz.
8530-0081-6236	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

male, plug, thread-in

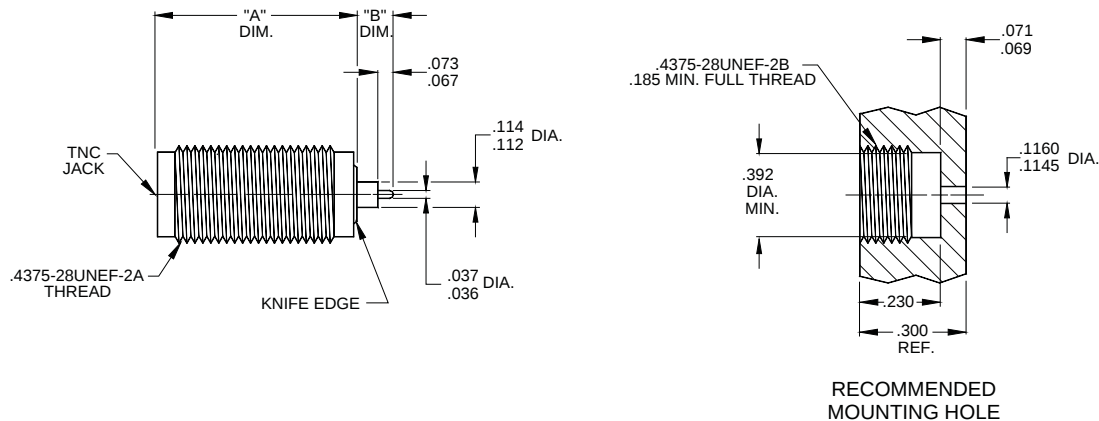


PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
8430-0081-2715	.016/.011	BRASS	DC - 18.0 GHz.
8430-0081-6215	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
8430-0081-2720	.021/.017	BRASS	DC - 18.0 GHz.
8430-0081-6220	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
8430-0081-2736	.037/.035	BRASS	DC - 18.0 GHz.
8430-0081-6236	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

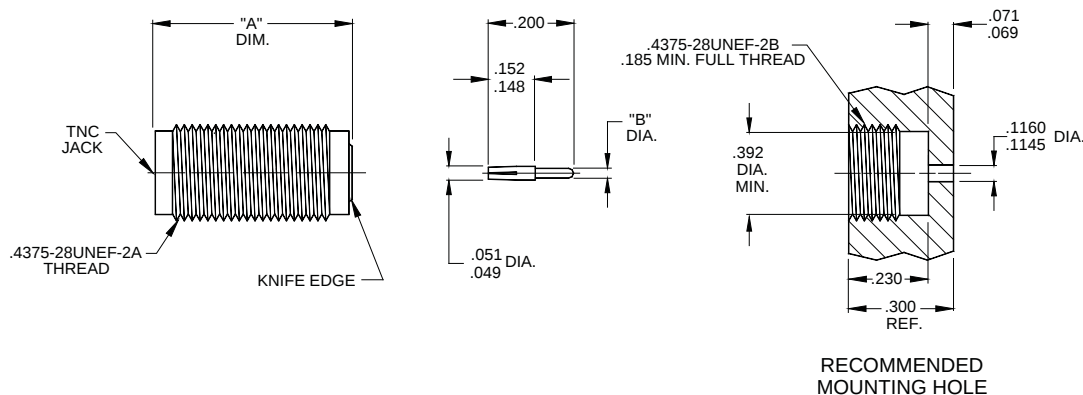
TNC • hermetic connectors

female, jack, thread-in “sparkplug”



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
8530-0431-6436	.84	.110	STAINLESS STEEL	DC - 18.0 GHz.

female, jack, thread-in, knife edge “sparkplug”, sliding contact

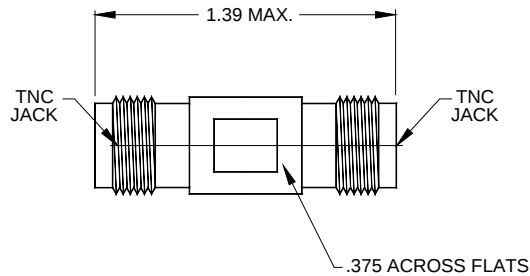


PART NUMBER	"A" DIM.	"B" DIA.	MATERIAL TYPE	FREQUENCY RANGE
8530-0441-6436	.84	.037/.035	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

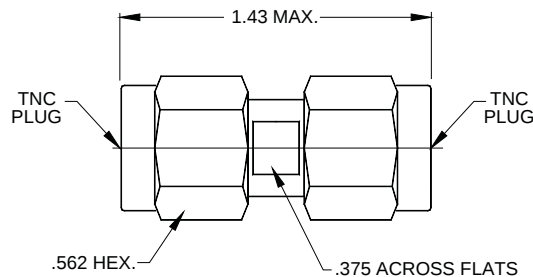
TNC • in-series adapters

female, jack to female, jack, straight



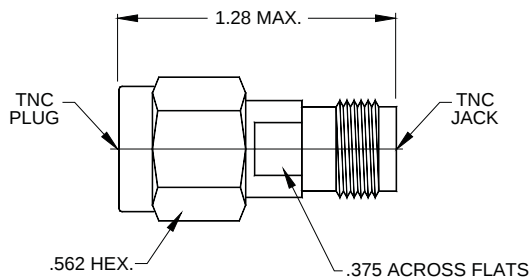
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8585-2787	BRASS	DC - 18.0 GHz.
1100-8585-6287	STAINLESS STEEL	DC - 18.0 GHz.

male, plug to male, plug, straight



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8484-2787	BRASS	DC - 18.0 GHz.
1100-8484-6287	STAINLESS STEEL	DC - 18.0 GHz.

male, plug to female, jack, straight



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8485-2787	BRASS	DC - 18.0 GHz.
1100-8485-6287	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

Notes



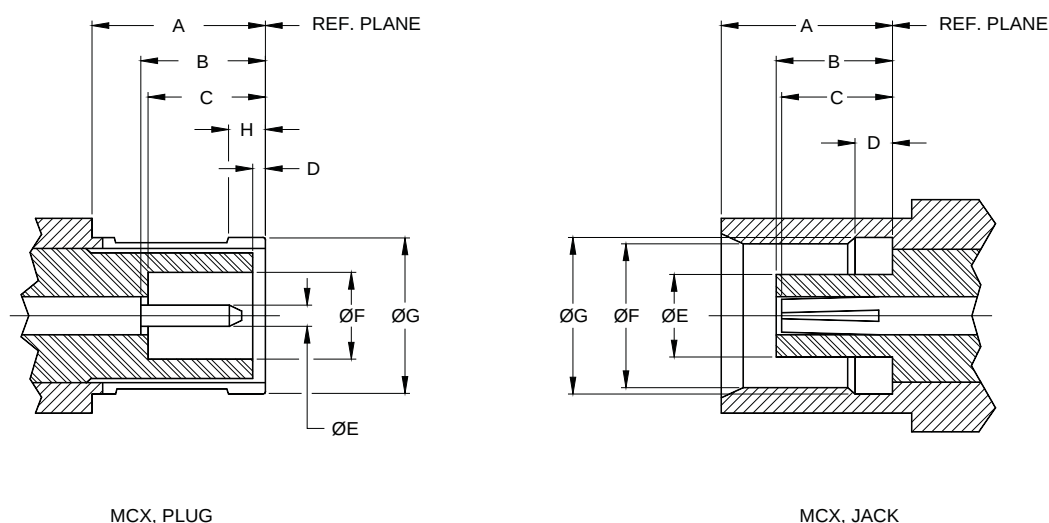
mcx



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mcx • interface dimensions



Design in accordance with CECC 22220

male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.164	4.17	-----	-----
B	.110	2.80	.126	3.20
C	.110	2.80	.126	3.20
D	.000	0.00	.012	0.30
E	.019	0.48	.021	0.53
F	.079	2.00	.081	2.07
G	.146	3.72	.150	3.80
H	.028	0.71	.030	0.76
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.158	4.01	.162	4.12
B	.103	2.62	.110	2.79
C	.091	2.31	.110	2.79
D	.075	1.91	.085	2.16
E	.071	1.80	.078	1.98
F	.135	3.43	.137	3.48
G	.142	3.61	.148	3.76
H	-----	-----	-----	-----
J	-----	-----	-----	-----
K	-----	-----	-----	-----
L	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .054 / .052 Dia. inches (1.37 / 1.32) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inches.
4. These dimensions are subject to change according to the latest revisions of MIL-C-39012 and MIL-STD-348A.

Specifications are subject to change without notice

mcx specifications

The specifications below are general specifications for all MCX connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

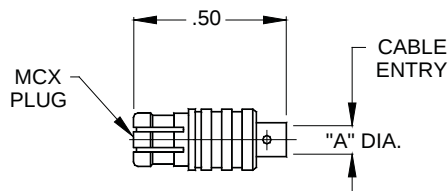
In the event of any conflict between these specifications and General Specification CECC 22220 these specifications shall govern. These specifications are subject to change according to the latest revision of CECC 22220.

REQUIREMENT	SPECIFICATIONS
GENERAL	
Material	Brass per ASTM B16, Temper H02, Alloy C36000. Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL	
Insulation Resistance	The insulation resistance shall not be less than 5,000 megohms
Dielectric Withstanding Voltage	The magnitude of the test voltage shall be 1,000 volts rms at sea level
RF High Potential Withstanding Voltage	The RF high potential withstanding voltage is 1,000 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	The center contact resistance drop shall not exceed 5.0 milliohms Max. and the outer contact resistance drop shall not exceed 1.0 milliohms.
Voltage Standing Wave Ratio (VSWR)	See applicable connector specifications.
RF Leakage	See applicable connector specifications.
Insertion Loss	See applicable connector specification.
MECHANICAL	
Force to Engage and Disengage	The Engagement force shall not exceed 5.6 pounds. The Disengagement force shall be no greater than 4.5 pounds.
Mating Characteristics	See interface dimensions shown on Page 208. Applicable to Females only: oversize pin .021 minimum diameter .045 deep; Insertion force 3 pounds maximum with .0208 minimum diameter pin; withdrawal force 1 ounce minimum with .0195 maximum diameter pin.
Connector Durability	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL	
Vibration	Specification MIL-STD-202, Method 204, Test Condition D.
Thermal Shock	Specification MIL-STD-202, Method 107, Test Condition C.
Corrosion (Salt Spray)	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.

Complete specifications on every connector in this catalog are available from Dynawave

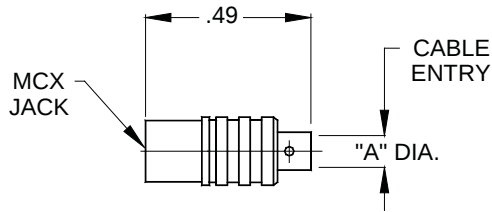
mcX • semi rigid cable connectors

male, plug, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1500-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
1500-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
1500-4120-2400	.144 MIN.	RG 402/U (.141)	BRASS	DC - 6.0 GHz.
1500-4720-5400	.051 MIN.	.047 SEMI-RIGID	BERYLLIUM COPPER	DC - 6.0 GHz.
1500-8520-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM COPPER	DC - 6.0 GHz.
1500-4120-5400	.144 MIN.	RG 402/U (.141)	BERYLLIUM COPPER	DC - 6.0 GHz.

female, jack, straight

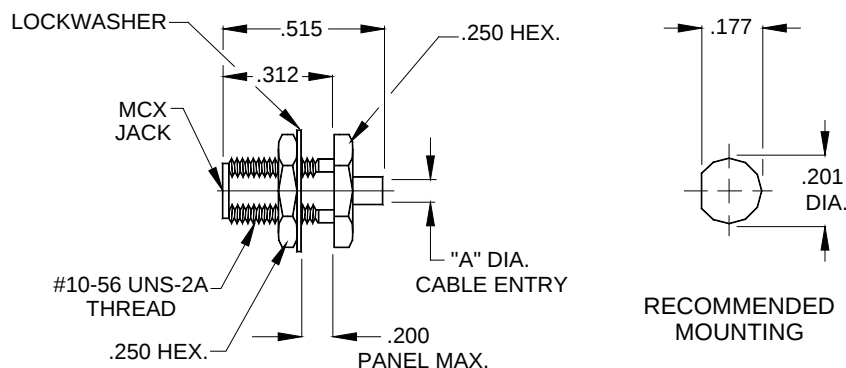


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1600-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
1600-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
1600-4120-2400	.144MIN.	RG 402/U (.141)	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

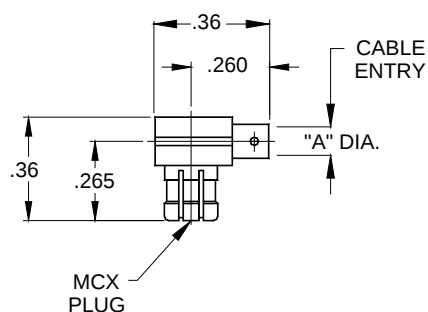
mcx • semi rigid cable connectors

female, jack, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1610-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
1610-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
1610-4120-2400	.144MIN.	RG 402/U (.141)	BRASS	DC - 6.0 GHz.

male, plug, right angle

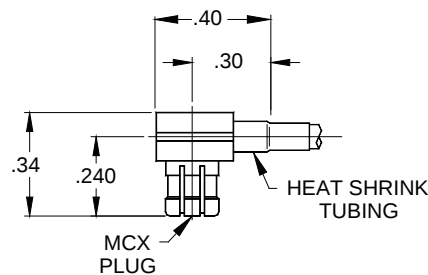


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
1501-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
1501-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
1501-4120-2400	.144MIN.	RG 402/U (.141)	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

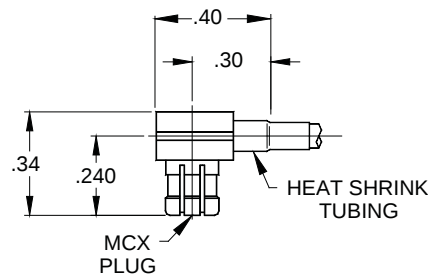
mcx • flexible cable connectors

male, plug, right angle, crimp attachment
rg174/u, 179, 187, 188, 316



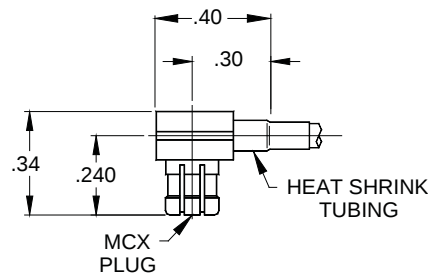
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1501-1630-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1501-1830-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg55/u, 142, 223, 400

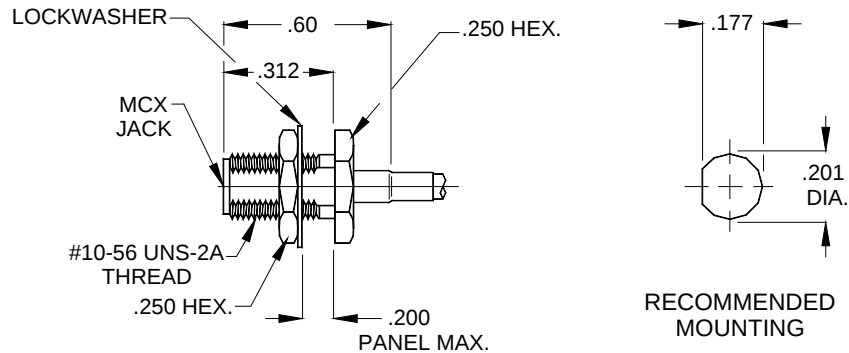


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1501-4230-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

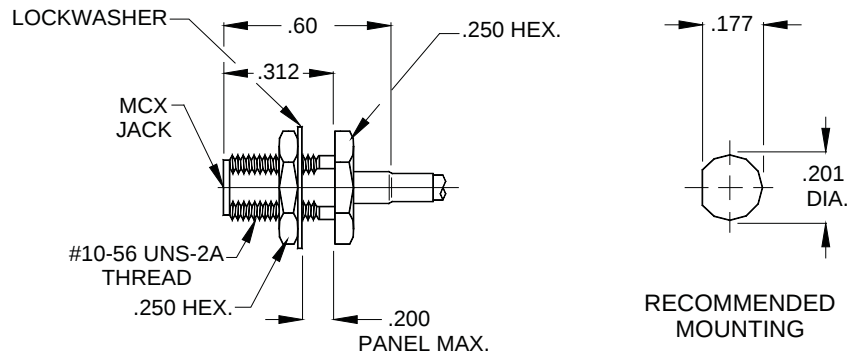
mcX • flexible cable connectors

female, jack, bulkhead mount, crimp attachment
rg174/u, 179, 187, 188, 316



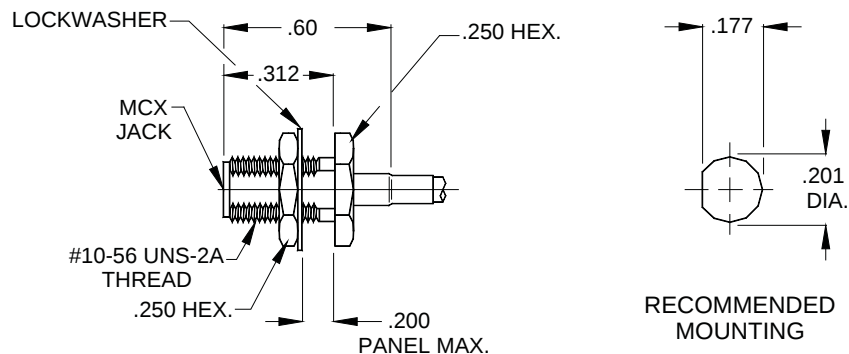
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1610-1630-2400	BRASS	DC - 3.0 GHz.

female, jack, bulkhead mount, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1610-1830-2400	BRASS	DC - 3.0 GHz.

male, plug, bulkhead mount, crimp attachment
rg55/u, 142, 223, 400

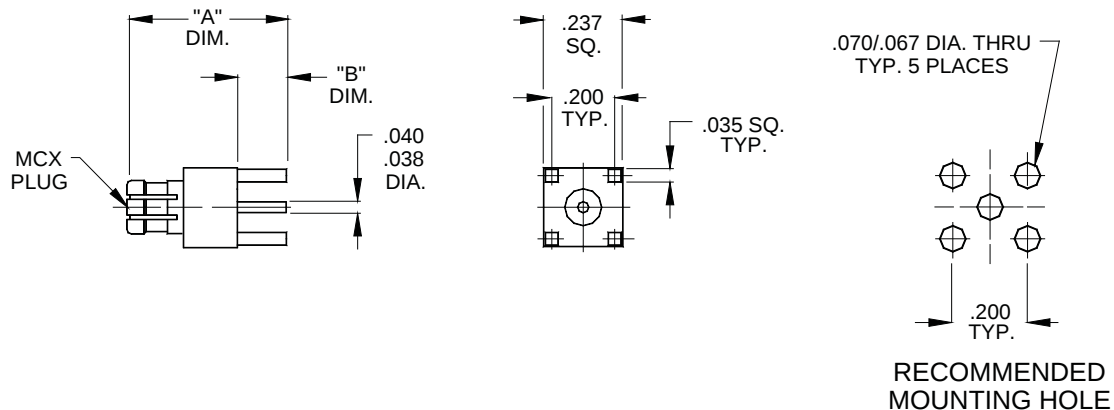


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1610-4230-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

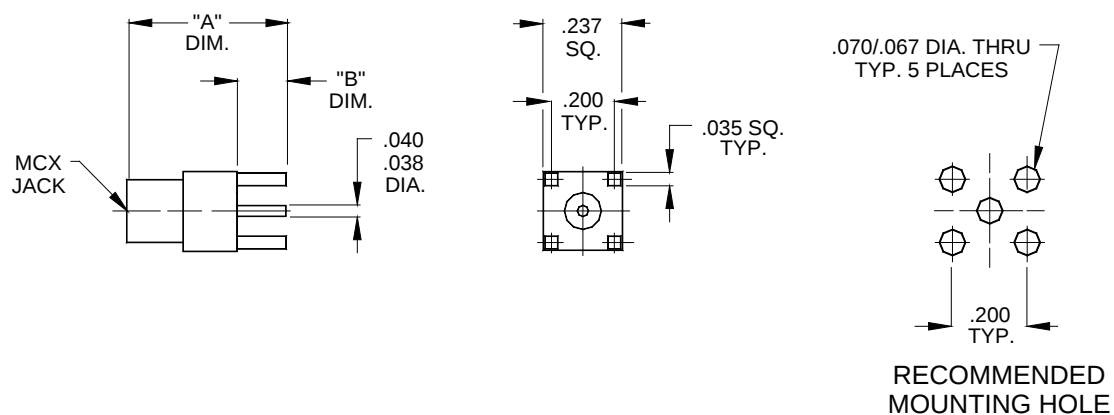
mcX • printed circuit board mount

male, plug, straight, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1520-0031-2401	.375	.155	BRASS	DC - 6.0 GHz.
1520-0031-2402	.500	.155	BRASS	DC - 6.0 GHz.

female, jack, straight, 4 post, thru hole

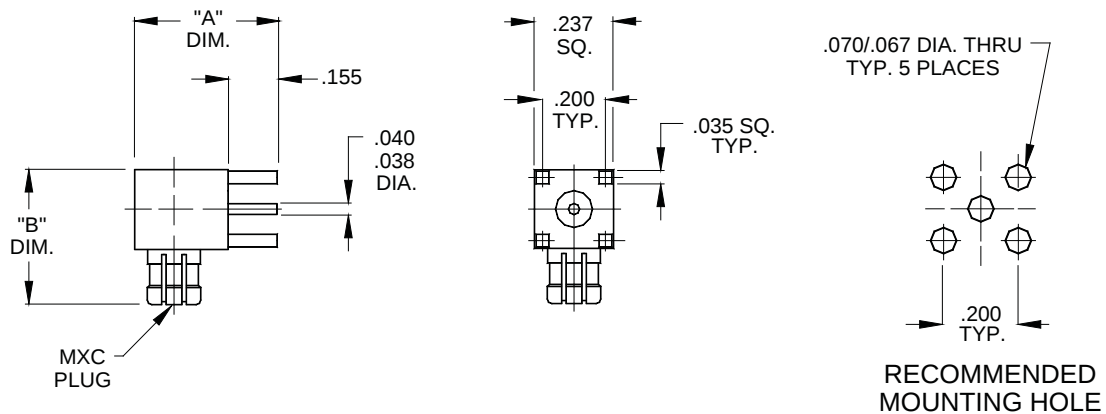


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1620-0031-2401	.394	.142	BRASS	DC - 6.0 GHz.
1620-0031-2402	.500	.155	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

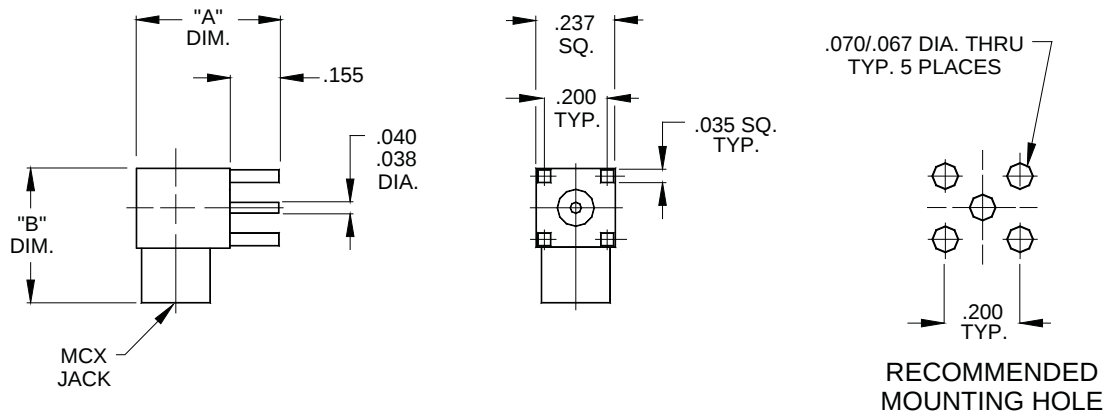
mcX • printed circuit board mount

male, plug, right angle, 4 post, thru hole



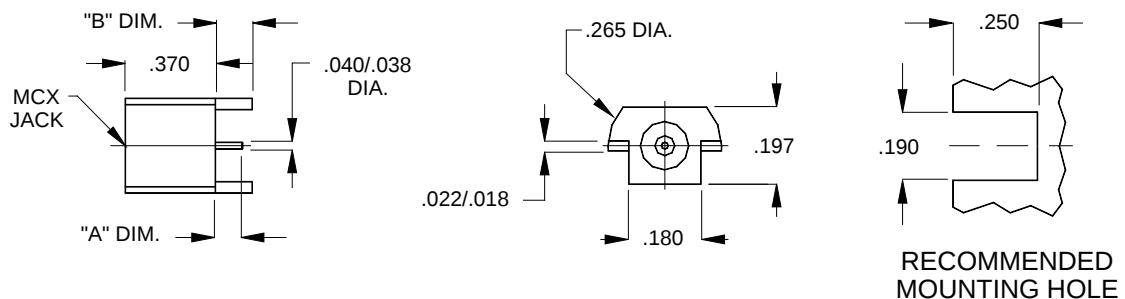
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1521-0031-2401	.390	.400	BRASS	DC - 6.0 GHz.

female, jack, right angle, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1621-0031-2401	.390	.375	BRASS	DC - 6.0 GHz.

female, jack, edge mount

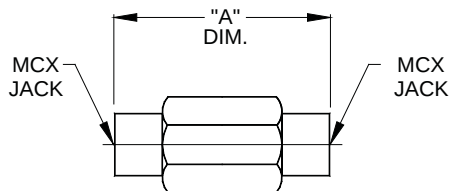


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1620-0031-2401	.120	.120	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

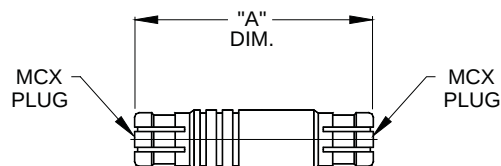
mcX • in-series adapters

female, jack to female, jack, straight



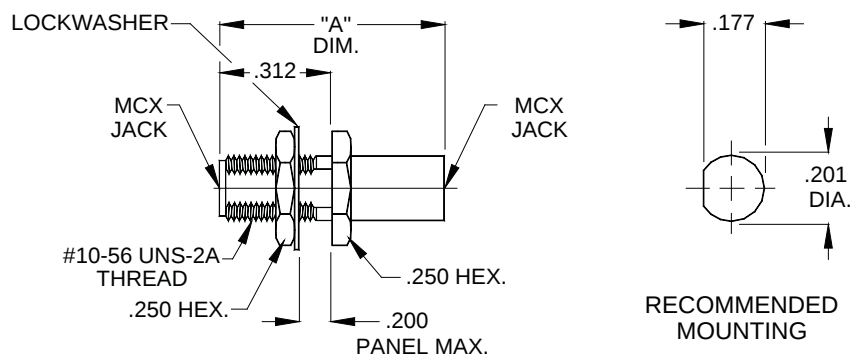
PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-1616-2400	.720	BRASS	DC - 6.0 GHz.

male, plug to male, plug, straight



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-1515-2400	.866	BRASS	DC - 6.0 GHz.
1100-1515-5400	.866	BERYLLIUM COPPER	DC - 6.0 GHz.

female, jack to female, jack, bulkhead mount



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-1616-2400	.720	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice



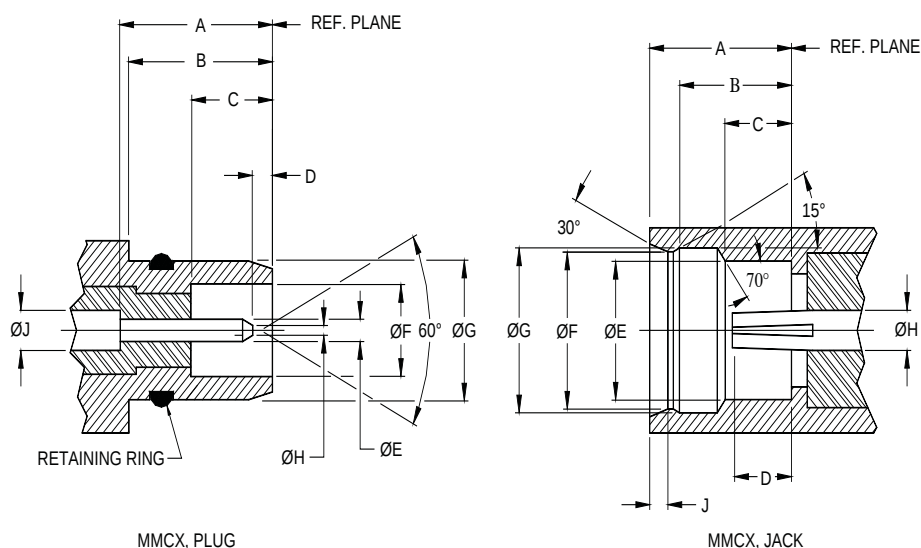
mmcx



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INCORPORATED

mmcx • interface dimensions



Design in accordance with CECC 22000

male, plug

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	-----	-----	.124	3.15
B	.106	2.70	-----	-----
C	.057	1.45	-----	-----
D	.000	0.00	.010	0.25
E	.015	0.38	.017	0.42
F	.062	1.58	.064	1.62
G	-----	-----	.094	2.40
H	-----	-----	.008	0.20
J	.026	0.68	.030	0.76
K	-----	-----	-----	-----
L	-----	-----	-----	-----

female, jack

LTR.	INCHES / MILLIMETERS ³			
	MINIMUM		MAXIMUM	
	IN.	MM.	IN.	MM.
A	.102	2.60	-----	-----
B	.091	2.30	.092	2.34
C	.062	1.58	.064	1.63
D	.035	0.89	.047	1.20
E	.095	2.41	-----	-----
F	.113	2.88	.114	2.90
G	.118	3.00	.120	3.04
H	.026	0.66	.032	0.76
J	-----	-----	.009	0.23
K	-----	-----	-----	-----
L	-----	-----	-----	-----

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .017 / .015 Dia. inches (0.43 / 0.38) Dia. millimeter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given to general information only and are based on 1.0 millimeter=.03937 inchs.
4. These dimensions are subject to change according to the latest revisions of CECC 22000.

Specifications are subject to change without notice

mmcx specifications

The specifications below are general specifications for all MMCX connectors. Specific specifications for VSWR, insertion loss and R.F. leakage for each connector is available from Dynawave upon request. Specifications in the following table are recommended for any procurement documents or drawings

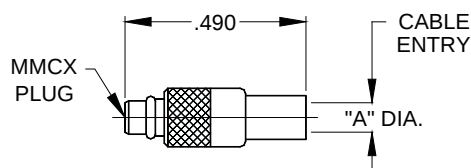
In the event of any conflict between these specifications and General Specification CECC 22220 these specifications shall govern. These specifications are subject to change according to the latest revision of CECC 22220.

REQUIREMENT	SPECIFICATIONS
GENERAL	
Material	Brass per ASTM B16, Temper H02, Alloy C36000. Beryllium copper per ASTM-B196/B, 196M, Copper Alloy TFE Fluorocarbon per ASTM-D-1710, Type 1, Grade 1, Class B. Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore.
Finish	Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ATSM-B-488, Type I, Code C. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table.
Design	The design shall be such that the outline dimensions in this catalog are met. In addition the assembled connector shall meet the interface dimensions.
ELECTRICAL	
Insulation Resistance	The insulation resistance shall not be less than 1,000 megohms
Dielectric Withstanding Voltage	The magnitude of the test voltage shall be 500 volts rms at sea level
RF High Potential Withstanding Voltage	The RF high potential withstanding voltage is 500 volts rms at 5 MHz. Leakage is not applicable.
Contact Resistance	The center contact resistance drop shall not exceed 5.0 milliohms Max. and the outer contact resistance drop shall not exceed 2.5 milliohms.
Voltage Standing Wave Ratio (VSWR)	See applicable connector specifications.
RF Leakage	See applicable connector specifications.
Insertion Loss	See applicable connector specification.
MECHANICAL	
Force to Engage and Disengage	The Engagement force shall not exceed 3.6 pounds. The Disengagement force shall be no greater than 3.5 pounds.
Mating Characteristics	See interface dimensions shown on Page 218. Applicable to Females only: oversize pin .017 minimum diameter .045 deep; Insertion force 3 pounds maximum with .015 minimum diameter pin; withdrawal force 1 ounce minimum with .015 maximum diameter pin.
Connector Durability	The connector to be tested and its mating connector shall be subjected to 500 insertions and withdrawal cycles at 12 cycles per minute maximum. The connector shall show no evidence of mechanical failure and connector shall meet the mating characteristic requirements.
ENVIRONMENTAL	
Vibration	Specification MIL-STD-202, Method 204, Test Condition D.
Thermal Shock	Specification MIL-STD-202, Method 107, Test Condition C.
Corrosion (Salt Spray)	Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five per cent.
Moisture Resistance	Specification MIL-STD-202, Method 106. Step 7b (vibration) shall be omitted. Insulation resistance shall be 200 megohms minimum within 5 minutes of removal from humidity.

Complete specifications on every connector in this catalog are available from Dynawave

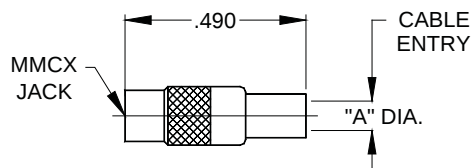
mmcx • semi rigid connectors

male, plug, straight



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2400-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2400-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2400-4720-5400	.051 MIN.	.047 SEMI-RIGID	BERYLLIUM COPPER	DC - 6.0 GHz.
2400-8520-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM COPPER	DC - 6.0 GHz.

female, jack, straight

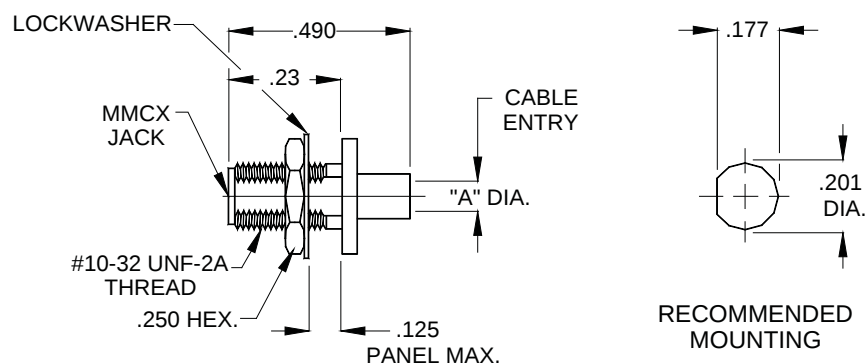


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2500-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2500-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2500-4120-2400	.144 MIN.	RG 402/U (.085)	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

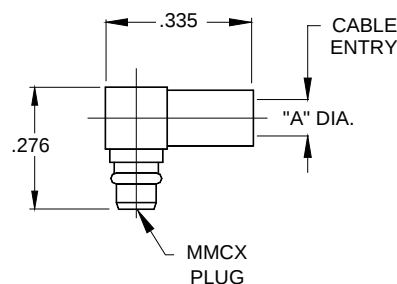
mmcx • semi rigid connectors

female, jack, bulkhead mount



PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2510-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2510-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz.
2510-4720-5400	.051 MIN.	.047 SEMI-RIGID	BERYLLIUM COPPER	DC - 6.0 GHz.
2510-8520-5400	.089 MIN.	RG 405/U (.085)	BERYLLIUM COPPER	DC - 6.0 GHz.

male, plug, right angle

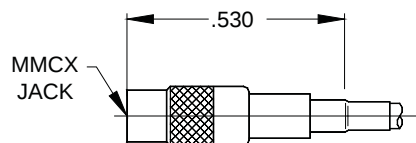


PART NUMBER	"A" DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
2401-4720-2400	.051 MIN.	.047 SEMI-RIGID	BRASS	DC - 6.0 GHz.
2401-8520-2400	.089 MIN.	RG 405/U (.085)	BRASS	DC - 6.0 GHz..

Specifications are subject to change without notice

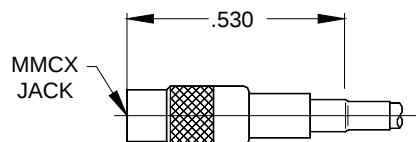
mmcx • flexible cable connectors

female, jack, straight, crimp attachment
rg174/u, 179, 187, 188, 316



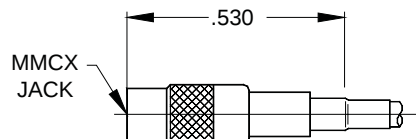
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-1630-2400	BRASS	DC - 3.0 GHz.

female, jack, straight, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-1830-2400	BRASS	DC - 3.0 GHz.

female, jack, straight, crimp attachment
rg178/u, 196

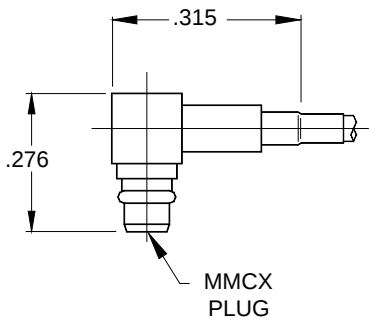


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2500-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

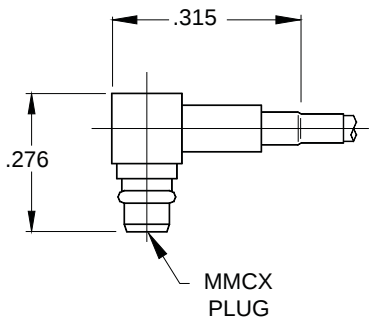
mmcx • flexible cable connectors

male, plug, right angle, crimp attachment
rg174/u, 179, 187, 188, 316



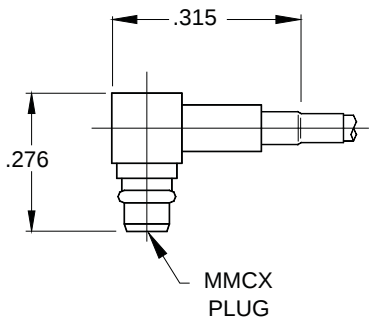
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-1630-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-1830-2400	BRASS	DC - 3.0 GHz.

male, plug, right angle, crimp attachment
rg178/u, 196

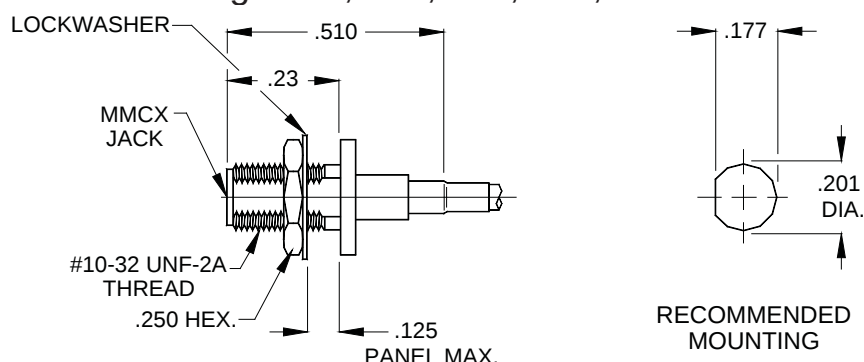


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2401-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without

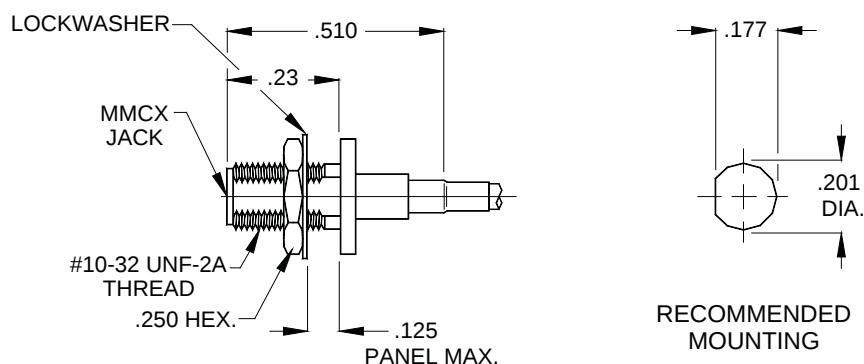
mmcx • flexible cable connectors

female, jack, bulkhead mount, crimp attachment
rg174/u, 179, 187, 188, 316



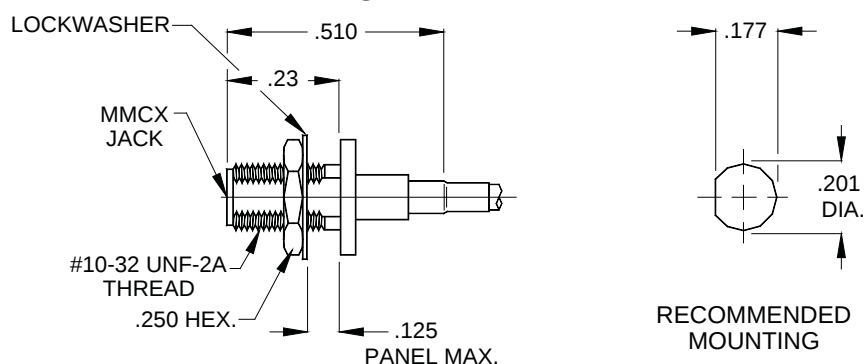
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-1630-2400	BRASS	DC - 3.0 GHz.

female, jack, bulkhead mount, crimp attachment
rg316 double braid



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-1830-2400	BRASS	DC - 3.0 GHz.

female, jack, bulkhead mount, crimp attachment
rg178/u, 196

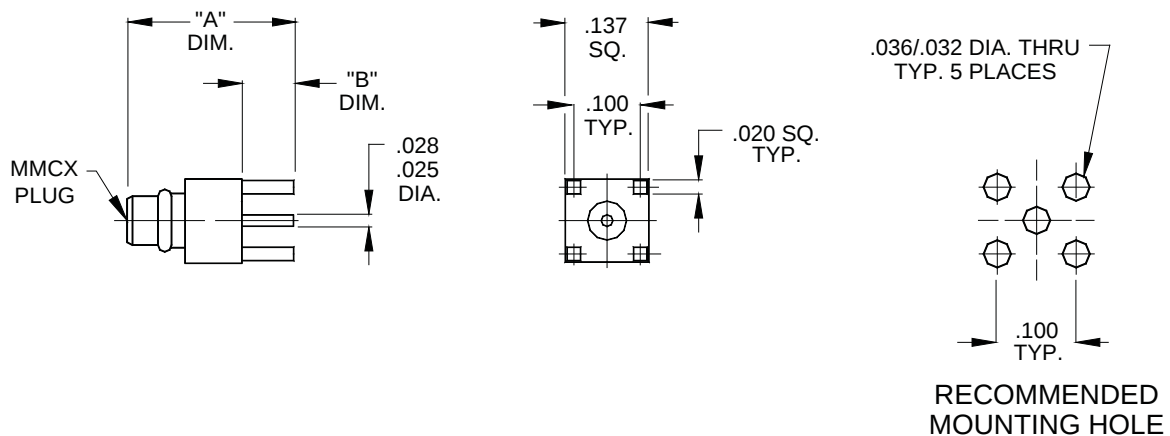


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
2510-7830-2400	BRASS	DC - 3.0 GHz.

Specifications are subject to change without notice

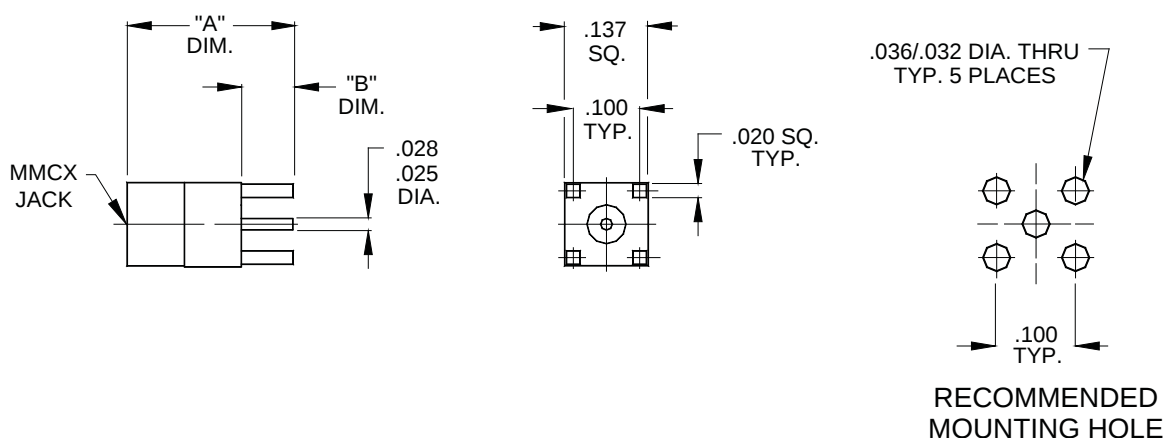
mmcx • printed circuit board

male, plug, straight, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2420-0031-2401	.295	.120	BRASS	DC - 6.0 GHz.
2420-0031-2402	.202	.025	BRASS	DC - 6.0 GHz.

female, jack, straight, 4 post, thru hole

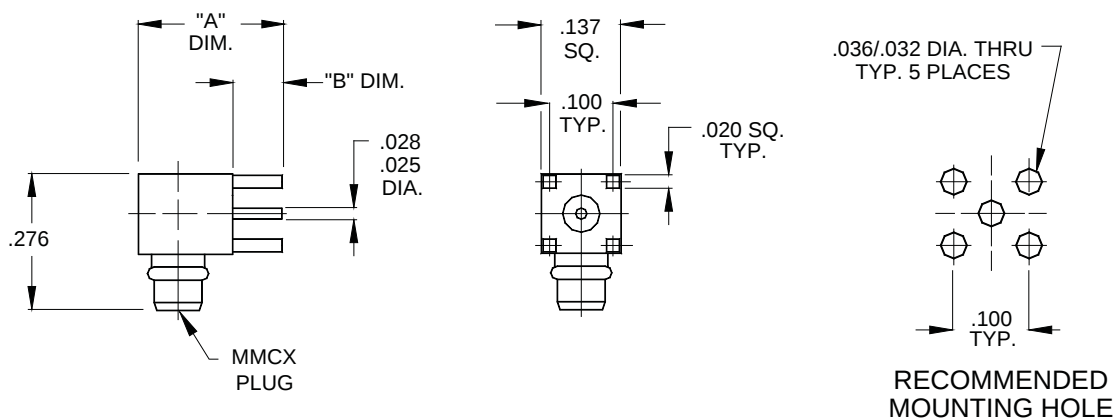


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2520-0031-2401	.295	.120	BRASS	DC - 6.0 GHz.
2520-0031-2402	.202	.025	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

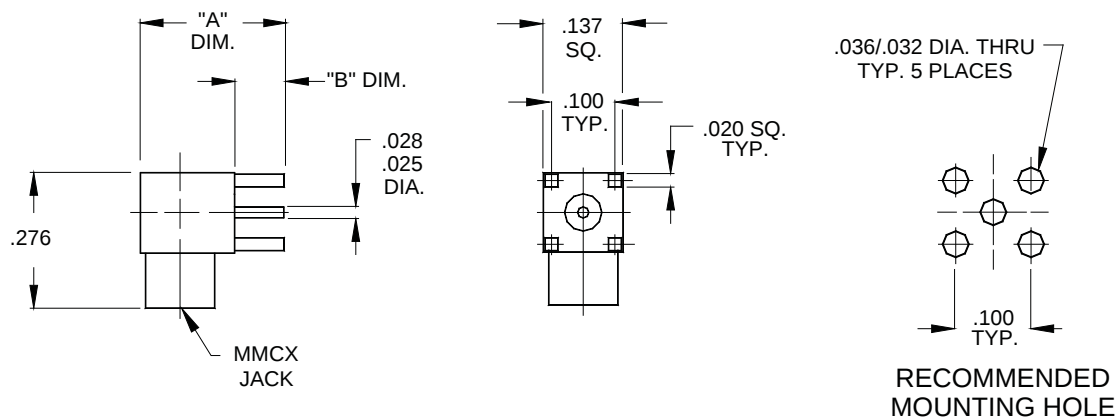
mmcx • printed circuit board

male, plug, right angle, 4 post, thru hole



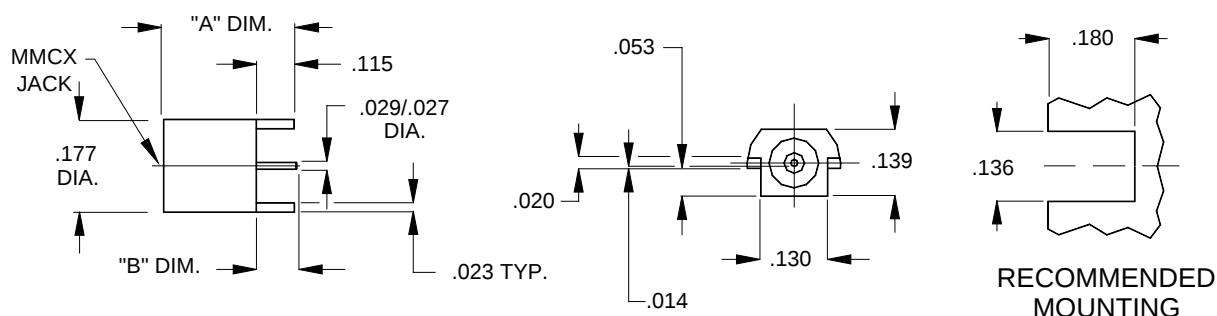
PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2421-0031-2401	.270	.120	BRASS	DC - 6.0 GHz.

female, jack, right angle, 4 post, thru hole



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2521-0031-2401	.270	.120	BRASS	DC - 6.0 GHz.

female, jack, edge mount

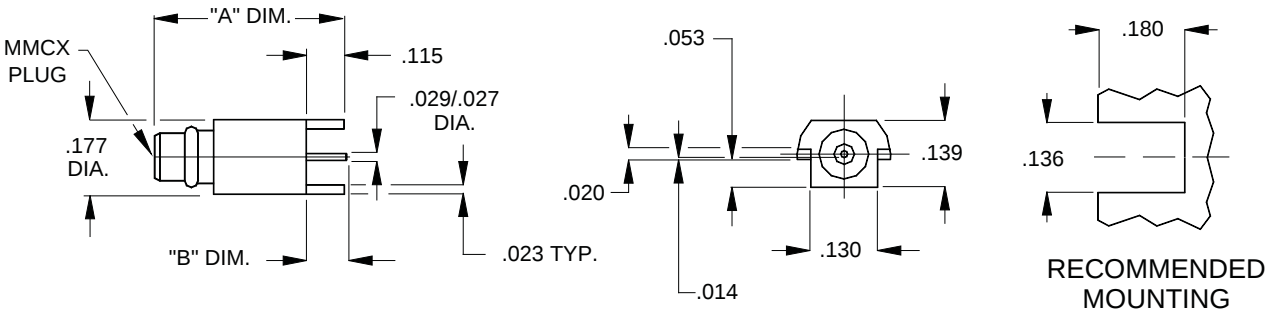


PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2520-0031-2400	.296	.115	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

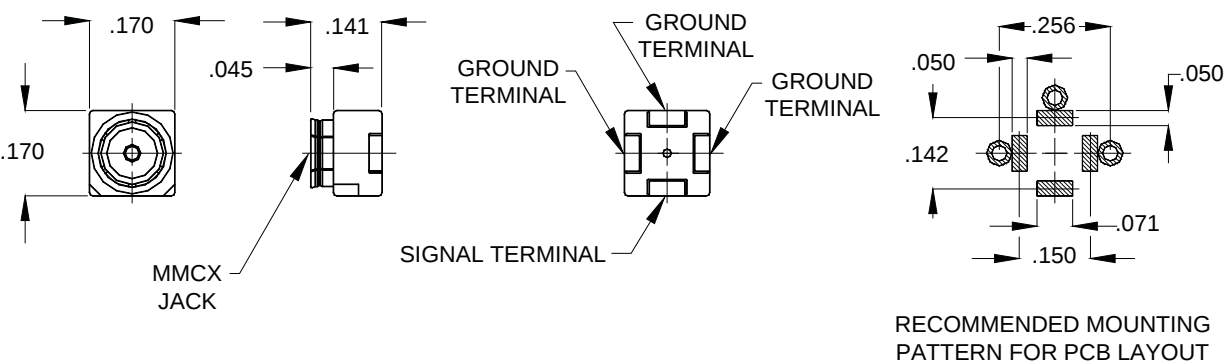
mmcx • printed circuit board

male, plug, edge mount



PART NUMBER	"A" DIM.	"B" DIM.	MATERIAL TYPE	FREQUENCY RANGE
2420-0031-2400	.400	.115	BRASS	DC - 6.0 GHz.

female, jack, surface mount

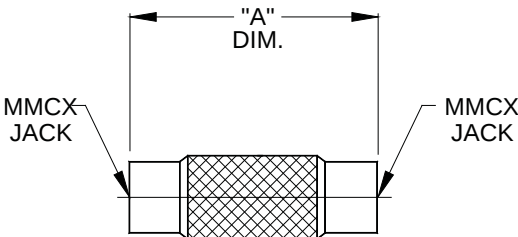


PART NUMBER	FREQUENCY RANGE
2520-0032-5400	DC - 6.0 GHz.

Specifications are subject to change without notice

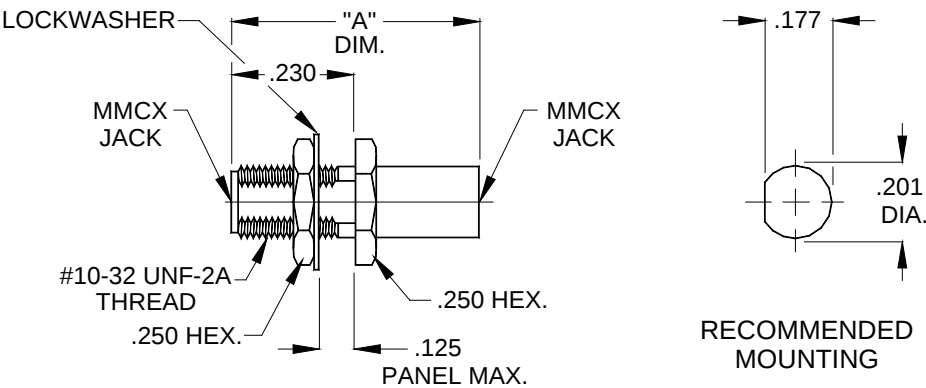
mmcx • in-series adapters

female, jack to female, jack, straight



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1100-2525-2400	.720	BRASS	DC - 6.0 GHz.

female, jack to female, jack, bulkhead mount



PART NUMBER	"A" DIM.	MATERIAL TYPE	FREQUENCY RANGE
1110-2525-2400	.620	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice



non-connector

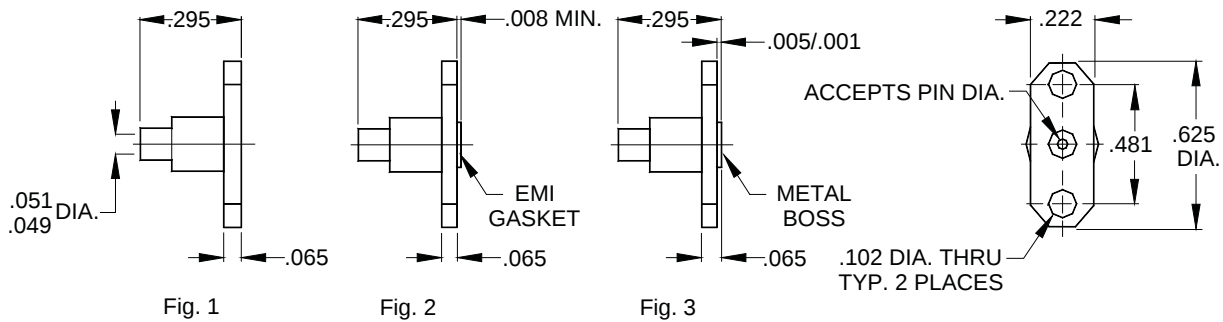


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● non-connector type flange mount ●

.047 semi-rigid cable, 2 hole flange mount

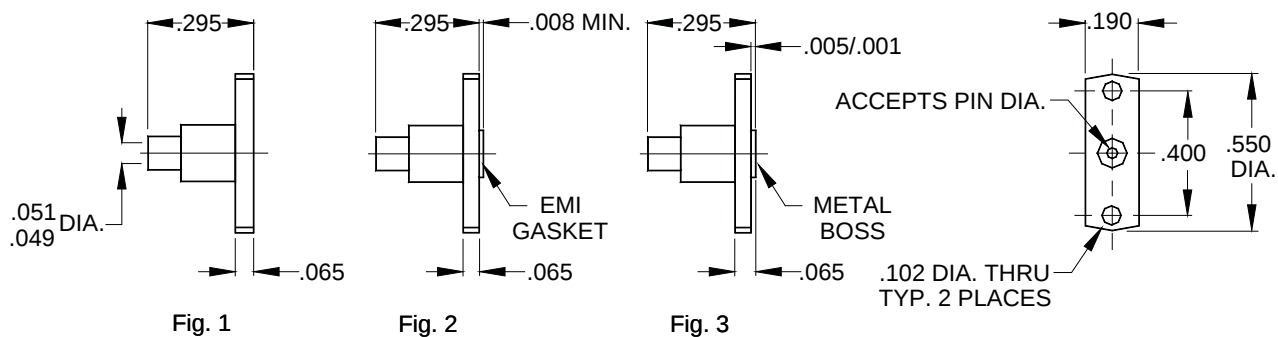


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-4720-2715	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-4727-2715	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-4728-2715	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-4720-2720	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-4727-2720	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-4728-2720	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-4720-6415	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4727-6415	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4728-6415	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4720-6420	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4727-6420	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4728-6420	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.047 semi-rigid cable, 2 hole flange mount

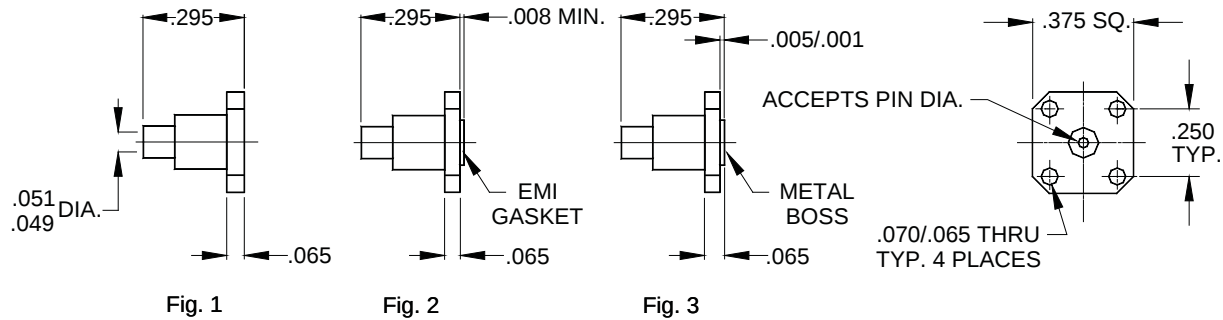


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-4720-2714	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-4727-2714	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-4728-2714	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-4720-2724	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-4727-2724	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-4728-2724	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-4720-6414	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4727-6414	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4728-6414	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4720-6424	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4727-6424	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4728-6424	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.047 semi-rigid cable, .375 sq., 4 hole flange mount

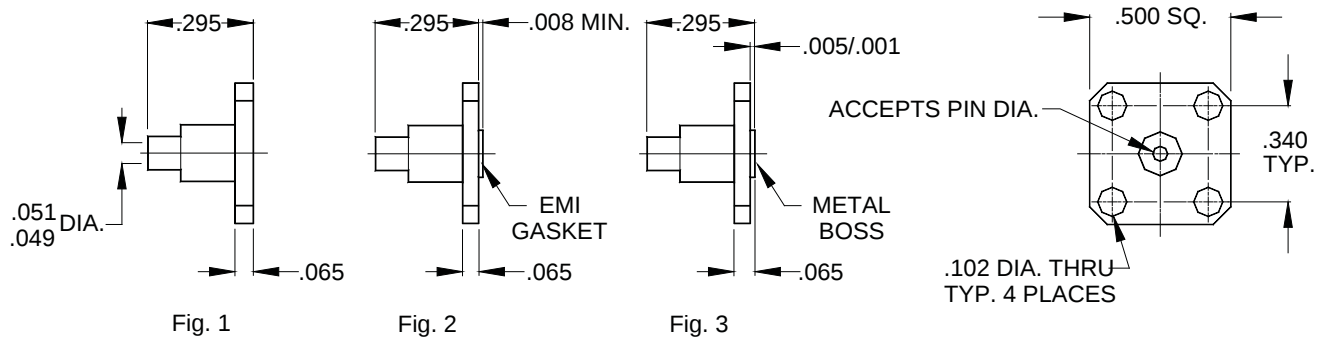


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-4720-2715	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-4727-2715	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-4728-2715	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-4720-2720	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-4727-2720	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-4728-2720	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-4720-6415	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4727-6415	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4728-6415	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4720-6420	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4727-6420	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4728-6420	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.047 semi-rigid cable, .500 sq., 4 hole flange mount

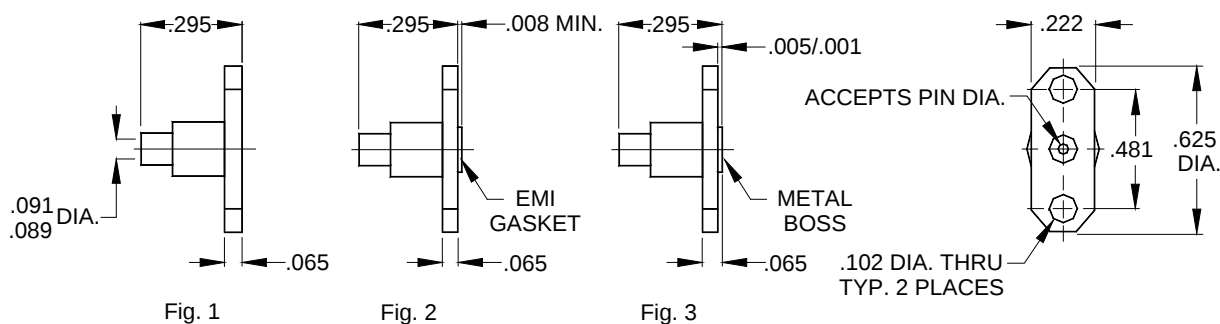


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-4720-2717	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-4727-2717	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-4728-2717	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-4720-2727	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-4727-2727	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-4728-2727	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-4720-6417	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4727-6417	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4728-6417	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4720-6427	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4727-6427	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4728-6427	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.085 semi-rigid cable, 2 hole flange mount

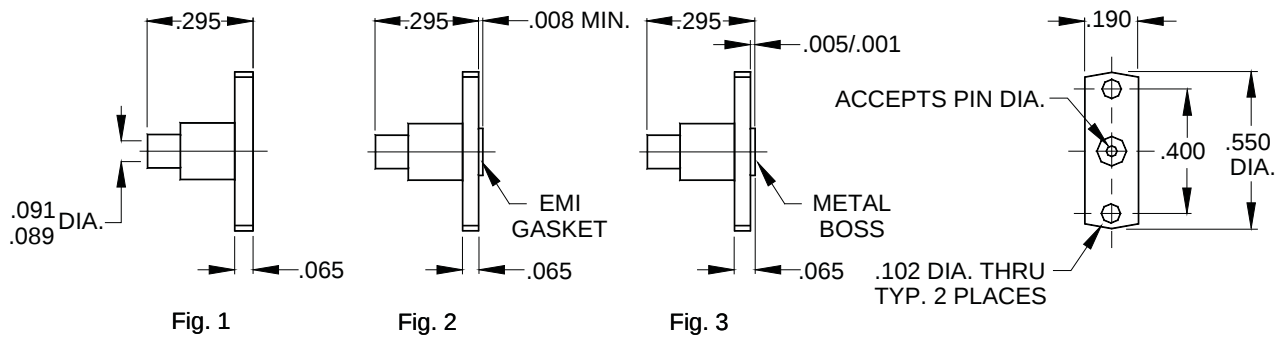


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-8520-2712	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-8527-2712	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-8528-2712	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-8520-2720	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-8527-2720	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-8528-2720	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-8520-6412	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8527-6412	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8528-6412	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8520-6420	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-8527-6420	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-8528-6420	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.085 semi-rigid cable, 2 hole flange mount

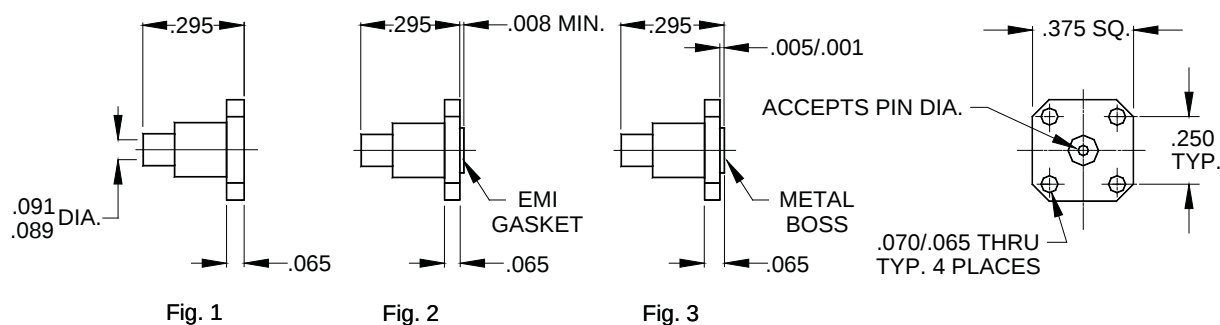


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-8520-2711	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-8527-2711	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-8528-2711	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-8520-2724	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-8527-2724	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-8528-2724	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-8520-6414	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8527-6414	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8528-6414	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-8520-6424	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-8527-6424	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-8528-6424	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.085 semi-rigid cable, .375 sq., 4 hole flange mount

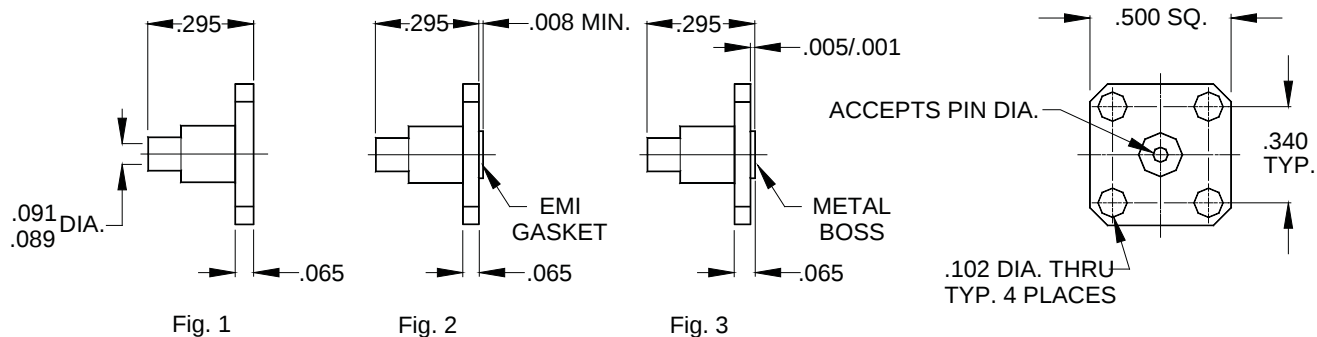


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-8520-2717	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-8527-2717	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-8528-2717	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-8520-2727	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-8527-2727	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-8528-2727	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-8520-6415	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8527-6415	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8528-6415	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8520-6420	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-8527-6420	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-8528-6420	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.085 semi-rigid cable, .500 sq., 4 hole flange mount

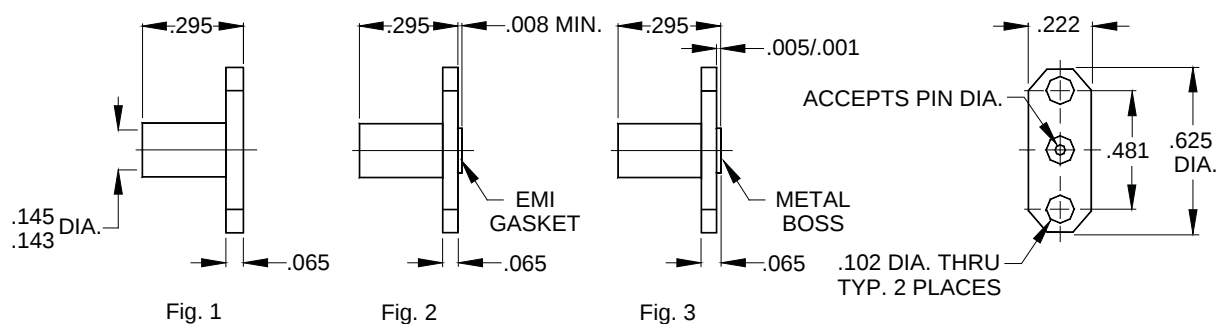


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-8520-2715	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-8527-2715	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-8528-2715	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-8520-2720	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-8527-2720	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-8528-2720	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-8520-6417	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8527-6417	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8528-6417	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-8520-6427	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-8527-6427	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-8528-6427	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.141 semi-rigid cable, 2 hole flange mount

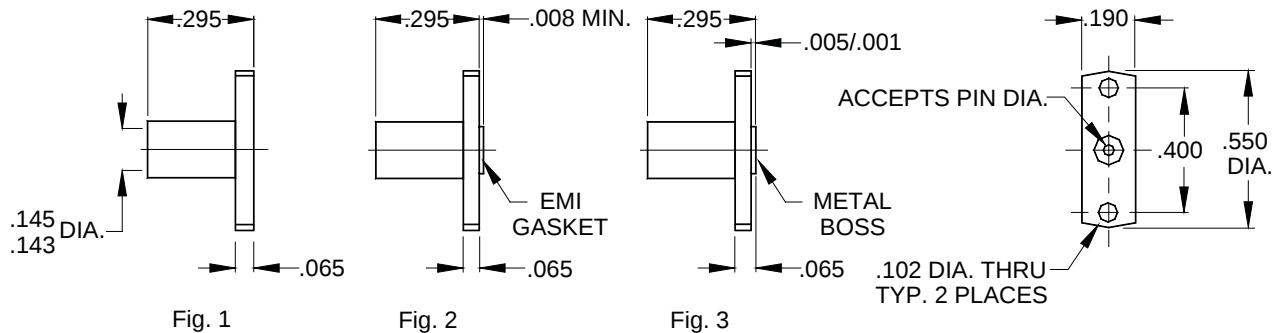


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-4120-2715	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-4127-2715	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-4128-2715	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-4120-2720	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-4127-2720	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-4128-2720	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-4120-6415	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4127-6415	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4128-6415	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4120-6420	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4127-6420	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4128-6420	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.141 semi-rigid cable, 2 hole flange mount

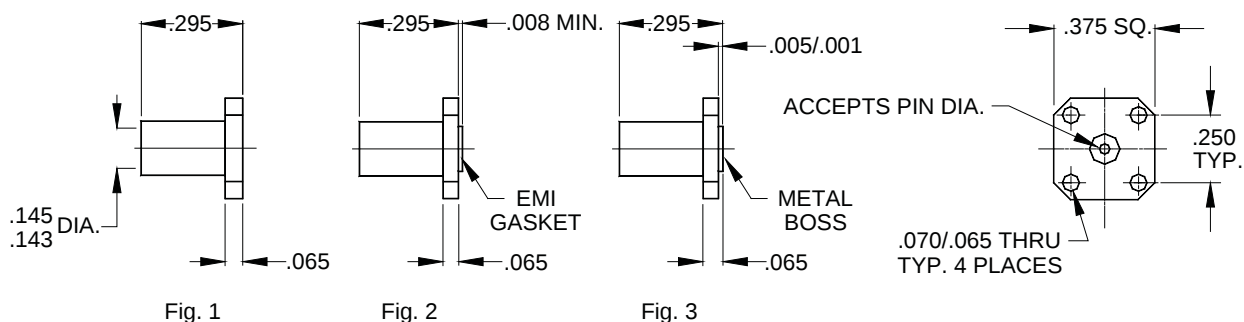


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6952-4120-2714	1	.016/.011	BRASS	DC - 36.0 GHz.
6952-4127-2714	2	.016/.011	BRASS	DC - 36.0 GHz.
6952-4128-2714	3	.016/.011	BRASS	DC - 36.0 GHz.
6952-4120-2724	1	.021/.017	BRASS	DC - 36.0 GHz.
6952-4127-2724	2	.021/.017	BRASS	DC - 36.0 GHz.
6952-4128-2724	3	.021/.017	BRASS	DC - 36.0 GHz.
6952-4120-6414	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4127-6414	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4128-6414	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6952-4120-6424	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4127-6424	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6952-4128-6424	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.141 semi-rigid cable, .375 sq., 4 hole flange mount

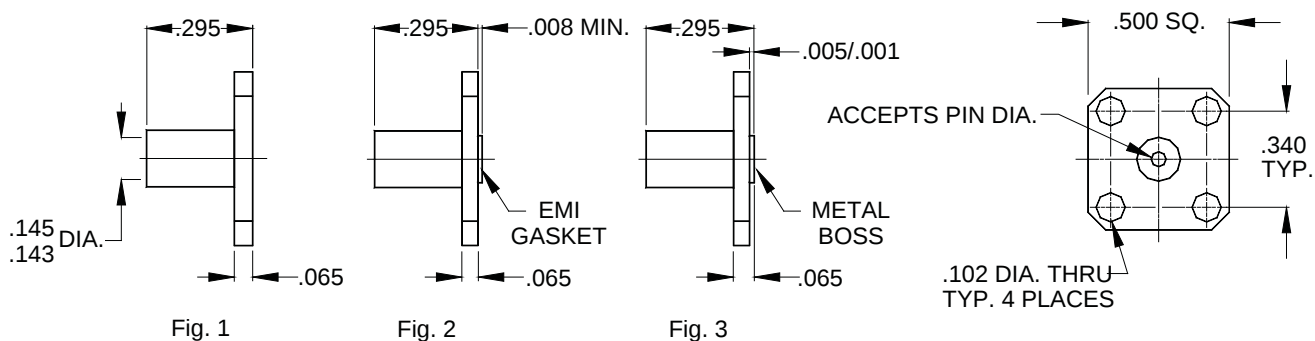


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-4120-2715	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-4127-2715	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-4128-2715	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-4120-2727	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-4127-2727	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-4128-2727	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-4120-6415	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4127-6415	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4128-6415	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4120-6425	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4127-6425	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4128-6425	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

● non-connector type flange mount ●

.141 semi-rigid cable, .500 sq., 4 hole flange mount

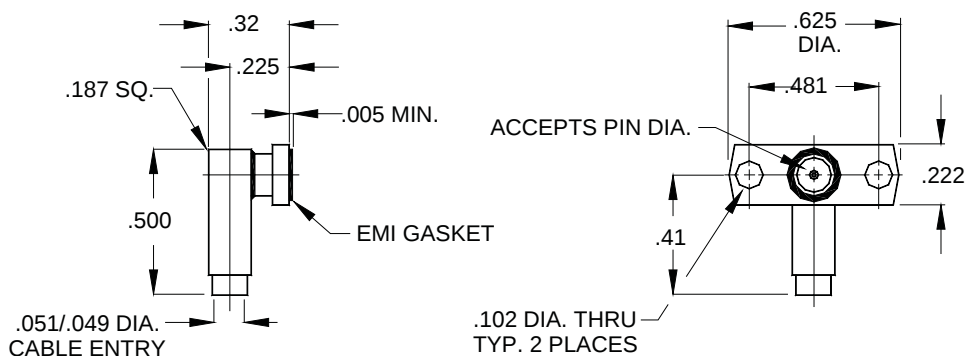


PART NUMBER	Fig.	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6954-4120-2717	1	.016/.011	BRASS	DC - 36.0 GHz.
6954-4127-2717	2	.016/.011	BRASS	DC - 36.0 GHz.
6954-4128-2717	3	.016/.011	BRASS	DC - 36.0 GHz.
6954-4120-2725	1	.021/.017	BRASS	DC - 36.0 GHz.
6954-4127-2725	2	.021/.017	BRASS	DC - 36.0 GHz.
6954-4128-2725	3	.021/.017	BRASS	DC - 36.0 GHz.
6954-4120-6417	1	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4127-6417	2	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4128-6417	3	.016/.011	STAINLESS STEEL	DC - 36.0 GHz.
6954-4120-6427	1	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4127-6427	2	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.
6954-4128-6427	3	.021/.017	STAINLESS STEEL	DC - 36.0 GHz.

Specifications are subject to change without notice

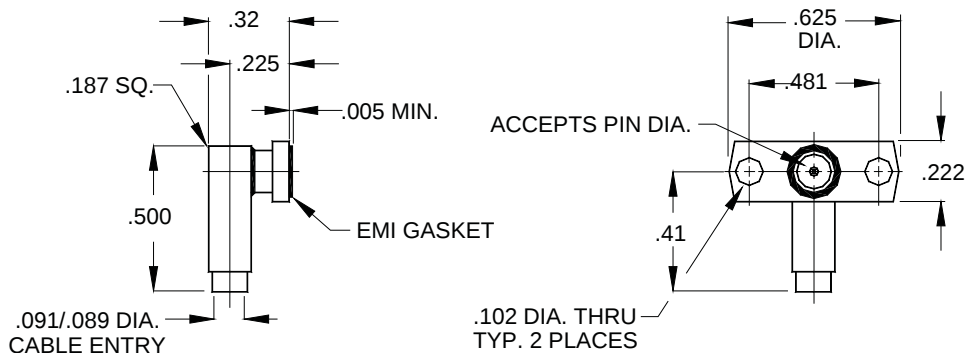
● non-connector type flange mount ●

.047 semi-rigid cable, right angle, 2 hole flange mount



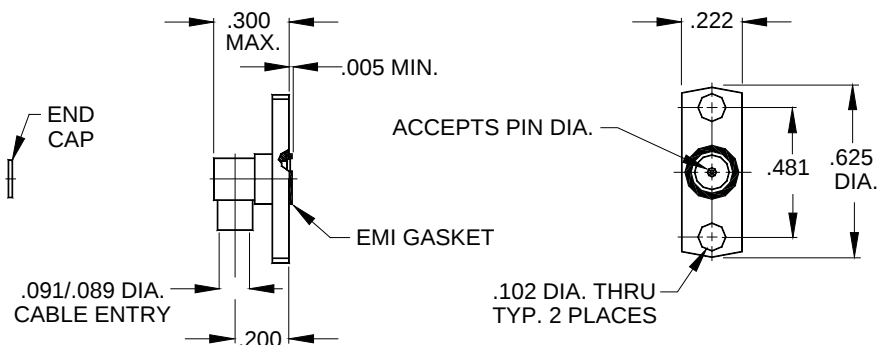
PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6956-4727-2715	.016/.011	BRASS	DC - 34.0 GHz.

.085 semi-rigid cable, right angle, 2 hole flange mount



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6956-8527-2715	.016/.011	BRASS	DC - 34.0 GHz.

.085 semi-rigid cable, right angle, 2 hole rotating, 360° flange mount



PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
6956-8529-6224	.016/.011	STAINLESS STEEL	DC - 12.4 GHz.

Specifications are subject to change without notice

between series adapters

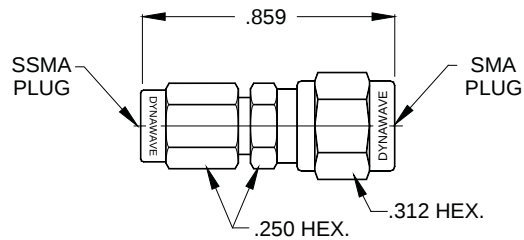


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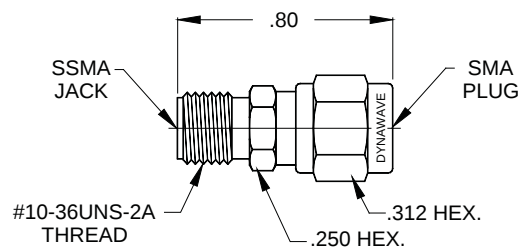
● between series adapters ●

ssma, plug / sma, plug



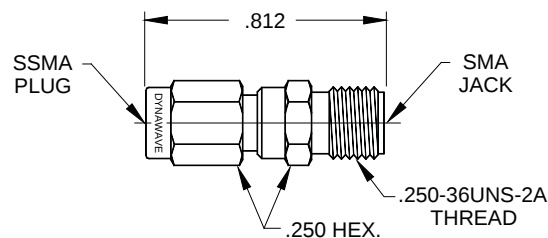
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9298-6250	STAINLESS STEEL	DC - 26.5 GHz.

ssma, jack / sma, plug



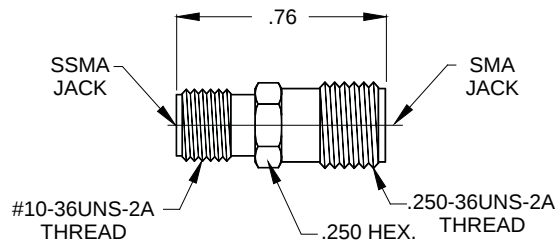
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9398-6250	STAINLESS STEEL	DC - 26.5 GHz.

ssma, plug / sma, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9299-6250	STAINLESS STEEL	DC - 26.5 GHz.

ssma, jack / sma, jack

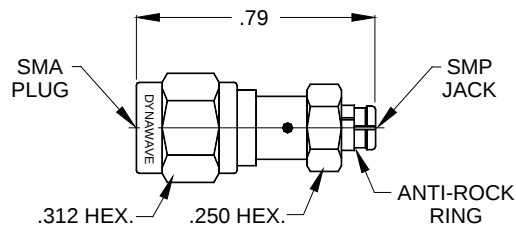


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9399-6250	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

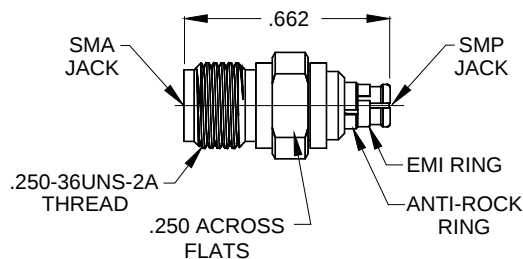
● between series adapters ●

sma, plug / smp, jack



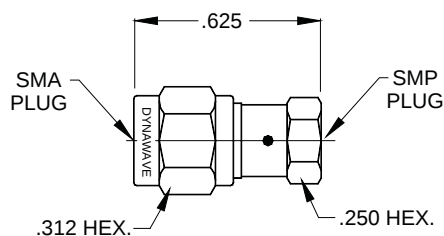
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2098-5450	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / smp, jack



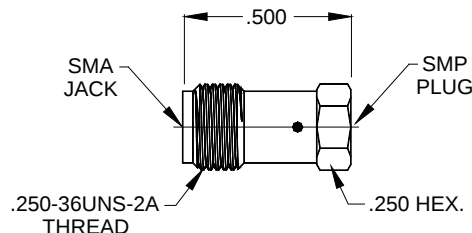
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2099-5425	STAINLESS STEEL	DC - 26.5 GHz.

sma, plug / smp, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2198-6250	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / smp, plug

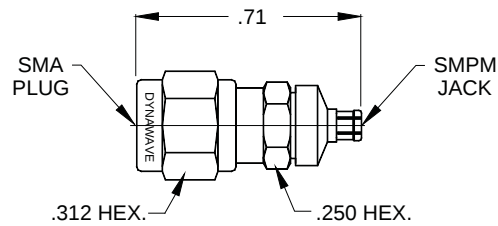


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2199-6250	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

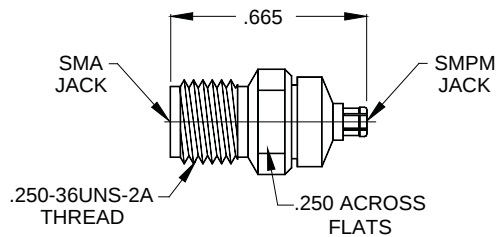
● between series adapters ●

sma, plug / smpm, jack



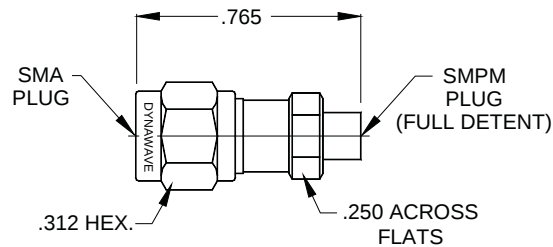
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3098-5450	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / smpm, jack



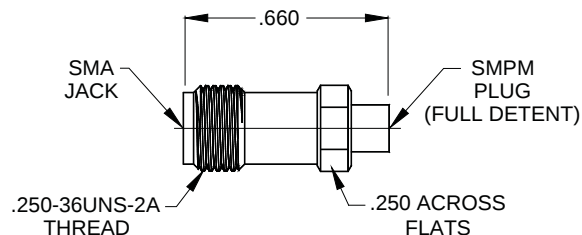
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3099-5450	STAINLESS STEEL	DC - 26.5 GHz.

smp, plug / smpm, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3198-6251	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / smpm, plug

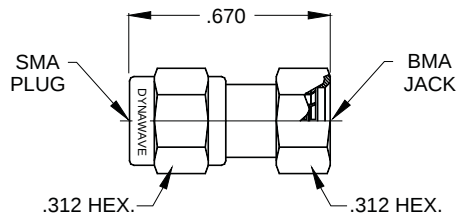


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3199-6250	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

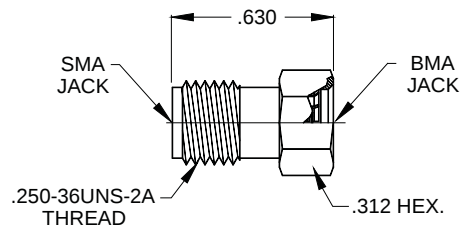
● between series adapters ●

sma, plug / bma, jack



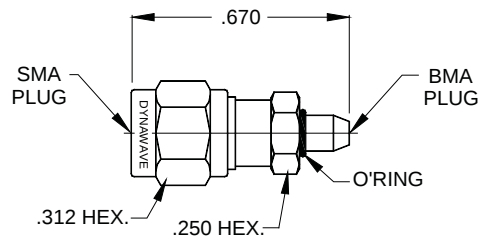
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-6798-6250	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / bma, jack



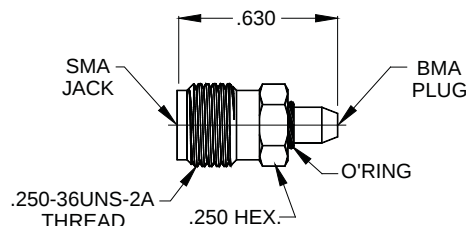
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-6799-6251	STAINLESS STEEL	DC - 26.5 GHz.

sma, plug / bma, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2898-6251	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / bma, plug

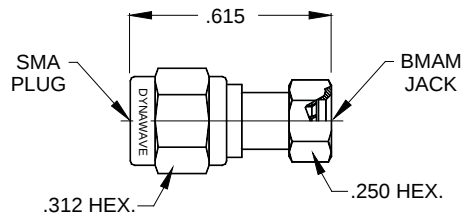


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2899-6253	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

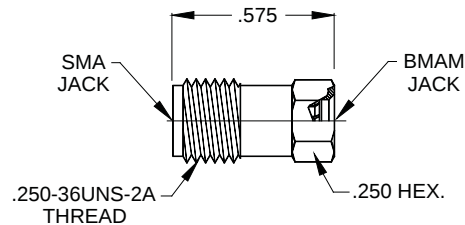
● between series adapters ●

sma, plug / bmam, jack



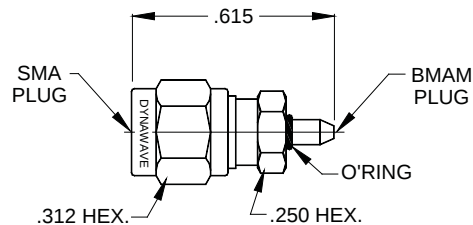
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-6598-6250	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / bmam, jack



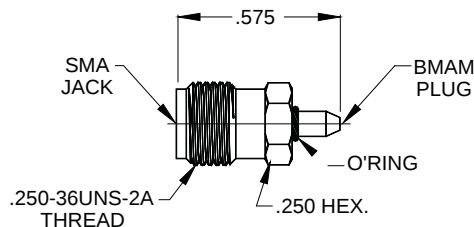
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-6599-6250	STAINLESS STEEL	DC - 26.5 GHz.

sma, plug / bmam, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2698-6251	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / bmam, plug

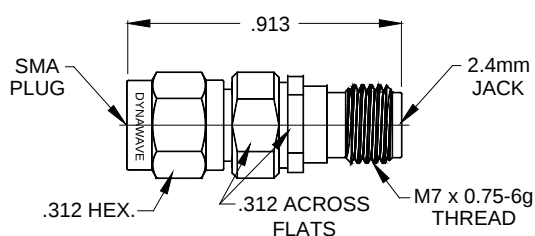


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2699-6250	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

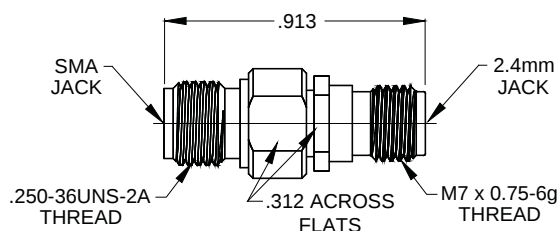
● between series adapters ●

sma, plug / 2.4mm, jack



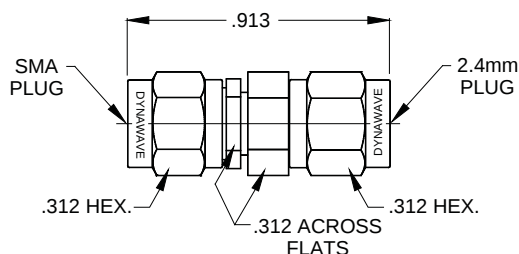
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1398-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / 2.4mm, jack



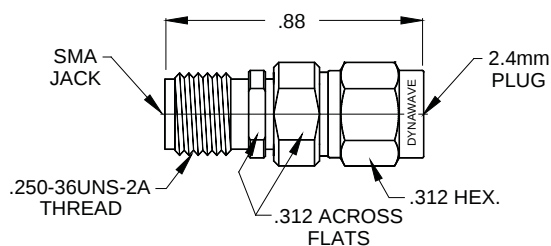
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1399-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, plug / 2.4mm, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1298-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / 2.4mm, plug

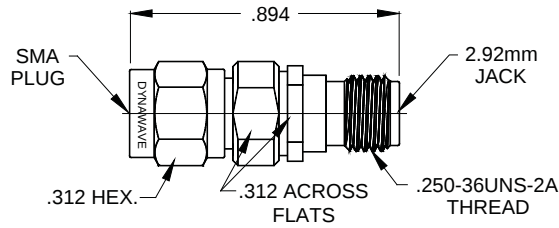


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1299-6200	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

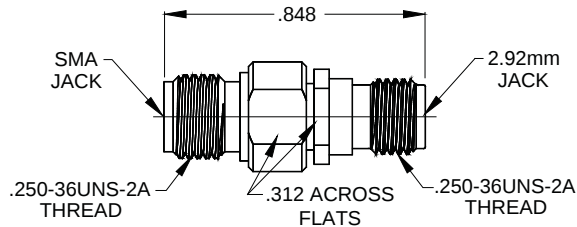
● between series adapters ●

sma, plug / 2.92mm, jack



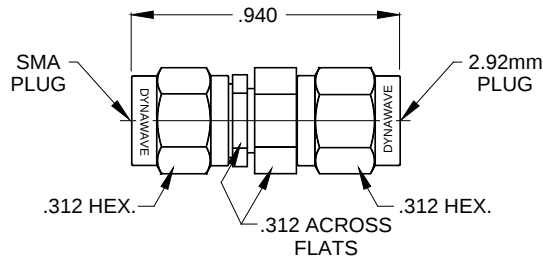
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9598-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / 2.92mm, jack



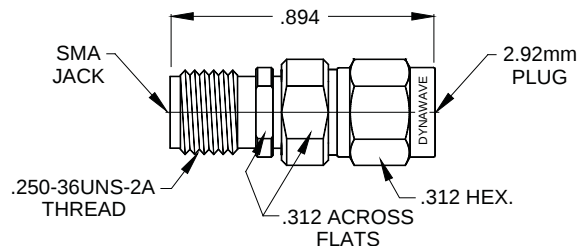
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9599-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, plug / 2.92mm, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9498-6200	STAINLESS STEEL	DC - 26.5 GHz.

sma, jack / 2.92mm, plug

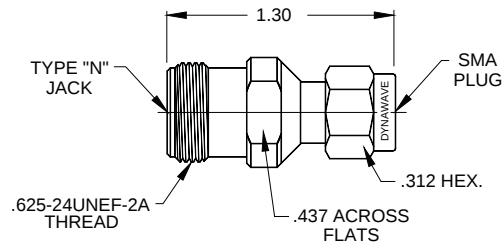


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9499-6200	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

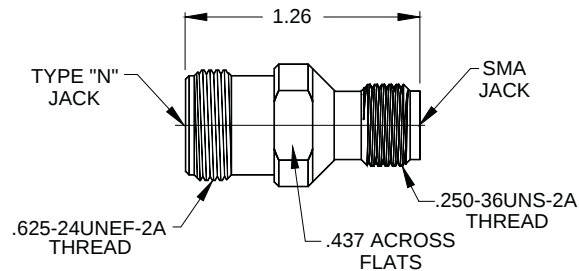
● between series adapters ●

sma, plug / type "n", jack



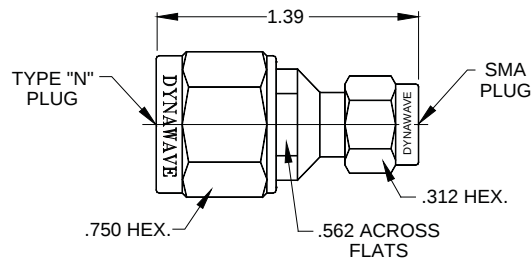
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7598-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, jack / type "n", jack



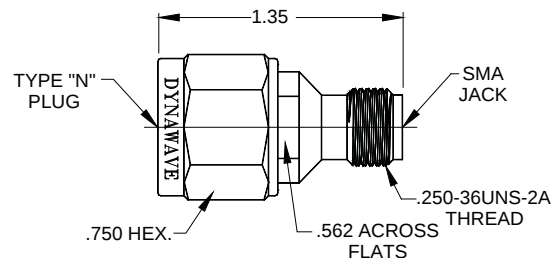
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7599-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, plug / type "n", plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7498-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, jack / type "n", plug

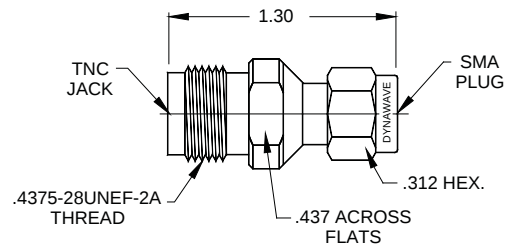


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7499-6200	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

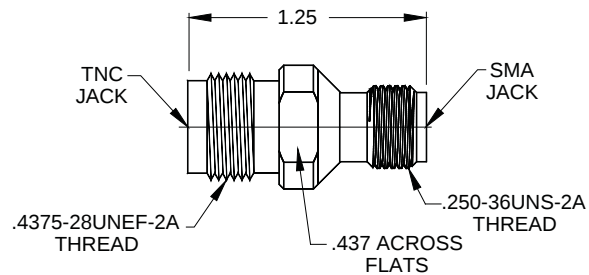
● between series adapters ●

sma, plug / tnc, jack



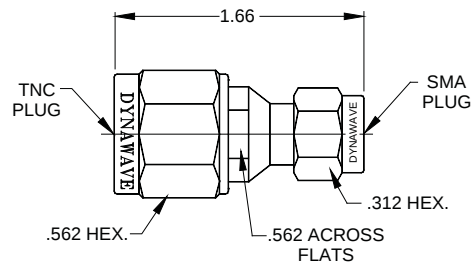
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8598-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, jack / tnc, jack



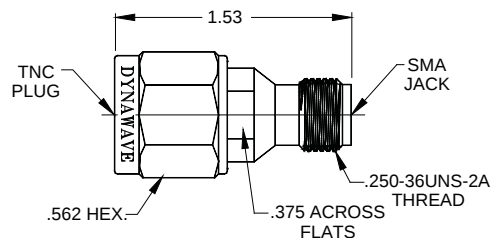
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8599-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, plug / tnc, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8498-6251	STAINLESS STEEL	DC - 18.0 GHz.

sma, jack / tnc, plug

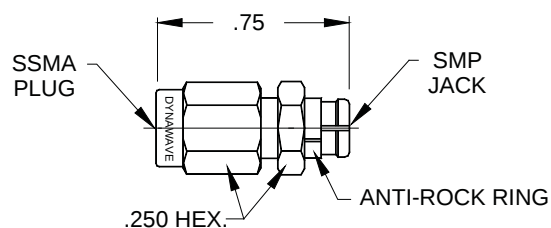


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-8499-6200	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

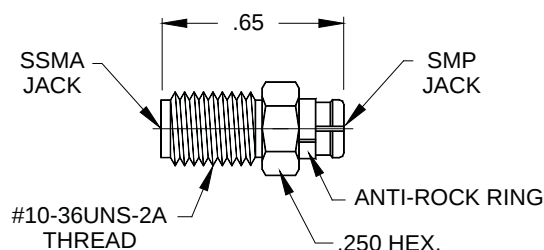
● between series adapters ●

smp, jack / ssma, plug



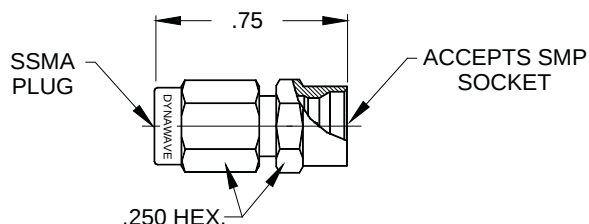
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2092-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 26.5 GHz.

smp, jack / ssma, jack



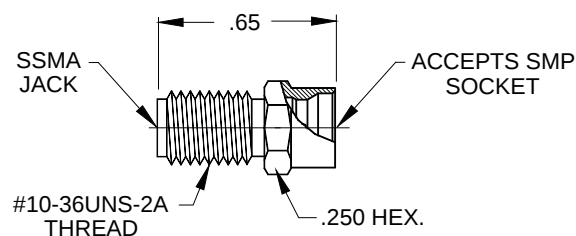
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2093-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 26.5 GHz.

smp, plug / ssma, plug



PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2192-6250	STAINLESS STEEL	FULL DETENT	DC - 26.5 GHz.

smp, plug / ssma, jack

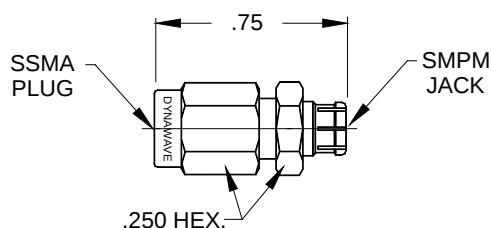


PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2193-6250	STAINLESS STEEL	FULL DETENT	DC - 26.5 GHz.

Specifications are subject to change without notice

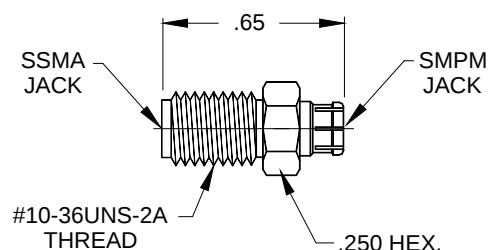
● between series adapters ●

smpm, jack / ssma, plug



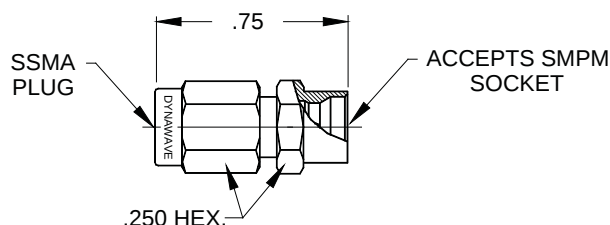
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3092-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 26.5 GHz.

smpm, jack / ssma, jack



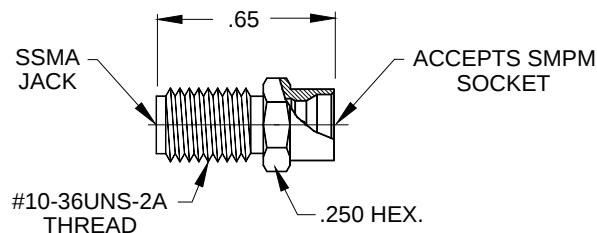
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-3093-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 26.5 GHz.

smpm, plug / ssma, plug



PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-3192-6250	STAINLESS STEEL	FULL DETENT	DC - 26.5 GHz.

smpm, plug / ssma, jack

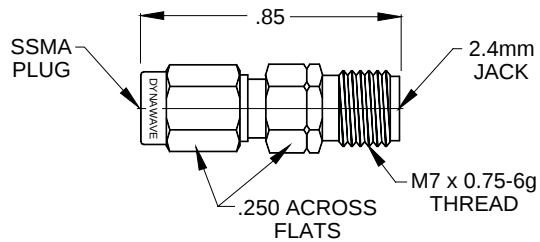


PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-3193-6250	STAINLESS STEEL	FULL DETENT	DC - 26.5 GHz.

Specifications are subject to change without notice

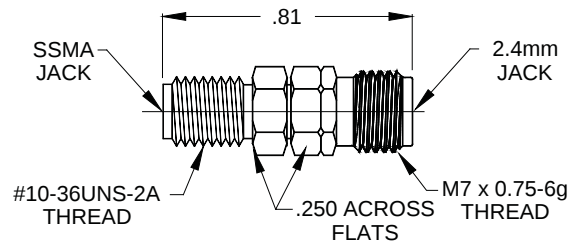
● between series adapters ●

2.4mm, jack / ssma, plug



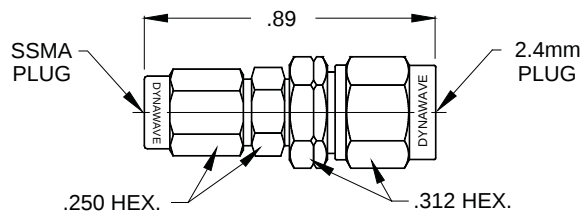
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1392-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.4mm, jack / ssma, jack



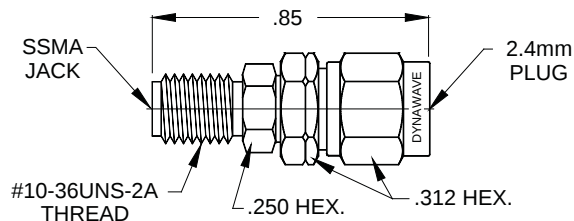
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1393-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.4mm, plug / ssma, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1292-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.4mm, plug / ssma, jack

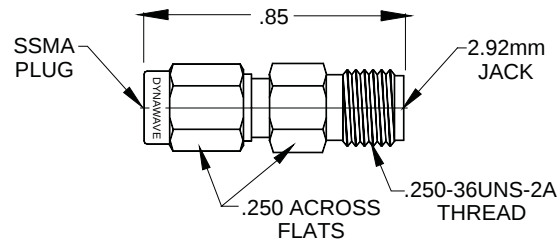


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1293-6250	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

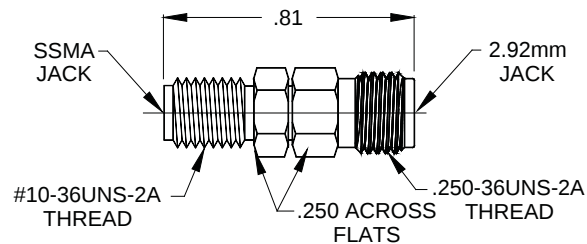
● between series adapters ●

2.92mm, jack / ssma, plug



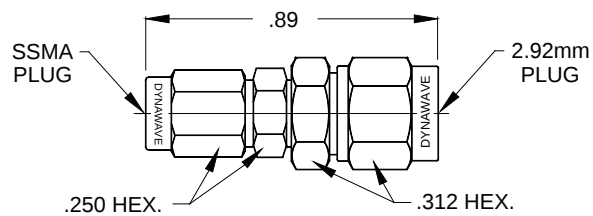
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9295-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.92mm, jack / ssma, jack



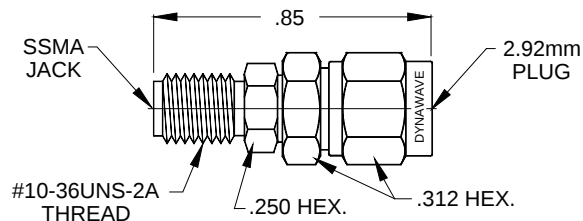
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9395-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.92mm, plug / ssma, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9294-6250	STAINLESS STEEL	DC - 38.0 GHz.

2.92mm, plug / ssma, jack

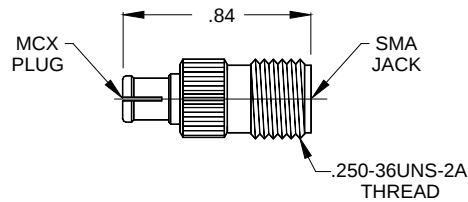


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-9394-6250	STAINLESS STEEL	DC - 38.0 GHz.

Specifications are subject to change without notice

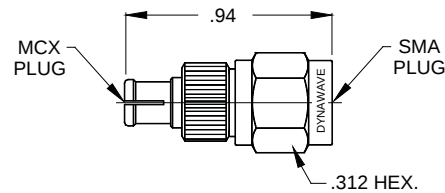
● between series adapters ●

mcx, plug / sma, jack



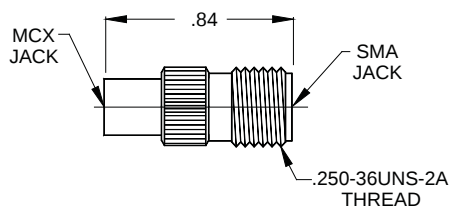
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1599-2450	BRASS	DC - 6.0 GHz.

mcx, plug / sma, plug



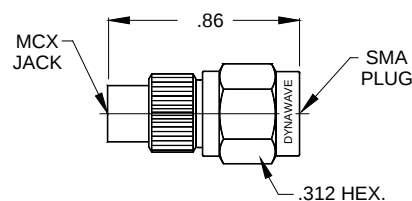
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1598-2450	BRASS	DC - 6.0 GHz.

mcx, jack / sma, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1699-2450	BRASS	DC - 6.0 GHz.

mcx, jack / sma, plug

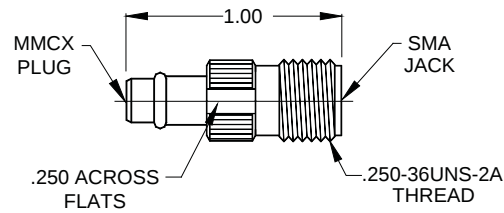


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1698-2450	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

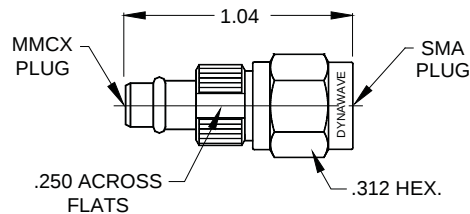
● between series adapters ●

mmc, plug / sma, jack



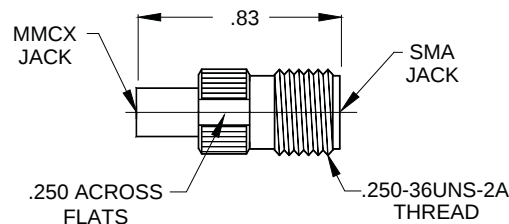
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2499-6250	BRASS	DC - 6.0 GHz.

mmc, plug / sma, plug



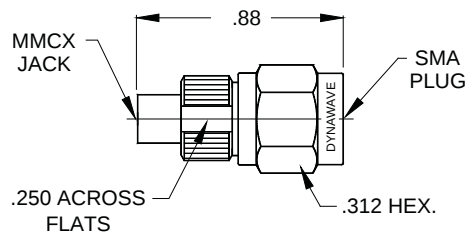
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2498-6250	BRASS	DC - 6.0 GHz.

mmc, jack / sma, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2599-6250	BRASS	DC - 6.0 GHz.

mmc, jack / sma, plug

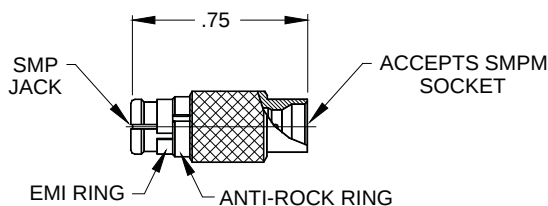


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2598-6250	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

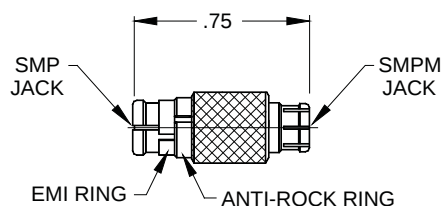
● between series adapters ●

smp, jack / smpm, plug



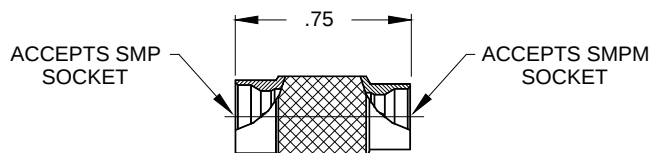
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2031-5450	BERYLLIUM COPPER	DC - 40.0 GHz.

smp, jack / smpm, jack



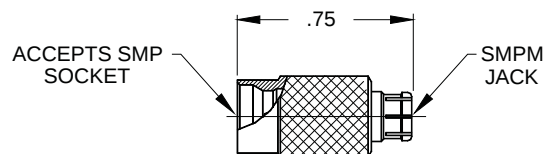
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2030-5450	BERYLLIUM COPPER	DC - 40.0 GHz.

smp, plug / smpm, plug



PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2131-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

smp, plug / smpm, jack

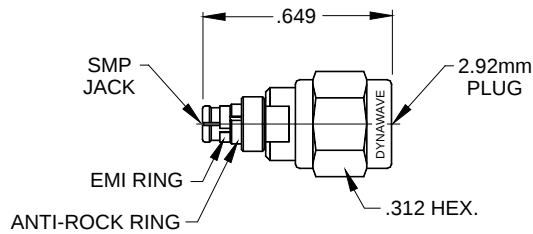


PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2130-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

Specifications are subject to change without notice

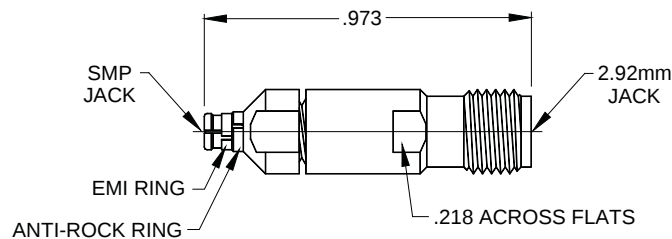
● between series adapters ●

smp, jack / 2.92mm, plug



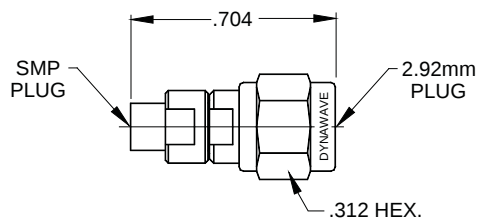
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2094-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 40.0 GHz.

smp, jack / 2.92mm, jack



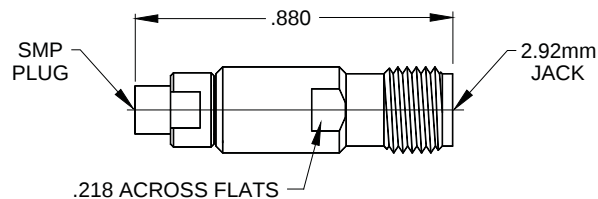
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2095-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 40.0 GHz.

smp, plug / 2.92mm, plug



PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2194-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

smp, plug / 2.92mm, jack

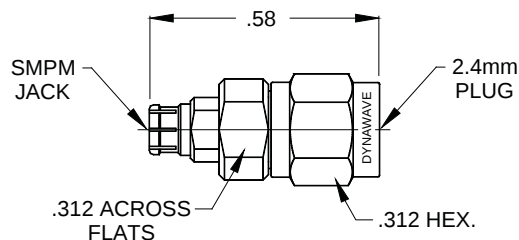


PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-2195-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

Specifications are subject to change without notice

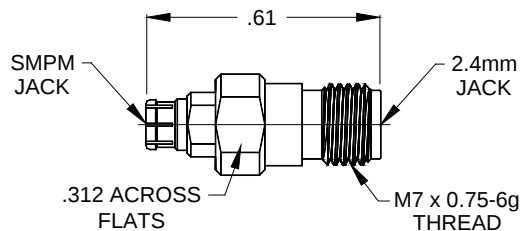
● between series adapters ●

smpm, jack / 2.4mm, plug



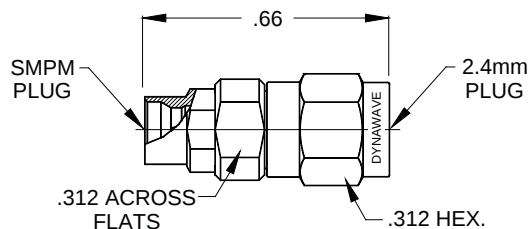
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1230-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 40.0 GHz.

smpm, jack / 2.4mm, jack



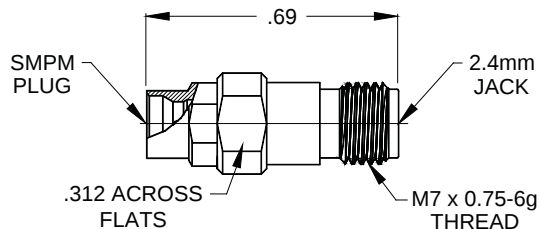
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1330-5450	BERYLLIUM COPPER / STAINLESS STEEL	DC - 40.0 GHz.

smpm, plug / 2.4mm, plug



PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-1231-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

smpm, plug / 2.4mm, jack

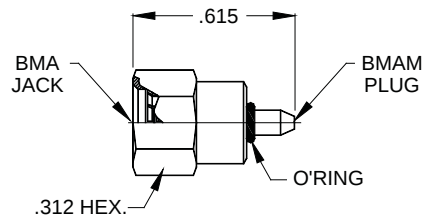


PART NUMBER	MATERIAL TYPE	ENGAGEMENT TYPE	FREQUENCY RANGE
1100-1331-6250	STAINLESS STEEL	FULL DETENT	DC - 40.0 GHz.

Specifications are subject to change without notice

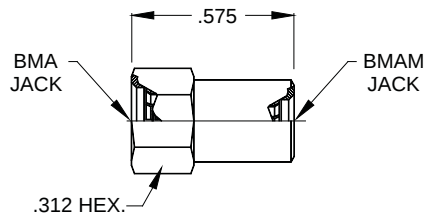
● between series adapters ●

bma, jack / bmam, plug



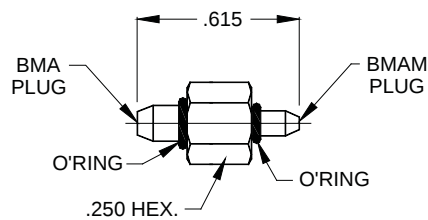
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2667-6250	STAINLESS STEEL	DC - 26.5 GHz.

bma, jack / bmam, jack



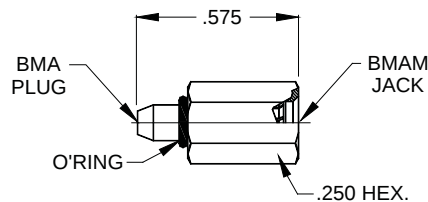
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-6567-6250	STAINLESS STEEL	DC - 26.5 GHz.

bma, plug / bmam, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2628-6251	STAINLESS STEEL	DC - 26.5 GHz.

bma, plug / bmam, jack

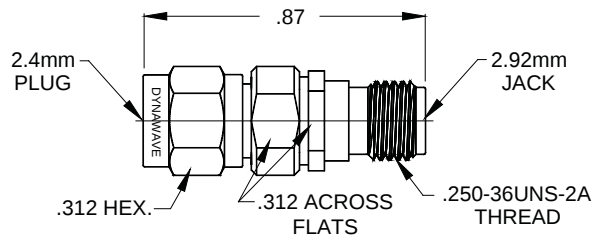


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-2865-6250	STAINLESS STEEL	DC - 26.5 GHz.

Specifications are subject to change without notice

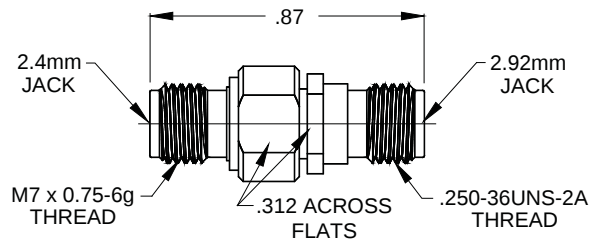
● between series adapters ●

2.4mm, plug / 2.92mm, jack



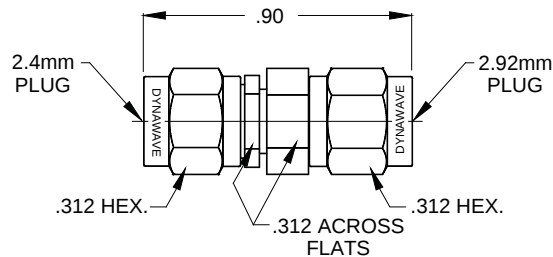
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1295-6250	STAINLESS STEEL	DC - 40.0 GHz.

2.4mm, jack / 2.92mm, jack



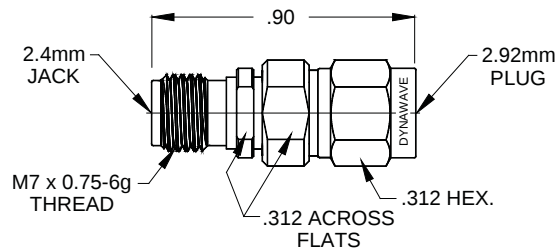
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1395-6250	STAINLESS STEEL	DC - 40.0 GHz.

2.4mm, plug / 2.92mm, plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1294-6250	STAINLESS STEEL	DC - 40.0 GHz.

2.4mm, jack / 2.92mm, plug

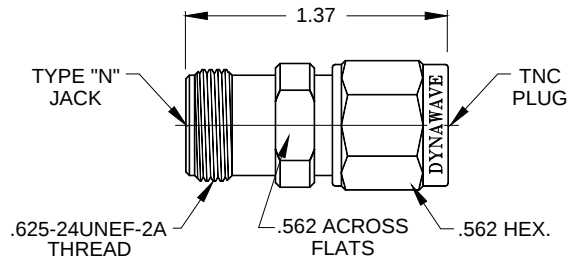


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1394-6200	STAINLESS STEEL	DC - 40.0 GHz.

Specifications are subject to change without notice

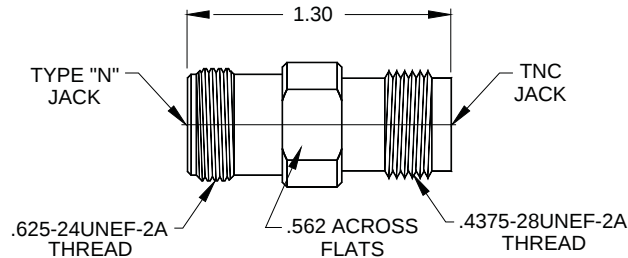
● between series adapters ●

tnc, plug / type "n", jack



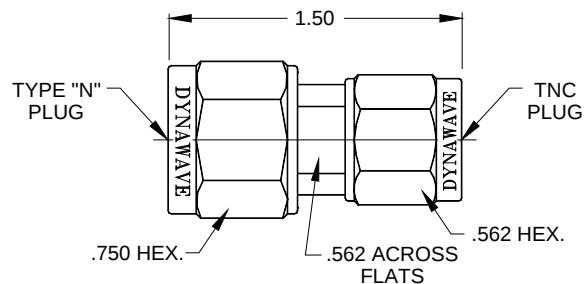
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7584-6250	STAINLESS STEEL	DC - 18.0 GHz.

tnc, jack / type "n", jack



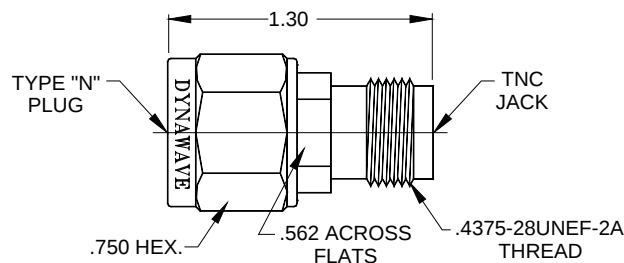
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7585-6250	STAINLESS STEEL	DC - 18.0 GHz.

tnc, plug / type "n", plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7484-6250	STAINLESS STEEL	DC - 18.0 GHz.

tnc, jack / type "n", plug

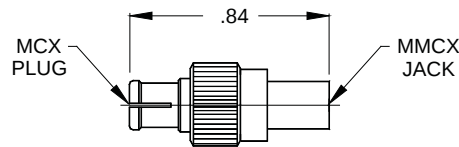


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7485-6250	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

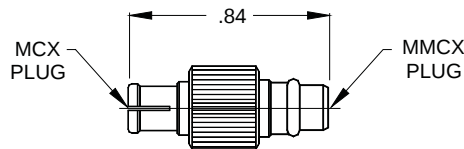
● between series adapters ●

mcx, plug / mmc, jack



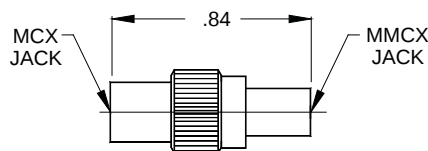
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1525-2450	BRASS	DC - 6.0 GHz.

mcx, plug / mmc, plug



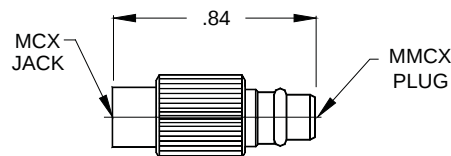
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1524-2450	BRASS	DC - 6.0 GHz.

mcx, jack / mmc, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1625-2450	BRASS	DC - 6.0 GHz.

mcx, jack / mmc, plug

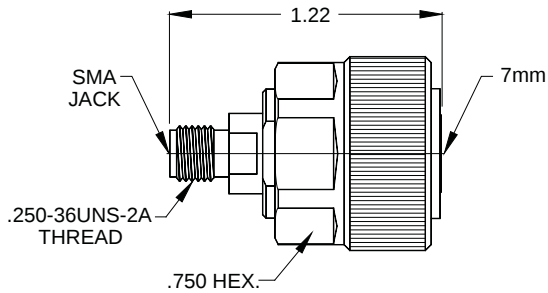


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-1624-2450	BRASS	DC - 6.0 GHz.

Specifications are subject to change without notice

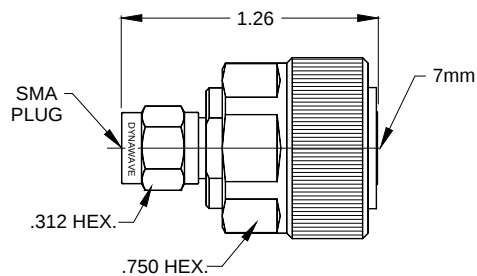
● between series adapters ●

7mm / sma, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4499-6200	STAINLESS STEEL	DC - 18.0 GHz.

7mm / sma, plug

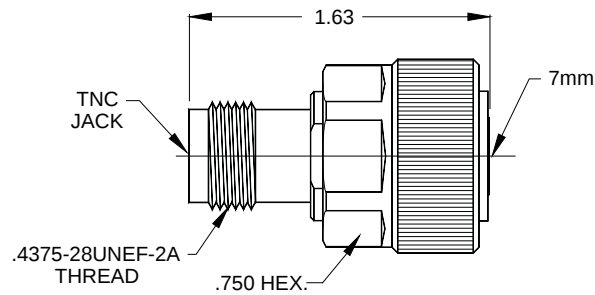


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4498-6200	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

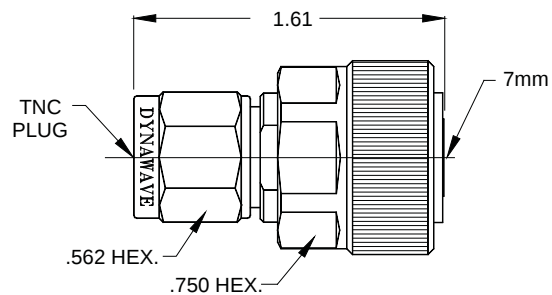
● between series adapters ●

7mm / tnc, jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4485-6200	STAINLESS STEEL	DC - 18.0 GHz.

7mm / tnc, plug

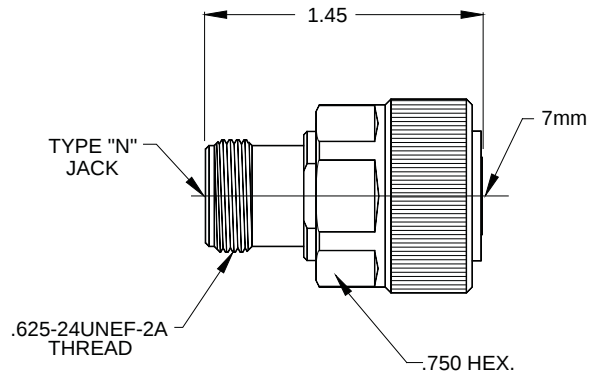


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4484-6200	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

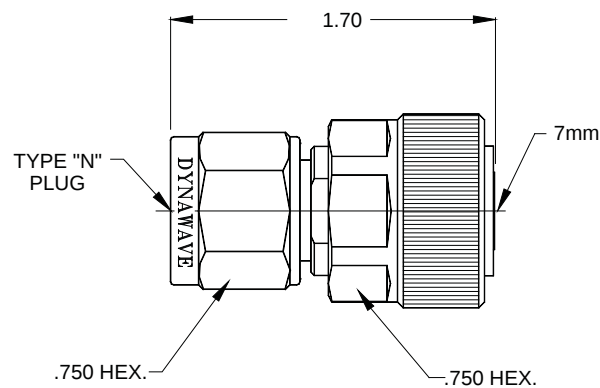
● between series adapters ●

7mm / type "n", plug



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4475-6200	STAINLESS STEEL	DC - 18.0 GHz.

7mm / type "n", jack



PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-4474-6200	STAINLESS STEEL	DC - 18.0 GHz.

Specifications are subject to change without notice

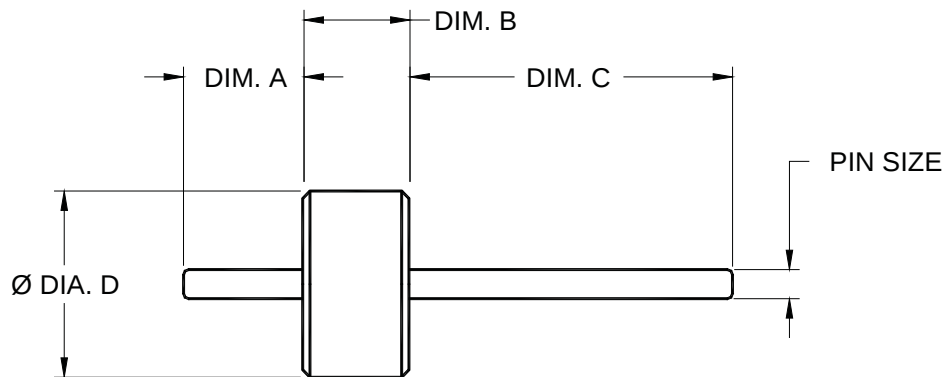
accessories



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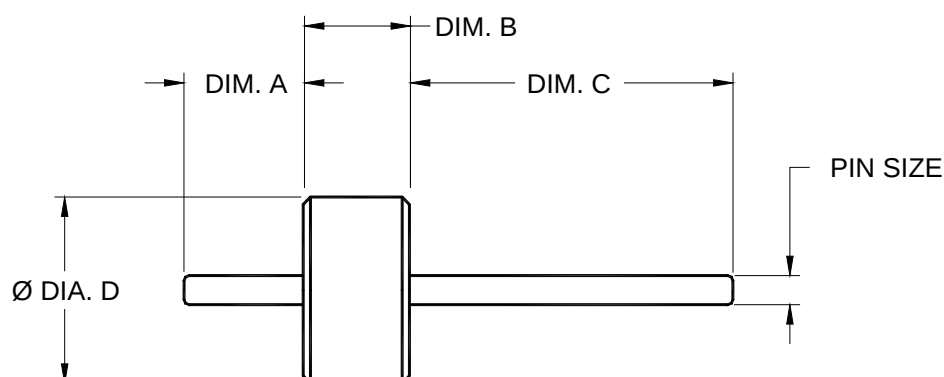
● 50 ohm glass feedthrough ●



PART NUMBER	DIM."A"	DIM."B"	DIM."C"	DIA."D"	PIN SIZE	FREQUENCY RANGE
455-02-062	.040/.037	.061/.059	.094/.076	.063/.061	.009	50.0 GHZ.
455-02-1011	.030/.025	.071/.069	.100/.095	.078/.075	.011	50.0 GHZ.
455-02-811	.058/.048	.132/.122	.025/.015	.0775/.0745	.011	50.0 GHZ.
455-02-012	.080/.065	.065/.060	.190/.170	.100/.097	.012	46.0 GHZ.
455-02-042	.060/.050	.071/.067	.190/.170	.078/.075	.012	49.0 GHZ.
455-02-049	.060/.050	.071/.069	.260/.240	.078/.075	.012	49.0 GHZ.
455-02-055	.045/.035	.056/.054	.085/.075	.077/.075	.012	48.0 GHZ.
455-02-056	.095/.085	.071/.069	.345/.335	.078/.075	.012	48.0 GHZ.
455-02-060	.075/.065	.125/.115	.052/.042	.078/.075	.012	46.0 GHZ.
455-02-090	.060/.050	.071/.069	.093/.087	.078/.075	.012	46.0 GHZ.
455-02-112	.080/.060	.065/.060	.115/.105	.100/.097	.012	38.0 GHZ.
455-02-125	.085/.075	.065/.060	.127/.123	.100/.097	.012	39.0 GHZ.
455-02-134	.085/.075	.065/.060	.136/.132	.100/.097	.012	48.0 GHZ.
455-02-155	.053/.043	.057/.053	.130/.120	.077/.075	.012	48.0 GHZ.
455-02-250	.085/.075	.065/.062	.255/.245	.100/.097	.012	48.0 GHZ.
455-02-255	.085/.075	.065/.062	.260/.250	.100/.097	.012	48.0 GHZ.
455-02-312	.085/.065	.065/.060	.070/.060	.100/.097	.012	48.0 GHZ.
455-02-412	.082/.062	.064/.060	.090/.085	.099/.096	.012	48.0 GHZ.
455-02-512	.080/.065	.065/.060	.125/.121	.100/.097	.012	48.0 GHZ.
455-02-609	.076/.058	.071/.069	.126/.120	.078/.075	.012	49.0 GHZ.
455-02-611	.079/.061	.071/.069	.123/.117	.078/.075	.012	49.0 GHZ.
455-02-612	.078/.068	.065/.060	.094/.084	.100/.097	.012	48.0 GHZ.
455-02-712	.058/.054	.057/.053	.073/.067	.0775/.0745	.012	46.0 GHZ.
455-02-742	.060/.050	.071/.069	.042/.038	.078/.075	.012	46.0 GHZ.
455-02-812	.071/.051	.075/.071	.101/.091	.078/.075	.012	46.0 GHZ.
455-02-1012	.095/.085	.070/.067	.295/.285	.100/.097	.012	48.0 GHZ.
455-02-113	.155/.145	.071/.067	.015/.009	.0765/.0750	.012	46.0 GHZ.
455-02-413	.155/.145	.071/.067	.028/.022	.0765/.0750	.012	46.0 GHZ.
455-02-513	.155/.145	.071/.067	.023/.017	.0765/.0750	.012	46.0 GHZ.
455-02-013	.080/.065	.071/.069	.190/.170	.078/.075	.013	40.0 GHZ.

Specifications are subject to change without notice

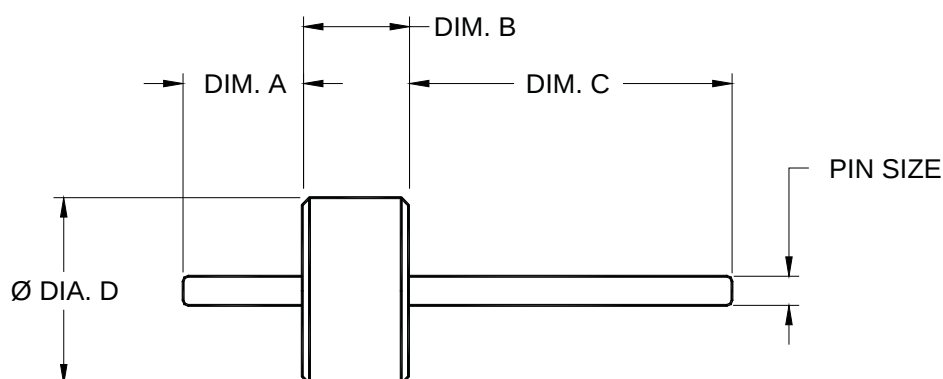
● 50 ohm glass feedthrough ●



PART NUMBER	DIM."A"	DIM."B"	DIM."C"	DIA."D"	PIN SIZE	FREQUENCY RANGE
455-02-061	.080/.065	.071/.069	.140/.135	.078/.075	.013	40.0 GHZ.
455-02-064	.080/.065	.071/.069	.074/.069	.078/.075	.013	34.0 GHZ.
455-02-063	.029/.019	.071/.069	.103/.095	.078/.075	.013	39.0 GHZ.
455-02-014	.050/.040	.065/.060	.145/.135	.100/.097	.015	39.0 GHZ.
455-02-015	.080/.065	.065/.060	.190/.170	.100/.097	.015	39.0 GHZ.
455-02-016	.079/.071	.065/.060	.094/.086	.100/.097	.015	39.0 GHZ.
455-02-017	.099/.091	.042/.038	.109/.101	.100/.097	.015	39.0 GHZ.
455-02-1015	.065/.050	.065/.060	.070/.050	.175/.150	.015	39.0 GHZ.
455-02-1115	.055/.045	.065/.060	.130/.120	.100/.097	.015	39.0 GHZ.
455-02-114	.055/.045	.065/.060	.130/.120	.100/.097	.015	39.0 GHZ.
455-02-215	.080/.065	.065/.060	.025/.020	.100/.097	.015	39.0 GHZ.
455-02-315	.124/.096	.042/.038	.100/.080	.100/.097	.015	39.0 GHZ.
455-02-316	.080/.070	.065/.060	.075/.065	.100/.097	.015	39.0 GHZ.
455-02-319	.115/.090	.042/.038	.115/.090	.100/.097	.015	39.0 GHZ.
455-02-415	.080/.065	.065/.060	.260/.240	.100/.097	.015	39.0 GHZ.
455-02-516	.055/.045	.065/.060	.130/.120	.100/.097	.015	39.0 GHZ.
455-02-615	.082/.062	.065/.060	.230/.210	.100/.097	.015	39.0 GHZ.
455-02-714	.057/.048	.065/.060	.057/.048	.100/.097	.015	39.0 GHZ.
455-02-716	.089/.080	.065/.060	.057/.048	.100/.097	.015	39.0 GHZ.
455-02-815	.196/.174	.126/.124	.190/.170	.100/.097	.015	39.0 GHZ.
455-02-915	.080/.065	.065/.060	.095/.085	.100/.097	.015	39.0 GHZ.
455-02-018	.080/.065	.065/.060	.190/.170	.113/.110	.018	26.0 GHZ.
455-02-019	.080/.065	.065/.060	.190/.182	.113/.110	.018	32.0 GHZ.
455-02-115	.065/.055	.062/.058	.030/.020	.1115/.1085	.018	32.0 GHZ.
455-02-218	.080/.065	.065/.060	.215/.195	.100/.097	.018	32.0 GHZ.
455-02-318	.080/.065	.065/.060	.310/.290	.100/.097	.018	32.0 GHZ.
455-02-418	.080/.065	.065/.060	.190/.170	.100/.097	.018	32.0 GHZ.
455-02-518	.080/.065	.065/.060	.091/.083	.100/.097	.018	32.0 GHZ.
455-02-526	.074/.070	.065/.060	.529/.523	.100/.097	.018	32.0 GHZ.
455-02-618	.080/.065	.065/.060	.075/.065	.100/.097	.018	32.0 GHZ.

Specifications are subject to change without notice

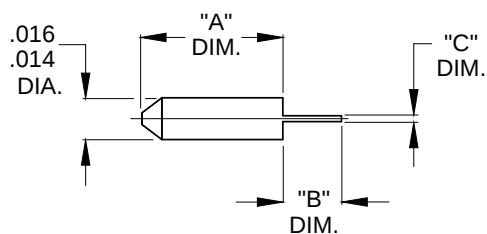
● 50 ohm glass feedthrough ●



PART NUMBER	DIM."A"	DIM."B"	DIM."C"	DIA."D"	PIN SIZE	FREQUENCY RANGE
455-02-020	.075/.065	.061/.059	.065/.055	.159/.157	.020	23.0 GHZ.
455-02-021	.090/.070	.061/.059	.081/.075	.1585/.1570	.020	23.0 GHZ.
455-02-022	.080/.060	.062/.058	.310/.290	.158/.156	.020	23.0 GHZ.
455-02-024	.075/.065	.061/.059	.065/.055	.159/.157	.020	23.0 GHZ.
455-02-027	.070/.050	.065/.060	.208/.203	.161/.158	.020	23.0 GHZ.
455-02-028	.055/.045	.061/.059	.130/.120	.159/.157	.020	23.0 GHZ.
455-02-050	.065/.055	.061/.059	.210/.190	.159/.157	.020	23.0 GHZ.
455-02-068	.075/.065	.061/.059	.096/.079	.159/.157	.020	23.0 GHZ.
455-02-069	.083/.073	.070/.068	.073/.063	.160/.157	.020	23.0 GHZ.
455-02-120	.080/.060	.126/.124	.080/.060	.158/.156	.020	23.0 GHZ.
455-02-189	.075/.069	.065/.061	.192/.186	.1595/.1565	.020	23.0 GHZ.
455-02-369	.078/.076	.070/.068	.234/.224	.159/.157	.020	23.0 GHZ.
455-02-502	.074/.070	.065/.061	.504/.498	.1595/.1565	.020	23.0 GHZ.
455-02-669	.092/.069	.071/.068	.475/.465	.160/.157	.020	23.0 GHZ.
455-02-034	.090/.070	.127/.123	.090/.070	.283/.280	.036	16.0 GHZ.
455-02-136	.095/.085	.070/.067	.295/.285	.236/.232	.036	16.0 GHZ.
455-02-053	.105/.095	.102/.098	.105/.095	.352/.348	.053	11.0 GHZ.

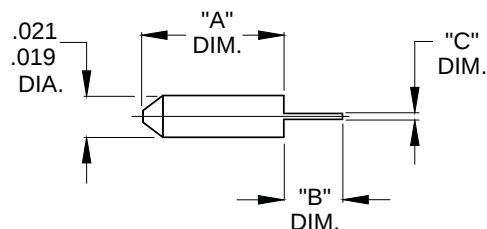
● contact, male, with tab ●

.015 dia. pin



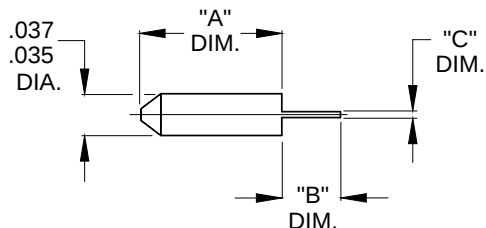
PART NUMBER	DIM."A"	DIM."B"	DIM."C"	MATERIAL TYPE
9-96000	.068	.035	.006/.003	BERYLLIUM COPPER
9-96015	.084	.035	.006/.003	BERYLLIUM COPPER
9-96008	.070	.050	.006/.002	BERYLLIUM COPPER
9-96009	.120	.040	.007/.004	BERYLLIUM COPPER
9-96023	.083	.120	.006/.003	BERYLLIUM COPPER

.020 dia. pin



PART NUMBER	DIM."A"	DIM."B"	DIM."C"	MATERIAL TYPE
9-96020	.068	.035	.006/.003	BERYLLIUM COPPER
9-96016	.128	.050	.006/.004	BERYLLIUM COPPER
9-96022	.120	.040	.006/.004	BERYLLIUM COPPER
9-96006	.090	.100	.006/.003	BERYLLIUM COPPER

.036 dia. pin

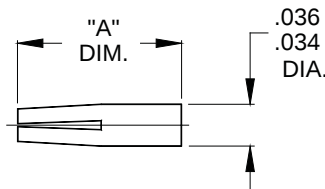


PART NUMBER	DIM."A"	DIM."B"	DIM."C"	MATERIAL TYPE
9-96010	.090	.050	.006/.003	BERYLLIUM COPPER
9-96014	.120	.050	.006/.004	BERYLLIUM COPPER
9-96007	.190	.100	.006/.004	BERYLLIUM COPPER

Specifications are subject to change without notice

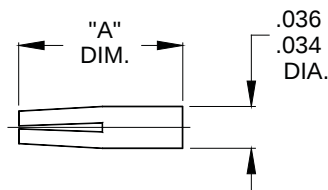
● contact, female, without tab ●

accepts .016 / .011 dia. pin



PART NUMBER	DIM."A"	MATERIAL TYPE
9-97008	.127/.123	BERYLLIUM COPPER
9-97015	.139/.135	BERYLLIUM COPPER

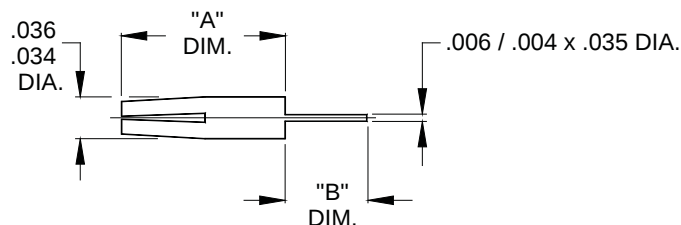
accepts .021 / .017 dia. pin



PART NUMBER	DIM."A"	MATERIAL TYPE
9-97037	.139/.135	BERYLLIUM COPPER
9-97038	.105/.100	BERYLLIUM COPPER
9-97026	.252/.248	BERYLLIUM COPPER

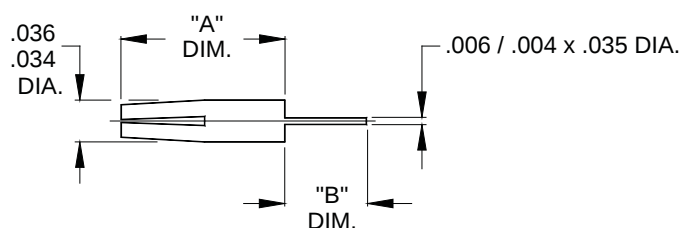
● contact, female with tab ●

accepts .016 / .011 dia. pin



PART NUMBER	DIM."A"	DIM."B"	MATERIAL TYPE
9-97017	.139/.137	.05	BERYLLIUM COPPER

accepts .021 / .017 dia. pin

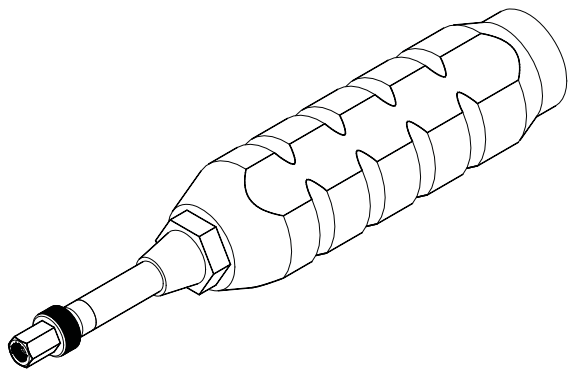


PART NUMBER	DIM."A"	DIM."B"	MATERIAL TYPE
9-97024	.139/.137	.05	BERYLLIUM COPPER

Specifications are subject to change without notice

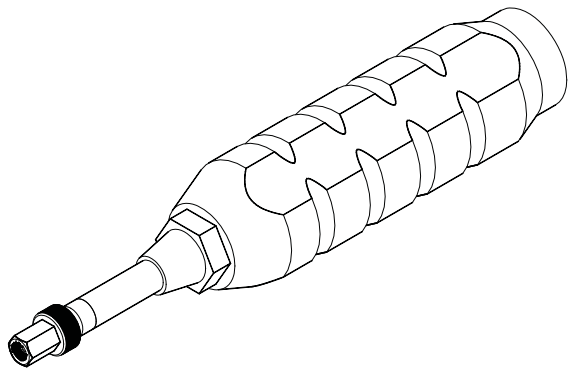
torque tools

2.4mm, threaded connector insertion tool



PART NUMBER	FACTORY TORQUE SETTING
13-TORQUE-20	20 in./lbs.

smp, hermetic shroud insertion tool

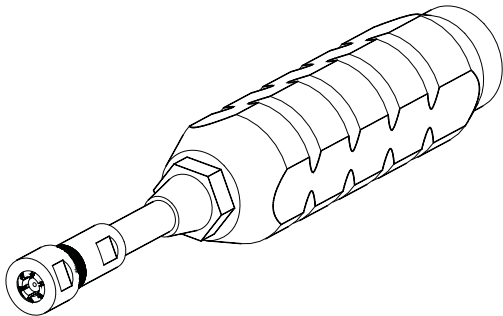


PART NUMBER	FACTORY TORQUE SETTING
21-TORQUE-20A	20 in./lbs.

Specifications are subject to change without notice

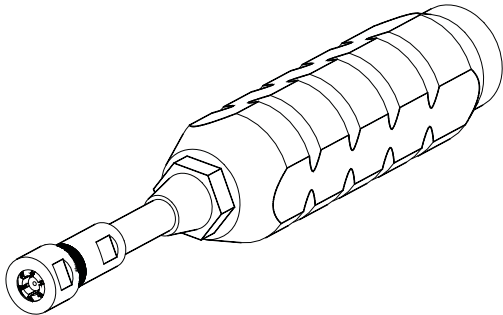
torque tools

smp, threaded connector insertion tool



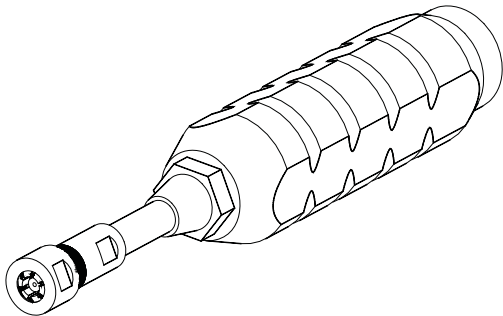
PART NUMBER	FACTORY TORQUE SETTING
21-TORQUE-20	20 in./lbs.

smpm, threaded connector insertion tool



PART NUMBER	FACTORY TORQUE SETTING
31-TORQUE-20	20 in./lbs.

smpsm, threaded connector insertion tool

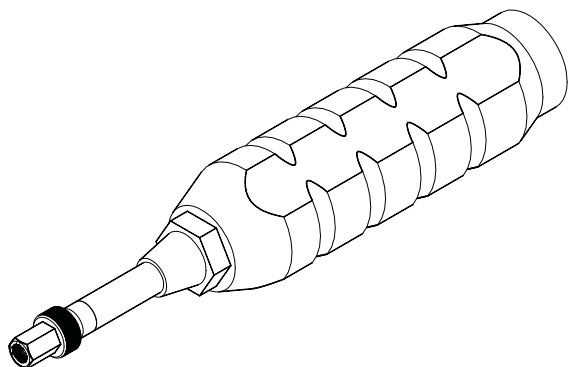


PART NUMBER	FACTORY TORQUE SETTING
50-TORQUE-20	20 in./lbs.

Specifications are subject to change without

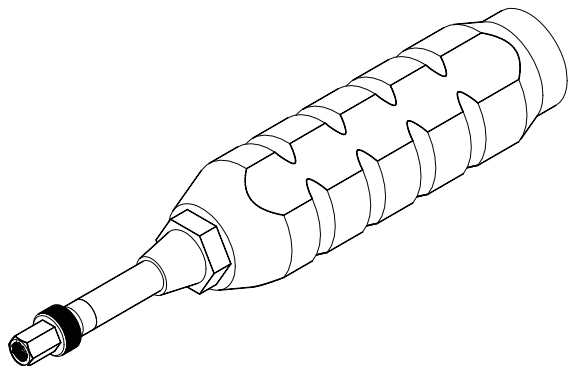
torque tools

bma, sparkplug connector insertion tool



PART NUMBER	FACTORY TORQUE SETTING
28-TORQUE-22	22 in./lbs.

bmam, threaded connector insertion tool

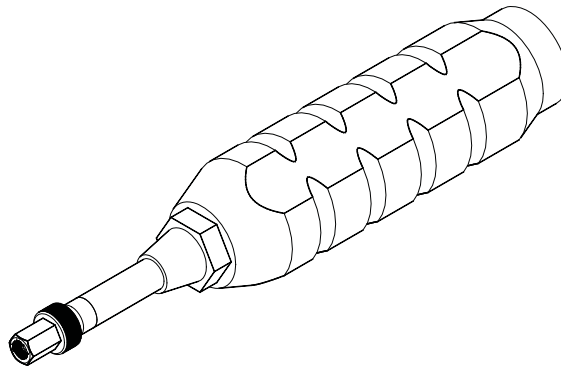


PART NUMBER	FACTORY TORQUE SETTING
26-TORQUE-20	20 in./lbs.

Specifications are subject to change without notice

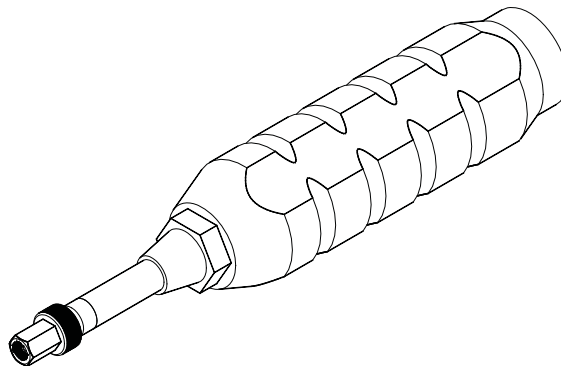
torque tools

ssma, sparkplug connector insertion tool



PART NUMBER	FACTORY TORQUE SETTING
93-TORQUE-20	20 in./lbs.
93-TORQUE-30	30 in./lbs.

sma, sparkplug, hermetic connector insertion tool

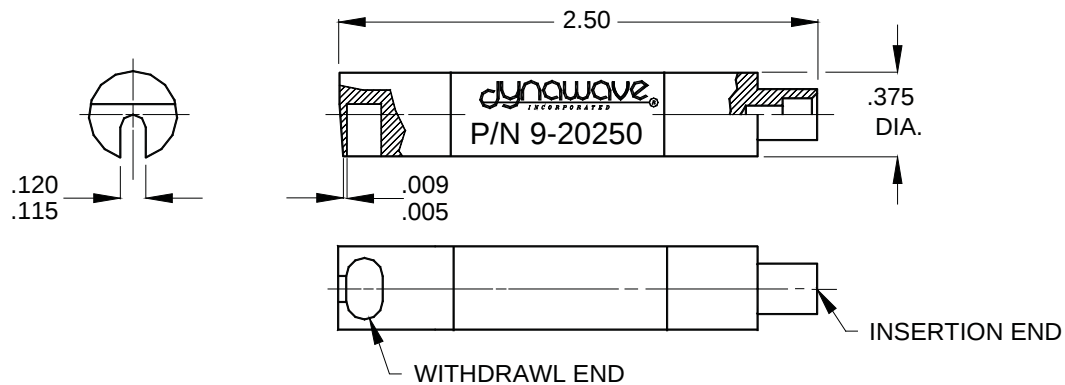


PART NUMBER	FACTORY TORQUE SETTING
99-TORQUE-18	18 in./lbs.
99-TORQUE-22	22 in./lbs.
99-TORQUE-26	26 in./lbs.
99-TORQUE-30	30 in./lbs.

Specifications are subject to change without notice

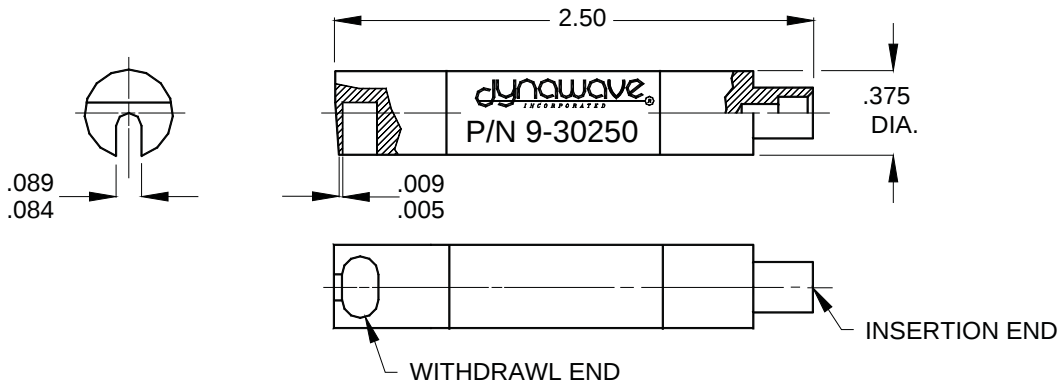
● insertion / withdrawal tools ●

smp insertion and withdrawal tool



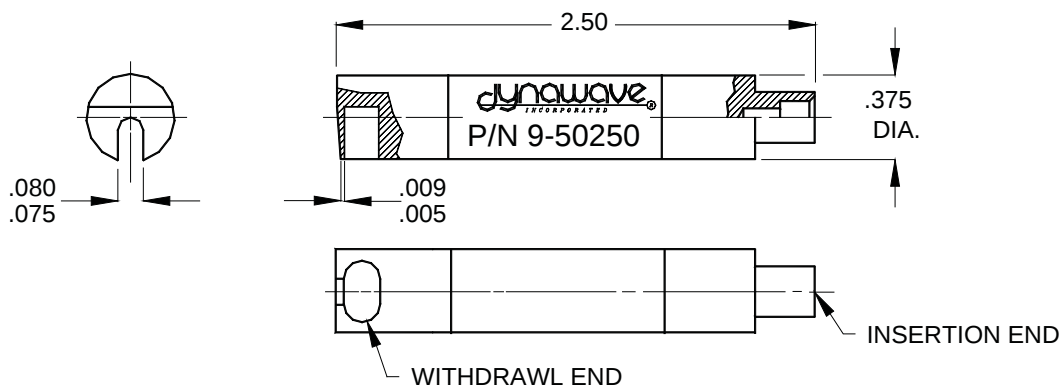
PART NUMBER	MATERIAL
9-20250	HARDENED TOOL STEEL

smpm insertion and withdrawal tool



PART NUMBER	MATERIAL
9-30250	HARDENED TOOL STEEL

smpsm insertion and withdrawal tool

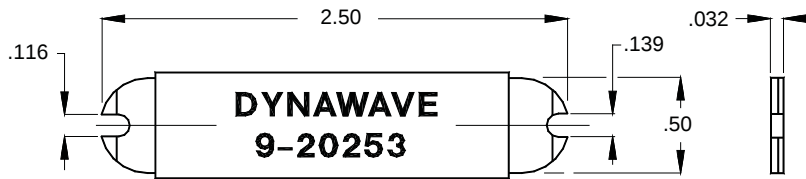


PART NUMBER	MATERIAL
9-50250	HARDENED TOOL STEEL

Specifications are subject to change without notice

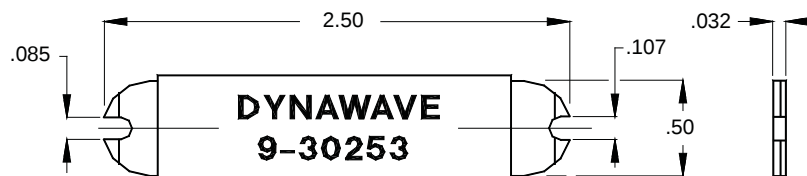
withdrawal tools

smp withdrawal tool



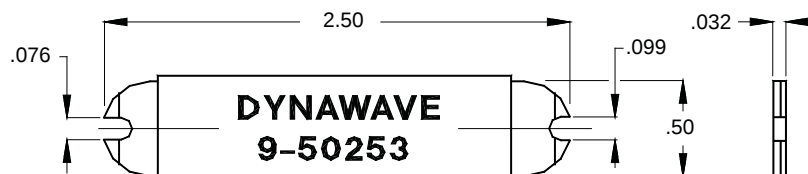
PART NUMBER	MATERIAL
9-20253	HARDENED TOOL STEEL

smpm withdrawal tool



PART NUMBER	MATERIAL
9-30253	HARDENED TOOL STEEL

smpsm withdrawal tool

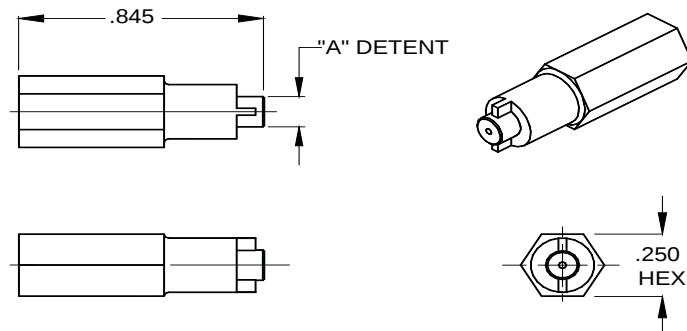


PART NUMBER	MATERIAL
9-50253	HARDENED TOOL STEEL

Specifications are subject to change without notice

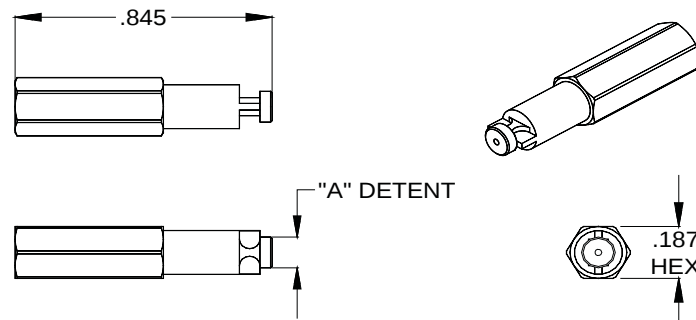
● insertion / withdrawal tools ●

smc, plug torque head for slotted #12 or .250 threads



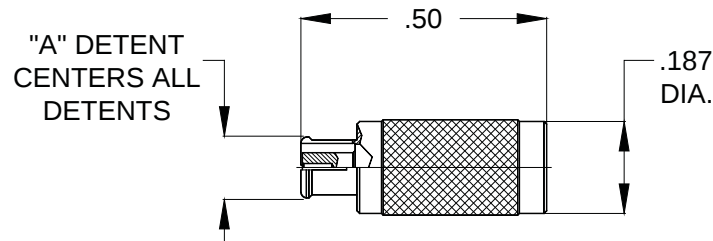
PART NUMBER	"A" DETENT	MATERIAL TYPE
9-20255-00	FULL DETENT	HARDENED TOOL STEEL
9-20255-07	LIMITED DETENT	HARDENED TOOL STEEL
9-20255-09	SMOOTH BORE	HARDENED TOOL STEEL

smc, plug torque head for slotted #10 threads



PART NUMBER	"A" DETENT	MATERIAL TYPE
9-20164-00	FULL DETENT	HARDENED TOOL STEEL
9-20164-07	LIMITED DETENT	HARDENED TOOL STEEL
9-20164-09	SMOOTH BORE	HARDENED TOOL STEEL

smc, plug, 2 hole flange centering tool

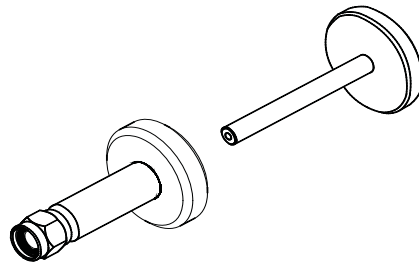


PART NUMBER	"A" DETENT	MATERIAL TYPE
9-21040	ALL DETENTS	BERYLLIUM COPPER

Specifications are subject to change without notice

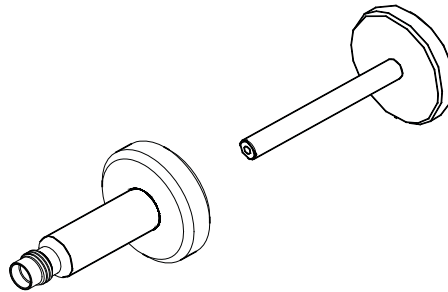
● insertion tools / torque tools ●

dielectric insertion tool



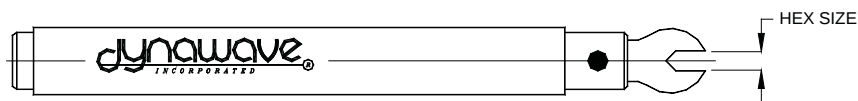
PART NUMBER	CONNECTOR SERIES	MATERIAL
9-97049	SSMA, JACK	STAINLESS STEEL
9-99049	SMA, JACK	STAINLESS STEEL

dielectric insertion tool



PART NUMBER	CONNECTOR SERIES	MATERIAL
9-96049	SSMA, JACK	STAINLESS STEEL
9-98049	SMA, JACK	STAINLESS STEEL

torque wrench



PART NUMBER	HEX SIZE	TORQUE SETTING	CONNECTOR SERIES
9-74003	.750	12 - 15 in./lbs.	TYPE "N", PLUG
9-74004	.812	12 - 15 in./lbs.	TYPE "N", PLUG
9-84006	.562	10 - 15 in./lbs.	TNC, THREAD-IN
9-84007	.562	10 - 15 in./lbs.	TNC, THREAD-IN
9-84008	.562	10 - 15 in./lbs.	TNC, THREAD-IN
9-84010	.625	30 - 32 in./lbs.	UNIVERSAL THREAD-IN
9-96002	.250	6 - 8 in./lbs.	SSMA, PLUG
9-98002	.312	7 - 10 in./lbs.	SMA, PLUG
9-98019	.218	20 - 23 in./lbs.	SMA, PLUG, THREAD-IN
9-98020	.250	10 - 15 in./lbs.	SMP, THREADED SHROUD

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●cable insertion loss selection chart●

flexible cable types

	FLEXIBLE							FLEXIBLE LOW LOSS				
Cable Type	RG 58	RG 142	SF-142	RG 178	RG 316	DB 316	RG 400	DY3	DY4	DY5	DY8	DY11
Dynawave P/N	9-40090	9-40057	9-40004	9-40082	9-40080	9-40031	9-40014	9-40055	9-40075	9-40056	9-40070	9-40087
Freq. (GHz.)	INSERTION LOSS VALUES IN db / 100 FEET											
0.5	14.8	15.4	9.2	37.2	22.8	22.7	12.7	11.1	8.5	5.4	3.6	2.6
0.75	18.3	18.0	11.5	45.8	28.1	28.1	15.7	13.6	10.4	6.7	4.4	3.2
1.0	21.4	26.4	13.4	53.1	32.7	32.6	18.3	15.8	12.1	7.8	5.1	3.8
2.0		26.4	19.8	76.0	47.0	47.0	26.8	22.7	17.3	11.2	7.5	5.6
3.0		33.3	24.9	94.0	58.4	58.4	33.7	28.1	21.4	14.0	9.4	7.0
4.0		39.3	29.5			68.2	39.7	32.8	25.0	16.3	11.0	8.3
5.0		44.8	33.7			77.1	45.2	37.0	28.1	18.4	12.2	9.5
6.0		50.0	37.6			85.2	50.2	40.8	31.0	20.3	13.9	10.6
7.0		54.9	41.3			92.8	55.1	44.4	33.7	22.2	15.2	11.6
8.0		59.5	44.8			100.0	59.6	47.8	36.2	23.9	16.4	12.6
9.0			48.2			106.8	64.0	51.0	38.6	25.5	17.6	13.6
10.0			51.5			113.4	68.3	54.0	40.9	27.1	18.8	14.5
11.0			54.7			119.7	72.4	57.0	43.1	28.6	19.9	15.4
12.0			57.8			125.8	76.3	59.8	45.2	30.0	20.9	16.2
13.0			60.8					62.5	47.2	31.4	22.0	
14.0			63.8					65.2	49.2	32.8	23.0	
15.0			66.7					67.8	51.1	34.1	24.0	
16.0			69.5					70.3	53.0	35.4	25.0	
17.0			72.3					72.8	54.8	36.7	25.9	
18.0			75.1					75.2	56.6	37.9	26.9	
19.0								77.6	58.3	39.1		
20.0								79.9	60.0	40.3		
22.0								84.4	63.3	42.6		
24.0								88.7	66.5	44.9		
26.0								92.9	69.6	47.1		
28.0								97.1	72.7			
30.0								101.1	75.6			
32.0								105.0	78.5			
34.0								108.8	81.3			
36.0								112.6	84.0			
38.0								116.2	86.7			
40.0								119.9	89.3			
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Specifications are subject to change without notice

●cable insertion loss selection chart●

semi-rigid / conformable cable types

	SEMI-RIGID				CONFORMABLE ^(R3)			T-FLEX ^(R1)		SUPERFLEX ^(R2)	
Cable Type	.047	.085	.141	.250	.085	.141	.250	.085	.141	FSJ1RN-50B	FSJ4RN-50B
Dynawave P/N	9-40076	9-40017	9-40013	9-40083	9-40002	9-40003	9-40073	9-40078	9-40079	9-40006	9-40007
Freq. (GHz.)	INSERTION LOSS VALUES IN db / 100 FEET										
0.5	26.8	15.3	8.2	4.8	15.9	9.8	5.3	14.7	8.0	4.2	2.5
0.75	33.0	19.0	10.2	6.1	19.6	12.2	6.7	18.2	9.9	5.1	3.1
1.0	38.3	22.1	12.0	7.2	22.9	14.2	7.9	21.1	11.6	6.0	3.6
2.0	54.9	32.0	17.7	10.9	33.2	20.9	11.9	30.6	17.2	8.7	5.37
3.0	68.0	40.0	22.4	14.0	41.4	26.4	15.4	38.1	21.7	10.9	6.84
4.0	79.3	46.9	26.5	16.9	48.6	31.1	18.5	44.7	25.7	12.8	8.15
5.0	89.4	53.2	30.3	19.5	55.1	35.5	21.4	50.6	29.3	14.5	9.35
6.0	98.6	59.0	33.9	22.0	61.1	39.6	24.1	56.0	32.8	16.1	10.5
7.0	107.2	64.4	37.3	24.5	66.7	43.5	26.8	61.1	36.0	17.6	11.6
8.0	115.3	69.6	40.5	26.8	72.0	47.1	29.4	66.0	39.1	19.0	12.6
9.0	123.0	74.5	43.6	29.1	77.1	50.7	31.8	70.6	42.1	20.4	13.6
10.0	130.4	79.2	46.7	31.3	82.0	54.1	34.3	75.0	45.0	21.7	14.6
11.0	137.5	83.8	49.6	33.5	86.8	57.4	36.6	79.3	47.8	23.0	
12.0	144.3	88.2	52.5	35.6	91.3	60.7	39.0	83.4	50.5	24.2	
13.0	150.9	92.5	55.2	37.7	95.8	63.8	41.3	87.4	53.2	25.4	
14.0	157.3	96.7	58.0	39.8	100.1	66.9	43.5	91.3	55.8	26.6	
15.0	163.5	100.8	60.7	41.8	104.4	69.9	45.8	95.2	58.4	27.7	
16.0	169.8	104.8	63.3	43.8	108.5	72.9	48.0	98.9	60.9	28.8	
17.0	175.5	108.8	65.9	45.8	112.6	75.8	50.1	102.5	63.4	30.0	
18.0	181.3	112.6	68.5	47.8	116.6	78.7	52.3	106.1	65.9	31.0	
19.0	187.0	116.4	71.0							32.1	
20.0	192.5	120.1	73.5							33.1	
22.0											
24.0											
26.0											
28.0											
30.0		RG 405	RG 402	RG 401							
32.0											
34.0											
36.0											
38.0											
40.0											
Page Number	298	300	303	306	309	312	315	310	314	316	317

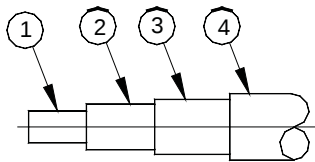
^(R1) T-FLEX IS A REGISTERED TRADEMARK OF TIMES MICROWAVE SYSTEMS ^(R2) SUPERFLEX IS A REGISTERED TRADEMARK OF THE ANDREW CORPORATION

^(R3) CONFORMABLE IS A REGISTERED TRADEMARK OF BELDEN WIRE COM-

Specifications are subject to change without notice

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flexible cable rg 178



CABLE PART NUMBER :	9-40082
CATEGORY :	FLEXIBLE
DESCRIPTION :	RG-178
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.076 INCHES
MAX. OPERATING FREQUENCY :	3 GHz.
CUT OFF FREQUENCY :	109.3 GHz.
CLAMP CABLE GROUP :	784
SOLDER CABLE GROUP :	783
CRIMP CABLE GROUP :	783
MIL. SPEC. :	M17/93-RG178

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID :	SILVER PLATED COPPER WIRE BRAID
4. JACKET :	SOLID FEP

DIAMETER

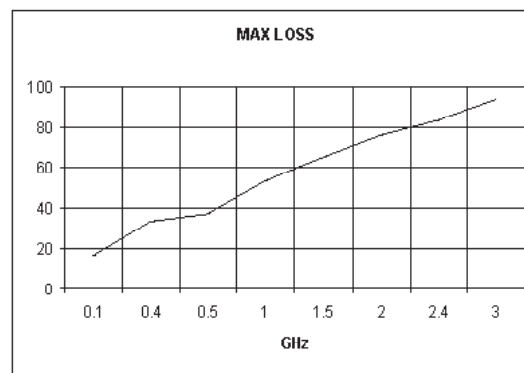
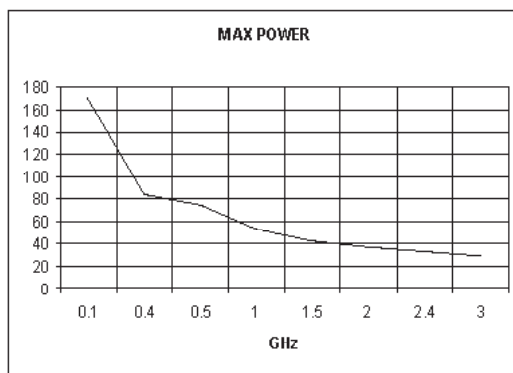
0.012
0.033
0.051
0.071

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 15 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.43 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 1.42 INCHES
TEMPERATURE RANGE: -55 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.007 POUNDS PER FOOT

ELECTRICAL :

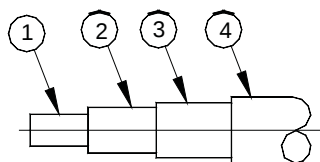
CENTER CONDUCTOR DC RESISTANCE: 6.81 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 7.72 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 788 VRMS
MAXIMUM CW POWER RATING: 30 WATTS AT 3.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 3.0 GHz.
MAXIMUM INSERTION LOSS: 94.0dB / 100 FT AT 3.0 GHz.
NOMINAL INSERTION LOSS: 78.3dB / 100 FT AT 3.0 GHz.
RELATIVE SHIELDING : -40 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$51.5 \times \text{square root of the Frequency} + 1.60 \times \text{Frequency} + 0 = \text{dB}/100'$$

flexible cable rg 316



CABLE PART NUMBER :	9-40080
CATAGORY :	FLEXIBLE
DESCRIPTION :	RG-316
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.103 INCHES
MAX. OPERATING FREQUENCY :	3 GHz.
CUT OFF FREQUENCY :	65.2 GHz.
CLAMP CABLE GROUP :	164
SOLDER CABLE GROUP :	162
CRIMP CABLE GROUP :	163
MIL. SPEC. :	M17/113-RG316

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID :	SILVER PLATED COPPER WIRE BRAID
4. JACKET :	SOLID FEP

DIAMETER

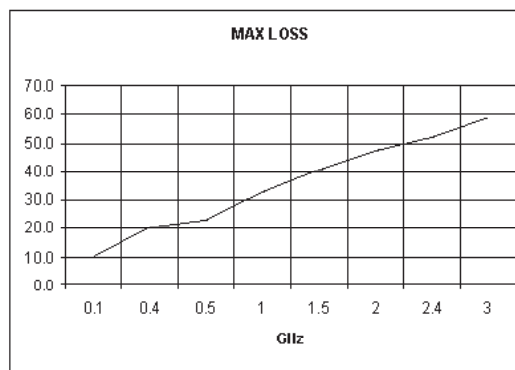
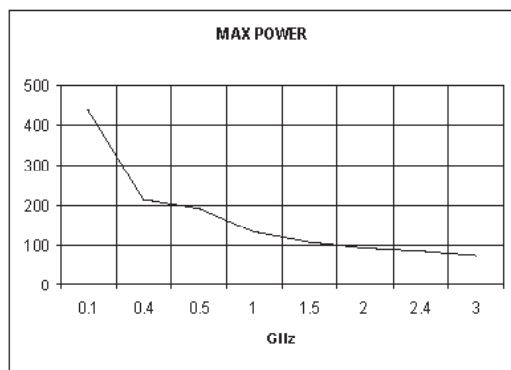
0.020
0.060
0.078
0.098

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.59 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 1.96 INCHES
TEMPERATURE RANGE: -55 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.013 POUNDS PER FOOT

ELECTRICAL :

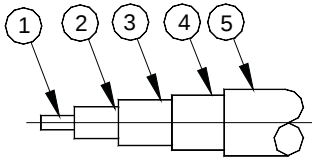
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 10.81 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 971 VRMS
MAXIMUM CW POWER RATING: 75 WATTS AT 3.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 3.0 GHz.
MAXIMUM INSERTION LOSS: 58.4dB / 100 FT AT 3.0 GHz.
NOMINAL INSERTION LOSS: 46.7dB / 100 FT AT 3.0 GHz.
RELITIVE SHIELDING : -40 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$31.2 \times \text{square root of the Frequency} + 1.45 \times \text{Frequency} + 0 = \text{dB}/100'$$

flexible cable rg 316db



CABLE PART NUMBER :	9-40031
CATEGORY :	FLEXIBLE
DESCRIPTION :	DB-316
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.120 INCHES
MAX. OPERATING FREQUENCY :	12.4 GHz.
CUT OFF FREQUENCY :	65.2 GHz.
CLAMP CABLE GROUP :	184
SOLDER CABLE GROUP :	183
CRIMP CABLE GROUP :	183
MIL. SPEC. :	M17/152-00001

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	SILVER PLATED ROUND WIRE BRAID
4. OUTER BRAID :	SILVER PLATED ROUND WIRE BRAID
5. JACKET :	BROWN TINT EXTRUDED FEP

DIAMETER

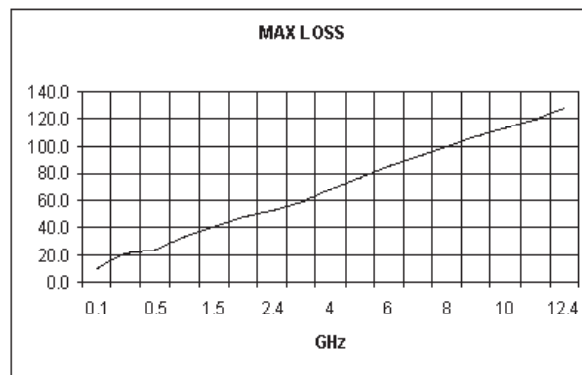
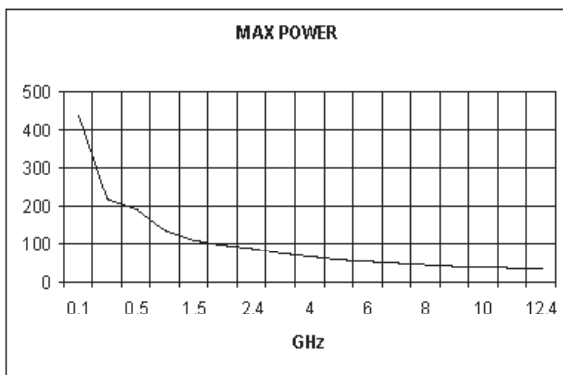
0.020
0.062
0.074
0.096
0.114

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.15 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .38 INCHES
TEMPERATURE RANGE: -65 / +125 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.020 POUNDS PER FOOT

ELECTRICAL :

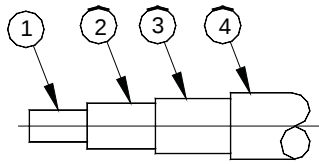
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: .26 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,000 VRMS
MAXIMUM CW POWER RATING: 34 WATTS AT 12.4 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 12.4 GHz.
MAXIMUM INSERTION LOSS: 128.1 dB / 100 FT AT 12.4 GHz.
NOMINAL INSERTION LOSS: 102.5 dB / 100 FT AT 12.4 GHz.
RELATIVE SHIELDING : -60 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$31.11 \times \text{square root of the Frequency} + 1.50 \times \text{Frequency} + 0 = \text{dB}/100'$$

flexible cable rg 58



CABLE PART NUMBER :	9-40090
CATEGORY :	FLEXIBLE
DESCRIPTION :	RG-58
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.200 INCHES
MAX. OPERATING FREQUENCY :	1 GHz.
CUT OFF FREQUENCY :	32.3 GHz.
CLAMP CABLE GROUP :	164
SOLDER CABLE GROUP :	162
CRIMP CABLE GROUP :	163
MIL. SPEC. :	M17/028-RG58

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED TIN PLATED COPPER WIRE
2. DIELECTRIC :	POLYETHYLENE
3. OUTER BRAID :	TIN PLATED COPPER WIRE BRAID
4. JACKET :	BLACK POLYVINYLCHLORIDE

DIAMETER

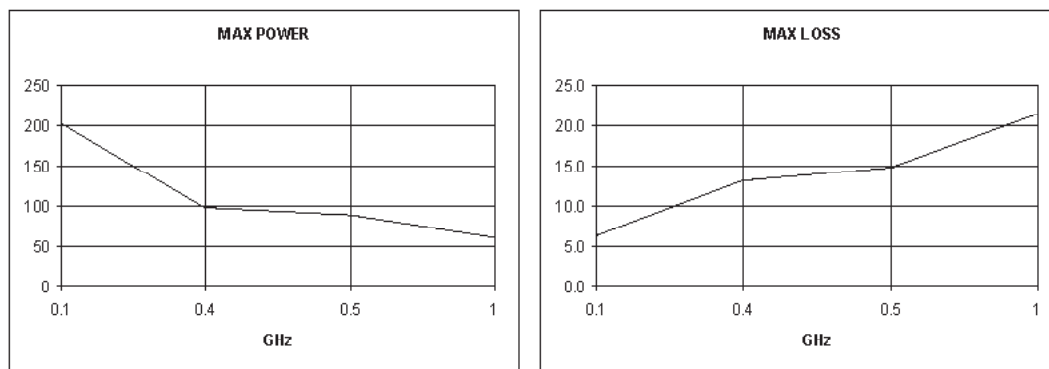
0.036
0.116
0.139
0.195

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 1.17 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 3.90 INCHES
TEMPERATURE RANGE: -40 / +80 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.029 POUNDS PER FOOT

ELECTRICAL :

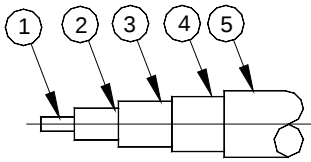
CENTER CONDUCTOR DC RESISTANCE: 0.89 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 2.22 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 30.3 pf / FT.
NOMINAL INDUCTANCE: 0.076 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 67.0 %
NOMINAL DELAY: 1.52 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1857 VRMS
MAXIMUM CW POWER RATING: 61 WATTS AT 1.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 1.0 GHz.
MAXIMUM INSERTION LOSS: 21.4dB / 100 FT AT 1.0 GHz.
NOMINAL INSERTION LOSS: 15.3dB / 100 FT AT 1.0 GHz.
RELATIVE SHIELDING : -40 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$19.6 \times \text{square root of the Frequency} + 1.83 \times \text{Frequency} + 0 = \text{dB}/100'$$

flexible cable rg 400



CABLE PART NUMBER :	9-40014
CATEGORY :	FLEXIBLE
DESCRIPTION :	RG-400
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.200 INCHES
MAX. OPERATING FREQUENCY :	12.4 GHz.
CUT OFF FREQUENCY :	31.3 GHz.
CLAMP CABLE GROUP :	184
SOLDER CABLE GROUP :	182
CRIMP CABLE GROUP :	183
MIL. SPEC. :	M17/128-RG400

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER WIRE
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	SILVER PLATED ROUND WIRE BRAID
4. OUTER BRAID :	SILVER PLATED ROUND WIRE BRAID
5. JACKET :	BROWN TINT EXTRUDED FEP

DIAMETER

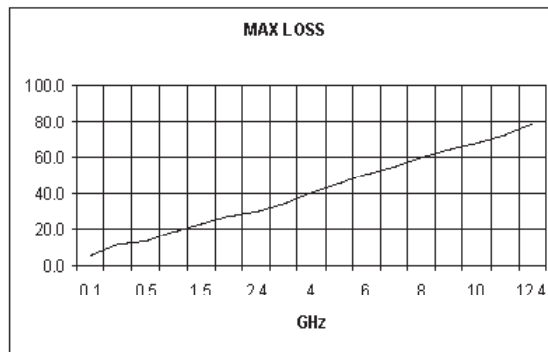
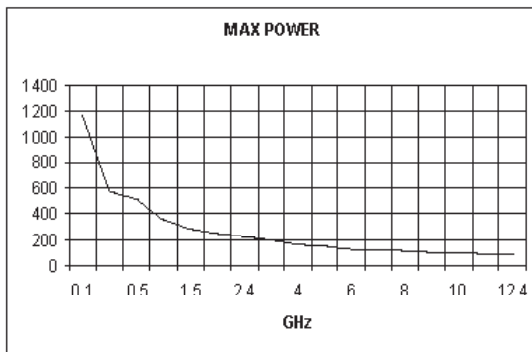
0.038
0.117
0.138
0.162
0.195

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 1.00 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 4.00 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.055 POUNDS PER FOOT

ELECTRICAL :

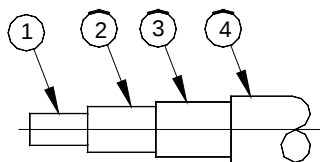
CENTER CONDUCTOR DC RESISTANCE: 0.66 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.70 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,890 VRMS
MAXIMUM CW POWER RATING: 82 WATTS AT 12.4 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 12.4 GHz.
MAXIMUM INSERTION LOSS: 77.9dB / 100 FT AT 12.4 GHz.
NOMINAL INSERTION LOSS: 62.3dB / 100 FT AT 12.4 GHz.
RELATIVE SHIELDING : -60 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$16.84 \times \text{square root of the Frequency} + 1.50 \times \text{Frequency} + 0 = \text{dB}/100'$$

flexible cable rg 142



CABLE PART NUMBER :	9-40057
CATEGORY :	FLEXIBLE
DESCRIPTION :	RG-142
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.200 INCHES
MAX. OPERATING FREQUENCY :	8 GHz.
CUT OFF FREQUENCY :	34.4 GHz.
CLAMP CABLE GROUP :	424
SOLDER CABLE GROUP :	422
CRIMP CABLE GROUP :	423
MIL. SPEC. :	M17/60-RG142

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID :	SILVER PLATED COPPER WIRE BRAID
4. JACKET :	SOLID FEP

DIAMETER

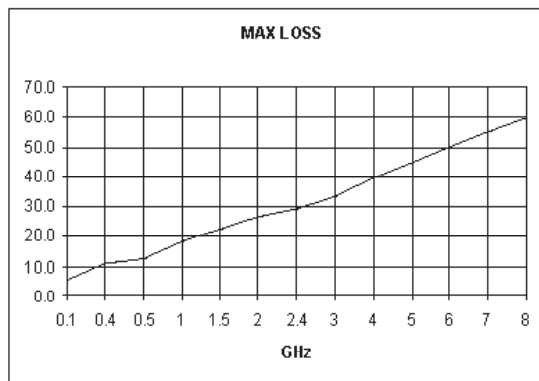
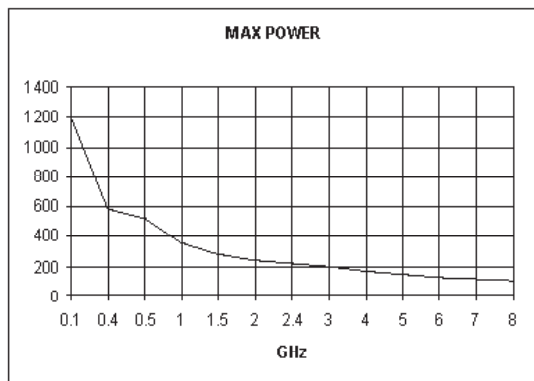
0.026
0.117
0.162
0.195

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 1.00 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 4.00 INCHES
TEMPERATURE RANGE: -55 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.047 POUNDS PER FOOT

ELECTRICAL :

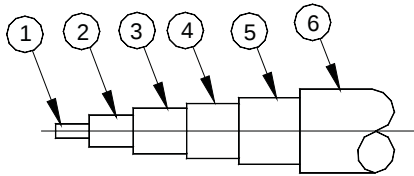
CENTER CONDUCTOR DC RESISTANCE: 0.75 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 3.14 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,876 VRMS
MAXIMUM CW POWER RATING: 108 WATTS AT 8.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 8.0 GHz.
MAXIMUM INSERTION LOSS: 59.5dB / 100 FT AT 8.0 GHz.
NOMINAL INSERTION LOSS: 42.5dB / 100 FT AT 8.0 GHz.
RELATIVE SHIELDING : -40 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$16.315 \times \text{square root of the Frequency} + 1.670 \times \text{Frequency} + 0 = \text{dB}/100'$$

stripflex[®] cable sf 142



CABLE PART NUMBER :	9-40004
CATAGORY :	STRIP FLEX
DESCRIPTION :	FLEXIBLE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.200 INCHES
MAX. OPERATING FREQUENCY	18.0 GHz.
CUT OFF FREQUENCY :	34.1 GHz.
CLAMP CABLE GROUP :	454
SOLDER CABLE GROUP :	454
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
Ⓡ TIMES MICROWAVE	SF-142B

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL WIRE
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER BRAIDED STRIP
4. INNER LAYER	COMPOSITE ALUMINUM FOIL STRIP
5. OUTER BRAID	SILVER PLATED COPPER BRAIDED WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

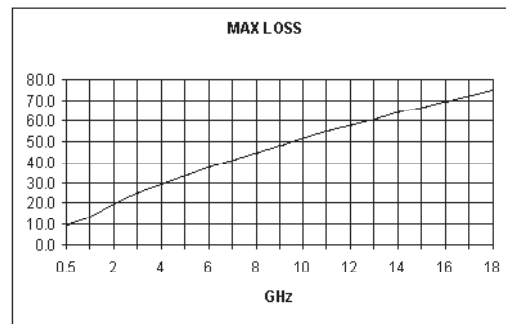
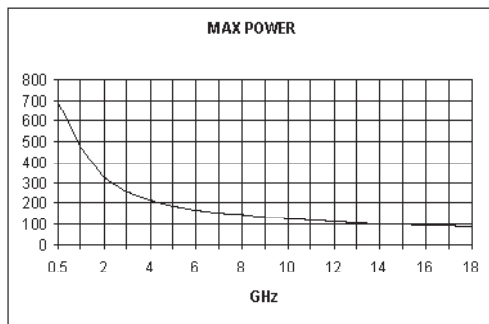
0.037
0.117
0.127
0.134
0.154
0.195

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 1.17 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: 3.90 INCHES
 TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.047 POUNDS PER FOOT

ELECTRICAL :

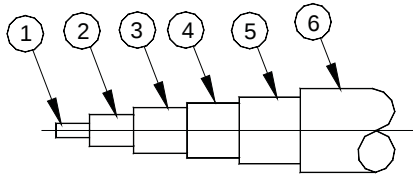
CENTER CONDUCTOR DC RESISTANCE: 0.73 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 2.07 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.7 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,879 VRMS
 MAXIMUM CW POWER RATING: 85 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 75.1dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 68.3dB / 100 FT AT 18.0 GHz.
 RELITVE SHIELDING : -100 dB TRIPLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$12.10 \times \text{square root of the Frequency} + 1.32 \times \text{Frequency} + 0 = \text{dB}/100'$$

low loss flexible cable dy3



CABLE PART NUMBER :	9-40055
CATEGORY :	FLEXIBLE
DESCRIPTION :	LOW LOSS
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.130 INCHES
MAX. OPERATING FREQUENCY :	50.0 GHz.
CUT OFF FREQUENCY :	56.4 GHz.
CLAMP CABLE GROUP :	150H
SOLDER CABLE GROUP :	150H
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WIRE
2. DIELECTRIC :	AIR SPACED PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP
4. INNER LAYER	ALUMINUM / POLYESTER FOIL
5. OUTER BRAID	SILVER PLATED COPPER WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

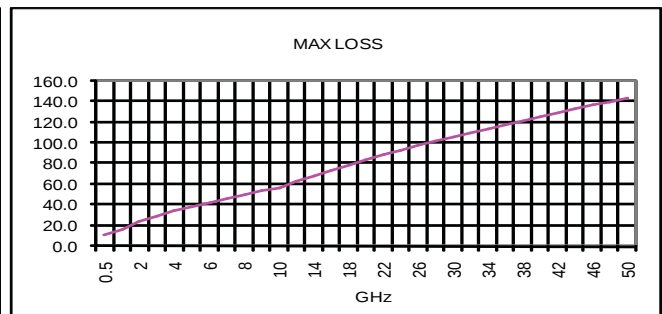
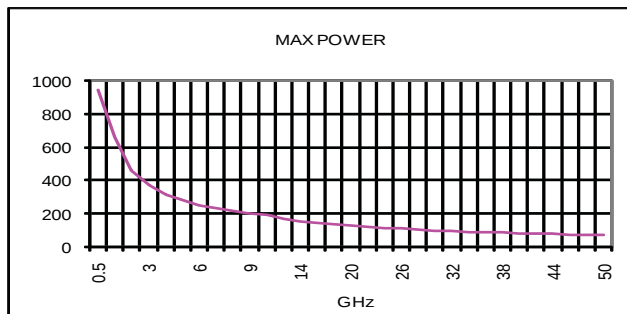
0.025
0.075
0.081
0.088
0.104
0.122

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.60 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 1.83 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.020 POUNDS PER FOOT

ELECTRICAL :

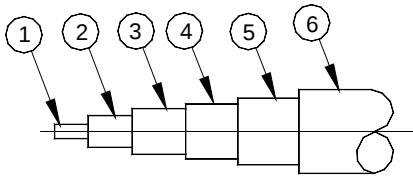
CENTER CONDUCTOR DC RESISTANCE: 1.57 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 4.36 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 26.1 pf / FT.
NOMINAL INDUCTANCE: 65.1 nh / FT
NOMINAL VELOCITY OF PROPAGATION: 78.0 %
NOMINAL DELAY: 1.30 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,699 VRMS
MAXIMUM CW POWER RATING: 76 WATTS AT 50.0 GHz.
MAXIMUM RETURN LOSS: -20.83 dB AT 50.0 GHz.
MAXIMUM INSERTION LOSS: 144.0 dB / 100 FT AT 50.0 GHz.
NOMINAL INSERTION LOSS: 130.9 dB / 100 FT AT 50.0 GHz.
RELATIVE SHIELDING : -90 dB TRIPLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$15.22 \times \text{square root of the Frequency} + .059 \times \text{Frequency} + 0 = \text{dB}/100'$$

low loss flexible cable dy4



CABLE PART NUMBER :	9-40075
CATEGORY :	FLEXIBLE
DESCRIPTION :	LOW LOSS
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.165 INCHES
MAX. OPERATING FREQUENCY :	40.0 GHz.
CUT OFF FREQUENCY :	41.5 GHz.
CLAMP CABLE GROUP :	140H
SOLDER CABLE GROUP :	140H
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WIRE
2. DIELECTRIC :	AIR SPACED PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP
4. INNER LAYER :	ALUMINUM / POLYESTER FOIL
5. OUTER BRAID :	SILVER PLATED COPPER WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

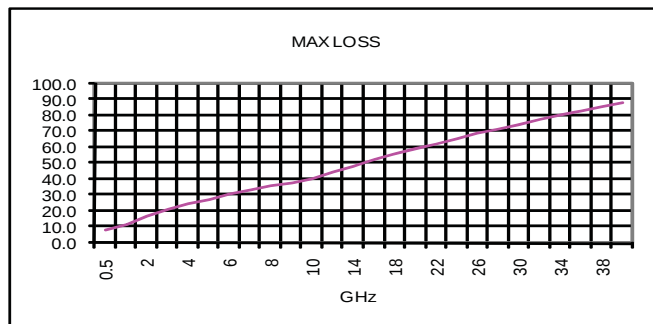
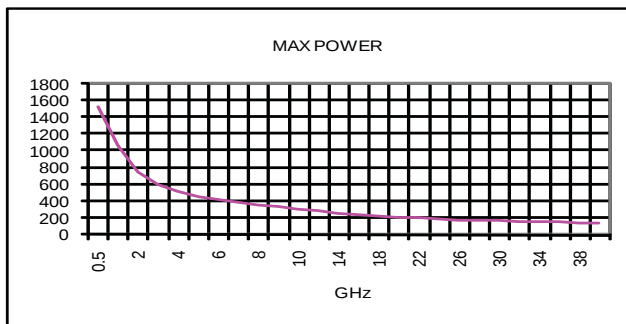
0.036
0.106
0.118
0.125
0.141
0.160

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 45 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.80 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 2.40 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.030 POUNDS PER FOOT

ELECTRICAL :

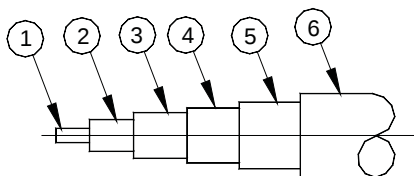
CENTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 4.36 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 26.1 pf / FT.
NOMINAL INDUCTANCE: 65.1 nh / FT
NOMINAL VELOCITY OF PROPAGATION: 78.0 %
NOMINAL DELAY: 1.30 ns / FT.
MAXIMUM OPERATING VOLTAGE: 2,405 VRMS
MAXIMUM CW POWER RATING: 146 WATTS AT 40.0 GHz.
MAXIMUM RETURN LOSS: -20.83 dB AT 40.0 GHz.
MAXIMUM INSERTION LOSS: 88.5 dB / 100 FT AT 40.0 GHz.
NOMINAL INSERTION LOSS: 80.4 dB / 100 FT AT 40.0 GHz.
RELATIVE SHIELDING : -90 dB TRIPLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$11.72 \times \text{square root of the Frequency} + .380 \times \text{Frequency} + 0 = \text{dB}/100'$$

low loss flexible cable dy5



CABLE PART NUMBER :	9-40056
CATEGORY :	FLEXIBLE
DESCRIPTION :	LOW LOSS
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.210 INCHES
MAX. OPERATING FREQUENCY :	26.5 GHz.
CUT OFF FREQUENCY :	29.3 GHz.
CLAMP CABLE GROUP :	126H
SOLDER CABLE GROUP :	126H
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WIRE
2. DIELECTRIC :	AIR SPACED PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP
4. INNER LAYER	ALUMINUM / POLYESTER FOIL
5. OUTER BRAID	SILVER PLATED COPPER WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

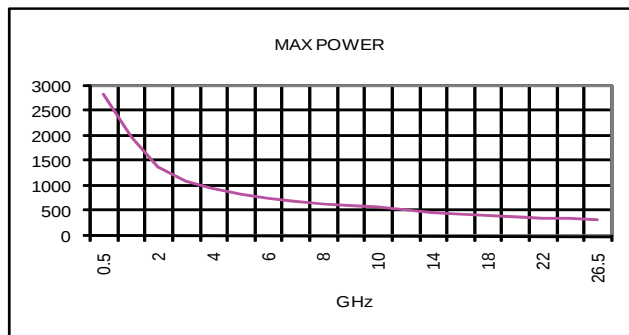
1. CENTER CONDUCTOR :	SILVER PLATED COPPER WIRE	0.051
2. DIELECTRIC :	AIR SPACED PTFE	0.150
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP	0.162
4. INNER LAYER	ALUMINUM / POLYESTER FOIL	0.168
5. OUTER BRAID	SILVER PLATED COPPER WIRE	0.188
6. JACKET :	BLUE TINT EXTRUDED FEP	0.208

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 1.00 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 3.12 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.050 POUNDS PER FOOT

ELECTRICAL :

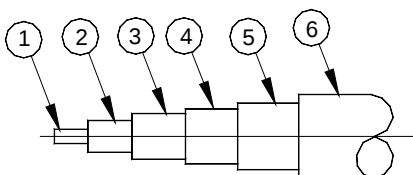
CENTER CONDUCTOR DC RESISTANCE: 0.38 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 4.36 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 26.1 pf / FT.
NOMINAL INDUCTANCE: 0.065 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 78.0 %
NOMINAL DELAY: 1.30 nS / FT.
MAXIMUM OPERATING VOLTAGE: 3,404 VRMS
MAXIMUM CW POWER RATING: 328 WATTS AT 26.5 GHz.
MAXIMUM RETURN LOSS: -20.83 dB AT 26.5 GHz.
MAXIMUM INSERTION LOSS: 47.2 dB / 100 FT AT 26.5 GHz.
NOMINAL INSERTION LOSS: 42.9 dB / 100 FT AT 26.5 GHz.
RELATIVE SHIELDING : -90 dB TRIPLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$7.45 \times \text{square root of the Frequency} + .350 \times \text{Frequency} + 0 = \text{dB}/100'$$

low loss flexible cable dy8



CABLE PART NUMBER :	9-40070
CATEGORY :	FLEXIBLE
DESCRIPTION :	LOW LOSS
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.305 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	19.2 GHz.
CLAMP CABLE GROUP :	118H
SOLDER CABLE GROUP :	118H
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WIRE
2. DIELECTRIC :	AIR SPACED PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP
4. INNER LAYER :	ALUMINUM / POLYESTER FOIL
5. OUTER BRAID :	SILVER PLATED COPPER WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

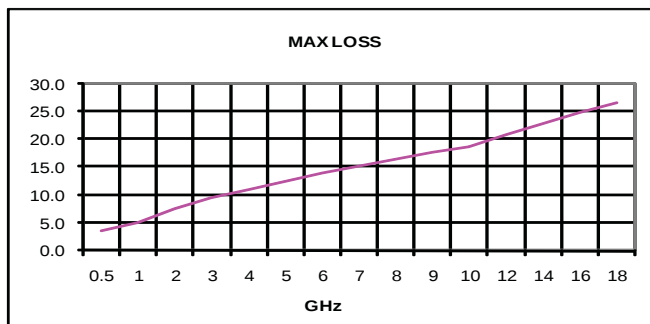
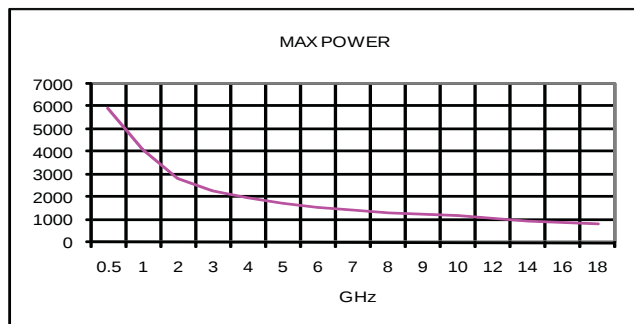
0.078
0.230
0.242
0.246
0.266
0.300

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 80 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 1.50 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 4.50 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.100 POUNDS PER FOOT

ELECTRICAL :

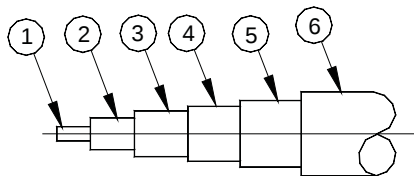
CENTER CONDUCTOR DC RESISTANCE: 0.16 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 4.36 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 26.1 pf / FT.
NOMINAL INDUCTANCE: 0.065 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 78.0 %
NOMINAL DELAY: 1.30 nS / FT.
MAXIMUM OPERATING VOLTAGE: 5,218 VRMS
MAXIMUM CW POWER RATING: 807 WATTS AT 18.0 GHz.
MAXIMUM RETURN LOSS: -20.83 dB AT 18.0 GHz.
MAXIMUM INSERTION LOSS: 26.6 dB / 100 FT AT 18.0 GHz.
NOMINAL INSERTION LOSS: 24.2 dB / 100 FT AT 18.0 GHz.
RELATIVE SHIELDING : -



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$4.76 \times \text{square root of the Frequency} + .370 \times \text{Frequency} + 0 = \text{dB}/100'$$

low loss flexible cable dy11



CABLE PART NUMBER :	9-40087
CATEGORY :	FLEXIBLE
DESCRIPTION :	LOW LOSS
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.435 INCHES
MAX. OPERATING FREQUENCY :	12.0 GHz.
CUT OFF FREQUENCY :	13.4 GHz.
CLAMP CABLE GROUP :	412H
SOLDER CABLE GROUP :	412H
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A

MATERIAL :

1. CENTER CONDUCTOR :	STRANDED SILVER PLATED COPPER WIRE
2. DIELECTRIC :	AIR SPACED PTFE
3. INNER BRAID :	FLAT SILVER PLATED COPPER STRIP
4. INNER LAYER	ALUMINUM / POLYESTER FOIL
5. OUTER BRAID	SILVER PLATED COPPER WIRE
6. JACKET :	BLUE TINT EXTRUDED FEP

DIAMETER

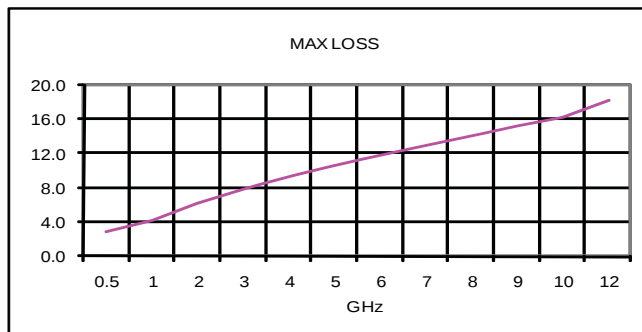
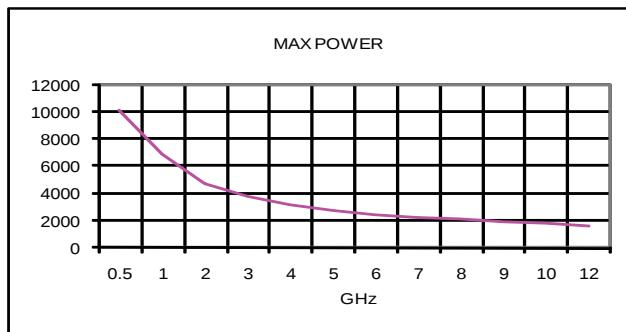
1. CENTER CONDUCTOR :	0.117
2. DIELECTRIC :	0.332
3. INNER BRAID :	0.344
4. INNER LAYER	0.360
5. OUTER BRAID	0.389
6. JACKET :	0.430

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 80 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 2.15 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 6.45 INCHES
TEMPERATURE RANGE: -65 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.14 POUNDS PER FOOT

ELECTRICAL :

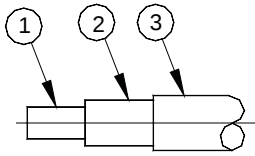
CENTER CONDUCTOR DC RESISTANCE: 0.07 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 4.36 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 26.1 pf / FT.
NOMINAL INDUCTANCE: 0.064 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 78.0 %
NOMINAL DELAY: 1.30 nS / FT.
MAXIMUM OPERATING VOLTAGE: 7,913 VRMS
MAXIMUM CW POWER RATING: 1,630 WATTS AT 12.0 GHz.
MAXIMUM RETURN LOSS: -20.83 dB AT 12.0 GHz.
MAXIMUM INSERTION LOSS: 18.3 dB / 100 FT AT 12.0 GHz.
NOMINAL INSERTION LOSS: 16.6 dB / 100 FT AT 12.0 GHz.
RELATIVE SHIELDING : -90 dB TRIPLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$3.44 \times \text{square root of the Frequency} + .360 \times \text{Frequency} + 0 = \text{dB}/100'$$

.047 semi-rigid cable



CABLE PART NUMBER :	9-40076
CATAGORY :	SEMI-RIGID
DESCRIPTION :	.047
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.049 INCHES
MAX. OPERATING FREQUENCY	20.0 GHz.
CUT OFF FREQUENCY :	110.3 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	472
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/151-00001

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE

DIAMETER

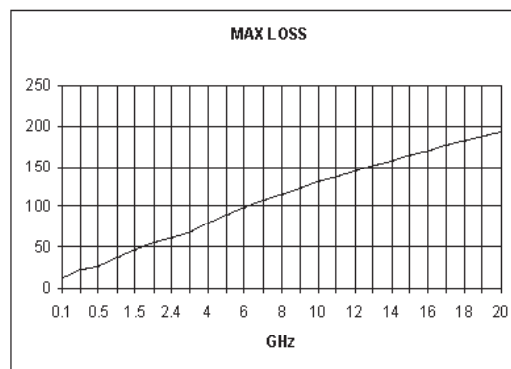
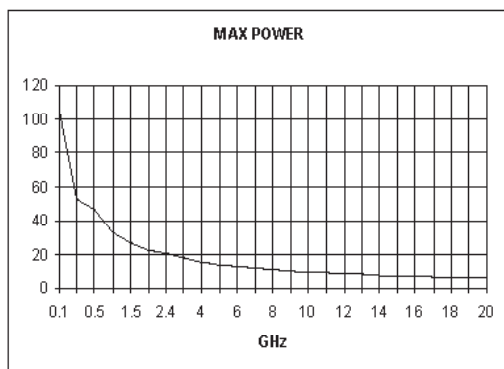
0.011
0.037
0.047

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 15 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.060 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .130 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.050 POUNDS PER FOOT

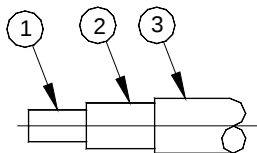
ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 7.68 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 829 VRMS
MAXIMUM CW POWER RATING: 6 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 192.5 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 167.4 dB / 100 FT AT 20.0 GHz.
RELITIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :
 $36.875 \times \text{square root of the Frequency} + 1.380 \times \text{Frequency} + 0 = \text{dB}/100'$

● .047 semi-rigid cable tin plated ●



CABLE PART NUMBER :	9-40019
CATAGORY :	SEMI-RIGID (TIN PLATED)
DESCRIPTION :	.047
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.049 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	110.3 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	472
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/151-00001

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE (TIN PLATED)

DIAMETER

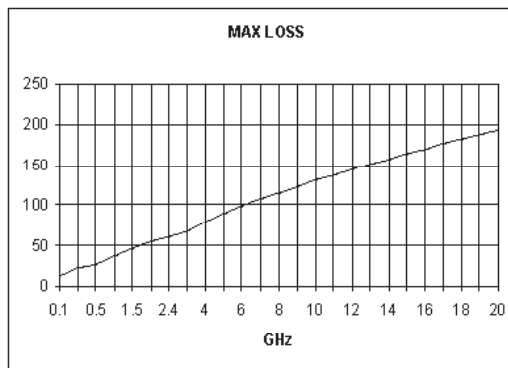
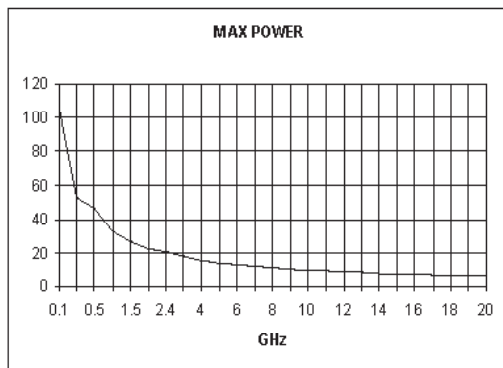
0.011
0.037
0.047

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 15 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.060 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .130 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.050 POUNDS PER FOOT

ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 7.68 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 829 VRMS
MAXIMUM CW POWER RATING: 6 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 192.5 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 167.4 dB / 100 FT AT 20.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



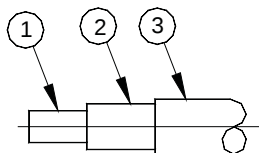
To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$36.875 \times \text{square root of the Frequency} + 1.380 \times \text{Frequency} + 0 = \text{dB}/100'$$

Specifications are subject to change without notice

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.085 semi-rigid cable



CABLE PART NUMBER :	9-40017
CATEGORY :	SEMI-RIGID
DESCRIPTION :	.085
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.088 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	62.0 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/133-RG405 AND M17/133-00006

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE

DIAMETER

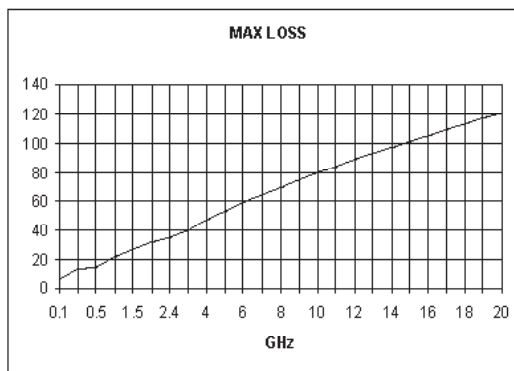
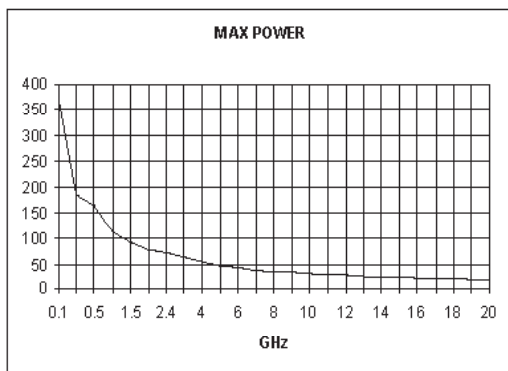
0.020
0.066
0.086

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.130 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .250 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.017 POUNDS PER FOOT

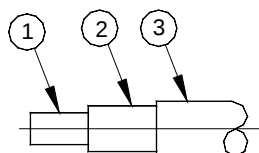
ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,478 VRMS
MAXIMUM CW POWER RATING: 21 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 120.1 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 104.5 dB / 100 FT AT 20.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :
$$20.695 \times \text{square root of the Frequency} + 1.379 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .085 semi-rigid cable tin plated ●



CABLE PART NUMBER :	9-40018
CATEGORY :	SEMI-RIGID (TIN PLATED)
DESCRIPTION :	.085
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.088 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	62.0 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/133-00001 AND M17/133-00007

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE (TIN PLATED)

DIAMETER

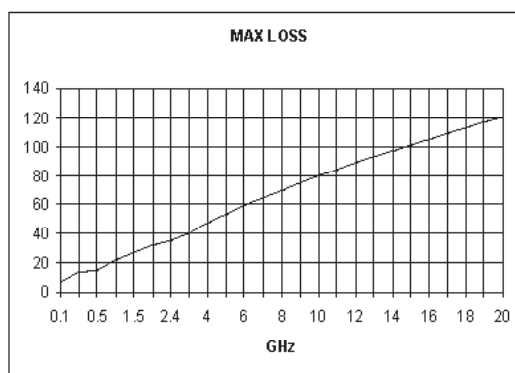
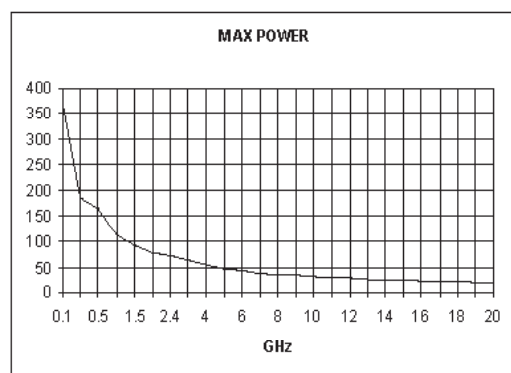
0.020
0.066
0.086

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.130 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .250 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.017 POUNDS PER FOOT

ELECTRICAL :

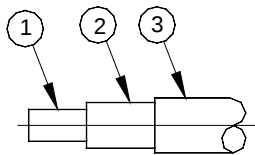
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,478 VRMS
MAXIMUM CW POWER RATING: 21 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 120.1 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 104.5 dB / 100 FT AT 20.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$20.695 \times \text{square root of the Frequency} + 1.379 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .085 semi-rigid cable aluminum ●



CABLE PART NUMBER :	9-40009
CATEGORY :	SEMI-RIGID (ALUMINUM TIN PLATED)
DESCRIPTION :	.085
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.088 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	62.0 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/133-00001 AND M17/133-00007

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	TIN PLATED ALUMINUM TUBE

DIAMETER

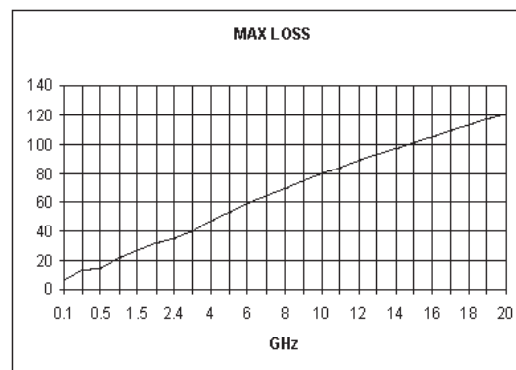
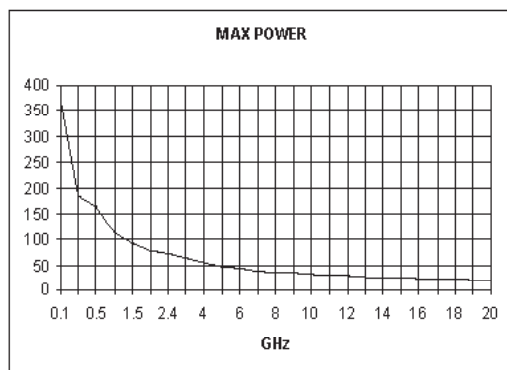
0.020
0.066
0.086

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.130 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .250 INCHES
 TEMPERATURE RANGE: -55 / +125 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.009 POUNDS PER FOOT

ELECTRICAL :

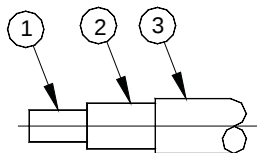
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.7 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,478 VRMS
 MAXIMUM CW POWER RATING: 22 WATTS AT 20.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
 MAXIMUM INSERTION LOSS: 113.0 dB / 100 FT AT 20.0 GHz.
 NOMINAL INSERTION LOSS: 109.7 dB / 100 FT AT 20.0 GHz.
 RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$19.738 \times \text{square root of the Frequency} + 1.236 \times \text{Frequency} + 0 = \text{dB}/100'$$

.141 semi-rigid cable



CABLE PART NUMBER :	9-40013
CATEGORY :	SEMI-RIGID
DESCRIPTION :	.141
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.143 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	34.4 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/130-RG402 AND M17/130-00004

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE

DIAMETER

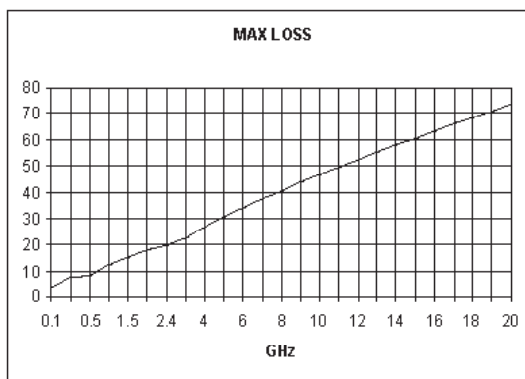
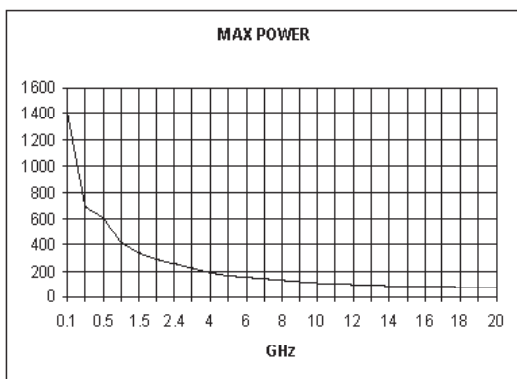
0.036
0.117
0.144

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 45 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .500 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.037 POUNDS PER FOOT

ELECTRICAL :

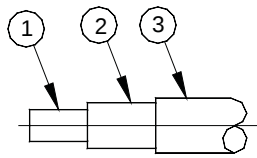
CENTER CONDUCTOR DC RESISTANCE: .75 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.08 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,883 VRMS
MAXIMUM CW POWER RATING: 68 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 173.5 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 68.7 dB / 100 FT AT 20.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$10.69 \times \text{square root of the Frequency} + 1.285 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .141 semi-rigid cable tin plated ●



CABLE PART NUMBER :	9-40046
CATAGORY :	SEMI-RIGID (TIN PLATED)
DESCRIPTION :	.141
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.143 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	34.4 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/130-00001 AND M17/130-00005

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE (TIN PLATED)

DIAMETER

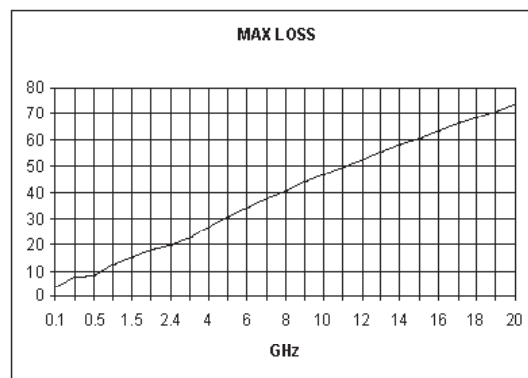
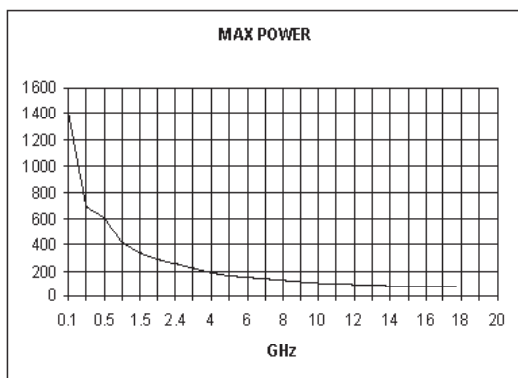
0.036
0.117
0.144

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 45 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .500 INCHES
 TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.037 POUNDS PER FOOT

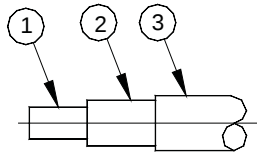
ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: .75 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.08 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.7 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,883 VRMS
 MAXIMUM CW POWER RATING: 68 WATTS AT 20.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
 MAXIMUM INSERTION LOSS: 173.5 dB / 100 FT AT 20.0 GHz.
 NOMINAL INSERTION LOSS: 68.7 dB / 100 FT AT 20.0 GHz.
 RELITVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :
 $10.69 \times \text{square root of the Frequency} + 1.285 \times \text{Frequency} + 0 = \text{dB}/100'$

● .141 semi-rigid cable aluminum ●



CABLE PART NUMBER :	9-40010
CATEGORY :	SEMI-RIGID (ALUMINUM TIN PLATED)
DESCRIPTION :	.141
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.143 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	34.4 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/130-00009

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	ALUMINUM TUBE (TIN PLATED)

DIAMETER

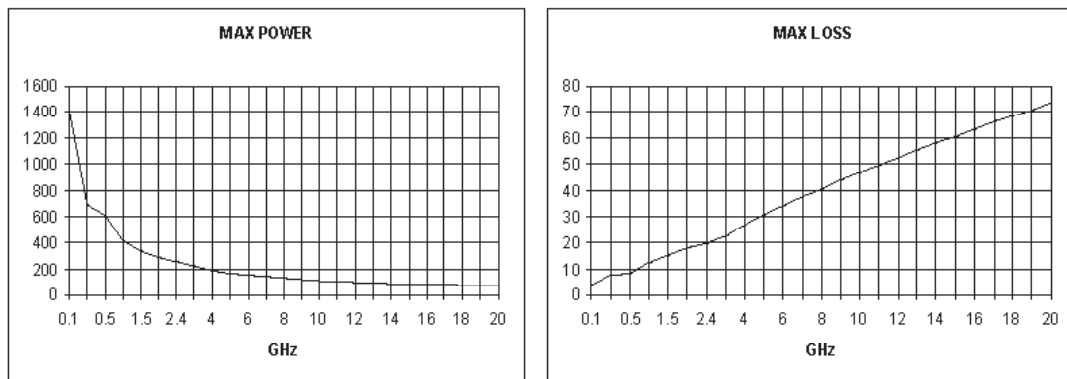
0.036
0.117
0.144

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 30 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .500 INCHES
TEMPERATURE RANGE: -55 / +125 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.034 POUNDS PER FOOT

ELECTRICAL :

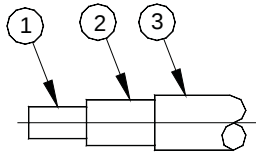
CENTER CONDUCTOR DC RESISTANCE: .75 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.12 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.7 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 1,883 VRMS
MAXIMUM CW POWER RATING: 69 WATTS AT 20.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
MAXIMUM INSERTION LOSS: 72.9 dB / 100 FT AT 20.0 GHz.
NOMINAL INSERTION LOSS: 71.5 dB / 100 FT AT 20.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$10.833 \times \text{square root of the Frequency} + 1.225 \times \text{Frequency} + 0 = \text{dB}/100'$$

.250 semi-rigid cable



CABLE PART NUMBER :	9-40083
CATEGORY :	SEMI-RIGID
DESCRIPTION :	.250
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.252 INCHES
MAX. OPERATING FREQUENCY	18.0 GHz.
CUT OFF FREQUENCY :	19.3 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/129-RG401

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE

DIAMETER

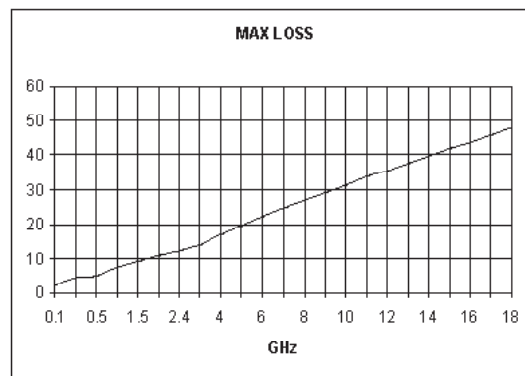
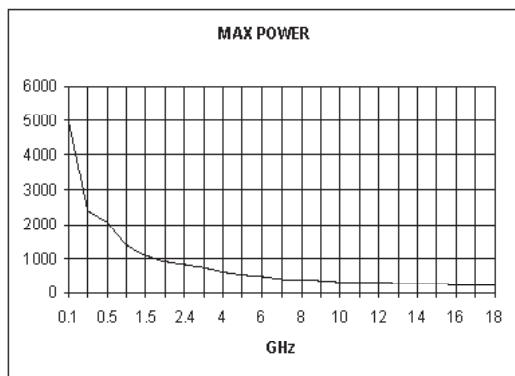
0.064
0.209
0.250

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.380 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .630 INCHES
TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.116 POUNDS PER FOOT

ELECTRICAL :

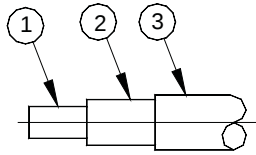
CENTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.02 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.7 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.5 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 3,348 VRMS
MAXIMUM CW POWER RATING: 209 WATTS AT 18.0 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 18.0 GHz.
MAXIMUM INSERTION LOSS: 47.8 dB / 100 FT AT 18.0 GHz.
NOMINAL INSERTION LOSS: 45.5 dB / 100 FT AT 18.0 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$5.91 \times \text{square root of the Frequency} + 1.260 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .250 semi-rigid cable tin plated ●



CABLE PART NUMBER :	9-40084
CATEGORY :	SEMI-RIGID (TIN PLATED)
DESCRIPTION :	.250
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.252 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	19.3 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/129-00001

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	COPPER TUBE (TIN PLATED)

DIAMETER

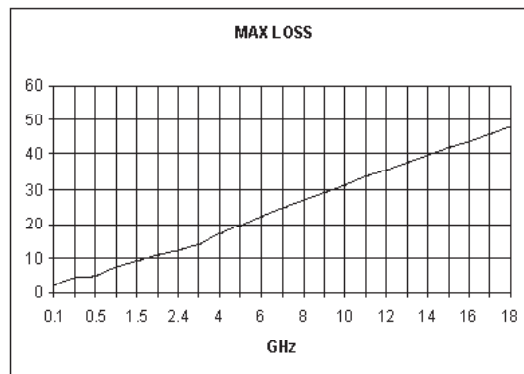
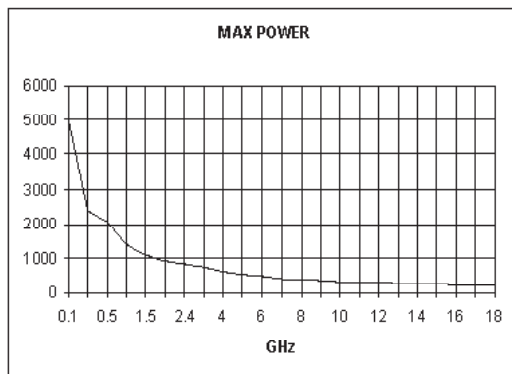
0.064
0.209
0.250

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.380 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .630 INCHES
 TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.117 POUNDS PER FOOT

ELECTRICAL :

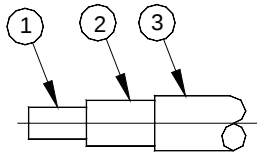
CENTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.02 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 3,348 VRMS
 MAXIMUM CW POWER RATING: 209 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 47.8 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 45.5 dB / 100 FT AT 18.0 GHz.
 RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$5.91 \times \text{square root of the Frequency} + 1.260 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .250 semi-rigid cable aluminum ●



CABLE PART NUMBER :	9-40085
CATAGORY :	SEMI-RIGID (ALUMINUM TIN PLATED)
DESCRIPTION :	.250
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.252 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	19.3 GHz.
CLAMP CABLE GROUP :	N/A
SOLDER CABLE GROUP :	412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	M17/129-00001

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER WELD STEEL
2. DIELECTRIC :	PTFE
3. JACKET :	ALUMINUM TUBE (TIN PLATED)

DIAMETER

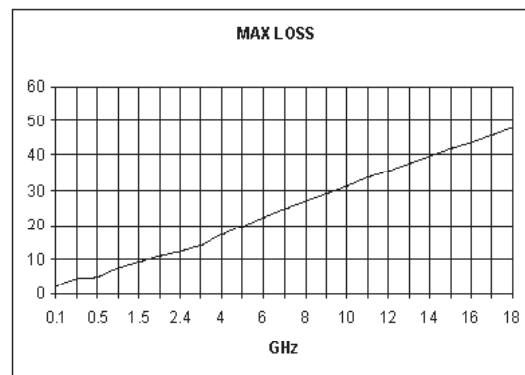
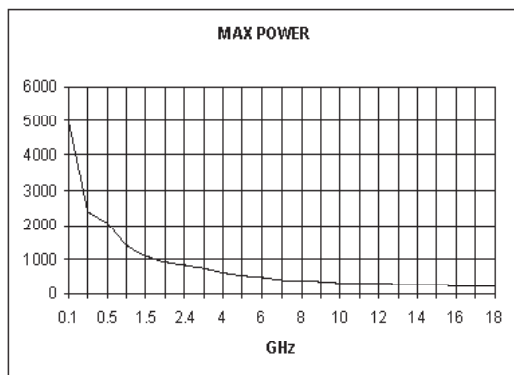
0.064
0.209
0.250

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.380 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .630 INCHES
 TEMPERATURE RANGE: -55 / +175 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.117 POUNDS PER FOOT

ELECTRICAL :

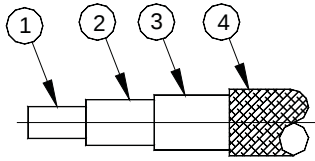
CENTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.02 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.7 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 3,348 VRMS
 MAXIMUM CW POWER RATING: 209 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 47.8 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 45.5 dB / 100 FT AT 18.0 GHz.
 RELITIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$5.91 \times \text{square root of the Frequency} + 1.260 \times \text{Frequency} + 0 = \text{dB}/100'$$

.085 conformable[®] cable



CABLE PART NUMBER :	9-40002
CATEGORY :	CONFORMABLE
DESCRIPTION :	.085 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.088 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	61.7 GHz.
CLAMP CABLE GROUP :	854
SOLDER CABLE GROUP :	9086, 852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
[®] BELDEN PART NUMBER :	1671A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID	COPPER/POLYESTER FOIL
4. JACKET :	TIN FILLED, HIGH STRENGTH COMPOSITE BRAID

DIAMETER

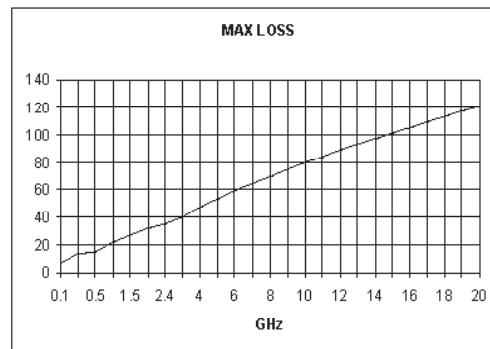
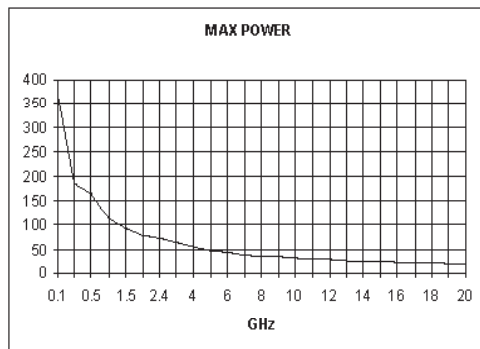
0.020
0.063
0.073
0.085

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 25 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.130 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .380 INCHES
 TEMPERATURE RANGE: -70 / +200 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.013 POUNDS PER FOOT

ELECTRICAL :

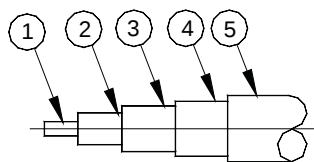
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.28 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.8 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,421 VRMS
 MAXIMUM CW POWER RATING: 21 WATTS AT 20.0 GHz.
 MAXIMUM RETURN LOSS: -22 dB AT 20.0 GHz.
 MAXIMUM INSERTION LOSS: 116.6 dB / 100 FT AT 20.0 GHz.
 NOMINAL INSERTION LOSS: 101.4 dB / 100 FT AT 20.0 GHz.
 RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$21.45 \times \text{square root of the Frequency} + 1.420 \times \text{Frequency} + 0 = \text{dB}/100'$$

.085 t-flex[®] cable



CABLE PART NUMBER :	9-40078
CATEGORY :	SPIRAL STRIP
DESCRIPTION :	.085 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.110 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	61.7 GHz.
CLAMP CABLE GROUP :	854
SOLDER CABLE GROUP :	9086, 852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
[®] TIMES MICROWAVE :	T-FLEX 405

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	SILVER PLATED COPPER SPIRAL STRIP
4. OUTER BRAID :	SILVER PLATED ROUND WIRE BRAID
5. JACKET :	BLUE EXTRUDED FEP

DIAMETER

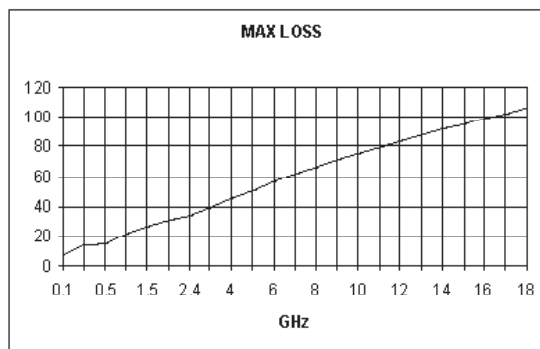
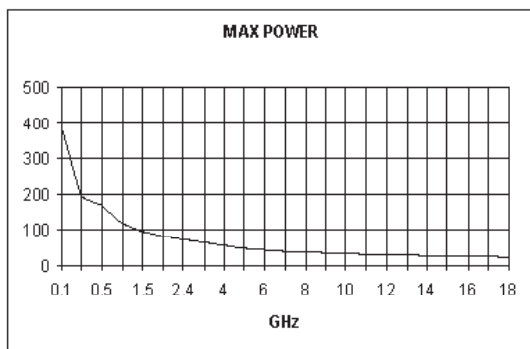
0.020
0.063
0.073
0.085
0.110

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 25 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.150 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .380 INCHES
 TEMPERATURE RANGE: -65 / +125 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.015 POUNDS PER FOOT

ELECTRICAL :

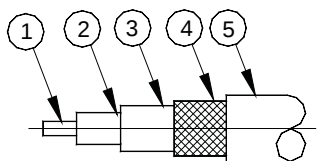
CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.25 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.8 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,421 VRMS
 MAXIMUM CW POWER RATING: 24 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -22 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 106.1 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 101.1 dB / 100 FT AT 18.0 GHz.
 RELATIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$19.93 \times \text{square root of the Frequency} + 1.198 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .085 conformable® /w pvc jacket ●



CABLE PART NUMBER :	9-40054
CATEGORY :	CONFORMABLE WITH PVC JACKET
DESCRIPTION :	.085 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.132 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	61.7 GHz.
CLAMP CABLE GROUP :	854
SOLDER CABLE GROUP :	9086, 852
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
® BELDEN PART NUMBER :	1671J

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	COPPER POLYESTER FOIL
4. OUTER BRAID :	TIN FILLED, HIGH STRENGTH COMPOSITE BRAID
5. JACKET :	BLACK POLYVINYLCHLORIDE (PVC)

DIAMETER

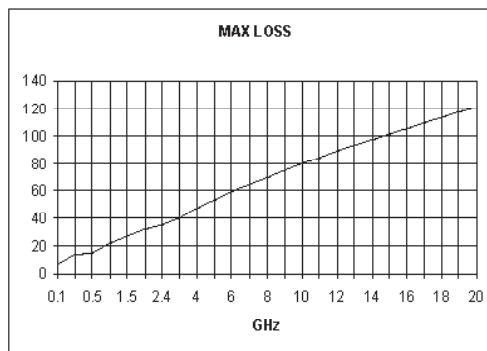
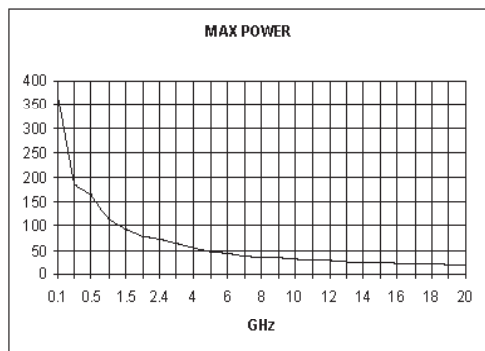
0.020
0.063
0.073
0.085
0.127

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 25 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.130 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .380 INCHES
 TEMPERATURE RANGE: -50 / +105 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.015 POUNDS PER FOOT

ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 2.43 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.28 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.8 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 1,421 VRMS
 MAXIMUM CW POWER RATING: 21 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -22 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 116.6 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 106.0 dB / 100 FT AT 18.0 GHz.
 RELATIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$21.45 \times \text{square root of the Frequency} + 1.420 \times \text{Frequency} + 0 = \text{dB}/100'$$

Specifications are subject to change without notice

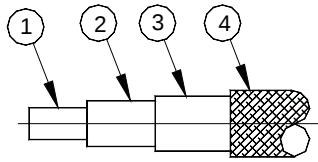
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311

.141 conformable[®] cable



CABLE PART NUMBER :	9-40003
CATAGORY :	CONFORMABLE
DESCRIPTION :	.141 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.141 INCHES
MAX. OPERATING FREQUENCY :	34.4 GHz.
CUT OFF FREQUENCY :	41.4 GHz.
CLAMP CABLE GROUP :	414
SOLDER CABLE GROUP :	9141, 412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
® BELDEN PART NUMBER :	1673A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID	COPPER/POLYESTER FOIL
4. JACKET :	TIN FILLED, HIGH STRENGTH COMPOSITE BRAID

DIAMETER

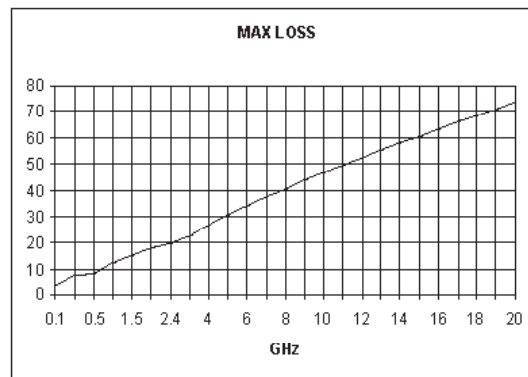
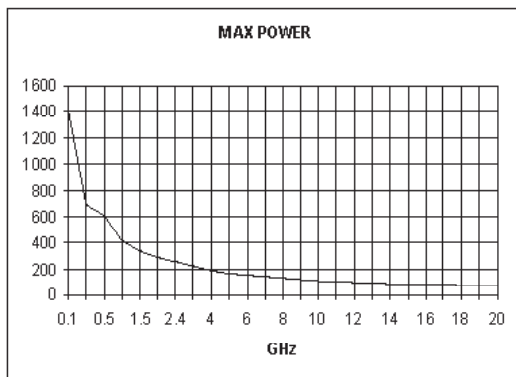
0.036
0.117
0.138
0.127

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: .750 INCHES
TEMPERATURE RANGE: -70 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.022 POUNDS PER FOOT

ELECTRICAL :

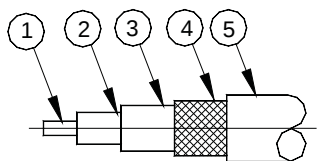
CENTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.08 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.8 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.5 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 2,625 VRMS
MAXIMUM CW POWER RATING: 74 WATTS AT 18.0 GHz.
MAXIMUM RETURN LOSS: -22 dB AT 18.0 GHz.
MAXIMUM INSERTION LOSS: 78.7 dB / 100 FT AT 18.0 GHz.
NOMINAL INSERTION LOSS: 65.6 dB / 100 FT AT 18.0 GHz.
RELITIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$12.92 \times \text{square root of the Frequency} + 1.325 \times \text{Frequency} + 0 = \text{dB}/100'$$

● .141 conformable® /w pvc jacket ●



CABLE PART NUMBER :	9-40086
CATEGORY :	CONFORMABLE WITH PVC JACKET
DESCRIPTION :	.141 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.190 INCHES
MAX. OPERATING FREQUENCY :	34.4 GHz.
CUT OFF FREQUENCY :	41.4 GHz.
CLAMP CABLE GROUP :	414
SOLDER CABLE GROUP :	9141, 412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
® BELDEN PART NUMBER :	1673A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	COPPER POLYESTER FOIL
4. OUTER BRAID :	TIN FILLED, HIGH STRENGTH COMPOSITE BRAID
5. JACKET :	BLACK POLYVINYLCHLORIDE (PVC)

DIAMETER

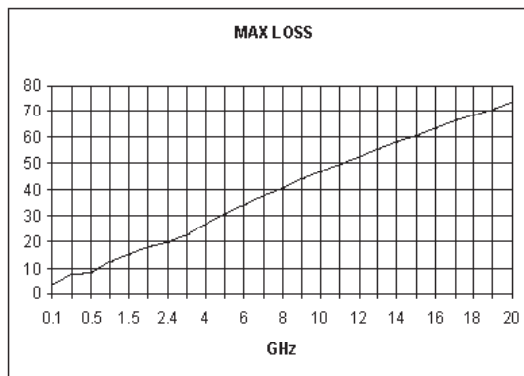
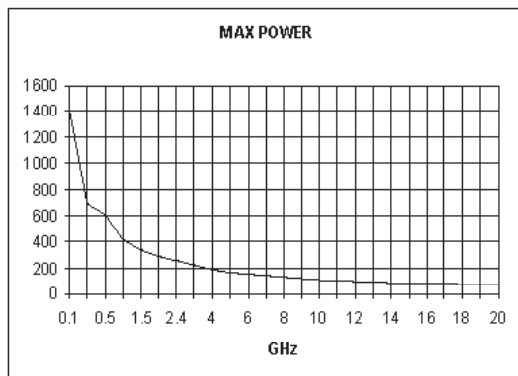
0.036
0.117
0.127
0.138
0.190

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .750 INCHES
 TEMPERATURE RANGE: -70 / +200 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.022 POUNDS PER FOOT

ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.08 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.8 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 2,625 VRMS
 MAXIMUM CW POWER RATING: 74 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -22 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 78.7 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 65.6 dB / 100 FT AT 18.0 GHz.
 RELATIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$12.92 \times \text{square root of the Frequency} + 1.325 \times \text{Frequency} + 0 = \text{dB}/100'$$

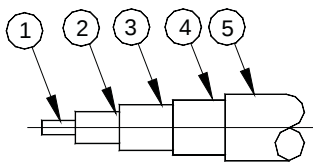
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.141 t-flex[®] cable



CABLE PART NUMBER :	9-40079
CATEGORY :	SPIRAL STRIP
DESCRIPTION :	.141 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.168 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	34.4 GHz.
CLAMP CABLE GROUP :	414
SOLDER CABLE GROUP :	9141, 412
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
[®] TIMES MICROWAVE :	T-FLEX 402

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER
2. DIELECTRIC :	SOLID PTFE
3. INNER BRAID :	SILVER PLATED COPPER SPIRAL STRIP
4. OUTER BRAID :	SILVER PLATED ROUND WIRE BRAID
5. JACKET :	BLUE EXTRUDED FEP

DIAMETER

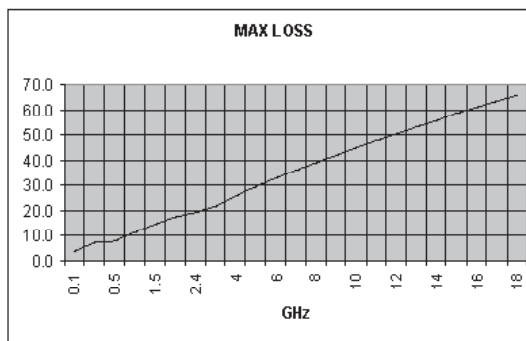
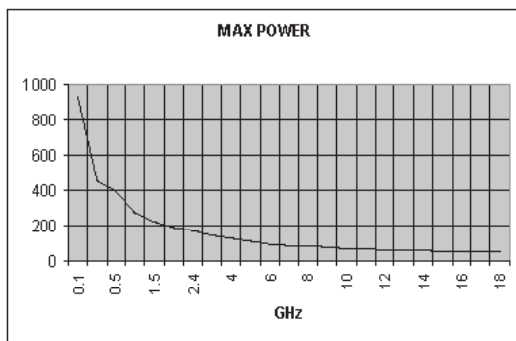
0.036
0.118
0.128
0.141
0.160

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 50 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 0.250 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: .500 INCHES
 TEMPERATURE RANGE: -65 / +125 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.033 POUNDS PER FOOT

ELECTRICAL :

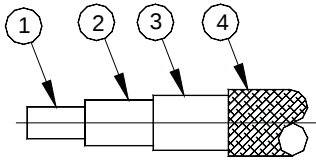
CENTER CONDUCTOR DC RESISTANCE: 0.76 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.07 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 28.8 pf / FT.
 NOMINAL INDUCTANCE: 0.072 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 70.5 %
 NOMINAL DELAY: 1.44 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 2,634 VRMS
 MAXIMUM CW POWER RATING: 48 WATTS AT 18.0 GHz.
 MAXIMUM RETURN LOSS: -22 dB AT 18.0 GHz.
 MAXIMUM INSERTION LOSS: 65.9 dB / 100 FT AT 18.0 GHz.
 NOMINAL INSERTION LOSS: 62.7 dB / 100 FT AT 18.0 GHz.
 RELATIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$10.435 \times \text{square root of the Frequency} + 1.200 \times \text{Frequency} + 0 = \text{dB}/100'$$

.250 conformable[®] cable



CABLE PART NUMBER :	9-40073
CATEGORY :	CONFORMABLE
DESCRIPTION :	.250 RIGID TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.249 INCHES
MAX. OPERATING FREQUENCY :	18.0 GHz.
CUT OFF FREQUENCY :	19.3 GHz.
CLAMP CABLE GROUP :	251
SOLDER CABLE GROUP :	9250, 252
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
® BELDEN PART NUMBER :	1675A

MATERIAL :

1. CENTER CONDUCTOR :	SILVER PLATED COPPER CLAD STEEL
2. DIELECTRIC :	SOLID PTFE
3. OUTER BRAID	COPPER/POLYESTER FOIL
4. JACKET :	TIN FILLED, HIGH STRENGTH COMPOSITE BRAID

DIAMETER

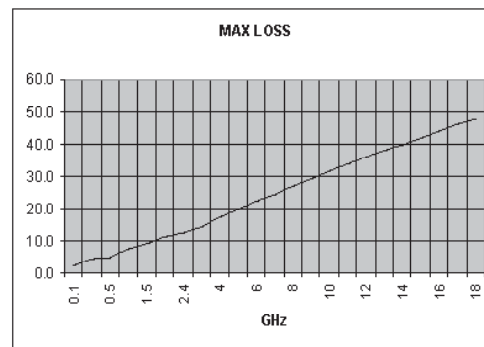
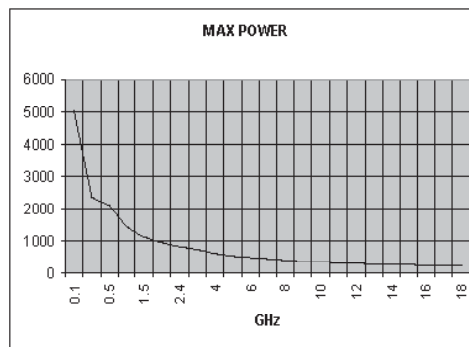
0.064
0.209
0.219
0.246

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME): 0.500 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS: 1.130 INCHES
TEMPERATURE RANGE: -70 / +200 DEGREES CELSIUS
WEIGHT MAXIMUM: 0.089 POUNDS PER FOOT

ELECTRICAL :

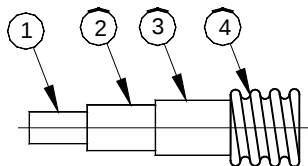
CENTER CONDUCTOR DC RESISTANCE: 0.24 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.03 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 28.8 pf / FT.
NOMINAL INDUCTANCE: 0.072 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 70.5 %
NOMINAL DELAY: 1.44 nS / FT.
MAXIMUM OPERATING VOLTAGE: 4,687 VRMS
MAXIMUM CW POWER RATING: 191 WATTS AT 18.0 GHz.
MAXIMUM RETURN LOSS: -17 dB AT 18.0 GHz.
MAXIMUM INSERTION LOSS: 52.3 dB / 100 FT AT 18.0 GHz.
NOMINAL INSERTION LOSS: 45.5 dB / 100 FT AT 18.0 GHz.
RELATIVE SHIELDING : -100 dB DOUBLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$6.49 \times \text{square root of the Frequency} + 1.375 \times \text{Frequency} + 0 = \text{dB}/100'$$

.250 superflex[®] cable



CABLE PART NUMBER :	9-40006
CATEGORY :	SUPERFLEX
DESCRIPTION :	.250 HELIAX TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.300 INCHES
MAX. OPERATING FREQUENCY :	20.0 GHz.
CUT OFF FREQUENCY :	22.7 GHz.
CLAMP CABLE GROUP :	274
SOLDER CABLE GROUP :	N/A
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
ANDREW CORPORATION :	FSJ1RN-50B

MATERIAL :

1. CENTER CONDUCTOR :	COPPER CLAD ALUMINUM WIRE
2. DIELECTRIC :	FOAM POLYETHYLENE
3. OUTER BRAID :	CORROGATED COPPER TUBE
4. JACKET :	NON-HALOGENATED, FIRE RETARDANT

DIAMETER

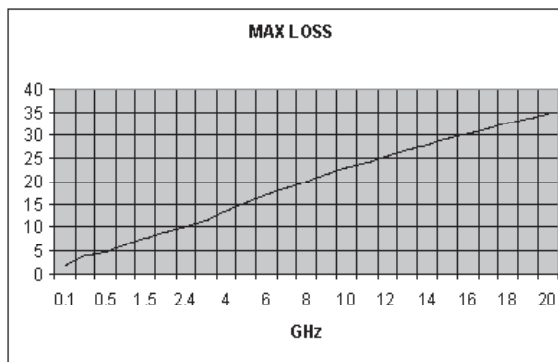
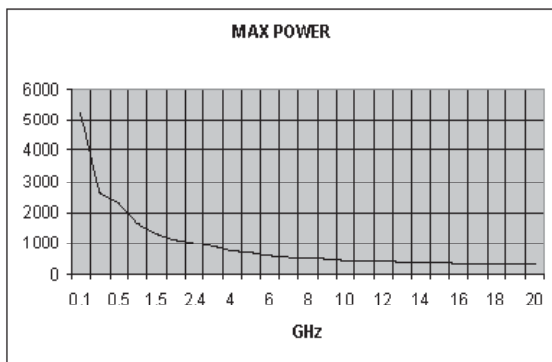
0.075
0.202
0.250
0.290

MECHANICAL :

OUTER CONDUCTOR INTEGRITY: 60 POUNDS MINIMUM AXIAL PULL
 MINIMUM BEND RADIUS (ONE TIME): 1.00 INCHES FIXED INSTALLATION
 PREFERRED BEND RADIUS: 2.250 INCHES
 TEMPERATURE RANGE: -70 / +85 DEGREES CELSIUS
 WEIGHT MAXIMUM: 0.045 POUNDS PER FOOT

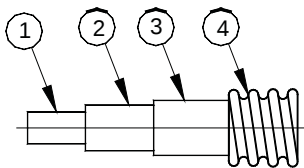
ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 0.28 OHMS / 100 FEET NOMINAL
 OUTER CONDUCTOR DC RESISTANCE: 0.03 OHMS / 100 FEET NOMINAL
 NOMINAL IMPEDANCE: 50 OHMS
 NOMINAL CAPACITANCE: 24.2 pf / FT.
 NOMINAL INDUCTANCE: 0.060 uh / FT
 NOMINAL VELOCITY OF PROPAGATION: 84.0 %
 NOMINAL DELAY: 1.21 nS / FT.
 MAXIMUM OPERATING VOLTAGE: 4,597 VRMS
 MAXIMUM CW POWER RATING: 288 WATTS AT 20.0 GHz.
 MAXIMUM RETURN LOSS: -20 dB AT 20.0 GHz.
 MAXIMUM INSERTION LOSS: 34.8 dB / 100 FT AT 20.0 GHz.
 NOMINAL INSERTION LOSS: 33.1 dB / 100 FT AT 20.0 GHz.
 RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :
 $5.85 \times \text{square root of the Frequency} + 0.430 \times \text{Frequency} + 0 = \text{dB}/100'$

.500 superflex[®] cable



CABLE PART NUMBER :	9-40007
CATEGORY :	SUPERFLEX
DESCRIPTION :	.500 HELIAX TYPE
IMPEDANCE :	50 OHMS
MAX. O.D. :	0.545 INCHES
MAX. OPERATING FREQUENCY :	10.2 GHz.
CUT OFF FREQUENCY :	11.3 GHz.
CLAMP CABLE GROUP :	554
SOLDER CABLE GROUP :	N/A
CRIMP CABLE GROUP :	N/A
MIL. SPEC. :	N/A
ANDREW CORPORATION :	FSJ4RN-50B

MATERIAL :

1. CENTER CONDUCTOR :	COPPER CLAD ALUMINUM WIRE
2. DIELECTRIC :	FOAM POLYETHYLENE
3. OUTER BRAID	CORROGATED COPPER TUBE
4. JACKET :	NON-HOLOGENATED, FIRE RETARDANT

DIAMETER

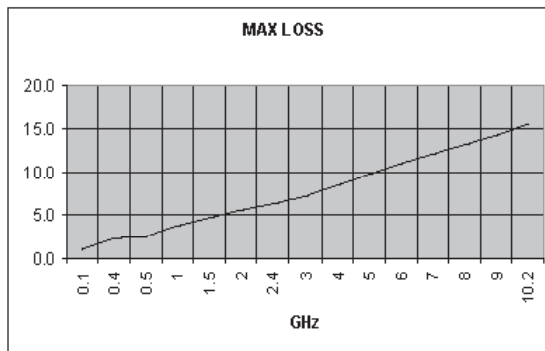
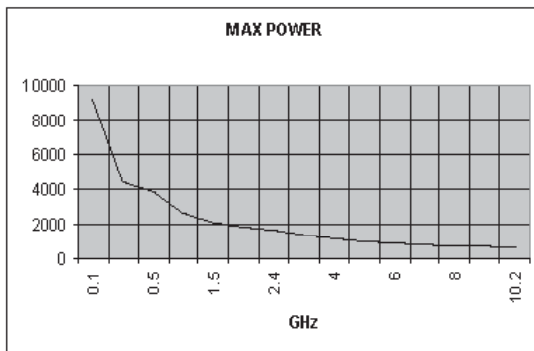
0.142
0.397
0.480
0.530

MECHANICAL :

OUTER CONDUCTOR INTEGRITY:	60 POUNDS MINIMUM AXIAL PULL
MINIMUM BEND RADIUS (ONE TIME):	1.25 INCHES FIXED INSTALLATION
PREFERRED BEND RADIUS:	3.00 INCHES
TEMPERATURE RANGE:	-70 / +85 DEGREES CELSIUS
WEIGHT MAXIMUM:	0.143 POUNDS PER FOOT

ELECTRICAL :

CENTER CONDUCTOR DC RESISTANCE: 0.08 OHMS / 100 FEET NOMINAL
OUTER CONDUCTOR DC RESISTANCE: 0.01 OHMS / 100 FEET NOMINAL
NOMINAL IMPEDANCE: 50 OHMS
NOMINAL CAPACITANCE: 25.1 pf / FT.
NOMINAL INDUCTANCE: 0.063 uh / FT
NOMINAL VELOCITY OF PROPAGATION: 81.0 %
NOMINAL DELAY: 1.26 nS / FT.
MAXIMUM OPERATING VOLTAGE: 9,031 VRMS
MAXIMUM CW POWER RATING: 644 WATTS AT 10.2 GHz.
MAXIMUM RETURN LOSS: -20 dB AT 10.2 GHz.
MAXIMUM INSERTION LOSS: 15.5 dB / 100 FT AT 10.2 GHz.
NOMINAL INSERTION LOSS: 14.8 dB / 100 FT AT 10.2 GHz.
RELATIVE SHIELDING : -100 dB SINGLE SHIELDED



To calculate the Maximum Insertion Loss at any Frequency use the formula below :

$$3.30 \times \text{square root of the Frequency} + 0.488 \times \text{Frequency} + 0 = \text{dB}/100'$$

Specifications are subject to change without notice

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Notes

cable assemblies

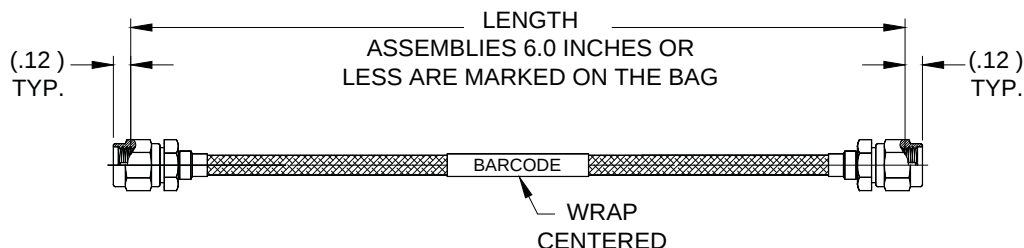


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INCORPORATED

cable assemblies

sma, plug, straight, .085 conformable cable, sma, plug, straight



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.088 INCHES
MINIMUM BEND RADIUS:	0.13 INCHES
CONNECTOR RETENTION:	25 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	750 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATED
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

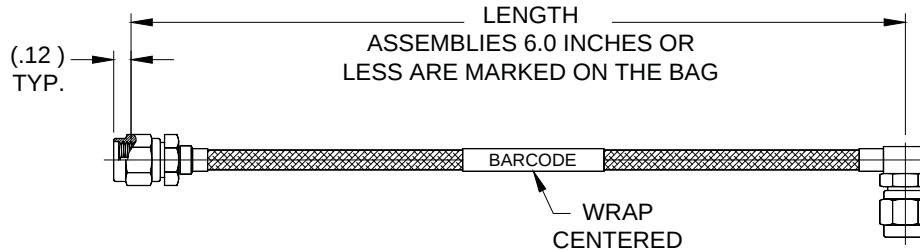
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9086-88002	2.0	0.03	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.09	0.13	0.18	0.23	0.34	0.40
9898-9086-88004	4.0	0.06	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.13	0.18	0.26	0.33	0.50	0.60
9898-9086-88006	6.0	0.06	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.16	0.24	0.34	0.43	0.65	0.79
9898-9086-88008	8.0	0.10	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.20	0.29	0.42	0.53	0.81	0.99
9898-9086-88010	10.0	0.10	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.24	0.35	0.50	0.63	0.96	1.18
9898-9086-88012	12.0	0.10	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.28	0.40	0.59	0.73	1.12	1.37
9898-9086-88015	15.0	0.15	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.34	0.49	0.71	0.89	1.35	1.67
9898-9086-88018	18.0	0.15	0.6	1.06	1.10	1.14	1.18	1.22	1.30	0.39	0.57	0.83	1.04	1.58	1.96
9898-9086-88021	21.0	0.20	0.6	1.06	1.10	1.14	1.18	1.22	1.30	0.45	0.65	0.95	1.19	1.82	2.25
9898-9086-88024	24.0	0.20	0.7	1.06	1.10	1.14	1.18	1.22	1.30	0.51	0.74	1.07	1.34	2.05	2.54
9898-9086-88028	28.0	0.28	0.7	1.06	1.10	1.14	1.18	1.22	1.30	0.58	0.85	1.23	1.55	2.36	2.93
9898-9086-88032	32.0	0.32	0.8	1.06	1.10	1.14	1.18	1.22	1.30	0.68	0.96	1.40	1.75	2.67	3.32
9898-9086-88036	36.0	0.36	0.8	1.06	1.10	1.14	1.18	1.22	1.30	0.74	1.07	1.56	1.96	2.98	3.71
9898-9086-88042	42.0	0.42	0.9	1.06	1.10	1.14	1.18	1.22	1.30	0.95	1.23	1.80	2.26	3.45	4.29
9898-9086-88048	48.0	0.48	1.0	1.06	1.10	1.14	1.18	1.22	1.30	0.96	1.40	2.04	2.57	3.91	4.88

Specifications are subject to change without notice

cable assemblies

sma, plug, straight, .085 conformable cable, sma, plug, right angle



MECHANICAL SPECIFICATIO	
CABLE MAX. DIAMETER:	0.088 INCHES
MINIMUM BEND RADIUS:	0.13 INCHES
CONNECTOR RETENTION:	25 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	750 WATTS MAX.

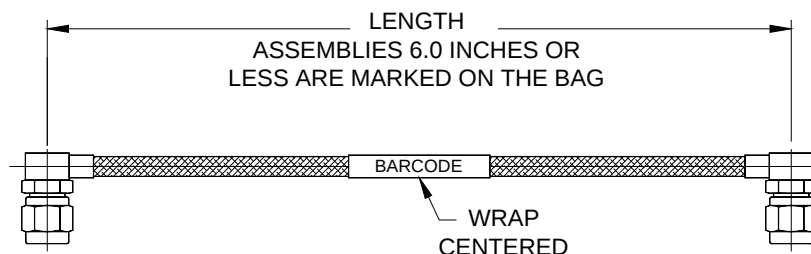
MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS															
PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9086-68002	2.0	0.03	0.4	1.10	1.14	1.18	1.25	1.30	1.35	0.10	0.14	0.20	0.25	0.38	0.45
9898-9086-68004	4.0	0.06	0.4	1.10	1.14	1.18	1.25	1.30	1.35	0.14	0.20	0.28	0.35	0.53	0.65
9898-9086-68006	6.0	0.06	0.4	1.10	1.14	1.18	1.25	1.30	1.35	0.17	0.25	0.36	0.45	0.69	0.84
9898-9086-68008	8.0	0.10	0.4	1.10	1.14	1.18	1.25	1.30	1.35	0.21	0.31	0.44	0.56	0.85	1.03
9898-9086-68010	10.0	0.10	0.5	1.10	1.14	1.18	1.25	1.30	1.35	0.25	0.36	0.53	0.66	1.00	1.23
9898-9086-68012	12.0	0.10	0.5	1.10	1.14	1.18	1.25	1.30	1.35	0.29	0.42	0.61	0.76	1.16	1.42
9898-9086-68015	15.0	0.15	0.5	1.10	1.14	1.18	1.25	1.30	1.35	0.35	0.50	0.73	0.91	1.39	1.72
9898-9086-68018	18.0	0.15	0.6	1.10	1.14	1.18	1.25	1.30	1.35	0.40	0.58	0.85	1.06	1.62	2.01
9898-9086-68021	21.0	0.20	0.6	1.10	1.14	1.18	1.25	1.30	1.35	0.46	0.67	0.97	1.22	1.85	2.30
9898-9086-68024	24.0	0.20	0.7	1.10	1.14	1.18	1.25	1.30	1.35	0.52	0.75	1.09	1.37	2.09	2.59
9898-9086-68028	28.0	0.28	0.7	1.10	1.14	1.18	1.25	1.30	1.35	0.59	0.86	1.25	1.57	2.40	2.98
9898-9086-68032	32.0	0.32	0.8	1.10	1.14	1.18	1.25	1.30	1.35	0.67	0.97	1.42	1.78	2.71	3.37
9898-9086-68036	36.0	0.36	0.8	1.10	1.14	1.18	1.25	1.30	1.35	0.75	1.09	1.58	1.98	3.02	3.76
9898-9086-68042	42.0	0.42	0.9	1.10	1.14	1.18	1.25	1.30	1.35	0.86	1.25	1.82	2.29	3.48	4.34
9898-9086-68048	48.0	0.48	1.0	1.10	1.14	1.18	1.25	1.30	1.35	0.97	1.41	2.06	2.59	3.95	4.93

Specifications are subject to change without notice

cable assemblies

sma, plug, right angle, .085 conformable cable, sma, plug, right angle



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.088 INCHES
MINIMUM BEND RADIUS:	0.13 INCHES
CONNECTOR RETENTION:	25 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1000 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	750 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

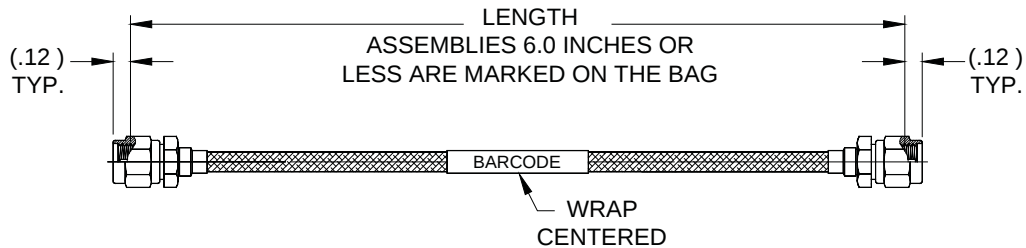
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9086-66002	2.0	0.03	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.11	0.16	0.22	0.28	0.42	0.50
9898-9086-66004	4.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.15	0.21	0.30	0.38	0.57	0.69
9898-9086-66006	6.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.18	0.27	0.38	0.48	0.73	0.89
9898-9086-66008	8.0	0.10	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.22	0.32	0.46	0.58	0.88	1.08
9898-9086-66010	10.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.26	0.38	0.55	0.68	1.04	1.28
9898-9086-66012	12.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.30	0.43	0.63	0.78	1.19	1.47
9898-9086-66015	15.0	0.15	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.35	0.51	0.75	0.94	1.43	1.76
9898-9086-66018	18.0	0.15	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.41	0.60	0.87	1.09	1.66	2.06
9898-9086-66021	21.0	0.20	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.47	0.68	0.99	1.24	1.89	2.35
9898-9086-66024	24.0	0.20	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.53	0.76	1.11	1.40	2.13	2.64
9898-9086-66028	28.0	0.28	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.60	0.87	1.27	1.60	2.44	3.03
9898-9086-66032	32.0	0.32	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.68	0.98	1.44	1.80	2.75	3.42
9898-9086-66036	36.0	0.36	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.76	1.10	1.60	2.01	3.06	3.81
9898-9086-66042	42.0	0.42	0.9	1.10	1.14	1.18	1.22	1.25	1.35	0.87	1.26	1.84	2.31	3.52	4.39
9898-9086-66048	48.0	0.48	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.98	1.43	2.08	2.62	3.99	4.97

Specifications are subject to change without notice

cable assemblies

sma, plug, straight, .141 conformable cable, sma, plug, straight



MECHANICAL SPECIFICATIO	
CABLE MAX. DIAMETER:	0.141 INCHES
MINIMUM BEND RADIUS:	0.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	1250 WATTS MAX.

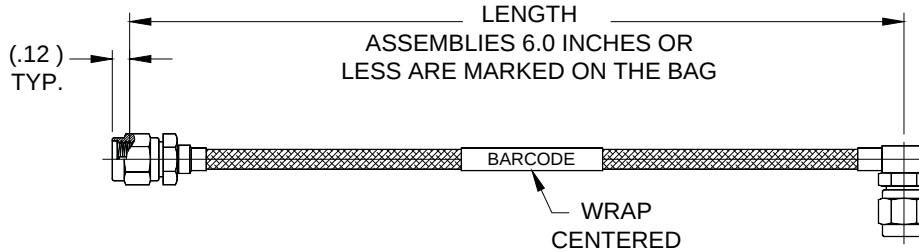
MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS															
PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9141-88002	2.0	0.03	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.07	0.11	0.15	0.19	0.29	0.34
9898-9141-88004	4.0	0.06	0.4	1.06	1.10	1.14	1.18	1.22	1.30	0.10	0.14	0.20	0.26	0.39	0.47
9898-9141-88006	6.0	0.06	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.12	0.18	0.26	0.32	0.50	0.60
9898-9141-88008	8.0	0.10	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.14	0.21	0.31	0.39	0.60	0.73
9898-9141-88010	10.0	0.10	0.5	1.06	1.10	1.14	1.18	1.22	1.30	0.17	0.25	0.36	0.45	0.70	0.86
9898-9141-88012	12.0	0.10	0.6	1.06	1.10	1.14	1.18	1.22	1.30	0.19	0.28	0.41	0.52	0.80	1.00
9898-9141-88015	15.0	0.15	0.6	1.06	1.10	1.14	1.18	1.22	1.30	0.23	0.33	0.49	0.62	0.96	1.19
9898-9141-88018	18.0	0.15	0.7	1.06	1.10	1.14	1.18	1.22	1.30	0.26	0.39	0.57	0.72	1.11	1.39
9898-9141-88021	21.0	0.20	0.7	1.06	1.10	1.14	1.18	1.22	1.30	0.30	0.44	0.64	0.82	1.27	1.59
9898-9141-88024	24.0	0.20	0.8	1.06	1.10	1.14	1.18	1.22	1.30	0.33	0.49	0.72	0.92	1.42	1.78
9898-9141-88028	28.0	0.28	0.9	1.06	1.10	1.14	1.18	1.22	1.30	0.38	0.56	0.83	1.05	1.63	2.05
9898-9141-88032	32.0	0.32	1.0	1.06	1.10	1.14	1.18	1.22	1.30	0.43	0.63	0.93	1.18	1.84	2.31
9898-9141-88036	36.0	0.36	1.1	1.06	1.10	1.14	1.18	1.22	1.30	0.48	0.70	1.03	1.31	2.04	2.57
9898-9141-88042	42.0	0.42	1.3	1.06	1.10	1.14	1.18	1.22	1.30	0.55	0.80	1.19	1.51	2.35	2.97
9898-9141-88048	48.0	0.48	1.4	1.06	1.10	1.14	1.18	1.22	1.30	0.62	0.91	1.35	1.71	2.66	3.56

Specifications are subject to change without notice

cable assemblies

sma, plug, straight, .141 conformable cable, sma, plug, right angle



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.141 INCHES
MINIMUM BEND RADIUS:	0.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	1250 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

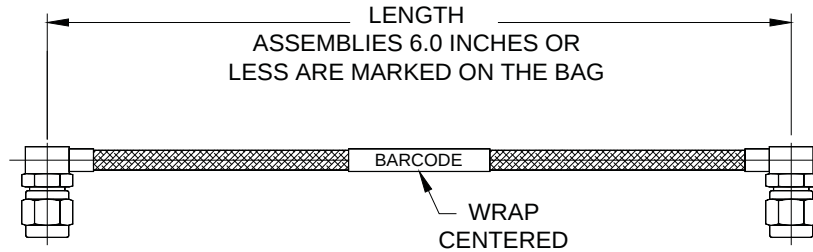
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9141-68002	2.0	0.03	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.08	0.12	0.16	0.21	0.31	0.37
9898-9141-68004	4.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.10	0.15	0.22	0.27	0.42	0.50
9898-9141-68006	6.0	0.06	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.13	0.19	0.27	0.34	0.52	0.63
9898-9141-68008	8.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.15	0.22	0.32	0.40	0.62	0.77
9898-9141-68010	10.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.17	0.26	0.37	0.47	0.73	0.90
9898-9141-68012	12.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.20	0.29	0.42	0.54	0.83	1.03
9898-9141-68015	15.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.23	0.34	0.50	0.63	0.99	1.23
9898-9141-68018	18.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.27	0.39	0.58	0.73	1.14	1.42
9898-9141-68021	21.0	0.20	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.31	0.45	0.66	0.83	1.30	1.62
9898-9141-68024	24.0	0.20	0.9	1.10	1.14	1.18	1.22	1.25	1.35	0.34	0.50	0.74	0.93	1.45	1.82
9898-9141-68028	28.0	0.28	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.39	0.57	0.84	1.06	1.66	2.08
9898-9141-68032	32.0	0.32	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.44	0.64	0.94	1.20	1.86	2.34
9898-9141-68036	36.0	0.36	1.1	1.10	1.14	1.18	1.22	1.25	1.35	0.48	0.71	1.05	1.33	2.07	2.60
9898-9141-68042	42.0	0.42	1.3	1.10	1.14	1.18	1.22	1.25	1.35	0.55	0.81	1.20	1.53	2.38	3.00
9898-9141-68048	48.0	0.48	1.4	1.10	1.14	1.18	1.22	1.25	1.35	0.63	0.92	1.36	1.72	2.69	3.39

Specifications are subject to change without notice

cable assemblies

sma, plug, right angle, .141 conformable cable, sma plug, right angle



MECHANICAL SPECIFICATIO	
CABLE MAX. DIAMETER:	0.141 INCHES
MINIMUM BEND RADIUS:	0.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	1250 WATTS MAX.

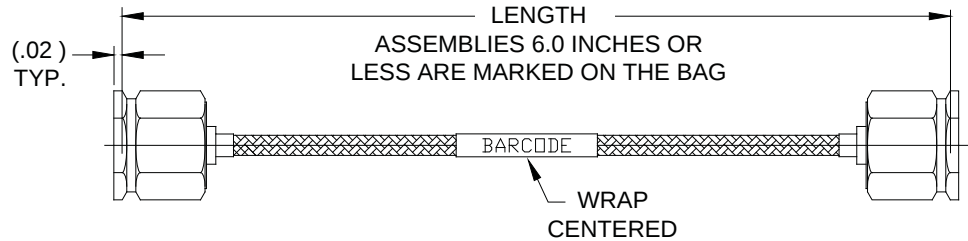
MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS															
PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
9898-9141-66002	2.0	0.03	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.09	0.12	0.18	0.22	0.34	0.40
9898-9141-66004	4.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.11	0.16	0.23	0.39	0.44	0.54
9898-9141-66006	6.0	0.06	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.13	0.19	0.28	0.35	0.55	0.67
9898-9141-66008	8.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.16	0.23	0.33	0.42	0.65	0.80
9898-9141-66010	10.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.18	0.26	0.39	0.49	0.75	0.93
9898-9141-66012	12.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.20	0.30	0.44	0.55	0.86	1.06
9898-9141-66015	15.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.24	0.35	0.52	0.65	1.01	1.26
9898-9141-66018	18.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.28	0.40	0.59	0.75	1.17	1.45
9898-9141-66021	21.0	0.20	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.31	0.46	0.67	0.85	1.32	1.65
9898-9141-66024	24.0	0.20	0.9	1.10	1.14	1.18	1.22	1.25	1.35	0.35	0.51	0.75	0.95	1.48	1.85
9898-9141-66028	28.0	0.28	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.39	0.58	0.85	1.08	1.68	2.11
9898-9141-66032	32.0	0.32	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.44	0.65	0.96	1.21	1.89	2.37
9898-9141-66036	36.0	0.36	1.1	1.10	1.14	1.18	1.22	1.25	1.35	0.49	0.72	1.06	1.34	2.10	2.64
9898-9141-66042	42.0	0.42	1.3	1.10	1.14	1.18	1.22	1.25	1.35	0.56	0.82	1.22	1.54	2.40	3.03
9898-9141-66048	48.0	0.48	1.4	1.10	1.14	1.18	1.22	1.25	1.35	0.63	0.93	1.37	1.74	2.71	3.42

Specifications are subject to change without notice

cable assemblies

tnc, plug, straight, .141 conformable cable, tnc, plug, straight



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.141 INCHES
MINIMUM BEND RADIUS:	0.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	1250 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

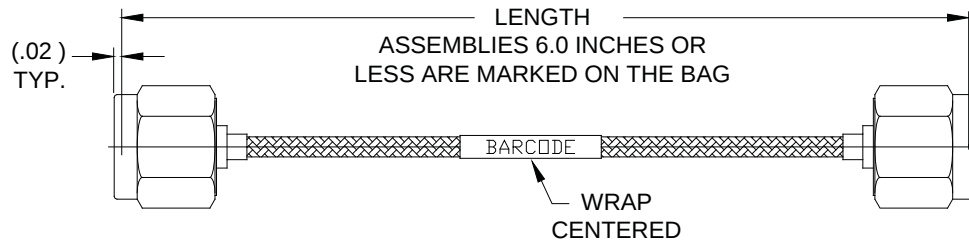
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
8484-9141-88003	3.0	0.03	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.14	0.20	0.28	0.34	0.52	0.62
8484-9141-88004	4.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.15	0.21	0.30	0.38	0.57	0.68
8484-9141-88006	6.0	0.06	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.17	0.25	0.36	0.44	0.67	0.81
8484-9141-88008	8.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.19	0.28	0.41	0.51	0.77	0.95
8484-9141-88010	10.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.22	0.32	0.46	0.68	0.88	1.08
8484-9141-88012	12.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.24	0.35	0.51	0.64	0.98	1.21
8484-9141-88015	15.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.28	0.40	0.59	0.74	1.14	1.40
8484-9141-88018	18.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.31	0.46	0.67	0.84	1.29	1.60
8484-9141-88021	21.0	0.20	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.35	0.51	0.74	0.94	1.45	1.80
8484-9141-88024	24.0	0.20	0.9	1.10	1.14	1.18	1.22	1.25	1.35	0.38	0.56	0.82	1.04	1.60	2.00
8484-9141-88028	28.0	0.28	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.43	0.63	0.93	1.17	1.81	2.26
8484-9141-88032	32.0	0.32	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.48	0.70	1.03	1.30	2.01	2.52
8484-9141-88036	36.0	0.36	1.1	1.10	1.14	1.18	1.22	1.25	1.35	0.53	0.77	1.13	1.43	2.22	2.78
8484-9141-88042	42.0	0.42	1.3	1.10	1.14	1.18	1.22	1.25	1.35	0.60	0.88	1.29	1.63	2.53	3.18
8484-9141-88048	48.0	0.48	1.4	1.10	1.14	1.18	1.22	1.25	1.35	0.67	0.98	1.45	1.83	2.84	3.57

Specifications are subject to change without notice

cable assemblies

type "n", plug, straight, .141 conformable cable, type "n" plug, straight



MECHANICAL SPECIFICATIO	
CABLE MAX. DIAMETER:	0.141 INCHES
MINIMUM BEND RADIUS:	0.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +125 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.3

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	28.8 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	70.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.44 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	120 ps/INCH
PULSE RF POWER:	1250 WATTS MAX.

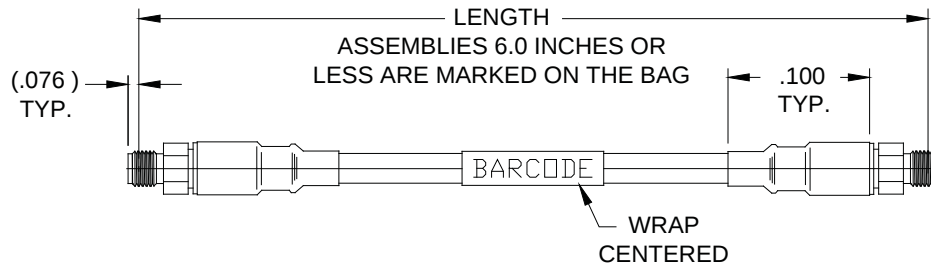
MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	TIN FILLED COMPOSIT BRAID	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS															
PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
7474-9141-88003	3.0	0.03	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.11	0.15	0.22	0.27	0.41	0.49
7474-9141-88004	4.0	0.06	0.4	1.10	1.14	1.18	1.22	1.25	1.35	0.12	0.17	0.24	0.30	0.46	0.56
7474-9141-88006	6.0	0.06	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.14	0.21	0.30	0.37	0.57	0.69
7474-9141-88008	8.0	0.10	0.5	1.10	1.14	1.18	1.22	1.25	1.35	0.16	0.24	0.35	0.44	0.67	0.82
7474-9141-88010	10.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.19	0.28	0.40	0.50	0.77	0.95
7474-9141-88012	12.0	0.10	0.6	1.10	1.14	1.18	1.22	1.25	1.35	0.21	0.31	0.45	0.57	0.88	1.08
7474-9141-88015	15.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.25	0.36	0.53	0.67	1.03	1.28
7474-9141-88018	18.0	0.15	0.7	1.10	1.14	1.18	1.22	1.25	1.35	0.28	0.41	0.61	0.77	1.18	1.47
7474-9141-88021	21.0	0.20	0.8	1.10	1.14	1.18	1.22	1.25	1.35	0.32	0.47	0.68	0.87	1.34	1.67
7474-9141-88024	24.0	0.20	0.9	1.10	1.14	1.18	1.22	1.25	1.35	0.35	0.52	0.76	0.96	1.49	1.87
7474-9141-88028	28.0	0.28	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.40	0.59	0.87	1.10	1.70	2.13
7474-9141-88032	32.0	0.32	1.0	1.10	1.14	1.18	1.22	1.25	1.35	0.45	0.66	0.97	1.23	1.91	2.39
7474-9141-88036	36.0	0.36	1.1	1.10	1.14	1.18	1.22	1.25	1.35	0.50	0.73	1.07	1.36	2.11	2.66
7474-9141-88042	42.0	0.42	1.3	1.10	1.14	1.18	1.22	1.25	1.35	0.57	0.83	1.23	1.56	2.42	3.05
7474-9141-88048	48.0	0.48	1.4	1.10	1.14	1.18	1.22	1.25	1.35	0.64	0.94	1.29	1.76	2.73	3.44

Specifications are subject to change without notice

cable assemblies

2.92mm, jack, straight, dy4 cable, 2.92mm, jack, straight,



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.165 INCHES
MINIMUM BEND RADIUS:	1.00 INCHES
CONNECTOR RETENTION:	45 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 323.2

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.7 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.0 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.34 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	112 ps/INCH
PULSE RF POWER:	2400 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	BLUE TINT
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

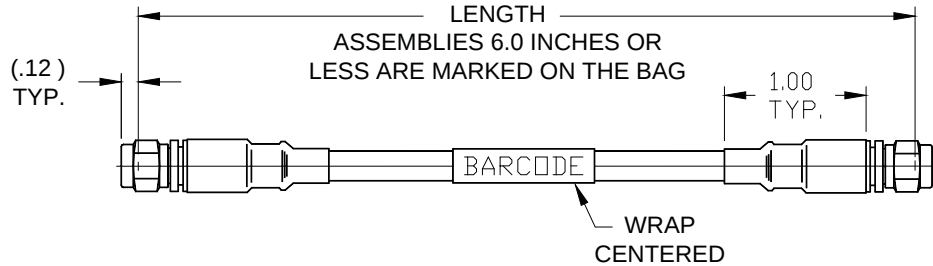
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 4	4 to 6	6 to 12	12 to 18	18 to 26	26 to 40	UP to 4	4 to 6	6 to 12	12 to 18	18 to 26	26 to 40
5959-DY4-024	24.0	.025	1.5	1.14	1.18	1.22	1.25	1.35	1.50	0.66	0.82	1.19	1.47	1.80	2.29
5959-DY4-027	27.0	0.27	1.7	1.14	1.18	1.22	1.25	1.35	1.50	0.72	0.89	1.30	1.61	1.97	2.51
5959-DY4-030	30.0	0.30	1.8	1.14	1.18	1.22	1.25	1.35	1.50	0.78	0.97	1.42	1.75	2.15	2.73
5959-DY4-033	33.0	0.33	2.0	1.14	1.18	1.22	1.25	1.35	1.50	0.85	1.05	1.53	1.89	2.32	2.96
5959-DY4-036	36.0	0.36	2.1	1.14	1.18	1.22	1.25	1.35	1.50	0.91	1.13	1.64	2.03	2.50	3.18
5959-DY4-039	39.0	0.39	2.3	1.14	1.18	1.22	1.25	1.35	1.50	0.97	1.20	1.76	2.17	2.67	3.40
5959-DY4-042	42.0	0.42	2.4	1.14	1.18	1.22	1.25	1.35	1.50	1.03	1.28	1.87	2.31	2.84	3.63
5959-DY4-045	45.0	0.45	2.6	1.14	1.18	1.22	1.25	1.35	1.50	1.10	1.36	1.98	2.46	3.02	3.85
5959-DY4-048	48.0	0.48	2.7	1.14	1.18	1.22	1.25	1.35	1.50	1.16	1.44	2.09	2.60	3.19	4.07
5959-DY4-054	54.0	0.54	3.0	1.14	1.18	1.22	1.25	1.35	1.50	1.28	1.59	2.32	2.88	3.54	4.52
5959-DY4-060	60.0	0.60	3.3	1.14	1.18	1.22	1.25	1.35	1.50	1.41	1.75	2.55	3.16	3.89	4.97
5959-DY4-072	72.0	0.72	3.9	1.14	1.18	1.22	1.25	1.35	1.50	1.66	2.06	3.00	3.73	4.58	5.86
5959-DY4-096	96.0	0.96	5.1	1.14	1.18	1.22	1.25	1.35	1.50	2.16	2.68	3.90	4.86	5.98	7.65
5959-DY4-108	108.0	1.08	5.7	1.14	1.18	1.22	1.25	1.35	1.50	2.41	2.99	4.35	5.43	6.67	8.54
5959-DYE-120	120.0	1.20	6.3	1.14	1.18	1.22	1.25	1.35	1.50	2.66	3.30	4.80	5.99	7.37	9.43

Specifications are subject to change without notice

cable assemblies

2.92mm, plug, straight, dy4 cable, 2.92mm, plug, straight,



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.165 INCHES
MINIMUM BEND RADIUS:	1.00 INCHES
CONNECTOR RETENTION:	45 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 323.1

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.7 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.0 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.34 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	112 ps/INCH
PULSE RF POWER:	2400 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	BLUE TINT
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS-2700, PASSIVATE
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

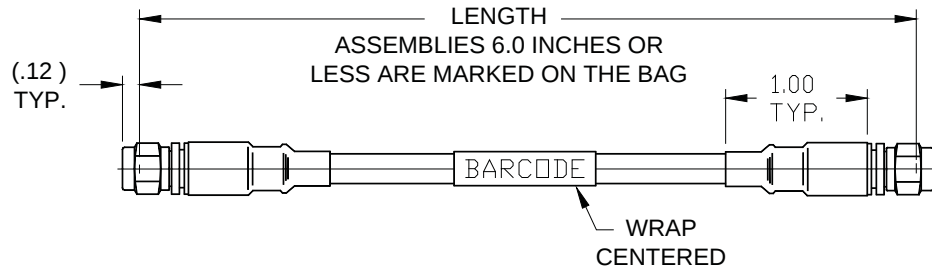
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 4	4 to 6	6 to 12	12 to 18	18 to 26	26 to 40	UP to 4	4 to 6	6 to 12	12 to 18	18 to 26	26 to 40
5858-DY4-024	24.0	.025	1.5	1.14	1.18	1.22	1.25	1.35	1.50	0.66	0.82	1.19	1.47	1.80	2.29
5858-DY4-027	27.0	0.27	1.7	1.14	1.18	1.22	1.25	1.35	1.50	0.72	0.89	1.30	1.61	1.97	2.51
5858-DY4-030	30.0	0.30	1.8	1.14	1.18	1.22	1.25	1.35	1.50	0.78	0.97	1.42	1.75	2.15	2.73
5858-DY4-033	33.0	0.33	2.0	1.14	1.18	1.22	1.25	1.35	1.50	0.85	1.05	1.53	1.89	2.32	2.96
5858-DY4-036	36.0	0.36	2.1	1.14	1.18	1.22	1.25	1.35	1.50	0.91	1.13	1.64	2.03	2.50	3.18
5858-DY4-039	39.0	0.39	2.3	1.14	1.18	1.22	1.25	1.35	1.50	0.97	1.20	1.76	2.17	2.67	3.40
5858-DY4-042	42.0	0.42	2.4	1.14	1.18	1.22	1.25	1.35	1.50	1.03	1.28	1.87	2.31	2.84	3.63
5858-DY4-045	45.0	0.45	2.6	1.14	1.18	1.22	1.25	1.35	1.50	1.10	1.36	1.98	2.46	3.02	3.85
5858-DY4-048	48.0	0.48	2.7	1.14	1.18	1.22	1.25	1.35	1.50	1.16	1.44	2.09	2.60	3.19	4.07
5858-DY4-054	54.0	0.54	3.0	1.14	1.18	1.22	1.25	1.35	1.50	1.28	1.59	2.32	2.88	3.54	4.52
5858-DY4-060	60.0	0.60	3.3	1.14	1.18	1.22	1.25	1.35	1.50	1.41	1.75	2.55	3.16	3.89	4.97
5858-DY4-072	72.0	0.72	3.9	1.14	1.18	1.22	1.25	1.35	1.50	1.66	2.06	3.00	3.73	4.58	5.86
5858-DY4-096	96.0	0.96	5.1	1.14	1.18	1.22	1.25	1.35	1.50	2.16	2.68	3.90	4.86	5.98	7.65
5858-DY4-108	108.0	1.08	5.7	1.14	1.18	1.22	1.25	1.35	1.50	2.41	2.99	4.35	5.43	6.67	8.54
5858-DYE-120	120.0	1.20	6.3	1.14	1.18	1.22	1.25	1.35	1.50	2.66	3.30	4.80	5.99	7.37	9.43

Specifications are subject to change without notice

cable assemblies

sma, plug, straight, dy5 cable, sma, plug, straight, extended frequency



MECHANICAL SPECIFICATIO

CABLE MAX. DIAMETER:	0.210 INCHES
MINIMUM BEND RADIUS:	1.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110 DEGREES C
MATING TORQUE:	7 TO 10 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 310.1

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.6 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.33 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	111 ps/INCH
PULSE RF POWER:	3500 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

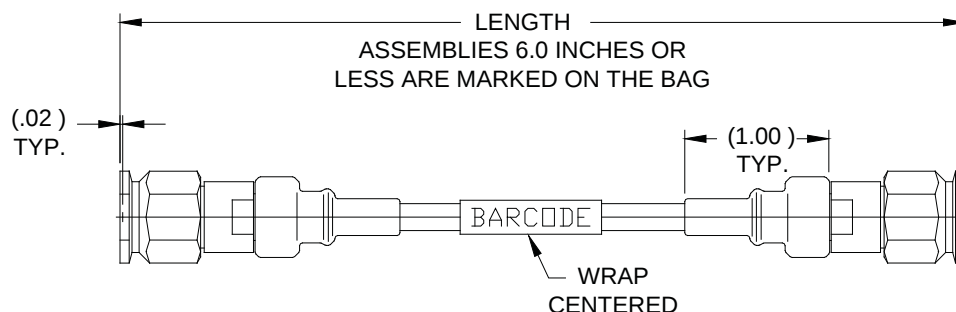
VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+/- INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 2	2 to 4	4 to 6	6 to 12	12 to 18	18 to 26	UP to 2	2 to 4	4 to 6	6 to 12	12 to 18	18 to 26
9595-DY5-024	24.0	.025	1.5	1.10	1.14	1.18	1.22	1.25	1.35	0.34	0.49	0.60	0.89	1.09	1.34
9595-DY5-027	27.0	0.27	1.7	1.10	1.14	1.18	1.22	1.25	1.35	0.37	0.53	0.65	0.96	1.19	1.46
9595-DY5-030	30.0	0.30	1.8	1.10	1.14	1.18	1.22	1.25	1.35	0.40	0.57	0.71	1.04	1.28	1.58
9595-DY5-033	33.0	0.33	2.0	1.10	1.14	1.18	1.22	1.25	1.35	0.42	0.61	0.76	1.11	1.38	1.70
9595-DY5-036	36.0	0.36	2.1	1.10	1.14	1.18	1.22	1.25	1.35	0.45	0.65	0.81	1.19	1.47	1.82
9595-DY5-039	39.0	0.39	2.3	1.10	1.14	1.18	1.22	1.25	1.35	0.48	0.69	0.86	1.26	1.57	1.94
9595-DY5-042	42.0	0.42	2.4	1.10	1.14	1.18	1.22	1.25	1.35	0.51	0.73	0.91	1.34	1.66	2.06
9595-DY5-045	45.0	0.45	2.6	1.10	1.14	1.18	1.22	1.25	1.35	0.54	0.77	0.96	1.41	1.76	2.17
9595-DY5-048	48.0	0.48	2.7	1.10	1.14	1.18	1.22	1.25	1.35	0.56	0.81	1.01	1.49	1.85	2.29
9595-DY5-054	54.0	0.54	3.0	1.10	1.14	1.18	1.22	1.25	1.35	0.62	0.89	1.11	1.64	2.04	2.53
9595-DY5-060	60.0	0.60	3.3	1.10	1.14	1.18	1.22	1.25	1.35	0.68	0.98	1.21	1.79	2.23	2.77
9595-DY5-072	72.0	0.72	3.9	1.10	1.14	1.18	1.22	1.25	1.35	0.79	1.14	1.42	2.09	2.61	3.25
9595-DY5-096	96.0	0.96	5.1	1.10	1.14	1.18	1.22	1.25	1.35	1.01	1.46	1.82	2.69	3.37	4.20
9595-DY5-108	108.0	1.08	5.7	1.10	1.14	1.18	1.22	1.25	1.35	1.13	1.63	2.03	2.99	3.75	4.68
9595-DY5-120	120.0	1.20	6.3	1.10	1.14	1.18	1.22	1.25	1.35	1.24	1.79	2.23	3.29	4.13	5.15

Specifications are subject to change without notice

cable assemblies

tnc, plug, straight, dy5 cable, tnc, plug, straight



MECHANICAL SPECIFICATIO	
CABLE MAX. DIAMETER:	0.210 INCHES
MINIMUM BEND RADIUS:	1.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110 DEGREES C
MATING TORQUE:	10 TO 15 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 313.3

ELECTRICAL SPECIFICATIONS	
IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.6 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.33 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	111 ps/INCH
PULSE RF POWER:	3500 WATTS MAX.

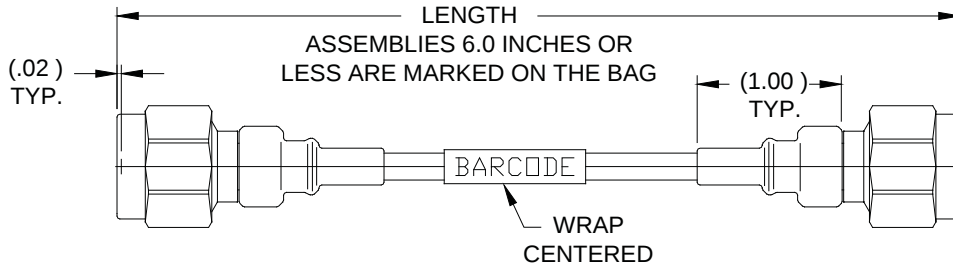
MATERIALS AND FINISHES		
DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-4894, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS QQ-P-35, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS															
PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
8888-DY5-024	24.0	.025	1.5	1.06	1.10	1.14	1.18	1.22	1.30	0.26	0.37	0.53	0.65	0.97	1.18
8888-DY5-027	27.0	0.27	1.7	1.06	1.10	1.14	1.18	1.22	1.30	0.28	0.40	0.57	0.70	1.05	1.27
8888-DY5-030	30.0	0.30	1.8	1.06	1.10	1.14	1.18	1.22	1.30	0.30	0.42	0.61	0.75	1.13	1.37
8888-DY5-033	33.0	0.33	2.0	1.06	1.10	1.14	1.18	1.22	1.30	0.31	0.45	0.65	0.81	1.20	1.46
8888-DY5-036	36.0	0.36	2.1	1.06	1.10	1.14	1.18	1.22	1.30	0.33	0.48	0.69	0.86	1.28	1.56
8888-DY5-039	39.0	0.39	2.3	1.06	1.10	1.14	1.18	1.22	1.30	0.35	0.51	0.73	0.91	1.36	1.65
8888-DY5-042	42.0	0.42	2.4	1.06	1.10	1.14	1.18	1.22	1.30	0.37	0.54	0.77	0.96	1.43	1.75
8888-DY5-045	45.0	0.45	2.6	1.06	1.10	1.14	1.18	1.22	1.30	0.39	0.56	0.81	1.01	1.51	1.84
8888-DY5-048	48.0	0.48	2.7	1.06	1.10	1.14	1.18	1.22	1.30	0.41	0.59	0.85	1.06	1.58	1.94
8888-DY5-054	54.0	0.54	3.0	1.06	1.10	1.14	1.18	1.22	1.30	0.45	0.65	0.93	1.16	1.74	2.13
8888-DY5-060	60.0	0.60	3.3	1.06	1.10	1.14	1.18	1.22	1.30	0.49	0.70	1.02	1.26	1.89	2.32
8888-DY5-072	72.0	0.72	3.9	1.06	1.10	1.14	1.18	1.22	1.30	0.57	0.82	1.18	1.47	2.20	2.70
8888-DY5-096	96.0	0.96	5.1	1.06	1.10	1.14	1.18	1.22	1.30	0.72	1.04	1.50	1.87	2.81	3.46
8888-DY5-108	108.0	1.08	5.7	1.06	1.10	1.14	1.18	1.22	1.30	0.80	1.15	1.67	2.08	3.11	3.84
8888-DY5-120	120.0	1.20	6.3	1.06	1.10	1.14	1.18	1.22	1.30	0.88	1.27	1.83	2.28	3.42	4.22

Specifications are subject to change without notice

cable assemblies

type "n", plug, straight, dy5 cable, type "n" plug, straight



MECHANICAL SPECIFICATIONS

CABLE MAX. DIAMETER:	0.210 INCHES
MINIMUM BEND RADIUS:	1.25 INCHES
CONNECTOR RETENTION:	60 POUNDS MIN.
TEMPERATURE RANGE:	-55 to +110 DEGREES C
MATING TORQUE:	10 TO 15 INCH POUNDS
CONNECTOR INTERFACES:	MIL-STD-348 Fig. 304.1

ELECTRICAL SPECIFICATIONS

IMPEDANCE, NOMINAL:	50 OHMS
CAPACITANCE NOMINAL:	26.6 pF/FOOT
VELOCITY OF PROPAGATION, NOMINAL:	76.5 %
RELATIVE SHIELDING:	-100.0 dB MIN.
INSULATION RESISTANCE:	5000 MEGOHMS MIN.
DIELECTRIC WITHSTANDING VOLTAGE:	1500 VRMS MIN.
ELECTRICAL DELAY, NOMINAL:	1.33 ns/FOOT
ELECTRICAL DELAY, NOMINAL:	111 ps/INCH
PULSE RF POWER:	3500 WATTS MAX.

MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH OR COLOR
CABLE JACKET:	EXTRUDED FEP	NONE
SOLDER:	QQ-S-571	NONE
FLUX:	MIL-F-14256, RMA	NONE
BOOTS:	MIL-DTL-23053/4 CLASS 3	BLACK
CONTACTS:	ASTM-B-196, BERYLLIUM COPPER	ASTM-B-488, GOLD
INSULATORS:	ASTM-D-1710-02, PTFE	NONE
BODIES:	ASTM-A-582, 303 STAINLESS STEEL	ASTM-B-488, GOLD
COUPLING NUTS:	ASTM-A-582, 303 STAINLESS STEEL	AMS 2700, PASSIVATE
GASKETS:	ZZ-R-765, SILICON RUBBER	RED
SOLVENTS:	NO OZONE DEPLETING MATERIALS ARE USED	

VSWR / INSERTION LOSS SPECIFICATIONS

PART NUMBER	LENGTH INCHES	+ / - INCHES	WEIGHT OUNCES	MAXIMUM VSWR						MAXIMUM LOSS					
				UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	UP to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18
7878-DY5-024	24.0	.025	1.5	1.06	1.10	1.14	1.18	1.22	1.30	0.23	0.33	0.47	0.58	0.87	1.05
7878-DY5-027	27.0	0.27	1.7	1.06	1.10	1.14	1.18	1.22	1.30	0.25	0.35	0.51	0.63	0.94	1.15
8878-DY5-030	30.0	0.30	1.8	1.06	1.10	1.14	1.18	1.22	1.30	0.27	0.38	0.55	0.68	1.02	1.24
7878-DY5-033	33.0	0.33	2.0	1.06	1.10	1.14	1.18	1.22	1.30	0.28	0.41	0.59	0.73	1.10	1.34
7878-DY5-036	36.0	0.36	2.1	1.06	1.10	1.14	1.18	1.22	1.30	0.30	0.44	0.63	0.78	1.17	1.43
7878-DY5-039	39.0	0.39	2.3	1.06	1.10	1.14	1.18	1.22	1.30	0.32	0.47	0.67	0.83	1.25	1.53
7878-DY5-042	42.0	0.42	2.4	1.06	1.10	1.14	1.18	1.22	1.30	0.34	0.49	0.71	0.88	1.33	1.62
7878-DY5-045	45.0	0.45	2.6	1.06	1.10	1.14	1.18	1.22	1.30	0.36	0.52	0.75	0.94	1.40	1.72
7878-DY5-048	48.0	0.48	2.7	1.06	1.10	1.14	1.18	1.22	1.30	0.38	0.55	0.79	0.99	1.48	1.81
7878-DY5-054	54.0	0.54	3.0	1.06	1.10	1.14	1.18	1.22	1.30	0.42	0.61	0.87	1.09	1.63	2.00
7878-DY5-060	60.0	0.60	3.3	1.06	1.10	1.14	1.18	1.22	1.30	0.46	0.66	0.96	1.19	1.78	2.19
7878-DY5-072	72.0	0.72	3.9	1.06	1.10	1.14	1.18	1.22	1.30	0.54	0.77	1.12	1.39	2.09	2.57
7878-DY5-096	96.0	0.96	5.1	1.06	1.10	1.14	1.18	1.22	1.30	0.69	1.00	1.44	1.80	2.70	3.33
7878-DY5-108	108.0	1.08	5.7	1.06	1.10	1.14	1.18	1.22	1.30	0.77	1.11	1.61	2.00	3.01	3.71
7878-DY5-120	120.0	1.20	6.3	1.06	1.10	1.14	1.18	1.22	1.30	0.85	1.22	1.77	2.21	3.31	4.09

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1100-1213-6200	163	1100-2193-6250	253	1100-6598-6250	248
1100-1230-5450	261	1100-2194-6250	260	1100-6599-6250	248
1100-1231-6250	261	1100-2195-6250	260	1100-6798-6250	247
1100-1292-6250	255	1100-2198-6250	245	1100-6799-6251	247
1100-1293-6250	255	1100-2199-6250	245	1100-7474-2720	192
1100-1294-6250	263	1100-2498-6250	258	1100-7474-6220	192
1100-1295-6250	263	1100-2499-6250	258	1100-7475-2720	192
1100-1298-6200	249	1100-2525-2400	228	1100-7475-6220	192
1100-1299-6200	249	1100-2598-6250	258	1100-7484-6250	264
1100-1313-6200	163	1100-2599-6250	258	1100-7485-6250	264
1100-1330-5450	261	1100-2628-6251	262	1100-7498-6251	251
1100-1331-6250	261	1100-2667-6250	262	1100-7499-6200	251
1100-1392-6250	255	1100-2698-6251	248	1100-7575-2720	192
1100-1393-6250	255	1100-2699-6250	248	1100-7575-6220	192
1100-1394-6200	263	1100-2865-6250	262	1100-7584-6250	264
1100-1395-6250	263	1100-2898-6251	247	1100-7585-6250	264
1100-1398-6200	249	1100-2899-6253	247	1100-7598-6251	251
1100-1399-6200	249	1100-3030-5450	109	1100-7599-6251	251
1100-1515-2400	216	1100-3030-5451	109	1100-8484-2787	205
1100-1515-5400	216	1100-3030-5452	109	1100-8484-6287	205
1100-1524-2450	265	1100-3030-5455	109	1100-8485-2787	205
1100-1525-2450	265	1100-3031-6250	109	1100-8485-6287	205
1100-1598-2450	257	1100-3031-6251	109	1100-8498-6251	252
1100-1599-2450	257	1100-3092-5450	254	1100-8499-6200	252
1100-1616-2400	216	1100-3093-5450	254	1100-8585-2787	205
1100-1624-2450	265	1100-3098-5450	246	1100-8585-6287	205
1100-1625-2450	265	1100-3099-5450	246	1100-8598-6251	252
1100-1698-2450	257	1100-3131-6250	109	1100-8599-6251	252
1100-1699-2450	257	1100-3131-6251	109	1100-9292-6200	64
1100-2020-5401	92	1100-3131-6252	109	1100-9293-6220	64
1100-2020-5407	92	1100-3192-6250	254	1100-9294-6250	256
1100-2020-5411	92	1100-3193-6250	254	1100-9295-6250	256
1100-2020-5426	92	1100-3198-6251	246	1100-9298-6250	244
1100-2020-5450	92	1100-3199-6250	246	1100-9299-6250	244
1100-2020-5455	92	1100-4474-6200	268	1100-9393-6200	64
1100-2020-5456	92	1100-4475-6200	268	1100-9394-6250	256
1100-2020-5495	92	1100-4484-6200	267	1100-9395-6250	256
1100-2020-5497	92	1100-4485-6200	267	1100-9398-6250	244
1100-2020-5498	92	1100-4498-6200	266	1100-9399-6250	244
1100-2021-5400	93	1100-4499-6200	266	1100-9494-6200	175
1100-2030-5450	259	1100-5050-5450	122	1100-9494-6201	175
1100-2031-5450	259	1100-5050-5451	122	1100-9495-6200	175
1100-2092-5450	253	1100-5050-5455	122	1100-9495-6201	175
1100-2093-5450	253	1100-5051-6250	122	1100-9498-6200	250
1100-2094-5450	260	1100-5051-6251	122	1100-9499-6200	250
1100-2095-5450	260	1100-5151-6250	122	1100-9595-6200	175
1100-2098-5450	245	1100-5151-6251	122	1100-9595-6201	175
1100-2099-5425	245	1100-5151-6252	122	1100-9598-6200	250
1100-2121-6250	93	1100-5898-6220	45	1100-9599-6200	250
1100-2121-6251	93	1100-5899-6220	45	1100-9898-6220	42
1100-2130-6250	259	1100-5998-6220	45	1100-9898-6287	42
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1100-9899-6272	42	1500-4120-2400	210	2100-1630-5435	78
1100-9999-6250	42	1500-4120-5400	210	2100-7830-5435	78
1101-1212-6200	165	1500-4720-2400	210	2101-1630-5435	78
1101-1213-6200	165	1500-4720-5400	210	2101-7830-5435	78
1101-1313-6200	165	1500-8520-2400	210	2110-4721-6200	73
1101-9494-6200	177	1500-8520-5400	210	2110-4721-6201	73
1101-9495-6200	177	1501-1630-2400	212	2110-4725-6200	74
1101-9595-6200	177	1501-1830-2400	212	2110-8521-6203	73
1101-9898-6239	43	1501-4120-2400	211	2110-8521-6204	73
1101-9899-6250	43	1501-4230-2400	212	2110-8525-6202	74
1101-9999-6250	43	1501-4720-2400	211	2111-4720-6477	75
1107-2021-5400	93	1501-8520-2400	211	2111-4727-6477	75
1107-2121-6250	93	1520-0031-2401	214	2111-4729-6477	75
1107-2121-6251	93	1520-0031-2402	214	2111-8520-6477	75
1109-2021-5400	93	1521-0031-2401	215	2111-8527-6477	75
1109-2121-6250	93	1600-4120-2400	210	2111-8529-6477	75
1109-2121-6251	93	1600-4720-2400	210	2117-4721-6200	73
1110-1213-6200	164	1600-8520-2400	210	2117-4721-6201	73
1110-1313-6240	164	1610-1630-2400	213	2117-4725-6200	74
1110-1616-2400	216	1610-1830-2400	213	2117-8521-6203	73
1110-2525-2400	228	1610-4120-2400	211	2117-8521-6204	73
1110-9495-6200	176	1610-4230-2400	213	2117-8525-6202	74
1110-9595-6200	176	1610-4720-2400	211	2119-4721-6200	73
1110-9999-2400	44	1610-8520-2400	211	2119-4721-6201	73
1110-9999-6201	44	1620-0031-2400	215	2119-4725-6200	74
1120-9999-6400	44	1620-0031-2401	214	2119-8521-6203	73
1200-4725-6200	158	1620-0031-2402	214	2119-8521-6204	73
1200-8525-6200	158	1621-0031-2401	215	2119-8525-6202	74
1230-0081-6209	162	2000-1630-5435	78	2120-0031-2320	88
1230-0081-6212	162	2000-3420-5400	70	2120-0031-2321	88
1252-0085-6200	161	2000-3427-5400	70	2120-0031-2700	87
1252-0085-6201	161	2000-4720-5425	70	2120-0232-6400	89
1252-0085-6202	161	2000-4727-5425	70	2120-0232-6418	89
1252-0085-6204	161	2000-7830-5435	78	2120-0330-6406	88
1252-0085-6209	161	2000-8520-5425	70	2120-0431-6400	90
1254-0085-6200	161	2000-8527-5425	70	2120-0431-6418	90
1254-0085-6201	161	2001-1630-5444	78	2121-0031-2700	91
1300-4725-6200	158	2001-4720-5400	71	2121-0031-2707	91
1300-8525-6200	158	2001-4720-5425	70	2121-0031-2709	91
1310-4725-6200	159	2001-4720-5429	71	2121-0431-6400	91
1310-4745-6200	159	2001-4720-5444	71	2121-0431-6407	91
1310-8525-6200	159	2001-7830-5444	78	2121-0431-6409	91
1310-8545-6200	159	2001-8520-5425	71	2127-0031-2320	88
1330-0081-6209	162	2001-8520-5429	71	2127-0031-2321	88
1330-0081-6212	162	2001-8520-5444	71	2127-0031-2700	87
1352-0085-6200	160	2060-4720-5400	72	2127-0232-6400	89
1352-0085-6202	160	2060-4720-5425	72	2127-0232-6418	89
1352-0085-6204	160	2060-4720-5455	72	2127-0330-6406	88
1352-0085-6206	160	2060-8520-5440	72	2127-0431-6400	90
1352-0085-6209	160	2060-8520-5441	72	2127-0431-6418	90
1354-0085-6202	160	2060-8520-5455	72	2129-0031-2320	88

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2129-0031-2700	87	2149-0435-7407	80	2420-0031-2402	225
2129-0232-6400	89	2149-0435-7408	81	2421-0031-2401	226
2129-0232-6418	89	2149-0435-7409	80	2500-1630-2400	222
2129-0330-6406	88	2149-0435-7411	81	2500-1830-2400	222
2129-0431-6400	90	2152-0881-6228	86	2500-4120-2400	220
2129-0431-6418	90	2152-0881-6232	86	2500-4720-2400	220
2130-0031-6200	84	2152-0881-6240	86	2500-7830-2400	222
2130-0032-6232	85	2152-0881-6248	86	2500-8520-2400	220
2130-0032-6251	85	2152-4720-6428	76	2510-1630-2400	224
2130-0232-6218	83	2152-4720-6432	76	2510-1830-2400	224
2130-0430-6401	83	2152-4720-6440	77	2510-4720-2400	221
2130-4720-6432	74	2152-4720-6448	77	2510-4720-5400	221
2130-8520-6432	74	2152-8520-6428	76	2510-7830-2400	224
2135-0032-6200	84	2152-8520-6432	76	2510-8520-2400	221
2135-0431-6436	82	2152-8520-6440	77	2510-8520-5400	221
2137-0031-6200	84	2152-8520-6448	77	2520-0031-2400	226
2137-0032-6201	84	2172-0881-6228	86	2520-0031-2401	225
2137-0032-6232	85	2172-0881-6232	86	2520-0031-2402	225
2137-0032-6251	85	2172-0881-6240	86	2520-0032-5400	227
2137-0232-6218	83	2172-0881-6248	86	2521-0031-2401	226
2137-0430-6401	83	2172-4720-6428	76	2610-1630-6200	149
2137-0431-6436	82	2172-4720-6432	76	2610-1830-6200	149
2137-4720-6432	74	2172-4720-6440	77	2610-4230-6200	149
2137-8520-6432	74	2172-4720-6448	77	2610-4721-6450	146
2139-0031-6200	84	2172-8520-6428	76	2610-8521-6450	146
2139-0032-6202	84	2172-8520-6432	76	2630-0081-6211	152
2139-0032-6232	85	2172-8520-6440	77	2630-0081-6214	152
2139-0032-6251	85	2172-8520-6448	77	2630-0431-6400	153
2139-0232-6218	83	2192-0881-6228	86	2630-0431-6401	153
2139-0430-6401	83	2192-0881-6232	86	2640-0081-6215	152
2139-0431-6436	82	2192-0881-6240	86	2640-0081-6244	152
2139-4720-6432	74	2192-0881-6248	86	2640-0431-6420	154
2139-8520-6432	74	2192-4720-6428	76	2640-0431-6421	154
2140-0434-6402	82	2192-4720-6432	76	2652-0081-6213	150
2140-0434-6403	82	2192-4720-6440	77	2652-0081-6223	150
2140-0434-7437	81	2192-4720-6448	77	2652-0781-6213	150
2140-0435-7400	81	2192-8520-6428	76	2652-0781-6223	150
2140-0435-7407	80	2192-8520-6432	76	2652-0881-6212	150
2140-0435-7408	81	2192-8520-6440	77	2652-0881-6222	150
2140-0435-7409	80	2192-8520-6448	77	2654-0081-6217	150
2140-0435-7411	81	21-TORQUE-20	276	2654-0081-6227	150
2147-0434-6402	82	21-TORQUE-20A	275	2654-0781-6217	150
2147-0434-6403	82	2400-4720-2400	220	2654-0781-6227	150
2147-0434-7437	81	2400-4720-5400	220	2654-0881-6217	150
2147-0435-7400	81	2400-8520-2400	220	2654-0881-6227	150
2147-0435-7407	80	2400-8520-5400	220	26-TORQUE-20	277
2147-0435-7408	81	2401-1630-2400	223	2800-4120-2700	126
2147-0435-7409	80	2401-1830-2400	223	2800-4120-2740	126
2147-0435-7411	81	2401-4720-2400	221	2800-4120-6400	126
2149-0434-6402	82	2401-7830-2400	223	2800-4120-6440	126
2149-0434-6403	82	2401-8520-2400	221	2800-4220-2700	126
2149-0434-7437	81	2420-0031-2400	227	2800-4220-6400	126

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2810-1830-6231	131	2854-0081-6220	133	3120-0390-6401	107
2810-4121-6450	127	2854-0081-6227	134	3120-0390-6402	107
2810-4230-6231	131	2854-0081-6229	134	3120-0390-6403	107
2810-4921-6400	127	2854-0081-6236	133	3120-0431-6418	108
2810-8521-6401	127	2854-0081-6237	134	3120-0531-6400	106
2810-8921-6400	127	2854-0081-6239	134	3120-0531-6401	106
2820-0031-2135	141	2854-0781-6215	133	3120-0535-6400	108
2820-0031-2140	141	2854-0781-6217	134	3129-0031-2300	107
2820-0031-2724	141	2854-0781-6219	134	3129-0031-6400	105
2820-0031-6424	141	2854-0781-6220	133	3129-0390-6400	107
2820-0031-6435	141	2854-0781-6227	134	3129-0390-6401	107
2820-0031-6440	141	2854-0781-6229	134	3129-0390-6402	107
2830-0081-6214	136	2854-0781-6236	133	3129-0390-6403	107
2830-0081-6215	136	2854-0781-6237	134	3129-0431-6418	108
2830-0081-6216	136	2854-0781-6239	134	3129-0531-6400	106
2830-0081-6219	136	2854-0881-6215	133	3129-0531-6401	106
2830-0081-6220	136	2854-0881-6217	134	3129-0535-6400	108
2830-0081-6221	136	2854-0881-6219	134	3140-0434-7404	103
2830-0431-6420	138	2854-0881-6220	133	3140-0434-7405	103
2830-0431-6422	138	2854-0881-6227	134	3140-0434-7450	103
2833-0431-6416	139	2854-0881-6229	134	3140-0434-7451	103
2840-0081-6215	137	2854-0881-6236	133	3140-0434-7470	103
2840-0081-6220	137	2854-0881-6237	134	3140-0434-7471	103
2840-0081-6236	137	2854-0881-6239	134	3149-0434-7404	103
2840-0431-6420	140	2880-0031-2720	142	3149-0434-7405	103
2840-0431-6421	140	2880-0031-2722	142	3149-0434-7450	103
2852-0081-6213	133	2880-0031-2725	142	3149-0434-7451	103
2852-0081-6214	132	2880-0031-2731	142	3149-0434-7470	103
2852-0081-6215	132	2880-0031-2756	142	3149-0434-7471	103
2852-0081-6220	132	2880-0031-2763	142	3152-0881-6228	104
2852-0081-6223	133	2880-0031-6220	142	3152-0881-6232	104
2852-0081-6224	132	2880-0031-6222	142	3152-0881-6240	104
2852-0081-6236	132	2880-0031-6224	142	3152-0881-6248	104
2852-0081-6246	132	2880-0031-6225	142	3160-4720-6201	101
2852-0781-6213	133	2880-0031-6231	142	3160-8520-6203	101
2852-0781-6214	132	2880-0031-6256	142	3169-4720-6201	101
2852-0781-6215	132	2880-0031-6263	142	3169-8520-6203	101
2852-0781-6220	132	28-TORQUE-22	277	3192-0881-6228	104
2852-0781-6223	133	3000-3420-5425	100	3192-0881-6232	104
2852-0781-6224	132	3000-4720-5425	100	3192-0881-6240	104
2852-0781-6236	132	3000-8520-5425	100	3192-0881-6248	104
2852-0781-6246	132	3001-3420-5425	101	31-TORQUE-20	276
2852-0881-6212	133	3001-3420-5429	101	455-02-012	270
2852-0881-6214	132	3001-3420-5444	100	455-02-013	270
2852-0881-6215	132	3001-4720-5425	101	455-02-014	271
2852-0881-6220	132	3001-4720-5429	101	455-02-015	271
2852-0881-6222	133	3001-4720-5444	100	455-02-016	271
2852-0881-6224	132	3001-8520-5425	101	455-02-017	271
2852-0881-6236	132	3001-8520-5429	101	455-02-018	271
2852-0881-6246	132	3001-8520-5444	100	455-02-019	271
2854-0081-6215	133	3120-0031-2300	107	455-02-020	272
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455-02-024	272	455-02-611	270	5400-3109-6200	110
455-02-027	272	455-02-612	270	5400-9810-6250	46
455-02-028	272	455-02-615	271	5400-9810-6251	46
455-02-034	272	455-02-618	271	5800-4126-6400	47
455-02-042	270	455-02-669	272	5800-4126-6401	47
455-02-049	270	455-02-712	270	5952-0031-6483	48
455-02-050	272	455-02-714	271	5952-0031-6484	48
455-02-053	272	455-02-716	271	5952-0031-6485	48
455-02-055	270	455-02-742	270	5981-0381-6441	48
455-02-056	270	455-02-811	270	6510-1630-6200	149
455-02-060	270	455-02-812	270	6510-1830-6200	149
455-02-061	271	455-02-815	271	6510-4230-6200	149
455-02-062	270	455-02-915	271	6510-4721-6450	146
455-02-063	271	5000-3425-5400	116	6510-8521-6450	146
455-02-064	271	5000-4725-5400	116	6530-0431-6460	153
455-02-068	272	5000-8525-5400	116	6540-0081-6215	152
455-02-069	272	5001-4720-5400	116	6540-0081-6220	152
455-02-090	270	50-TORQUE-20	276	6540-0431-6420	154
455-02-1011	270	5120-0031-2320	120	6540-0431-6421	154
455-02-1012	270	5120-0031-2350	120	6552-0081-6215	151
455-02-1015	271	5120-0031-6400	120	6552-0081-6220	151
455-02-1115	271	5120-0031-6401	119	6552-0781-6215	151
455-02-112	270	5120-0031-6450	120	6552-0781-6220	151
455-02-113	270	5120-0431-6418	121	6552-0881-6215	151
455-02-114	271	5120-0535-6400	121	6552-0881-6220	151
455-02-115	271	5129-0031-2320	120	6554-0081-6217	151
455-02-120	272	5129-0031-2350	120	6554-0081-6227	151
455-02-125	270	5129-0031-6400	120	6554-0781-6217	151
455-02-134	270	5129-0031-6401	119	6554-0781-6227	151
455-02-136	272	5129-0031-6450	120	6554-0881-6217	151
455-02-155	270	5129-0431-6418	121	6554-0881-6227	151
455-02-189	272	5129-0535-6400	121	6560-4721-6221	147
455-02-215	271	5140-0434-7413	118	6560-4721-6441	147
455-02-218	271	5140-0434-7450	118	6560-8521-6221	147
455-02-250	270	5140-0434-7470	118	6560-8521-6441	147
455-02-255	270	5149-0434-7413	118	6562-4721-6266	148
455-02-312	270	5149-0434-7450	118	6562-4721-6267	148
455-02-315	271	5149-0434-7470	118	6562-8521-6266	148
455-02-316	271	5152-0881-6228	118	6562-8521-6267	148
455-02-318	271	5152-0881-6232	118	6710-1630-6231	131
455-02-319	271	5152-0881-6240	118	6710-1830-6231	131
455-02-369	272	5152-0881-6248	118	6710-4121-6450	128
455-02-412	270	5192-0881-6228	118	6710-4230-6231	131
455-02-413	270	5192-0881-6232	118	6710-4921-6400	128
455-02-415	271	5192-0881-6240	118	6710-8521-6450	128
455-02-418	271	5192-0881-6248	118	6710-8921-6400	128
455-02-502	272	5400-2005-5400	94	6730-0081-6215	136
455-02-512	270	5400-2005-5401	94	6730-0081-6220	136
455-02-513	270	5400-2105-6250	94	6730-0431-6420	138
455-02-516	271	5400-2107-6250	94	6730-0431-6422	138
455-02-518	271	5400-3005-5400	110	6733-0431-6416	139
455-02-526	271	5400-3005-5401	110	6740-0081-6215	137

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6740-0081-6220	137	6952-4128-6424	239	6954-4120-6415	240
6740-0081-6236	137	6952-4720-2714	231	6954-4120-6417	241
6740-0431-6420	140	6952-4720-2715	230	6954-4120-6425	240
6740-0431-6421	140	6952-4720-2720	230	6954-4120-6427	241
6752-0081-6215	135	6952-4720-2724	231	6954-4127-2715	240
6752-0081-6220	135	6952-4720-6414	231	6954-4127-2717	241
6752-0081-6236	135	6952-4720-6415	230	6954-4127-2725	241
6752-0781-6215	135	6952-4720-6420	230	6954-4127-2727	240
6752-0781-6220	135	6952-4720-6424	231	6954-4127-6415	240
6752-0781-6236	135	6952-4727-2714	231	6954-4127-6417	241
6752-0881-6215	135	6952-4727-2715	230	6954-4127-6425	240
6752-0881-6220	135	6952-4727-2720	230	6954-4127-6427	241
6752-0881-6236	135	6952-4727-2724	231	6954-4128-2715	240
6754-0081-6214	135	6952-4727-6414	231	6954-4128-2717	241
6754-0081-6224	135	6952-4727-6415	230	6954-4128-2725	241
6754-0081-6246	135	6952-4727-6420	230	6954-4128-2727	240
6754-0781-6214	135	6952-4727-6424	231	6954-4128-6415	240
6754-0781-6224	135	6952-4728-2714	231	6954-4128-6417	241
6754-0781-6246	135	6952-4728-2715	230	6954-4128-6425	240
6754-0881-6214	135	6952-4728-2720	230	6954-4128-6427	241
6754-0881-6224	135	6952-4728-2724	231	6954-4720-2715	232
6754-0881-6246	135	6952-4728-6414	231	6954-4720-2717	233
6760-4121-6467	129	6952-4728-6415	230	6954-4720-2720	232
6760-4129-6299	129	6952-4728-6420	230	6954-4720-2727	233
6760-8521-6441	129	6952-4728-6424	231	6954-4720-6415	232
6760-8529-6299	129	6952-8520-2711	235	6954-4720-6417	233
6762-4121-6256	130	6952-8520-2712	234	6954-4720-6420	232
6762-4121-6257	130	6952-8520-2720	234	6954-4720-6427	233
6762-8521-6256	130	6952-8520-2724	235	6954-4727-2715	232
6762-8521-6257	130	6952-8520-6412	234	6954-4727-2717	233
6952-4120-2714	239	6952-8520-6414	235	6954-4727-2720	232
6952-4120-2715	238	6952-8520-6420	234	6954-4727-2727	233
6952-4120-2720	238	6952-8520-6424	235	6954-4727-6415	232
6952-4120-2724	239	6952-8527-2711	235	6954-4727-6417	233
6952-4120-6414	239	6952-8527-2712	234	6954-4727-6420	232
6952-4120-6415	238	6952-8527-2720	234	6954-4727-6427	233
6952-4120-6420	238	6952-8527-2724	235	6954-4728-2715	232
6952-4120-6424	239	6952-8527-6412	234	6954-4728-2717	233
6952-4127-2714	239	6952-8527-6414	235	6954-4728-2720	232
6952-4127-2715	238	6952-8527-6420	234	6954-4728-2727	233
6952-4127-2720	238	6952-8527-6424	235	6954-4728-6415	232
6952-4127-2724	239	6952-8528-2711	235	6954-4728-6417	233
6952-4127-6414	239	6952-8528-2712	234	6954-4728-6420	232
6952-4127-6415	238	6952-8528-2720	234	6954-4728-6427	233
6952-4127-6420	238	6952-8528-2724	235	6954-8520-2715	237
6952-4127-6424	239	6952-8528-6412	234	6954-8520-2717	236
6952-4128-2714	239	6952-8528-6414	235	6954-8520-2720	237
6952-4128-2715	238	6952-8528-6420	234	6954-8520-2727	236
6952-4128-2720	238	6952-8528-6424	235	6954-8520-6415	236
6952-4128-2724	239	6954-4120-2715	240	6954-8520-6417	237
6952-4128-6414	239	6954-4120-2717	241	6954-8520-6420	236
6952-4128-6415	238	6954-4120-2725	241	6954-8520-6427	237
6952-4128-6420	238	6954-4120-2727	240	6954-8527-2715	237

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6954-8527-2717	236	7500-2502-6440	184	7554-0881-2715	190
6954-8527-2720	237	7500-4121-2700	184	7554-0881-2720	190
6954-8527-2727	236	7500-4121-6440	184	7554-0881-2736	190
6954-8527-6415	236	7500-8521-2700	184	7554-0881-2765	190
6954-8527-6417	237	7500-8521-6440	184	7554-0881-6215	190
6954-8527-6420	236	7510-1631-2301	188	7554-0881-6220	190
6954-8527-6427	237	7510-1631-6200	188	7554-0881-6236	190
6954-8528-2715	237	7510-1830-2300	188	7554-0881-6265	190
6954-8528-2717	236	7510-1830-6200	188	7554-2521-2727	186
6954-8528-2720	237	7510-2500-2700	185	7554-2521-6227	186
6954-8528-2727	236	7510-2500-6200	185	7554-4121-2727	186
6954-8528-6415	236	7510-2541-2700	184	7554-4121-6227	186
6954-8528-6417	237	7510-2541-2701	185	7554-8521-2727	186
6954-8528-6420	236	7510-2541-6200	184	7554-8521-6227	186
6954-8528-6427	237	7510-2541-6201	185	8400-1631-2301	199
6956-4727-2715	242	7510-4141-2100	184	8400-1631-6200	199
6956-8527-2715	242	7510-4141-2700	185	8400-1830-2300	199
6956-8529-6224	242	7510-4141-6240	184	8400-1830-6200	199
7400-1631-2301	187	7510-4141-6241	185	8400-2525-2700	196
7400-1631-6200	187	7510-4230-2301	188	8400-2525-2702	196
7400-1830-2300	187	7510-4230-6201	188	8400-2525-6201	196
7400-1830-6200	187	7510-8541-2100	184	8400-2525-6202	196
7400-2502-2400	183	7510-8541-2700	185	8400-4121-2700	196
7400-2502-2701	182	7510-8541-6240	184	8400-4121-2701	196
7400-2502-2702	182	7510-8541-6241	185	8400-4121-6200	196
7400-2502-2703	183	7530-0081-2715	190	8400-4121-6201	196
7400-2502-6200	183	7530-0081-2720	190	8400-4230-2301	199
7400-2502-6240	182	7530-0081-2736	190	8400-4230-6201	199
7400-2502-6241	183	7530-0081-2765	190	8400-8521-2700	196
7400-2502-6242	182	7530-0081-6215	190	8400-8521-2701	196
7400-2526-2701	183	7530-0081-6220	190	8400-8521-6200	196
7400-2526-6201	183	7530-0081-6236	190	8400-8521-6201	196
7400-4121-2700	182	7530-0081-6265	190	8401-2545-2700	198
7400-4121-2701	183	7554-0012-2751	191	8401-2545-6200	198
7400-4121-2702	182	7554-0012-2761	191	8401-4145-2700	198
7400-4121-6240	183	7554-0052-2751	191	8401-4145-6200	198
7400-4121-6241	182	7554-0052-2761	191	8401-8545-2700	198
7400-4121-6242	182	7554-0081-2715	189	8401-8545-6200	198
7400-4230-2301	187	7554-0081-2716	189	8430-0081-2715	203
7400-4230-6201	187	7554-0081-2720	189	8430-0081-2720	203
7400-8521-2700	182	7554-0081-2721	189	8430-0081-2736	203
7400-8521-2701	183	7554-0081-2736	189	8430-0081-6215	203
7400-8521-2702	182	7554-0081-2737	189	8430-0081-6220	203
7400-8521-6240	183	7554-0081-2765	189	8430-0081-6236	203
7400-8521-6241	182	7554-0081-2766	189	8454-0081-2715	202
7400-8521-6242	182	7554-0081-6215	189	8454-0081-2720	202
7401-2545-2700	186	7554-0081-6216	189	8454-0081-2735	202
7401-2545-6200	186	7554-0081-6220	189	8454-0081-6215	202
7401-4145-2700	186	7554-0081-6221	189	8454-0081-6220	202
7401-4145-6240	186	7554-0081-6236	189	8454-0081-6235	202
7401-8545-2700	186	7554-0081-6237	189	8454-0781-2715	202
7401-8545-6240	186	7554-0081-6265	189	8454-0781-2720	202
7500-2502-2700	184	7554-0081-6266	189	8454-0781-2735	202

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8454-0781-6215	202	9-20164-00	281	9-31016	102
8454-0781-6220	202	9-20164-07	281	9-31801	105
8454-0781-6235	202	9-20164-09	281	9-31802	105
8500-2525-2700	197	9201-8521-6420	54	9-31803	105
8500-2525-6400	197	9-20250	279	9-31804	105
8500-4121-2700	197	9-20253	280	9-31901	105
8500-4121-6400	197	9-20255-00	281	9-31902	105
8500-8521-2700	197	9-20255-07	281	9-31903	105
8500-8521-6400	197	9-20255-09	281	9-31904	105
8510-1631-2301	200	9-21000	79	9-31911	102
8510-1631-6200	200	9-21011	79	9-31917	102
8510-1830-2300	200	9-21015	79	9-31918	102
8510-1830-6200	200	9-21016	79	9-31920	102
8510-2521-2700	197	9-21040	281	9330-0081-6212	59
8510-2521-6200	197	9-21087	80	9330-0081-6214	59
8510-4121-2700	197	9-21088	80	9330-0081-6218	59
8510-4121-6200	197	9-21701	87	9330-0081-6275	60
8510-4230-2301	200	9-21702	87	9330-0081-6280	60
8510-4230-6201	200	9-21703	87	9330-0431-6460	62
8510-8521-2700	197	9-21705	80	9330-0431-6461	62
8510-8521-6200	197	9-21706	80	9330-0431-6462	62
8530-0081-2715	203	9-21711	79	9330-0431-6464	62
8530-0081-2722	203	9-21717	79	9330-0431-6465	62
8530-0081-2736	203	9-21718	79	9330-0431-6466	62
8530-0081-6215	203	9-21719	79	9330-0441-6415	62
8530-0081-6222	203	9-21720	87	9333-0431-6215	63
8530-0081-6236	203	9-21801	87	9352-0081-6200	57
8530-0431-6436	204	9-21802	87	9352-0081-6201	56
8530-0441-6436	204	9-21803	87	9352-0081-6202	56
8554-0081-2715	201	9-21804	87	9352-0081-6220	57
8554-0081-2720	201	9-21901	87	9352-0781-6200	57
8554-0081-2735	201	9-21902	87	9352-0781-6201	56
8554-0081-6215	201	9-21903	87	9352-0781-6202	56
8554-0081-6220	201	9-21908	87	9352-0781-6220	57
8554-0081-6235	201	9-21911	79	9352-0881-6200	57
8554-0781-2715	201	9-21917	79	9352-0881-6201	56
8554-0781-2720	201	9-21918	79	9352-0881-6202	56
8554-0781-2735	201	9-21920	79	9352-0881-6220	57
8554-0781-6215	201	9-21998	80	9352-8525-6440	54
8554-0781-6220	201	9-21999	80	9354-0081-6215	58
8554-0781-6237	201	9252-0081-6215	58	9354-0081-6218	58
8554-2521-2700	198	9252-0781-6215	58	9354-0781-6215	58
8554-2521-6400	198	9252-0881-6215	58	9354-0781-6218	58
8554-4121-2700	198	9254-0081-6215	59	9354-0881-6215	58
8554-4121-6400	198	9254-0781-6215	59	9354-0881-6218	58
8554-8521-2700	198	9254-0881-6215	59	9354-8521-6400	55
8554-8521-6400	198	9300-4721-6444	53	9354-8522-6440	55
9200-4720-6200	52	9300-8521-6444	53	93-TORQUE-20	278
9200-8520-6240	52	9-30250	279	93-TORQUE-30	278
9200-8520-6244	52	9-30253	280	9-40002	309
9200-8526-2300	52	9-31000	102	9-40003	312
9201-4721-6420	54	9-31011	102	9-40004	292
9-20164	281	9-31015	102	9-40006	316

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9-40007	317	9510-4745-6200	171	9752-0781-6215	57
9-40009	302	9510-8520-6200	171	9752-0881-6201	56
9-40010	305	9510-8545-6200	171	9752-0881-6203	56
9-40013	303	9-51801	119	9752-0881-6211	57
9-40014	290	9-51802	119	9752-0881-6215	57
9-40017	300	9-51803	119	9752-4725-6440	54
9-40018	301	9-51804	119	9754-0081-6215	58
9-40019	299	9-51900	117	9754-0081-6218	58
9-40031	288	9-51901	119	9754-0781-6215	58
9-40046	304	9-51902	119	9754-0781-6218	58
9400-4725-6200	170	9-51903	119	9754-0881-6215	58
9-40054	311	9-51904	119	9754-0881-6218	58
9-40055	293	9-51915	117	9754-4721-6400	55
9-40056	295	9530-0085-6200	174	9754-4722-6440	55
9-40057	291	9530-0085-6208	174	9756-0081-6215	60
9-40070	296	9530-0085-6212	174	9756-0081-6220	60
9-40073	315	9552-0085-6200	172	9756-0781-6215	60
9-40075	294	9552-0085-6208	172	9756-0781-6220	60
9-40076	298	9552-0085-6213	172	9756-0881-6215	60
9-40078	310	9552-0085-6214	172	9756-0881-6220	60
9-40079	314	9552-0085-6217	172	9756-1081-6213	61
9-40080	287	9552-0085-6220	172	9756-1081-6223	61
9-40082	286	9552-0085-6223	172	9756-1781-6213	61
9-40083	306	9552-0085-6224	172	9756-1781-6223	61
9-40084	307	9552-0085-6227	172	9756-1881-6213	61
9-40085	308	9552-4745-6200	171	9756-1881-6223	61
9400-8525-6200	170	9552-8545-6200	171	9756-2081-6213	61
9-40086	313	9554-0085-6203	172	9756-2081-6223	61
9-40087	297	9554-0085-6204	172	9756-2781-6213	61
9-40090	289	9554-0085-6212	172	9756-2781-6223	61
9430-0085-6200	174	9554-0085-6215	172	9756-2881-6213	61
9430-0085-6208	174	9554-0085-6220	172	9756-2881-6223	61
9430-0085-6212	174	9600-8526-2401	53	9800-1630-2301	17
9452-0085-6209	173	9652-0081-6215	58	9800-1630-6200	17
9452-0085-6212	173	9652-0781-6215	58	9800-1830-2300	17
9452-0085-6213	173	9652-0881-6215	58	9800-1830-6200	17
9452-0085-6214	173	9654-0081-6215	59	9800-4120-2401	12
9452-0085-6217	173	9654-0781-6215	59	9800-4120-6241	12
9452-0085-6220	173	9654-0881-6215	59	9800-4120-6244	12
9452-0085-6227	173	9730-0081-6215	59	9800-4120-6444	12
9454-0085-6203	173	9730-0081-6218	59	9800-4230-2300	17
9454-0085-6204	173	9-74003	282	9800-4230-6441	17
9454-0085-6209	173	9-74004	282	9800-4426-6243	12
9454-0085-6212	173	9740-0431-6415	63	9800-4426-6443	12
9454-0085-6215	173	9740-0431-6416	63	9800-8520-2400	12
9454-0085-6220	173	9740-0431-6418	63	9800-8520-6240	12
9500-4725-6200	170	9752-0081-6201	56	9800-8520-6246	12
9500-8525-6200	170	9752-0081-6203	56	9800-8520-6446	12
9-50250	279	9752-0081-6211	57	9800-9086-6244	13
9-50253	280	9752-0081-6215	57	9800-9086-6444	13
9-51000	117	9752-0781-6201	56	9800-9141-6240	13
9-51015	117	9752-0781-6203	56	9800-9141-6244	13
9510-4720-6200	171	9752-0781-6211	57	9800-9141-6440	13

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9801-1630-2400	18	9854-0781-6220	23	9952-0032-2400	29
9801-1630-6440	18	9854-0781-6227	23	9952-0032-6201	27
9801-1830-2400	18	9854-0781-6236	23	9952-0032-6204	27
9801-1830-6200	18	9854-0781-6237	23	9952-0032-6207	27
9801-4120-2400	16	9854-0881-6215	23	9952-0032-6211	27
9801-4121-6212	16	9854-0881-6217	23	9952-0032-6214	27
9801-4140-6200	16	9854-0881-6220	23	9952-0032-6217	27
9801-4230-2300	18	9854-0881-6227	23	9952-0032-6221	27
9801-4230-6200	18	9854-0881-6236	23	9952-0032-6222	27
9801-8520-2401	16	9854-0881-6237	23	9952-0032-6223	27
9801-8521-6212	16	9900-4120-6444	13	9952-0032-6224	27
9801-8540-6200	16	9900-4721-6400	13	9952-0032-6227	27
9830-0431-6400	35	9900-8520-6401	13	9952-0032-6228	27
9830-0431-6422	35	9910-4120-6401	14	9952-0032-6235	27
9830-0431-6444	35	9910-4120-6403	14	9952-0032-6236	27
9840-0081-6212	34	9910-4720-6401	14	9952-0032-6237	27
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9952-4121-6401	15	9954-0881-6215	20	9958-0781-6215	26
9952-4721-2400	15	9954-0881-6217	21	9958-0781-6220	26
9952-4721-6400	15	9954-0881-6219	21	9958-0881-6215	26
9952-8521-2440	15	9954-0881-6220	20	9958-0881-6220	26
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9954-0012-6217	31	9954-0881-6229	21	9-96002	282
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9954-0012-6250	31	9954-0881-6237	21	9-96007	273
9954-0012-6251	31	9954-0881-6279	21	9-96008	273
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