



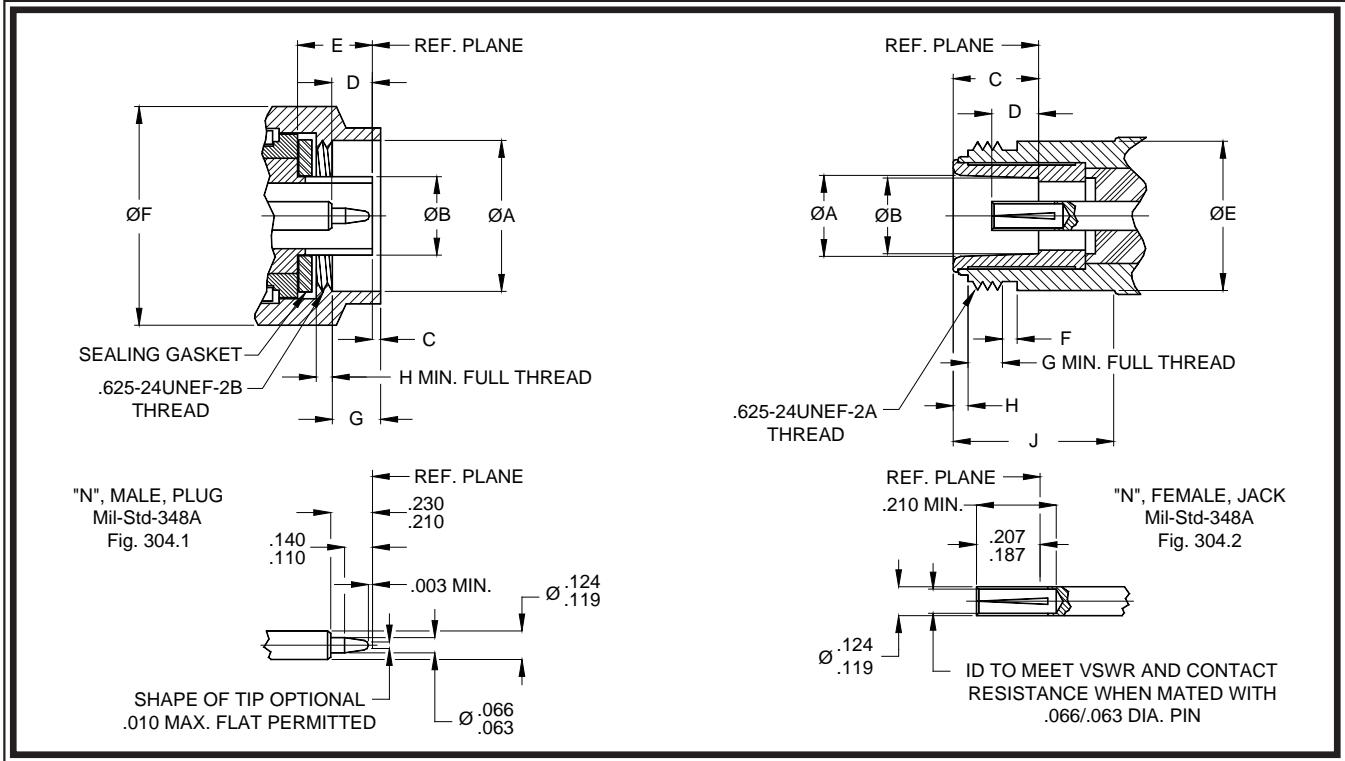
# type "n"



[www.dynawave.com](http://www.dynawave.com)

**dynawave**  
INCORPORATED

# "N" • interface dimensions



## male, plug

## female, jack

LTR.	INCHES / MILLIMETERS <sup>3</sup>			
	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	-----	-----	-----	-----

LTR.	INCHES / MILLIMETERS <sup>3</sup>			
	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

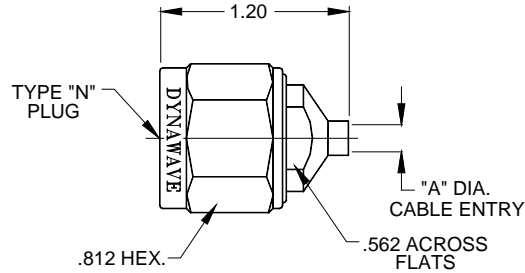
In the event of any conflict between these specifications and General Specification MIL-C-39012 these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-C-39012.

REQUIREMENT	MIL-C-39012 PARAGRAPH	SPECIFICATIONS
<b>GENERAL</b>		
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.
<b>ELECTRICAL</b>		
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.
<b>MECHANICAL</b>		
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.
<b>ENVIRONMENTAL</b>		
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

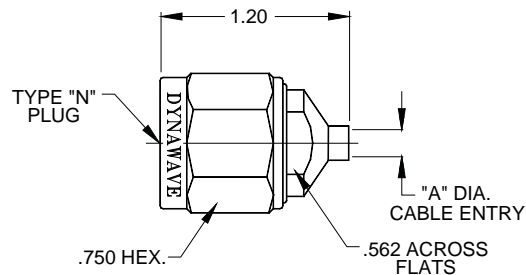
# “N” • semi rigid cable connectors

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

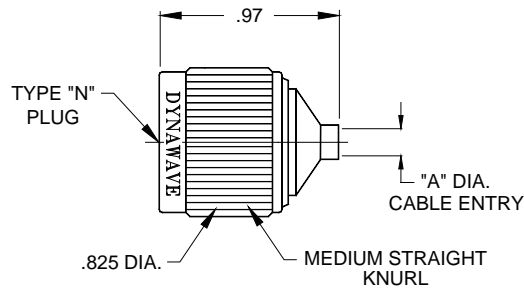


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-8521-2702	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7400-4121-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7400-8521-6242	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7400-4121-6242	.144 MIN.	RG 402/U (.141)	STAINLESS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

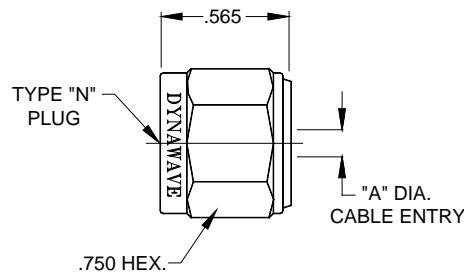
# “N” • semi rigid cable connectors

male, plug, straight, with center contact



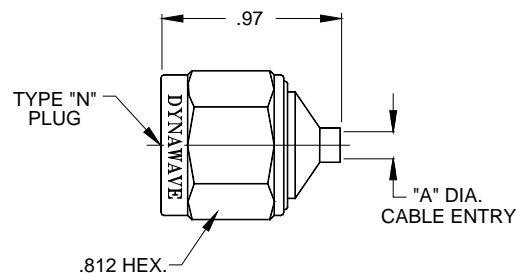
PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-8521-2701	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7400-4121-2701	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7400-8521-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7400-4121-6240	.144 MIN.	RG 402/U (.141)	STAINLESS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

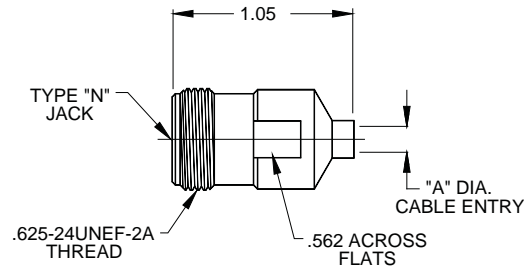


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7400-2526-2701	.255 MIN.	RG 401/U (.250)	BRASS	DC - 12.5 GHz.
7400-2526-6201	.255 MIN.	RG 401/U (.250)	STAINLESS STEEL	DC - 12.5 GHz.

Specifications are subject to change without

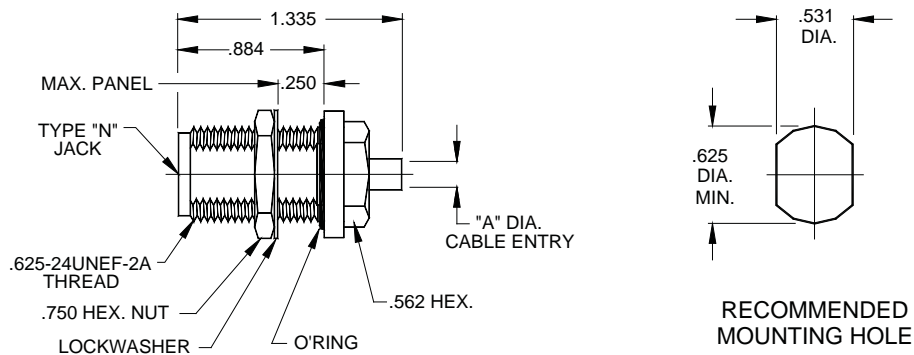
# “N” • semi rigid cable connectors

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

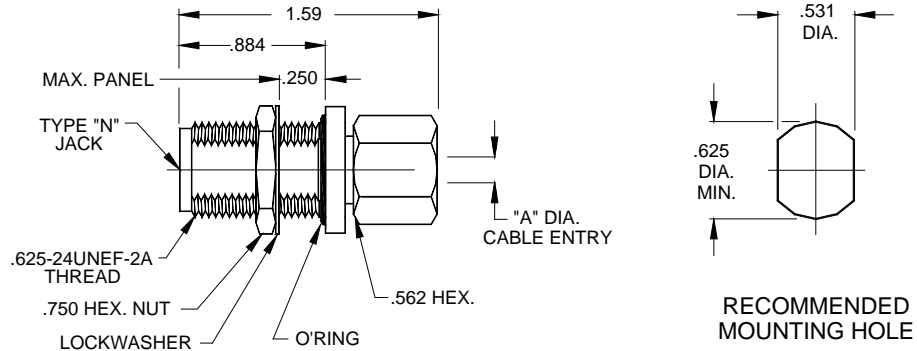


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7510-8541-2100	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7510-4141-2100	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7510-8541-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7510-4141-6240	.144 MIN.	RG 402/U (.141)	STAINLESS 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

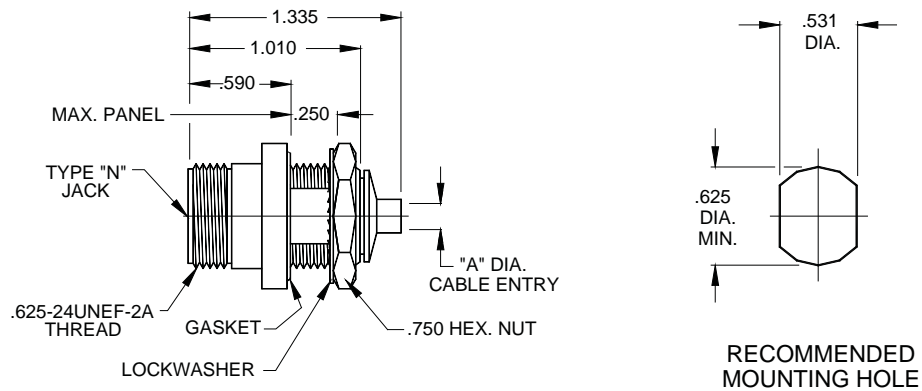
# “N” ● semi rigid cable connectors

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

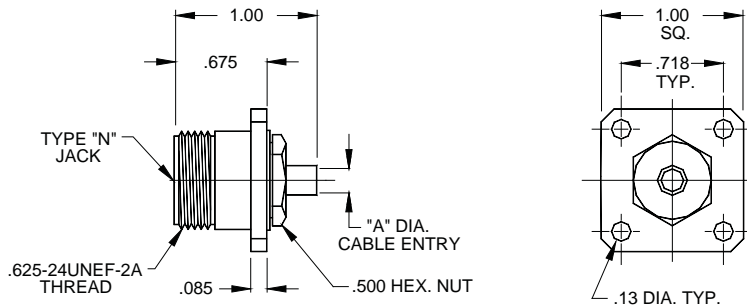


PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7510-8541-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7510-4141-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7510-8541-6241	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7510-4141-6241	.144 MIN.	RG 402/U (.141)	STAINLESS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

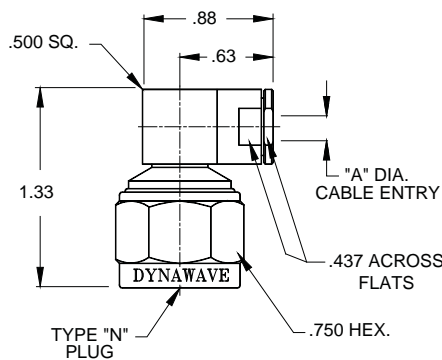
# “N” ● semi rigid cable connectors

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



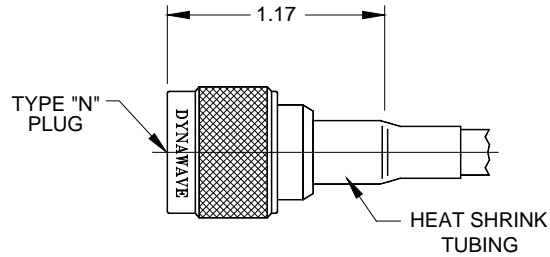
PART NUMBER	“A” DIA.	CABLE TYPE	MATERIAL TYPE	FREQUENCY RANGE
7401-8545-2700	.089 MIN.	RG 405/U (.085)	BRASS	DC - 18.0 GHz.
7401-4145-2700	.144 MIN.	RG 402/U (.141)	BRASS	DC - 18.0 GHz.
7401-8545-6240	.089 MIN.	RG 405/U (.085)	STAINLESS STEEL	DC - 18.0 GHz.
7401-4145-6240	.144 MIN.	RG 402/U (.141)	STAINLESS 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



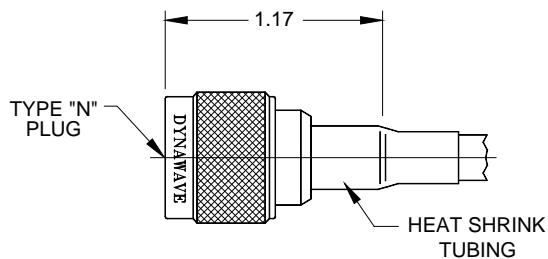
# “N” • flexible cable connectors

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



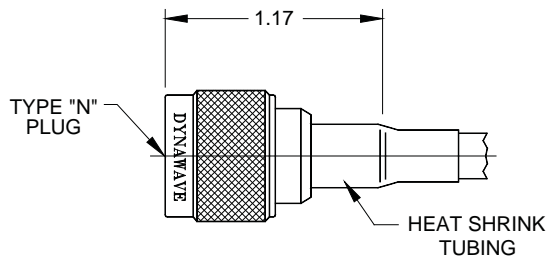
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7400-1631-2301	BRASS	DC - 3.0 GHz.
7400-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

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

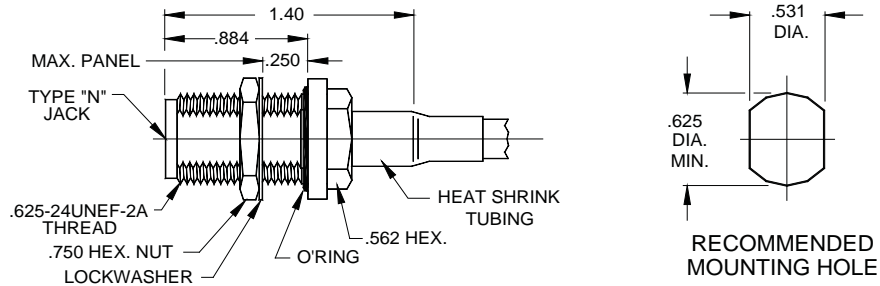


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7400-4230-2301	BRASS	DC - 6.0 GHz.
7400-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without

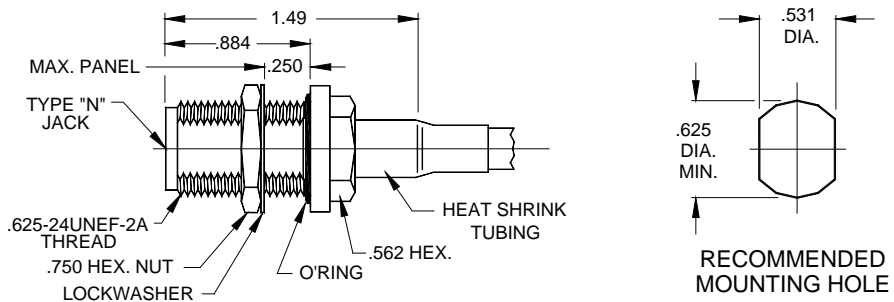
# “N” ● flexible cable connectors

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



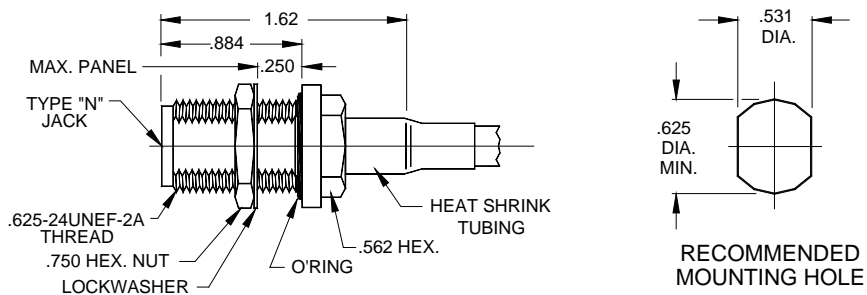
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7510-1631-2301	BRASS	DC - 3.0 GHz.
7510-1631-6200	STAINLESS STEEL	DC - 3.0 GHz.

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

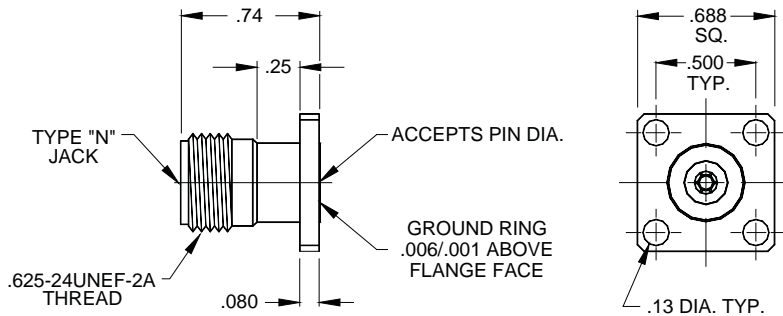


PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
7510-4230-2301	BRASS	DC - 6.0 GHz.
7510-4230-6201	STAINLESS STEEL	DC - 6.0 GHz.

Specifications are subject to change without notice

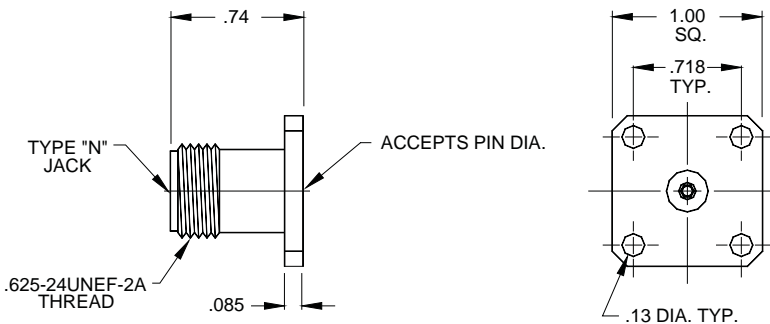
# “N” ● field replaceable connectors

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

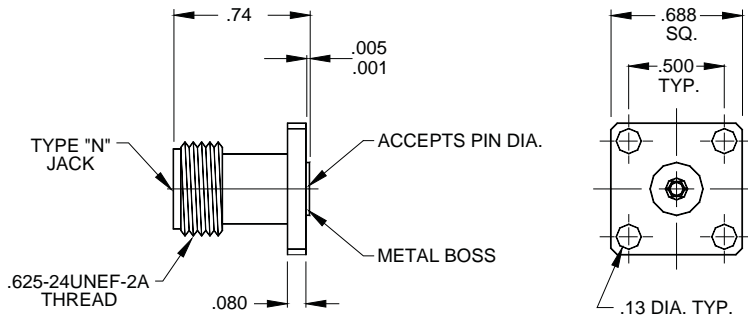


PART NUMBER	ACCEPTS PIN DIA.	MATERIAL TYPE	FREQUENCY RANGE
7554-0081-2716	.016/.011	BRASS	DC - 18.0 GHz.
7554-0081-6216	.016/.011	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2721	.021/.017	BRASS	DC - 18.0 GHz.
7554-0081-6221	.021/.017	STAINLESS STEEL	DC - 18.0 GHz.
7554-0081-2737	.037/.035	BRASS	DC - 18.0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

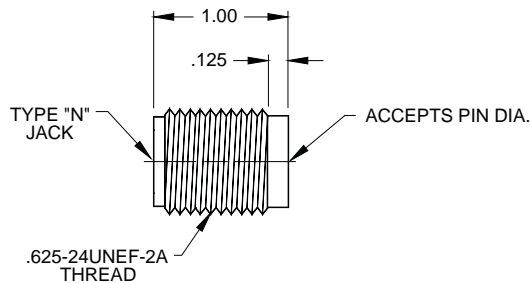
# “N” ● field replaceable connectors

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

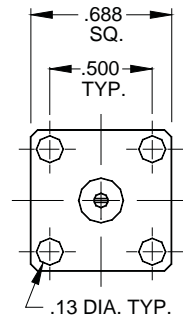
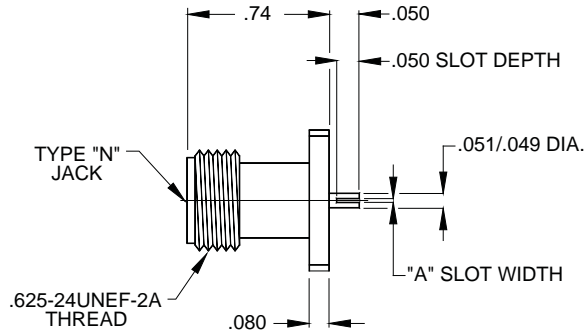


Fig. 1

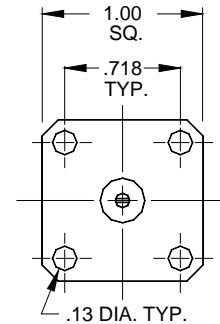


Fig. 2

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

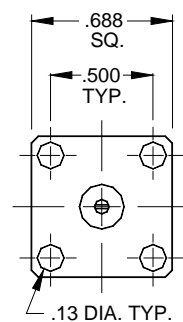
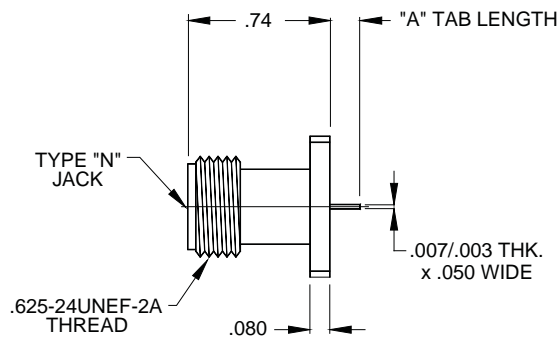


Fig. 1

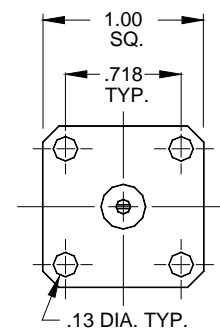


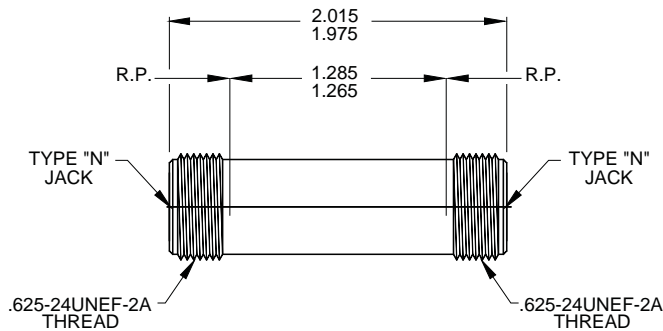
Fig. 2

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

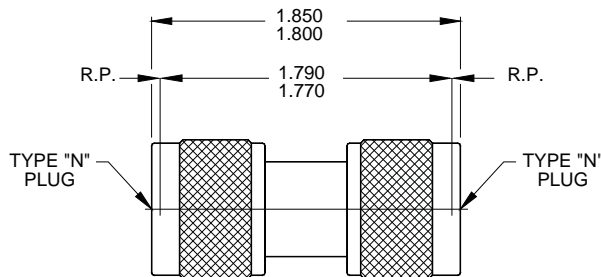
# “N” ● in-series adapters

female, jack to female, jack, straight



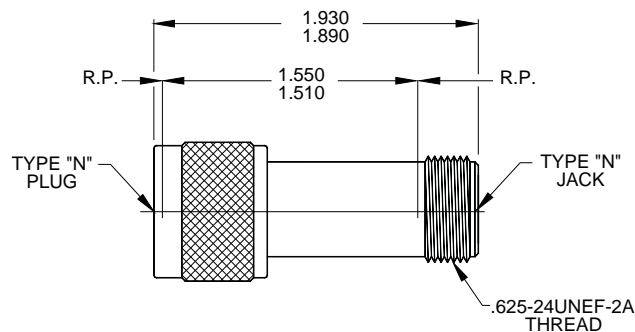
PART NUMBER	MATERIAL TYPE	FREQUENCY RANGE
1100-7575-2720	BRASS	DC - 18.0 GHz.
1100-7575-6220	STAINLESS STEEL	DC - 18.0 GHz.

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