

RF CONNECTORS SMA SERIES

SMA SPECIFICATIONS

MATERIALS

Bodies, nuts - Corrosion Resistant Steel per QQ-S-763
Contacts - Beryllium Copper per QQ-C-530
Insulators - Teflon per MIL - P - 19468
Gaskets - Silicone Rubber per ZZ-R-765

*FINISH

Contact - .000050 min Gold per MIL-G-45204
Other Metal Parts - gold plated or passivated

MATING CHARACTERISTICS

Center Contact, socket - 1 oz. min.
Force to engage, disengage - 2 in-lbs. maximum
Connector durability - 500 cycles min.

ELECTRICAL

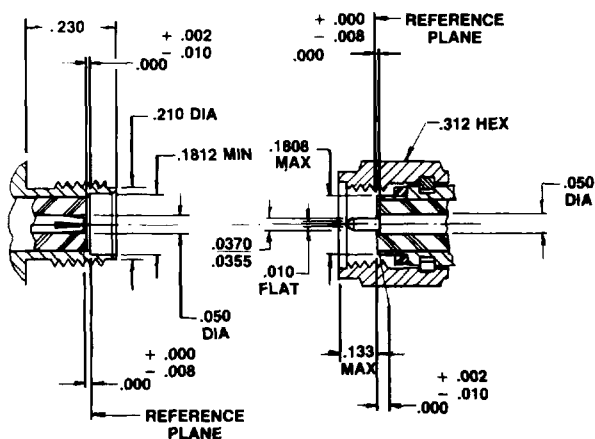
Impedance - 50 ohms nominal
Frequency range: 0-18 GHZ semi rigid cable
0-12 GHZ flexible cable
Insulation resistance - 5.000 megohms min.

ELECTRICAL (Continued)

Contact resistance -
Center contact - 3 milliohms max.
Outer contact - 2 milliohms max.
RF leakage - -60DB minimum

Specifications are typical for
connectors designed to MIL - C -39012
and may not apply to all connectors.

SMA INTERFACE DIMENSIONS



The SMA is a high performance connector capable of being used to 18 GHZ with low VSWR. The bodies are manufactured from stainless steel and the contacts from Beryllium Copper. Because of its rugged construction, small size and superior performance it has become a general purpose connector used in many applications not requiring performance at microwave frequencies.

The connector can be used with semi-rigid or flexible cable. The methods of attaching semi-rigid cable are direct solder or solder-clamp. Flexible cable is attached by clamping, crimping or solder.

* NOTE:

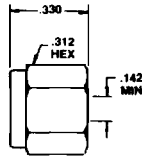
ALL PART NUMBERS SHOWN ARE GOLD PLATED.
FOR PASSIVATED STAINLESS STEEL ADD -22

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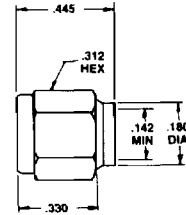
RF CONNECTORS SMA SERIES

SOLDER, SEMI-RIGID CABLE



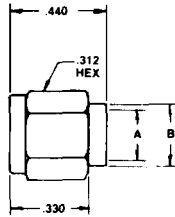
Plug, Straight
Cabling Proc. A
(no contact)

PART NUMBER*	CABLE
800-1100	.141SR



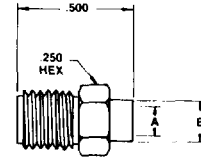
Plug, Straight
Cabling Proc. A
(no contact)

PART NUMBER*	CABLE
800-1107	.141SR



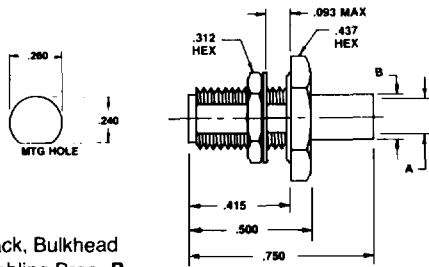
Plug, Straight
Cabling Proc. B

PART NUMBER	A.	B.	CABLE
800-1101	.086	.120	.085SR
800-1102	.142	.180	.141SR



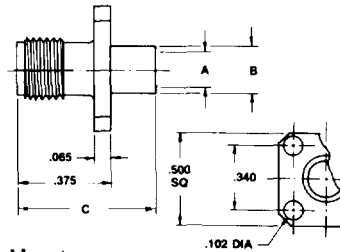
Jack, Straight
Cabling Proc. B

PART NUMBER	A.	B.	CABLE
800-1108	.086	.120	.085SR
800-1109	.142	.180	.141SR



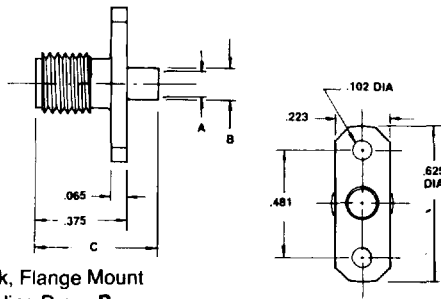
Jack, Bulkhead
Cabling Proc. B

PART NUMBER	A.	B.	CABLE
800-1103	.086	.120	.085SR
800-1104	.142	.180	.141SR



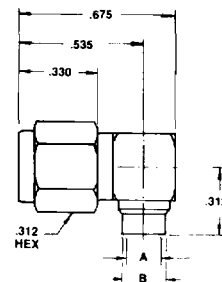
Jack, Flange Mount
Cabling Proc. B

PART NUMBER	A.	B.	C.	CABLE
800-1110	.086	.120	.500	.085SR
800-1111	.142	.180	.560	.141SR



Jack, Flange Mount
Cabling Proc. B

PART NUMBER	A.	B.	C.	CABLE
800-1105	.086	.120	.500	.085SR
800-1106	.142	.180	.560	.141SR

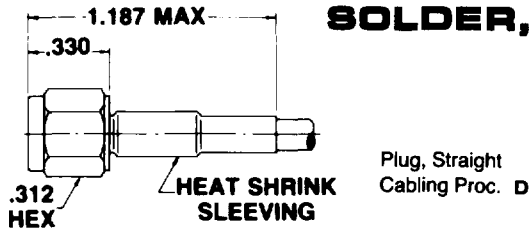


Plug, Right Angle
Cabling Proc. C

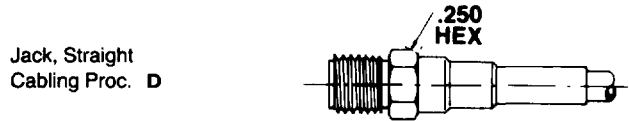
PART NUMBER	A.	B.	CABLE
800-1112	.086	.120	.085SR
800-1113	.142	.180	.141SR

RF CONNECTORS SMA SERIES

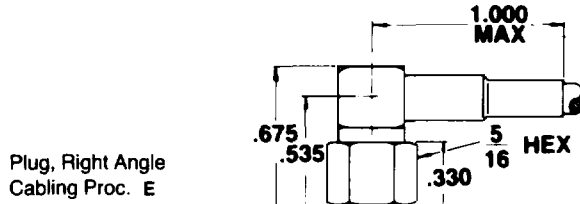
SOLDER, FLEXIBLE CABLE



PART NUMBER	CABLE
800-1114	RG316, 187, 188, 174, 179
800-1115	RG142, 55, 58, 141, 223, 303, 400

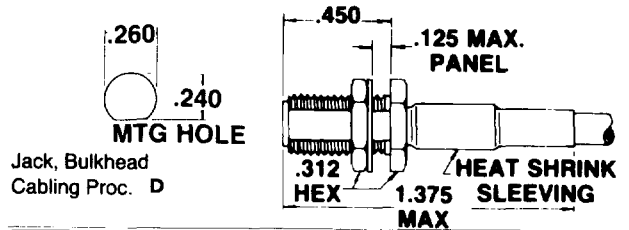


PART NUMBER	CABLE
800-1118	RG316, 187, 188, 174, 179
800-1119	RG142, 55, 58, 141, 223, 303, 400



Plug, Right Angle
Cabling Proc. E

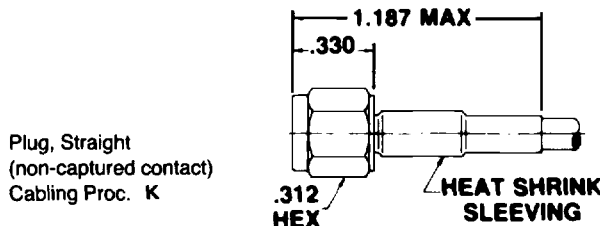
PART NUMBER	CABLE
800-1116	RG316, 187, 188, 174, 179
800-1117	RG142, 55, 58, 141, 223, 303, 400



Jack, Bulkhead
Cabling Proc. D

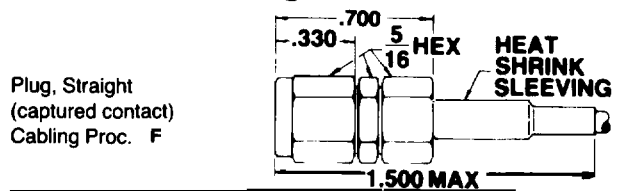
PART NUMBER	CABLE
800-1120	RG316, 187, 174, 179
800-1121	RG142, 55, 58, 141, 223, 303, 400

CRIMP, FLEXIBLE CABLE



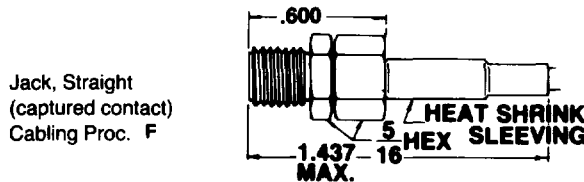
Plug, Straight
(non-captured contact)
Cabling Proc. K

PART NUMBER	CABLE
800-1130	RG316, 187, 188, 174, 179
800-1131	RG142, 55, 223, 400



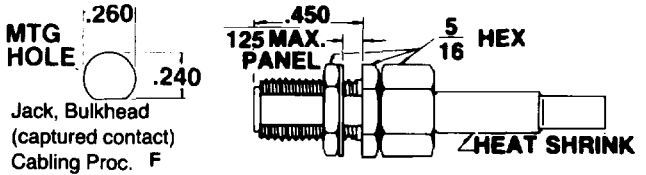
Plug, Straight
(captured contact)
Cabling Proc. F

PART NUMBER	CABLE
800-1142	RG178, 196
800-1143	RG316, 187, 188, 174, 179
800-1144	RG195, 180
800-1145	RG141, 58, 303
800-1146	RG142, 55, 223, 400



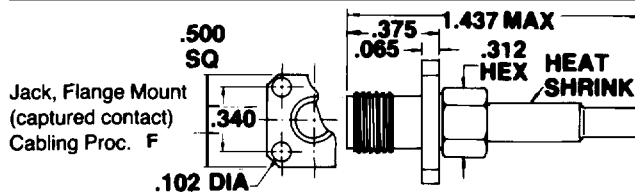
Jack, Straight
(captured contact)
Cabling Proc. F

PART NUMBER	CABLE
800-1132	RG178, 196
800-1133	RG316, 187, 188, 174, 179
800-1134	RG195, 180
800-1135	RG141, 58, 303
800-1136	RG142, 55, 223, 400



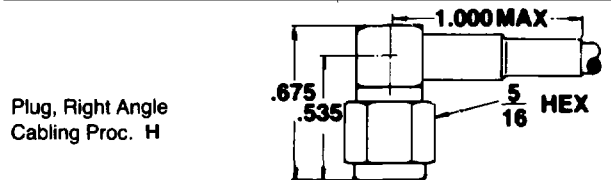
Jack, Bulkhead
(captured contact)
Cabling Proc. F

PART NUMBER	CABLE
800-1147	RG178, 196
800-1148	RG316, 187, 188, 174, 179
800-1149	RG195, 180
800-1150	RG141, 58, 303
800-1151	RG142, 55, 223, 400



Jack, Flange Mount
(captured contact)
Cabling Proc. F

PART NUMBER	CABLE
800-1137	RG178, 196
800-1138	RG316, 187, 188, 174, 179
800-1139	RG195, 180
800-1140	RG141, 58, 303
800-1141	RG142, 55, 223, 400



Plug, Right Angle
Cabling Proc. H

PART NUMBER	CABLE
800-1152	RG178, 196
800-1153	RG316, 187, 188, 174, 179
800-1154	RG195, 180
800-1155	RG141, 58, 303
800-1156	RG142, 55, 223, 400

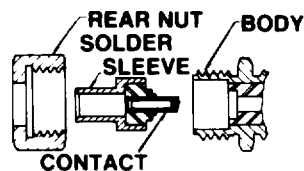
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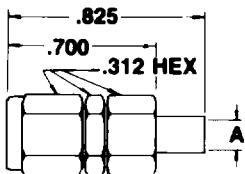
RF CONNECTORS SMA SERIES

SOLDER-CLAMP, SEMI RIGID

Our solder-clamp termination is especially designed for assembling semi-rigid coax cable to a connector body. The cable is soldered into a sleeve which in turn is clamped into the body with a rear nut. This method minimizes the teflon extrusion problem associated with direct solder designs and also results in excellent electrical performance. Center contact is captured between insulators.

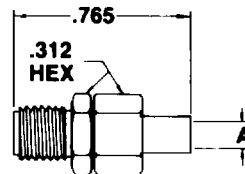


Plug Straight
Cabling Proc. M

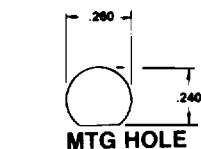


PART NUMBER	A.	CABLE
800-1160	.120	.085SR
800-1161	.180	.141SR

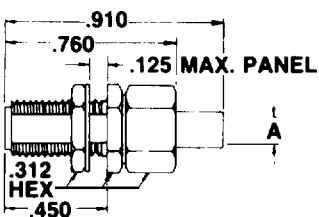
Jack, Straight
Cabling Proc. M



PART NUMBER	A.	CABLE
800-1164	.120	.085SR
800-1165	.180	.141SR

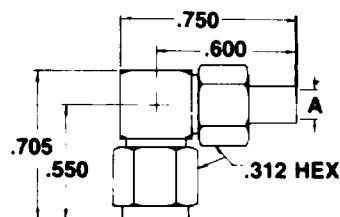


Jack, Bulkhead
Cabling Proc. M



PART NUMBER	A.	CABLE
800-1162	.120	.085SR
800-1163	.180	.141SR

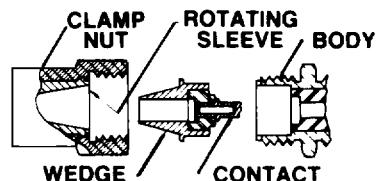
Plug, Right Angle
Cabling Proc. N



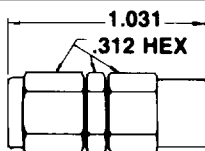
PART NUMBER	A.	CABLE
800-1166	.120	.085SR
800-1167	.180	.141SR

CLAMP, FLEXIBLE CABLE

Our clamp cable termination has a minimum of packing parts for fast, simple assembly. The connector is field serviceable and features a rotating sleeve in the clamping nut which prevents the cable from twisting. The cable is retained in the body by a rear nut which clamps the braid and jacket to the wedge. The center contact is captivated.

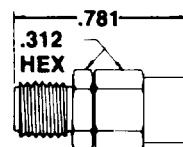


Plug, Straight
Cabling Proc. S



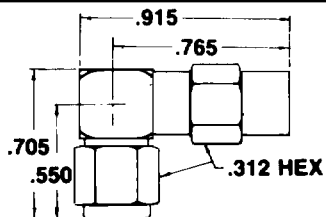
PART NUMBER	CABLE
800-1170	RG316, 188, 187, 174, 179
800-1171	RG195, 180
800-1172	RG142, 55, 58, 141, 223, 303, 400

Jack, Straight
Cabling Proc. S



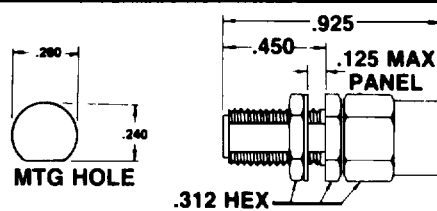
PART NUMBER	CABLE
800-1176	RG316, 188, 187, 174, 179
800-1177	RG195, 180
800-1178	RG142, 55, 58, 141, 223, 303, 400

Plug, Right Angle
Cabling Proc. T



PART NUMBER	CABLE
800-1173	RG316, 188, 187, 174, 179
800-1174	RG195, 180
800-1175	RG142, 55, 58, 141, 223, 303, 400

Jack, Bulkhead
Cabling Proc. S

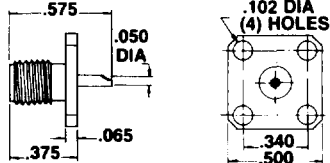


PART NUMBER	CABLE
800-1179	RG316, 188, 174, 179
800-1180	RG195, 180
800-1181	RG142, 55, 58, 141, 223, 303, 400

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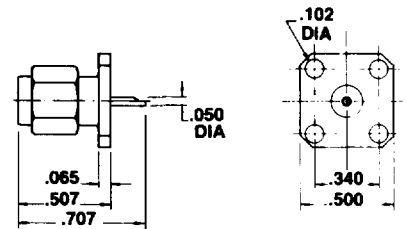
RECEPTACLES

Jack, Flange Mount
Solder Pot



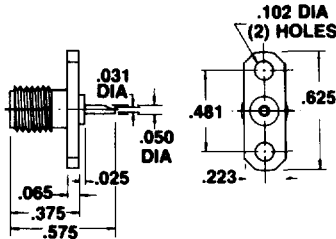
PART NUMBER
800-1200

Plug, Flange Mount
Solder Pot



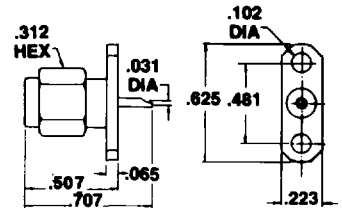
PART NUMBER
800-1206

Jack, Flange Mount
Solder Pot



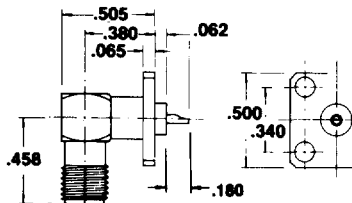
PART NUMBER
800-1201

Plug, Flange Mount
Solder Pot



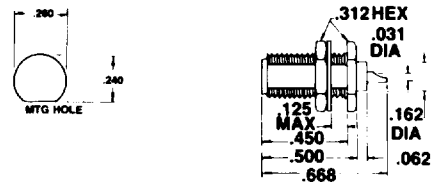
PART NUMBER
800-1207

Jack, Right Angle,
Flange Mount
Solder Pot



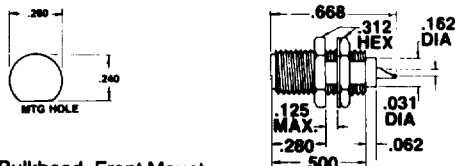
PART NUMBER
800-1202

Jack, Bulkhead, Rear Mount
Solder Pot



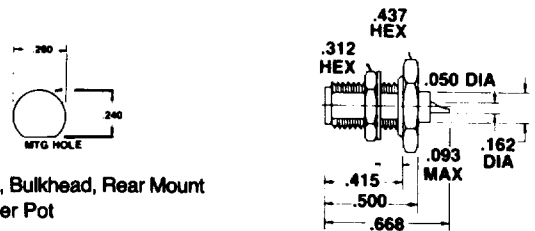
PART NUMBER
800-1208

Jack, Bulkhead, Front Mount
Solder Pot



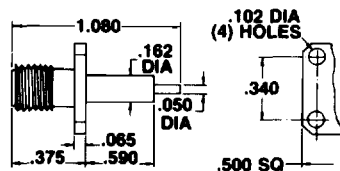
PART NUMBER
800-1203

Jack, Bulkhead, Rear Mount
Solder Pot



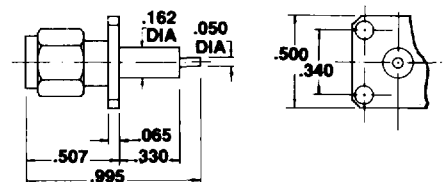
PART NUMBER
800-1209

Jack, Flange Mount
Straight Terminal



PART NUMBER	CENTER CONTACT
800-1204	Not Captured
800-1205	Captured

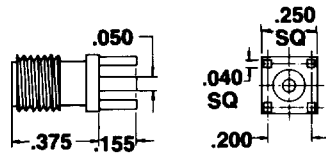
Plug, Flange Mount
Straight Terminal



PART NUMBER	CENTER CONTACT
800-1210	Captured
800-1211	Not Captured

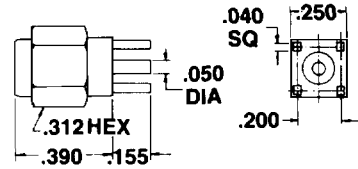
RF CONNECTORS SMA SERIES

RECEPTACLES, PRINTED CIRCUIT



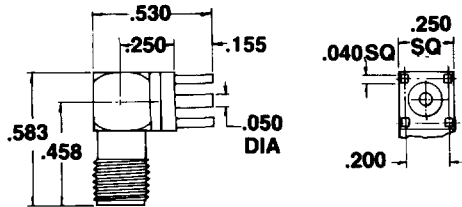
Jack, Straight

PART NUMBER
800-1220



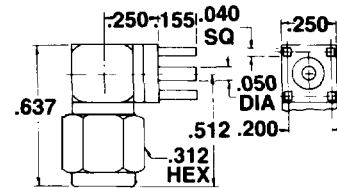
Plug, Straight

PART NUMBER
800-1222



Jack, Right Angle

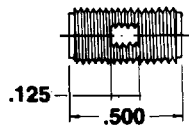
PART NUMBER
800-1221



Plug, Right Angle

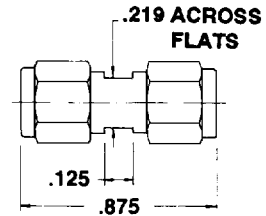
PART NUMBER
800-1223

ADAPTERS



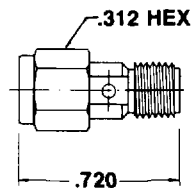
Jack/Jack

PART NUMBER
800-1230



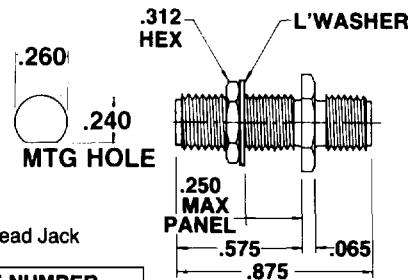
Plug/Plug

PART NUMBER
800-1233



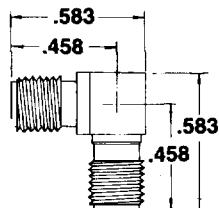
Jack/Plug

PART NUMBER
800-1231



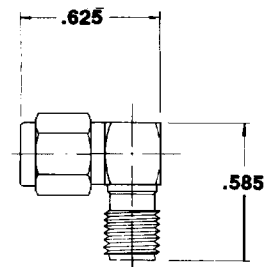
Jack/Bulkhead Jack

PART NUMBER
800-1234



Jack/Jack, Right Angle

PART NUMBER
800-1232



Jack/Plug, Right Angle

PART NUMBER
800-1235