50 Ω	DC – 26 GHz

I

NEW SERIES

- **SMA solderless** connectors for semi-rigid cable
- **SMA 2.9** DC - 46 GHz

GENERAL

- Miniature coaxial connectors
- Screw-on coupling
- High RF performance
- 2 plating options :
  - gold plated
  - passived stainless steel

  Space qualified range of products.

APPLICABLE STANDARDS

- MIL-C-39012
- IEC 169-1
- CECC 22110
- BS 9210 N 0006

QUALIFICATIONS / APPROVALS

- BS 9210 N 0006
- CECC 22110
- QPL MIL-C-39012

SPACE QUALIFIED APPROVALS

- SCC 3402 (ESA)

RADIALL HIGH RELIABILITY

APPLICATIONS

- Civil & Military Telecommunication
- Civil & Military Aeronautics
- Military equipments
- Space

CONTENTS

SMA

CHARACTERISTICS

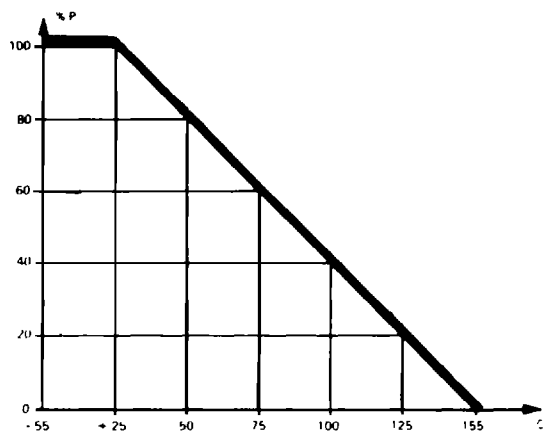
REQUIREMENT	MIL - C - 39012 paragraph	GENERAL SPECIFICATIONS
ELECTRICAL		
Impedance		50 Ω
Frequency range		0 - 26 GHz
V.S.W.R. up to 18 GHz	3 - 14	Cable / Straight / Right angle 2,6/50 : 1,15 +0,02 F (GHz) / 1,15 +0,03 F (GHz) 5/50 : 1,15 +0,01 F (GHz) / 1,157 +0,02 F (GHz) .085" : 1,07 +0,01 F (GHz) / 1,10 +0,01 F (GHz) .141" : 1,05 +0,01 F (GHz) / 1,10 +0,01 F (GHz)
Insertion loss	3 - 27	straight : 0,03 √f(GHz) right angle : 0,05 √f(GHz)
RF leakage	3 - 26	− 60 dB min. between 2 and 3 GHz
Insulation resistance	3 - 11	5000 megohms min.
Contact resistance	3 - 16	Initial / After environment Center contact (mΩ) : 3 / 4 Outer contact (mΩ) : 2,5 / 3
Voltage rating (volts RMS)		Cable 2,6/50 : at sea level 250 V, at 70000 ft (21000 m) 85 V 5/50 : 335 V, 125 V .085" : 350 V, 85 V .141" : 500 V, 125 V
Dielectric withstanding voltage	3 - 17	Cable 2,6/50 : at sea level 750 V, at 70000 ft (21000m) 185 V 5/50 : 1000 V, 250 V .085" : 1000 V, 250 V .141" : 1500 V, 375 V
RF high potential withstanding voltage (Frequency 5 MHz)	3 - 23	Cable 2,6/50 : at sea level 500 V 5/50 : 670 V .085" : 670 V .141" : 1000 V
Peak power		20 kW (1 μs)
Average power		see opposite
MECHANICAL		
Life	3 - 15	500 matings
Force to engage and disengage	3 - 5 - 1	torque : 2 inch-pounds - 23 N.cm
Mating torque		7 to 10 inch-pounds - 80 to 115 N.cm
Coupling nut proof torque		15 inch-pounds - 170 N.cm
Coupling nut retention force	3 - 25	60 lbf - 267 N
Cable retention force	3 - 24	2,6/50 cable : 25 lbs - 110 N, 5/50 cable : 40 lbs-180 N .085" cable : 30 lbs - 133 N, .141" cable : 60 lbs-270 N
Contact captivation		axial force : 6 lbf - 27 N torque : 4 inch-ounces - 2,8 N. cm
ENVIRONMENTAL		
Operating temperature range		standard models : − 65°C + 165°C hermetic : − 65°C + 165°C except R 125 603 and R 125 753 : − 40°C + 100°C semi-rigid cables : − 65°C + 105°C
Temperature cycling		MIL-STD-202, method 102, condition C
Thermal shock	3 - 20	MIL-STD-202, method 107, condition B
High temperature test		MIL-STD-202, method 108
Corrosion (salt spray)	3 - 13	MIL-STD-202, method 101, condition B, 5%
Vibration	3 - 18	MIL-STD-202, method 204, condition D, 20 g
Shock	3 - 19	MIL-STD-202, method 213, condition I, 100 g
Moisture resistance	3 - 21	MIL-STD-202, method 106
Barometric pressure	3 - 22	MIL-STD-202, method 105, condition C
Hermetic test		down to 10^{-6} mm Hg (Torr) leak rate $<10^{-8}$ atm/cm^3/sec.

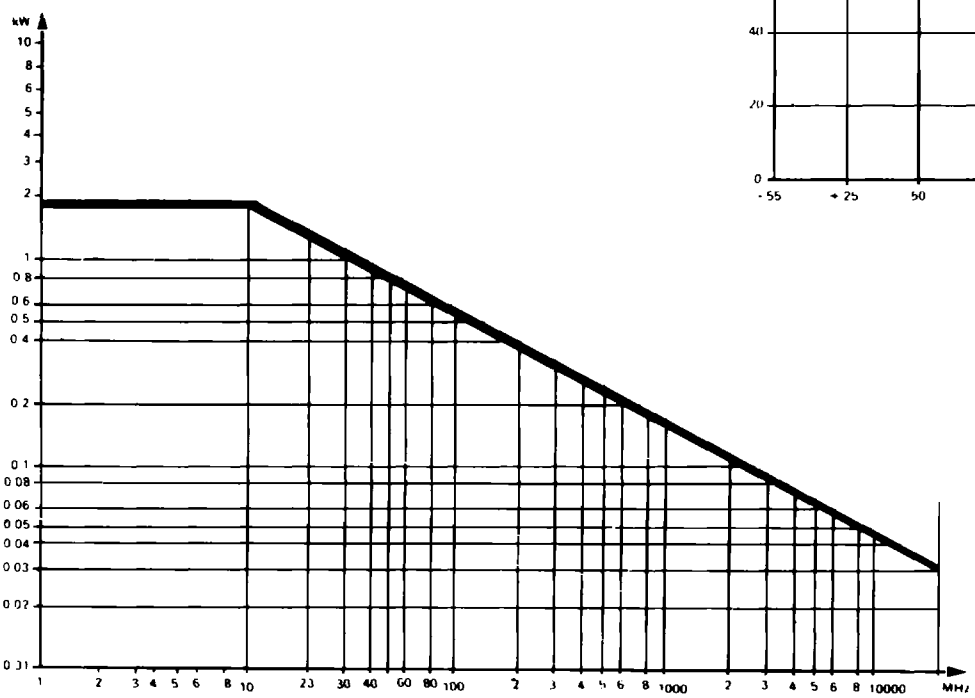
Items in this catalog covered by French and Foreign Patents and/or Patents Pending

MATERIALS	
Bodies	Beryllium copper or stainless steel
Female contacts	Beryllium copper
Male contacts	Brass
Insulators	PTFE teflon
Gaskets	Silicone rubber

PLATING	
Bodies	Gold plated or passivated
Center contacts	Gold plated

COEFFICIENT OF CORRECTION

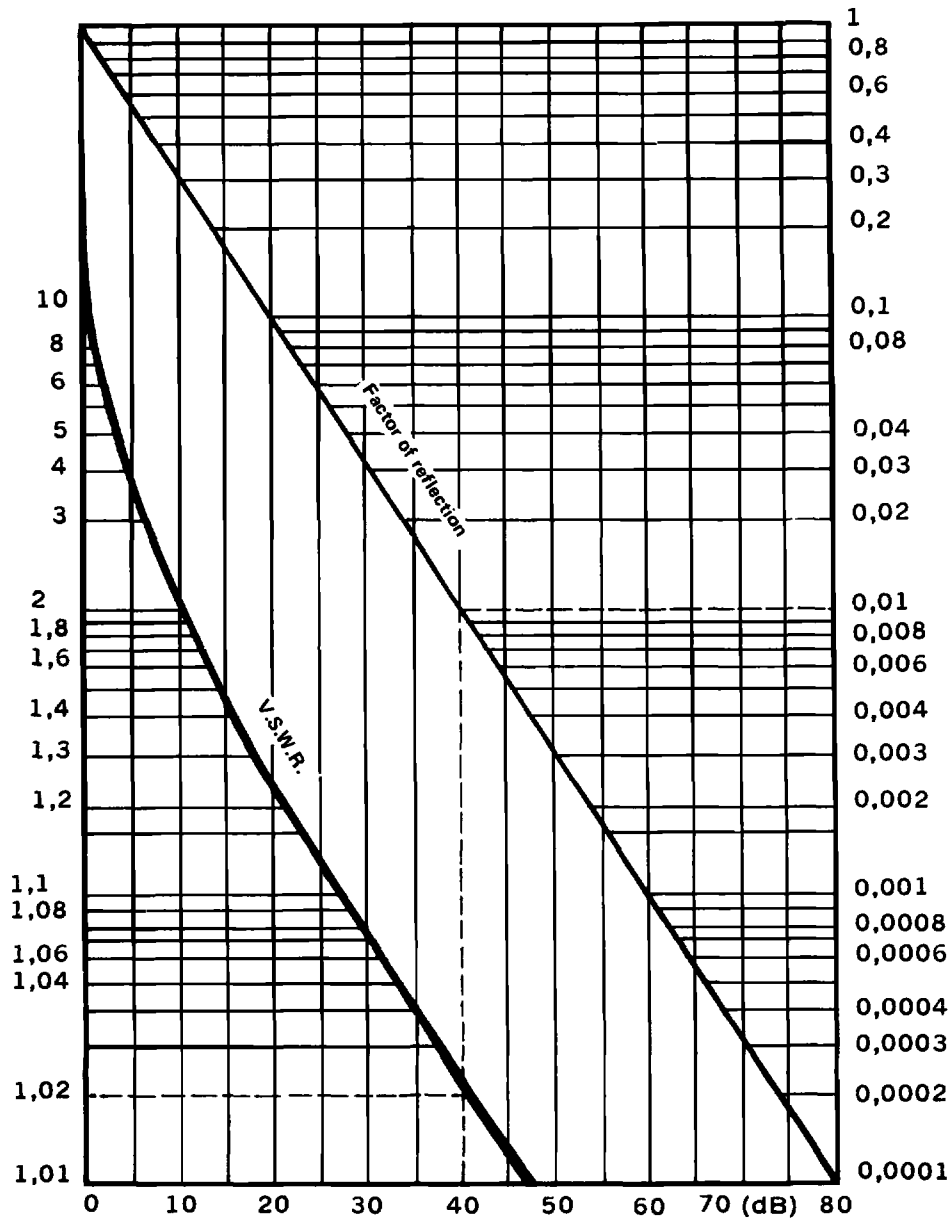




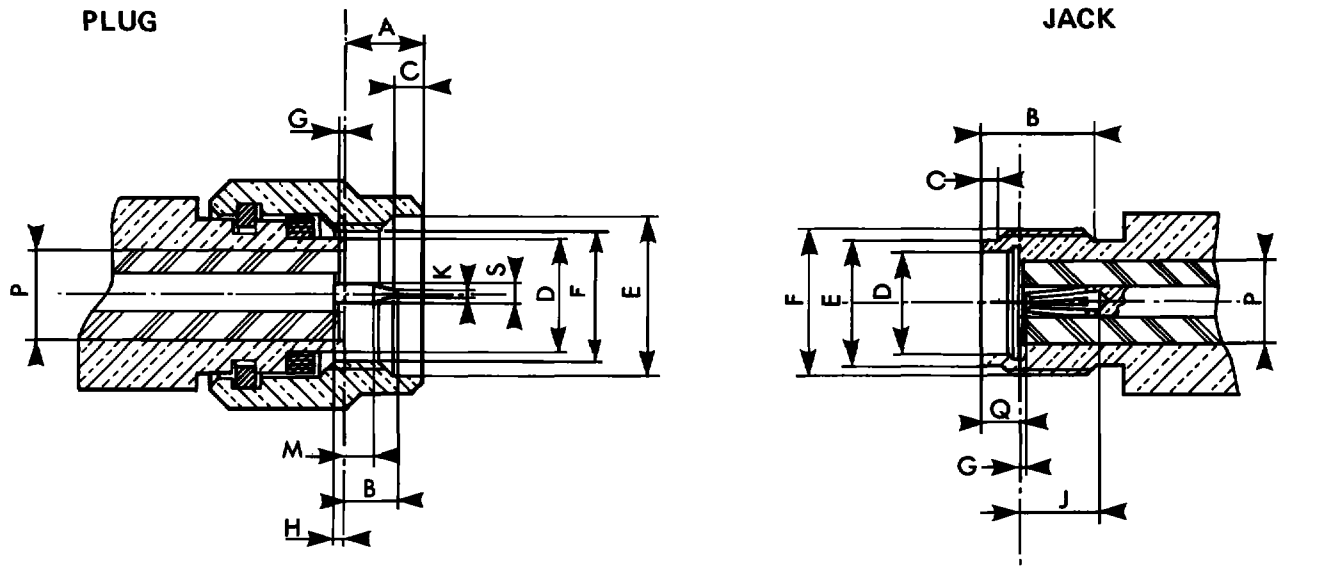
AVERAGE POWER HANDLING (VSWR in line : 1)

CHARACTERISTICS

V.S.W.R. AND FACTOR OF REFLECTION CURVES



ATTENUATION OF REFLECTED SIGNAL IN dB



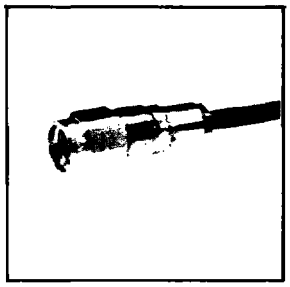
Letter	PLUG				JACK			
	mm		Inch		mm		Inch	
	min.	max.	min.	max.	min.	max.	min.	max.
A		3,43		.135				
B		2,54		.100	4,31		.170	
C	0,38	1,14	.015	.045	0,38	1,14	.015	.045
ØD		4,59		.1808	4,596		.1810	
ØE	6,35		.250		5,28	5,49	.208	.216
F	N° 10 36 UNS 2 B				N° 10 36 UNS 2 A			
G		0,05		.002	0,00	0,76	0,00	.030

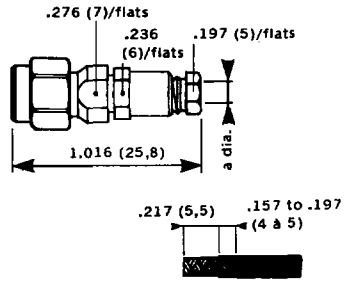
Letter	PLUG				JACK			
	mm		Inch		mm		Inch	
	min.	max.	min.	max.	min.	max.	min.	max.
H	0,00	0,25	0,00	.010				
J					2,92		.115	
ØK		0;38		.015				
M	1,27		.050					
Q					1,88	1,98	.074	.078
ØS	0,90	0,94	.035	.037				
P	4,10 nom.		. 161 nom.		4,10 nom.		.161 nom.	

SMA

FOR FLEXIBLE CABLE,CABLE CLAMP TYPE

STRAIGHT PLUG CAPTIVE CONTACT



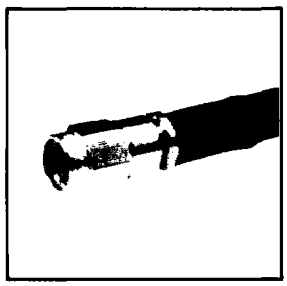


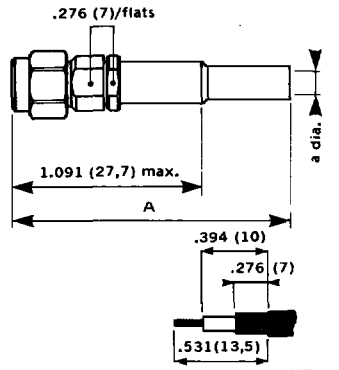
CABLE RG	174 A/U - 188 A/U
PART NUMBER	**R 125 091**
MIL no.	55-4107
a dia.	.118 (3)
Assembly	M 05

(For passivated stainless steel version, add suffix 001)

FOR FLEXIBLE CABLE, CRIMP OR SOLDER TYPE

STRAIGHT PLUG CAPTIVE CONTACT

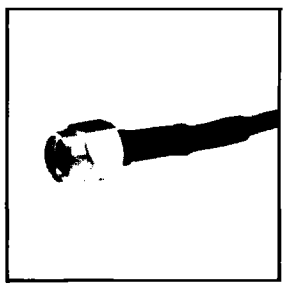


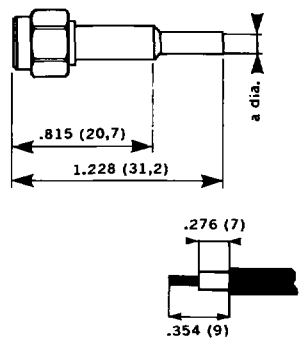


CABLE RG	174 A/U 188 A/U	180 B/U 195 A/U	58 C/U 141 A/U 303/U	142 B/U 223/U 400/U
PART NUMBER	**R 125 073**	**R 125 074**	**R 125 077**	**R 125 078**
MIL no.	55-3119		55-3121	55-3122
a dia.	.128 (3,25)	.181 (4,6)	.217 (5,5)	.217 (5,5)
Dim. A	1.457 (37)	1.594 (40,5)	1.594 (40,5)	1.594 (40,5)
Assembly	M 03	M 03	M 03	M 03

(For passivated stainless steel version, add suffix 001, crimp only)

STRAIGHT PLUG NON CAPTIVE CONTACT

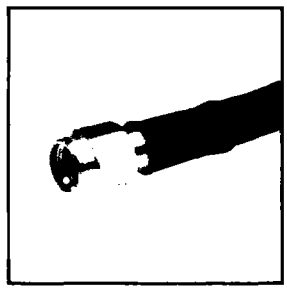


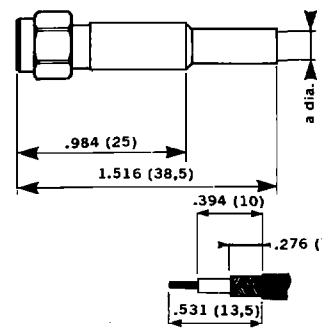


CABLE RG	174 A/U - 188 A/U	RD 316
PART NUMBER	**R 125 072 ***	**R 125 072 008**
MIL no.	55-3112	
a dia.	.128 (3.25)	.138 (3.5)
Assembly	M 01	M 01

** (For passivated stainless steel version, add suffix 001, crimp only)*

STRAIGHT PLUG NON CAPTIVE CONTACT





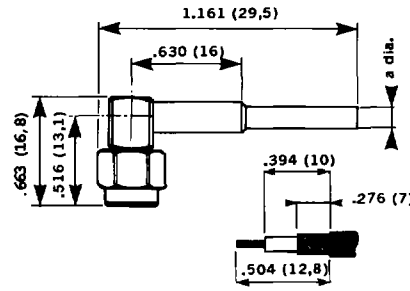
CABLE RG	58 C/U 141 A/U 303 /U	142 B/U 223 /U 400 /U
PART NUMBER	**R 125 075**	**R 125 076**
MIL no.	55-3114	55-3115
a dia.	.217 (5,5)	.217 (5,5)
Assembly	M 01	M 01

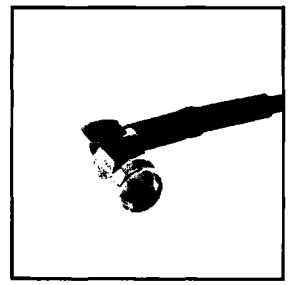
(For passivated stainless steel version, add suffix 001, crimp only)

RIGHT ANGLE PLUG

CABLE RG	174 A/U - 188 A/U
PART NUMBER	**R 125 172**
MIL no.	56-3119
a dia.	.128 (3,25)
Assembly	M 04

(For passivated stainless steel version, add suffix 001, crimp only)

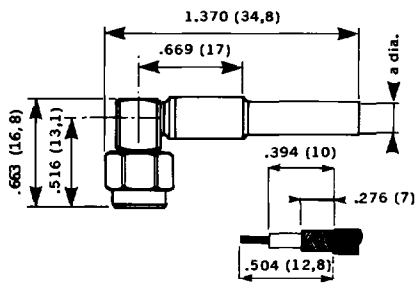


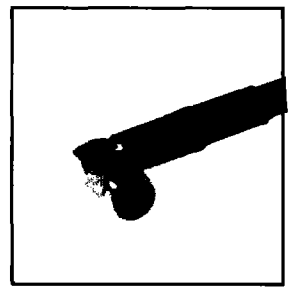


RIGHT ANGLE PLUG

CABLE RG	58 C/U 141 A/U 303/U	142 B/U 223/U 400/U
PART NUMBER	**R 125 175**	**R 125 176**
MIL no.	56-3121	56-3122
a dia.	.217 (5,5)	.217 (5,5)
Assembly	M 04	M 04

(For passivated stainless steel version, add suffix 001, crimp only)





The references quoted as MIL or BS numbers are the style numbers covered by a specification sheet within the generic spec.

e.g. **R 125 172**
MIL - C - 39012
M 39012/56 - 4119

R 125 176
BS 9210
F 0017/08.02 AK

EVOLUTION OF THE SMA SERIES

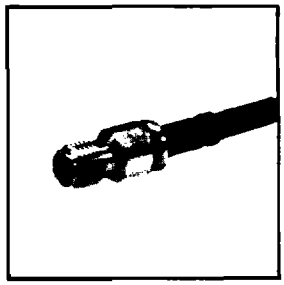
Regular efforts from our R and D department to improve our products today enable us to mount operating frequency of the 18 GHz SMA connectors up to 26 GHz.

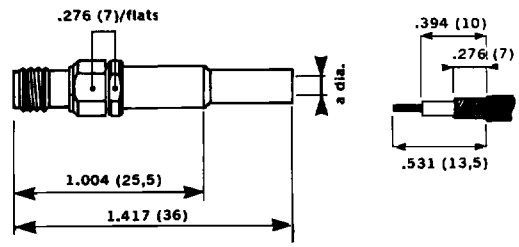
SMA

FOR FLEXIBLE CABLE, CRIMP TYPE

STRAIGHT JACK

CAPTIVE CONTACT





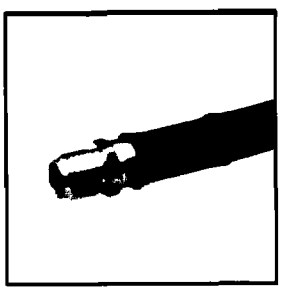
CABLE RG	174 A/U - 188 A/U
PART NUMBER	**R 125 236**
MIL no.	57 - 4019
a dia.	.128 (3,25)
Assembly	M 03

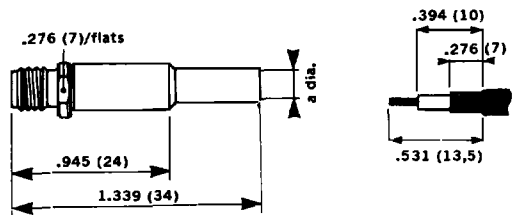
(For passivated stainless steel version, add suffix 001, crimp only)

FOR FLEXIBLE CABLE, CRIMP OR SOLDER TYPE

STRAIGHT JACK

NON CAPTIVE CONTACT



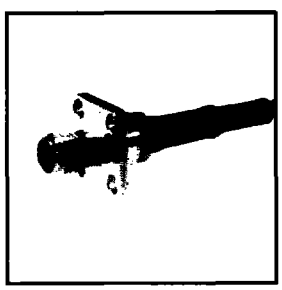


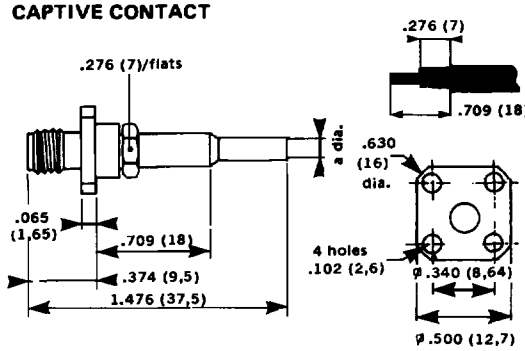
CABLE RG	58 C/U 141 A/U 303 /U	142 B/U 223 /U 400 /U
PART NUMBER	**R 125 237**	**R 125 238**
MIL no.	57-4014	57-4015
a dia	,217 (5,5)	.217 (5,5)
Assembly	M 01	M 01

(For passivated stainless steel version, add suffix 001, crimp only)

SQUARE FLANGE JACK

CAPTIVE CONTACT



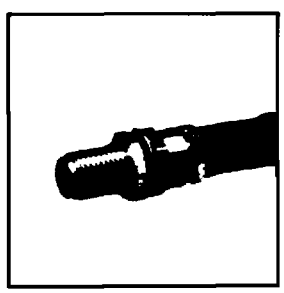


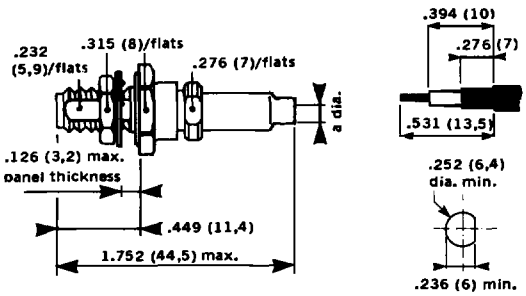
CABLE RG	174 A/U - 188 A/U
PART NUMBER	**R 125 272**
MIL no.	58 - 4012
a dia.	.128 (3,25)
Assembly	M 02

(For passivated stainless steel version, add suffix 001, crimp only)

BULKHEAD JACK

CAPTIVE CONTACT





CABLE RG	174 A/U - 188 A/U	142 B/U 223/U 400/U
PART NUMBER	**R 125 303**	**R 125 308**
a dia.	.128 (3,25)	.217 (5,5)
Assembly	M 03	M 03

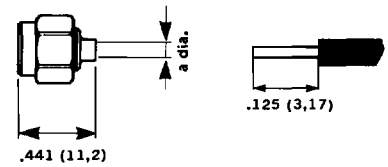
(For passivated stainless steel version, add suffix 001, crimp only)

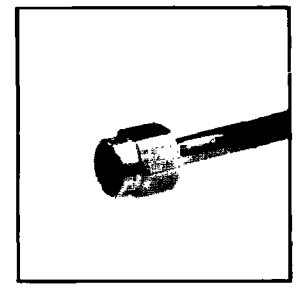
FOR SEMI RIGID CABLE, DIRECT SOLDER TYPE

STRAIGHT PLUG
(WITH CENTER CONTACT)

CABLE Ø	.085"	141"
PART NUMBER	R 125 052	R 125 055
MIL no.	79-3101	79-3102
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 09	M 09

(For passivated stainless steel version with gold plated part to be soldered for cable attachment, add suffix 002)

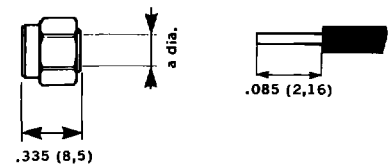


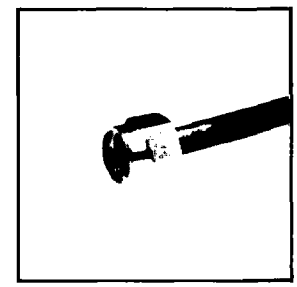


STRAIGHT PLUG
(WITHOUT CENTER CONTACT)

CABLE Ø	.141"
PART NUMBER	R 125 054
MIL no.	92-3101
a dia.	.144 (3,65)
Assembly	M 08

(For passivated stainless steel version with gold plated part to be soldered for cable attachment, add suffix 002)

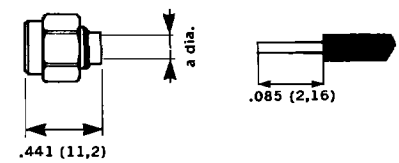


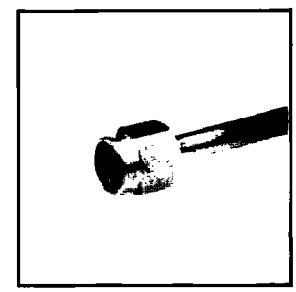


STRAIGHT PLUG
(WITHOUT CENTER CONTACT)

CABLE Ø	.141"
PART NUMBER	R 125 057
MIL no.	92-4101
a dia.	.144 (3,65)
Assembly	M 08

(For passivated stainless steel version with gold plated part to be soldered for cable attachment, add suffix 002)



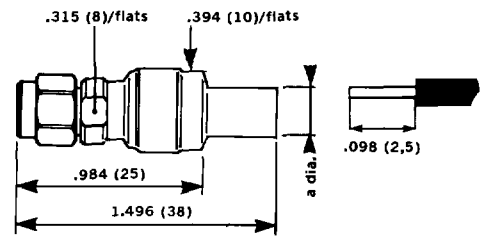


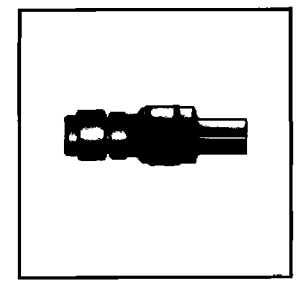
FOR SEMI-RIGID CABLE, COMPRESSION TYPE

STRAIGHT PLUG

CABLE Ø	.250"
PART NUMBER	R 125 056
a dia.	.260 (6,6)
Assembly	M 12

For passivated stainless steel version, add suffix 001.



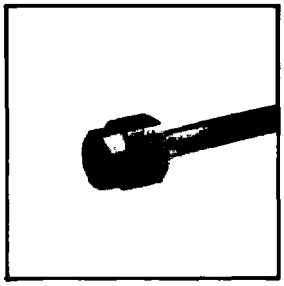


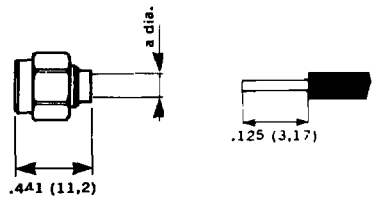
SMA

FOR SEMI RIGID CABLE, DIRECT SOLDER TYPE

STRAIGHT PLUG WITH RETRACTABLE COUPLING NUT

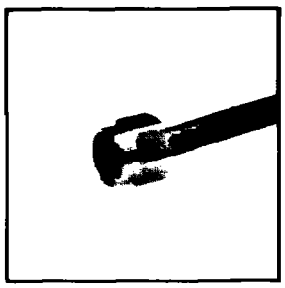
(WITH CENTER CONTACT)

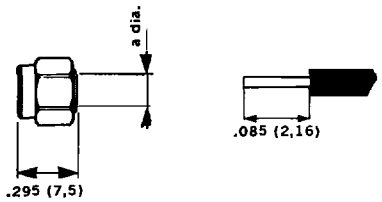




CABLE Ø	.085"	.141"
PART NUMBER	R 125 052 500	R 125 055 500
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 09	M 09

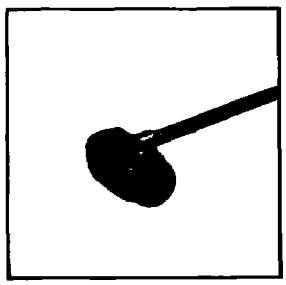
STRAIGHT PLUG WITH RETRACTABLE COUPLING NUT

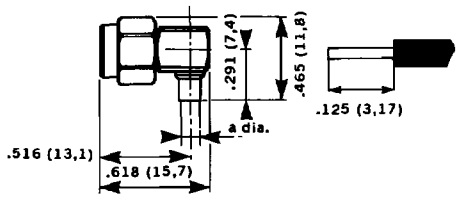




CABLE Ø	.141"
PART NUMBER	R 125 054 500
a dia.	.144 (3,65)
Assembly	M 07

RIGHT ANGLE PLUG



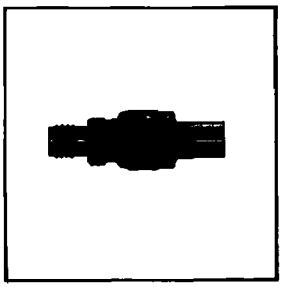


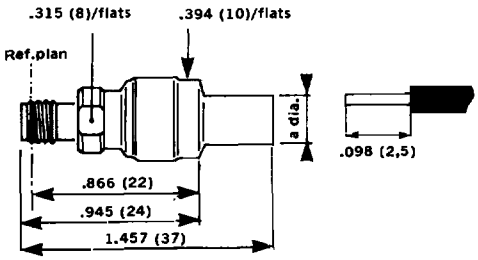
CABLE Ø	.085"	.141"
PART NUMBER	R 125 153	R 125 154
MIL no.	80-3107	80-3108
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 10	M 10

(For passivated stainless steel version with gold plated part to be soldered for cable attachment, add suffix 002)

FOR SEMI-RIGID CABLE, COMPRESSION TYPE

STRAIGHT JACK



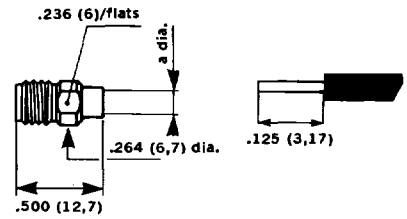


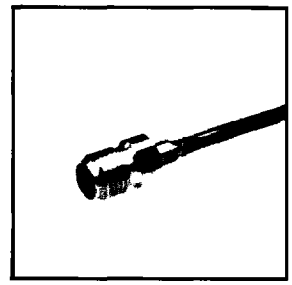
CABLE Ø	.250"
PART NUMBER	R 125 226
a dia.	.254 (6,45)
Assembly	M 12

STRAIGHT JACK

CABLE Ø	.085"	.141"
PART NUMBER	**R 125 222**	**R 125 225**
MIL no.	81-3005	81-3006
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 11	M 11

(For passivated stainless steel version, add suffix 001)

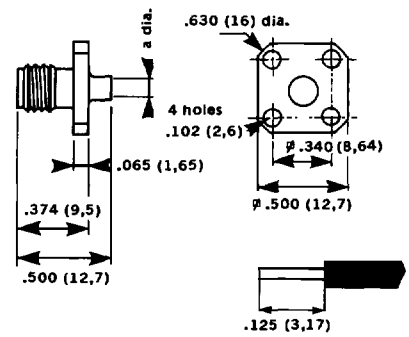


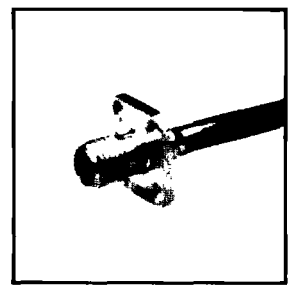


SQUARE FLANGE JACK

CABLE Ø	085"	.141"
PART NUMBER	**R 125 256**	**R 125 255**
MIL no.	82-3005	82-3006
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 11	M 11

(For passivated stainless steel version, add suffix 001)

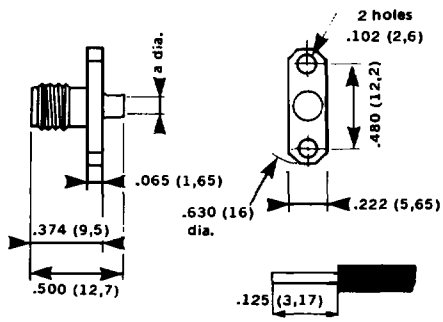


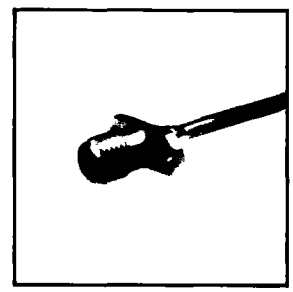


NARROW FLANGE JACK

CABLE Ø	.085"	.141"
PART NUMBER	**R 125 252**	**R 125 251**
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 11	M 11

(For passivated stainless steel version, add suffix 001)

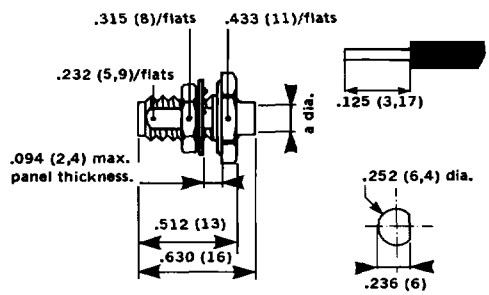


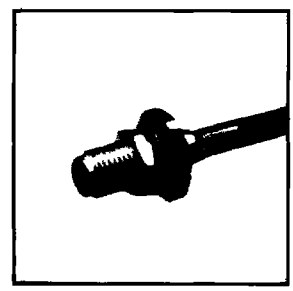


BULKHEAD JACK
(PANEL SEAL)

CABLE Ø	.085"	.141"
PART NUMBER	**R 125 326**	**R 125 325**
a dia.	.089 (2,25)	.144 (3,65)
Assembly	M 11	M 11

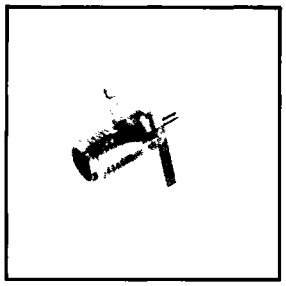
(For passivated stainless steel version, add suffix 001)

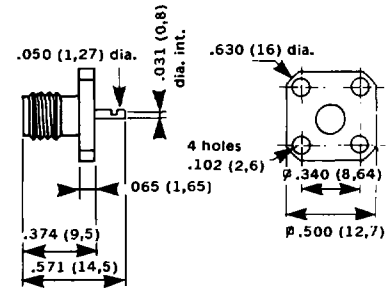




RECEPTACLES WITH SOLDER POT CONTACT

SQUARE FLANGE RECEPTACLE

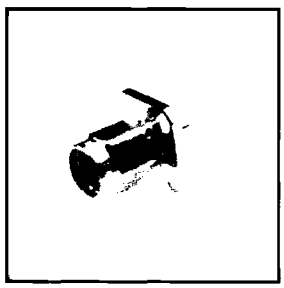


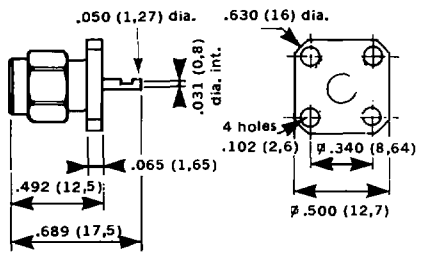


PART NUMBER	R 125 403
Captive contact	YES
MIL no.	60 - 4001

(For passivated stainless steel version, add suffix 001)

SQUARE FLANGE MALE RECEPTACLE

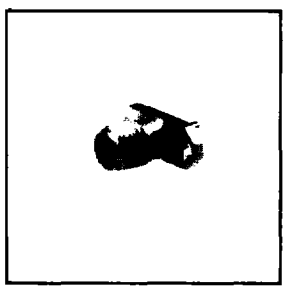


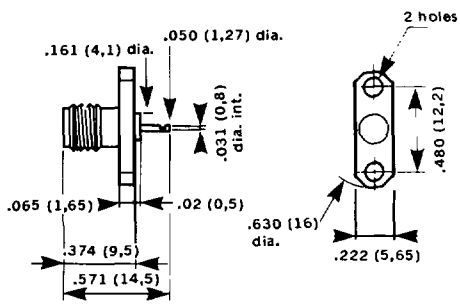


PART NUMBER	R 125 433
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE

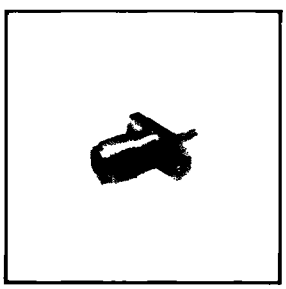


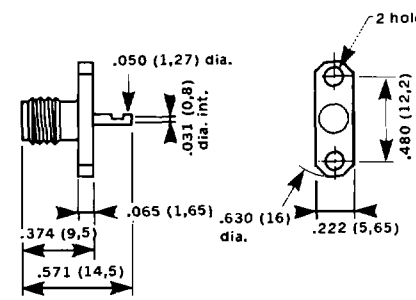


PART NUMBER	R 125 453
Captive contact	YES
MIL no.	60 - 4002

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE





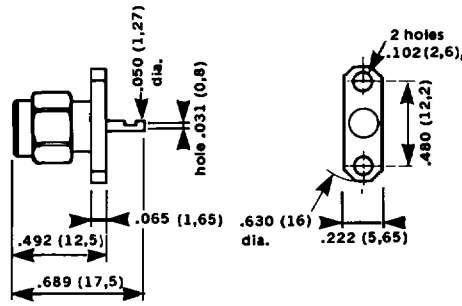
PART NUMBER	R 125 454
Captive contact	YES
MIL no.	60 - 4002

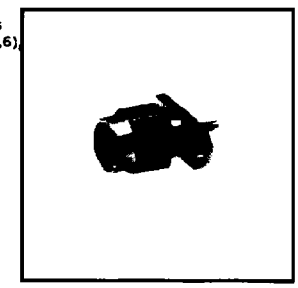
(For passivated stainless steel version, add suffix 001)

NARROW FLANGE MALE RECEPTACLE

PART NUMBER	R 125 483
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

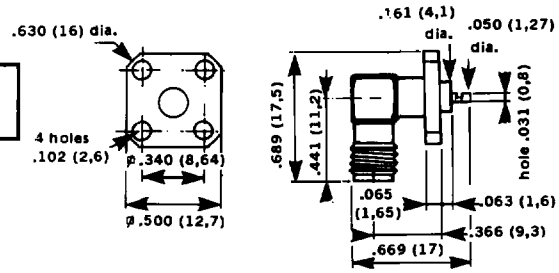


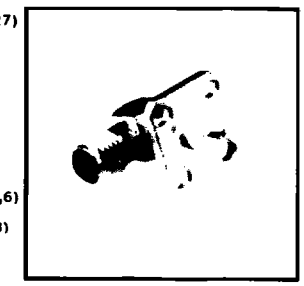


RIGHT ANGLE SQUARE FLANGE RECEPTACLE

PART NUMBER	R 125 653

(For passivated stainless steel version, add suffix 001)

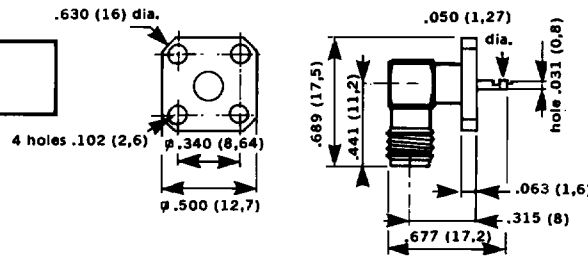


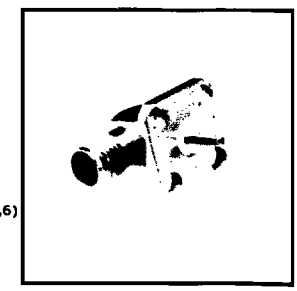


RIGHT ANGLE SQUARE FLANGE RECEPTACLE

PART NUMBER	R 125 654

(For passivated stainless steel version, add suffix 001)

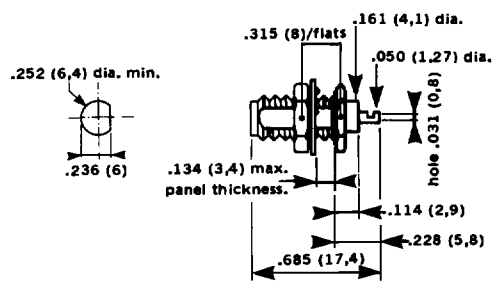


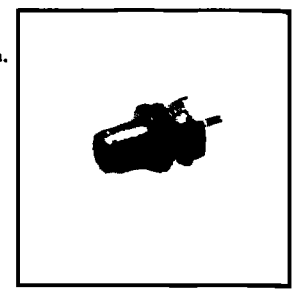


BULKHEAD RECEPTACLE

PART NUMBER	R 125 553
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

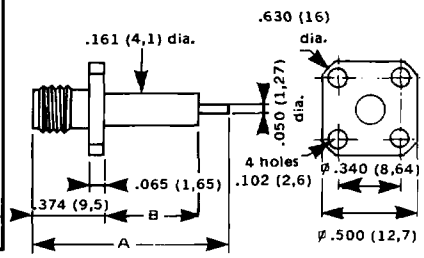




SMA

RECEPTACLES WITH EXTENDED DIELECTRIC-STUB CONTACT

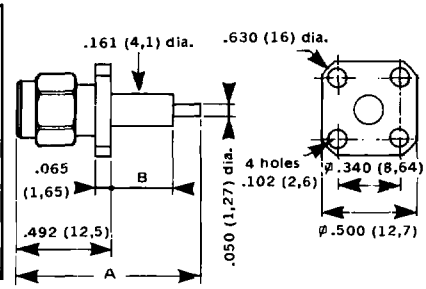
SQUARE FLANGE RECEPTACLE



PART NUMBER	R 125 413	R 125 414	R 125 415	R 125 415 270
Captive contact	NO	YES	YES	YES
Dim. A	1.000 (25,4)	1.000 (25,4)	1.181 (30)	1.079 (27,4)
Dim. B	.500 (12,7)	.500 (12,7)	.709 (18)	.591 (15)

(For passivated stainless steel version, add suffix 001, except R 125 415 270 which becomes R 125 415 271.

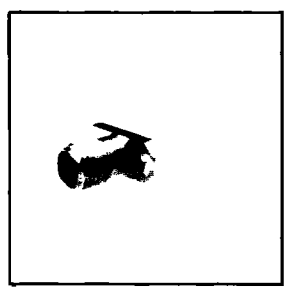
SQUARE FLANGE MALE RECEPTACLE

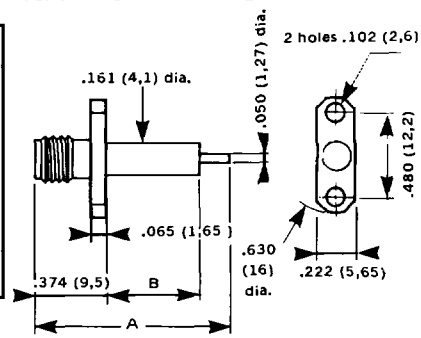


PART NUMBER	R 125 443	R 125 444	R 125 449
Captive contact	NO	YES	YES
Dim. A	.984 (25)	.984 (25)	1.752 (44,5)
Dim. B	.335 (8,5)	.335 (8,5)	1.122 (28,5)

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE

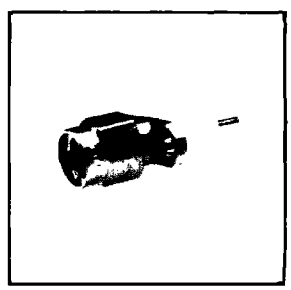


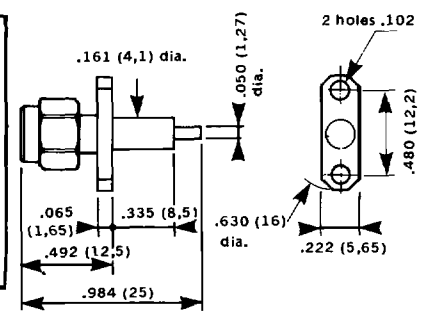


PART NUMBER	R 125 464	R 125 464 270
Captive contact	YES	YES
Dim. A	1.000 (25,4)	1.079 (27,4)
Dim. B	.500 (12,7)	.591 (15)

(Passivated stainless steel versions : R 125 464 001 and R 125 464 271)

NARROW FLANGE MALE RECEPTACLE



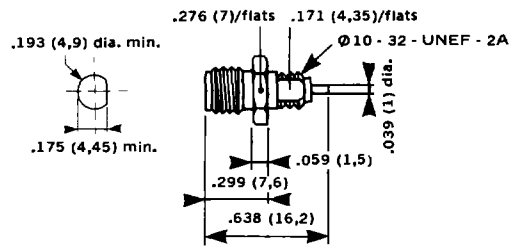


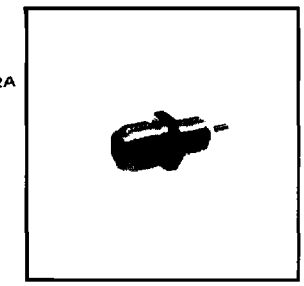
PART NUMBER	R 125 474
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

BULKHEAD RECEPTACLE - SCREW IN

PART NUMBER	R 125 555 500
Captive contact	YES

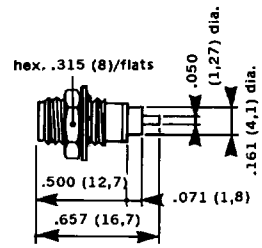


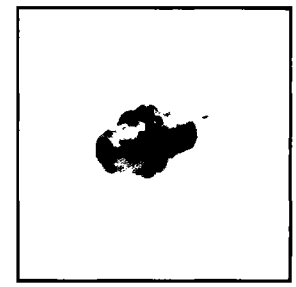


BULKHEAD RECEPTACLE - SCREW IN

PART NUMBER	R 125 560
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

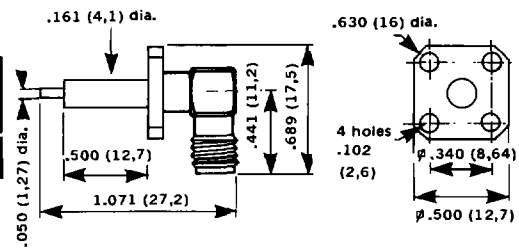


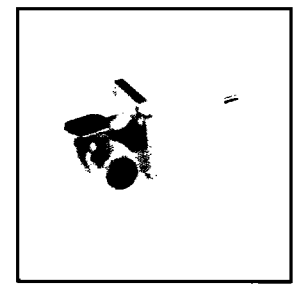


RIGHT ANGLE SQUARE FLANGE RECEPTACLE

PART NUMBER	R 125 654 450
Captive contact	YES

(Passivated stainless steel version : R 125 654 451)

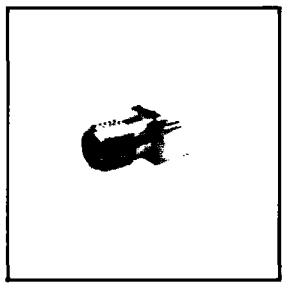


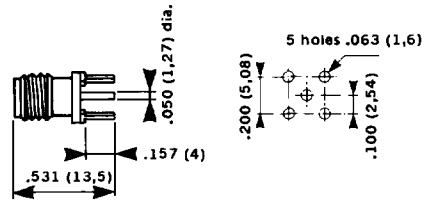


SMA

RECEPTACLES FOR PRINTED CIRCUIT BOARD MOUNTING

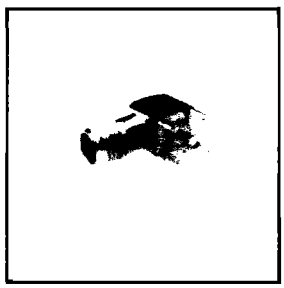
STRAIGHT PCB RECEPTACLE

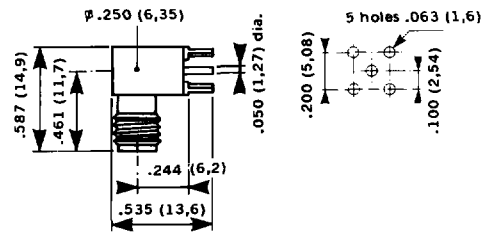




PART NUMBER	R 125 426
Captive contact	YES
MIL no.	93 - 4001

RIGHT ANGLE PCB RECEPTACLE



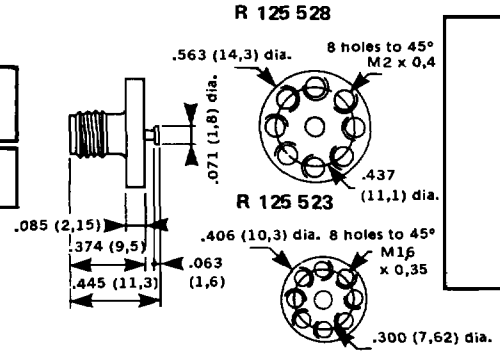


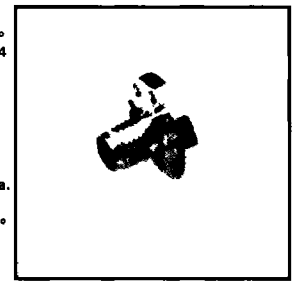
PART NUMBER	R 125 680
Captive contact	YES
MIL no.	94 - 4001

SURFACE MOUNT LAUNCHER

PART NUMBER	R 125 523	R 125 528
Captive contact	NO	NO

(For passivated stainless steel version, add suffix 001)
Frequency range DC - 4 GHz

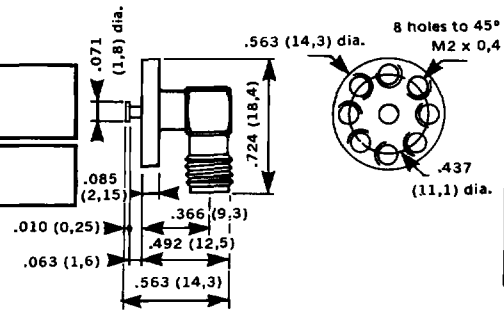


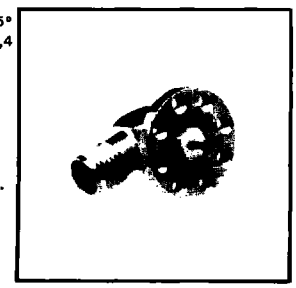


RIGHT ANGLE SURFACE MOUNT LAUNCHER

PART NUMBER	R 125 663
Captive contact	NO

(For passivated stainless steel version, add suffix 001)
Frequency range DC - 4 GHz

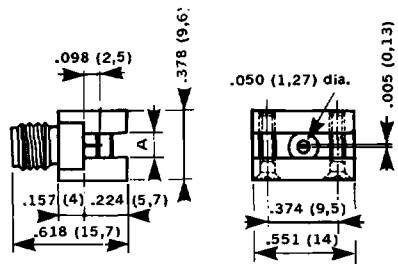


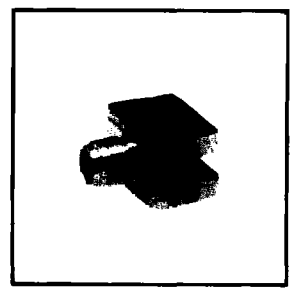


TRIPLATE LAUNCHER, END LAUNCH

PART NUMBER	R 125 539 *(1)*	R 125 541 *(2)*	R 125 542 *(3)*
Captive contact	YES	YES	YES
Dim. A	.062 (1,57)	.125 (3,17)	.250 (6,35)

(For passivated stainless steel version, add suffix 001)
Frequency range : (1) DC - 18 GHz (2) DC - 12.4 GHz (3) DC - 6 GHz

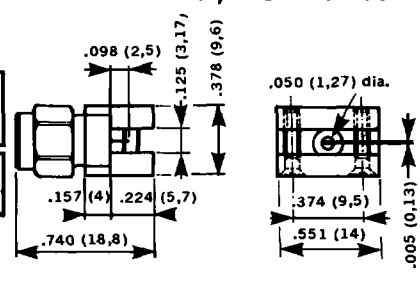


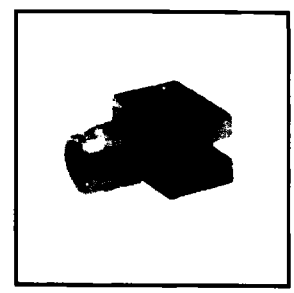


MALE TRIPLATE LAUNCHER,END LAUNCH

PART NUMBER	R 125 544
Captive contact	YES

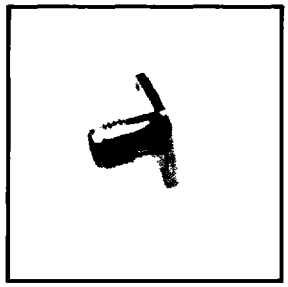
(For passivated stainless steel version, add suffix 001)
Frequency range DC - 12.4 GHz

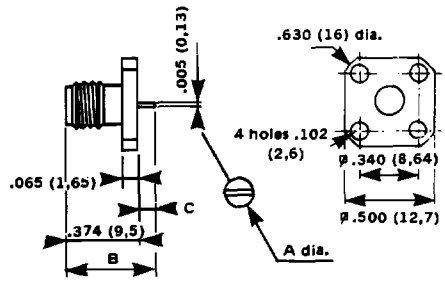




RECEPTACLES FOR STRIPLINE MIC PACKAGES

SQUARE FLANGE RECEPTACLE
TAB CONTACT - FLUSH DIELECTRIC

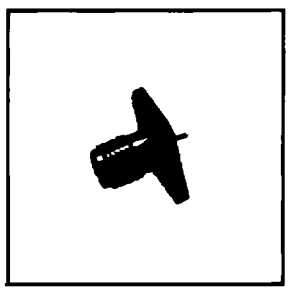


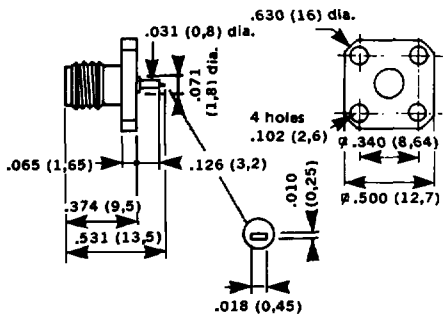


PART NUMBER	R 125 510	R 125 620
Captive contact	YES	YES
A dia.	.050 (1,27)	.024 (0,60)
Dim. B	.500 (12,7)	.409 (10,4)
Dim. C	.126 (3,2)	.035 (0,9)

(For passivated stainless steel version, add suffix 001)

SQUARE FLANGE RECEPTACLE
TAB CONTACT - EXTENDED DIELECTRIC

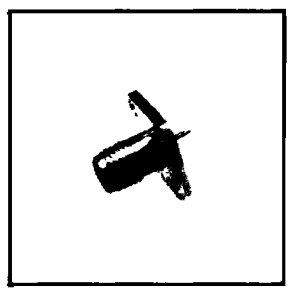


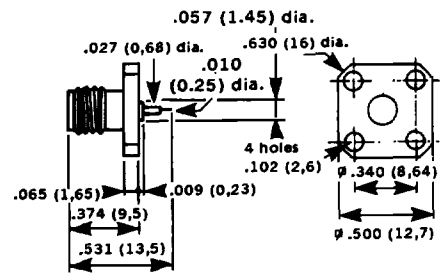


PART NUMBER	R 125 501
Captive contact	YES
Installation	M13

(For passivated stainless steel version, add suffix 001)

SQUARE FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC

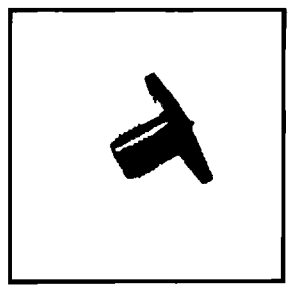


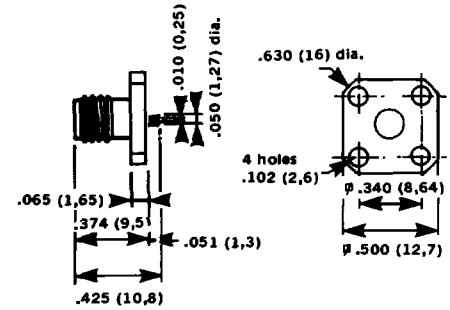


PART NUMBER	R 125 611 001
Captive contact	YES
Installation	M 14

(In passivated stainless steel)

SQUARE FLANGE RECEPTACLE
SLOTTED CONTACT





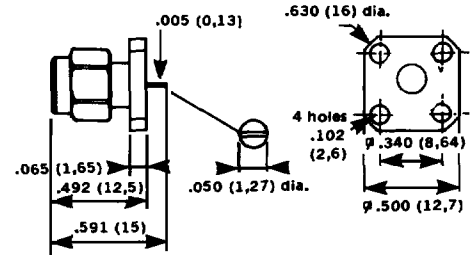
PART NUMBER	R 125 614 011
Captive contact	YES

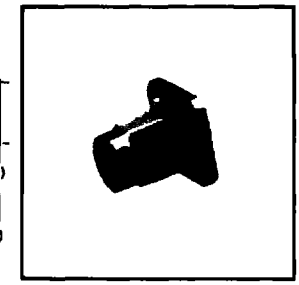
(In passivated stainless steel)

MALE SQUARE FLANGE RECEPTACLE
TAB CONTACT - FLUSH DIELECTRIC

PART NUMBER	R 125 488
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

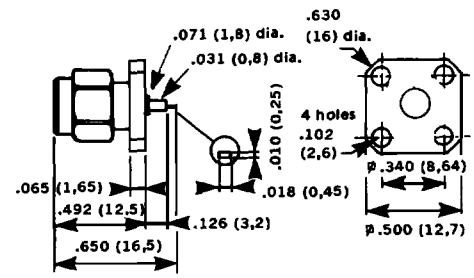


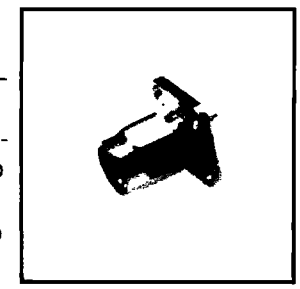


MALE SQUARE FLANGE RECEPTACLE
TAB CONTACT - EXTENDED DIELECTRIC

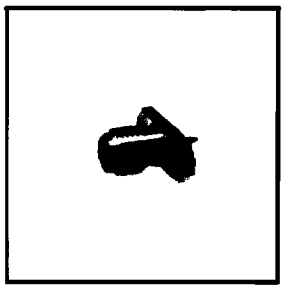
PART NUMBER	R 125 500
Captive contact	YES
Installation	M 13

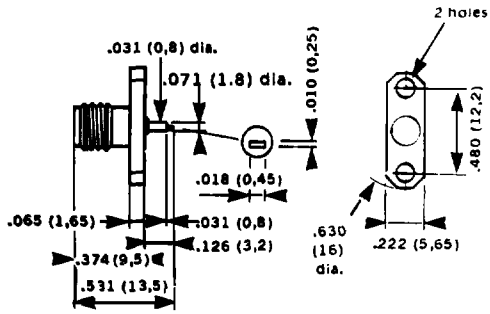
(For passivated stainless steel version, add suffix 001)





NARROW FLANGE RECEPTACLE
TAB CONTACT - EXTENDED DIELECTRIC

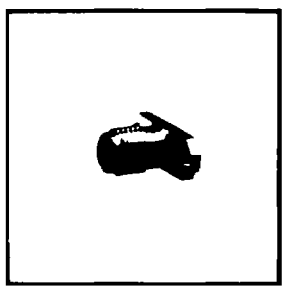


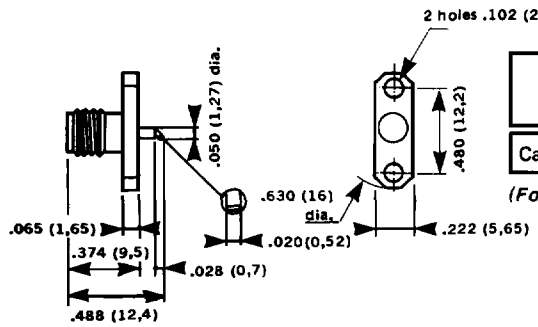


PART NUMBER	R 125 451
Captive contact	YES
Installation	M 13

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE
SOLDERLESS COMPRESSION CONTACT - FLUSH DIELECTRIC

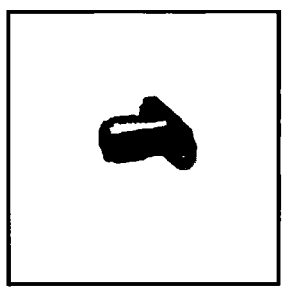


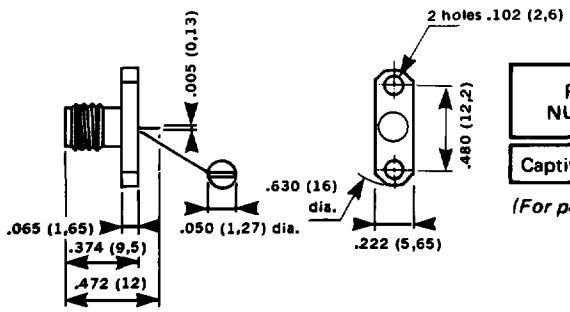


PART NUMBER	R 125 452
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE
TAB CONTACT - FLUSH DIELECTRIC

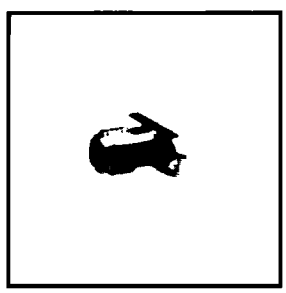


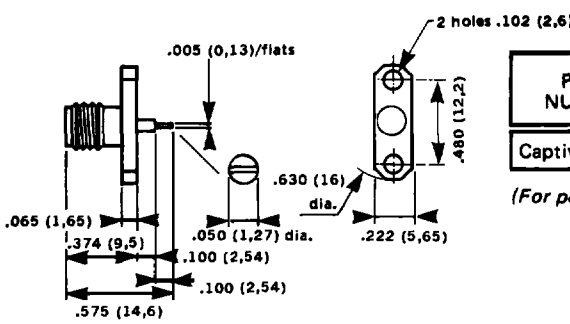


PART NUMBER	R 125 497
Captive contact	YES

(For passivated stainless steel version, add suffix 001)

NARROW FLANGE RECEPTACLE
TAB CONTACT - FLUSH DIELECTRIC





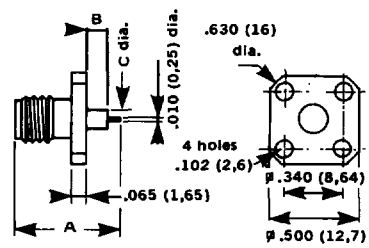
PART NUMBER	R 125 503
Captive contact	NO

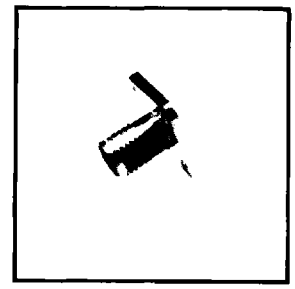
(For passivated stainless steel version, add suffix 001)

SQUARE FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC

PART NUMBER	R 125 512	R 125 513	R 125 612
Captive contact	YES	YES	YES
Dim. A	.563 (14,3)	.500 (12,7)	.563 (14,3)
Dim. B	.126 (3,2)	.063 (1,6)	.126 (3,2)
C dia.	.085 (2,16)	.085 (2,16)	.161 (4,1)
Installation	M 14	M 15	M 17

(For passivated stainless steel version, add suffix 001)

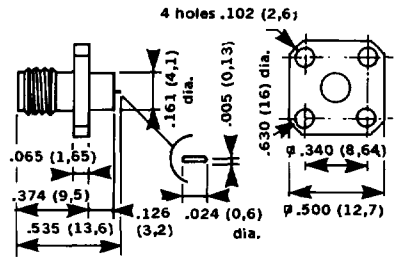


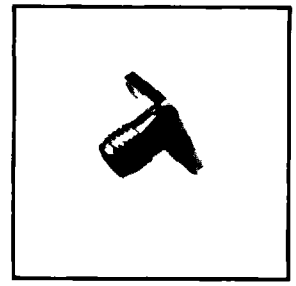


SQUARE FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC

PART NUMBER	R 125 622
Captive contact	YES
Installation	M 18

(For passivated stainless steel version, add suffix 001)

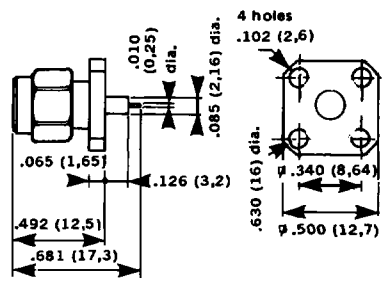


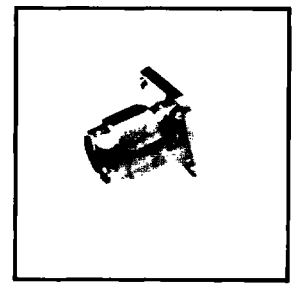


MALE SQUARE FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC

PART NUMBER	R 125 492
Captive contact	YES
Installation	M 14

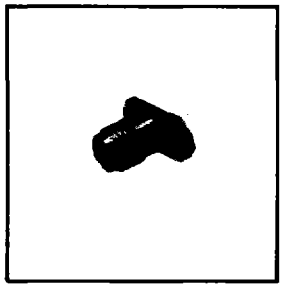
(For passivated stainless steel version, add suffix 001)

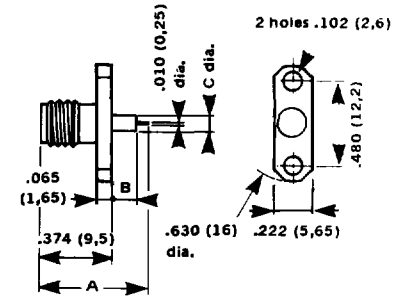




RECEPTACLES FOR STRIPLINE MIC PACKAGES

NARROW FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC

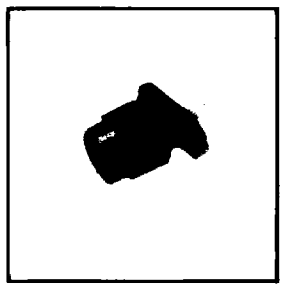


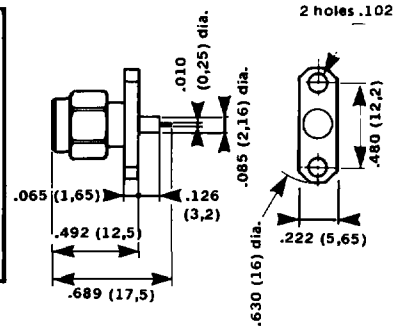


PART NUMBER	R 125 462	R 125 463	R 125 617
Captive contact	YES	YES	YES
Dim. A	.559 (14,2)	.500 (12,7)	.563 (14,3)
Dim. B	.126 (3,2)	.063 (1,6)	.126 (3,2)
C dia.	.085 (2,16)	.085 (2,16)	.161 (4,1)
Installation	M 14	M 15	M 17

(For passivated stainless steel version, add suffix 001)

MALE NARROW FLANGE RECEPTACLE
STUB CONTACT - EXTENDED DIELECTRIC





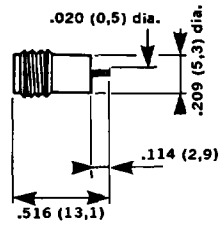
PART NUMBER	R 125 484
Captive contact	YES
Installation	M 14

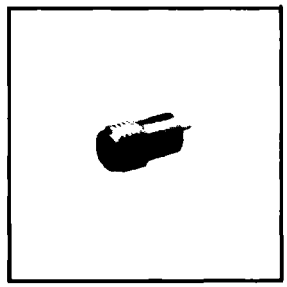
(For passivated stainless steel version, add suffix 001)

HERMETICALLY SEALED RECEPTACLES FOR STRIPLINE MIC PACKAGES

SOLDER MOUNT RECEPTACLE - STUB CONTACT

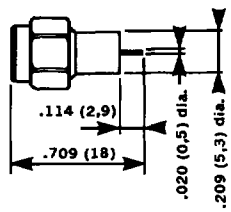
PART NUMBER	R 125 630
Captive contact	YES
Installation	M 16

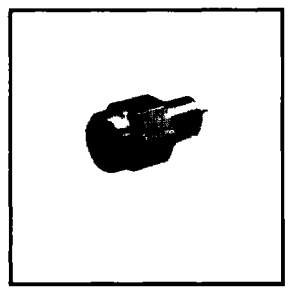




MALE SOLDER MOUNT RECEPTACLE - STUB CONTACT

PART NUMBER	R 125 633
Captive contact	YES
Installation	M 16

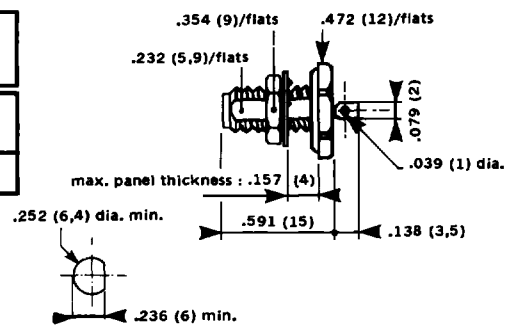


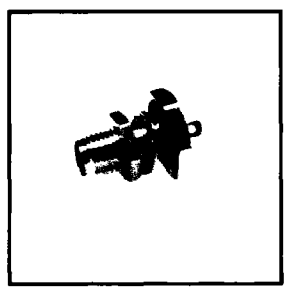


HERMETICALLY SEALED RECEPTACLE-SOLDER CONTACT

BULKHEAD RECEPTACLE

PART NUMBER	R 125 603
Captive contact	YES
MIL no.	62-4001

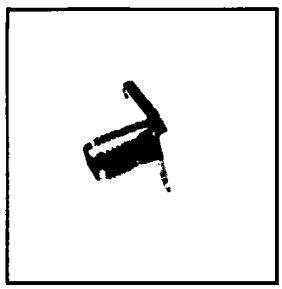




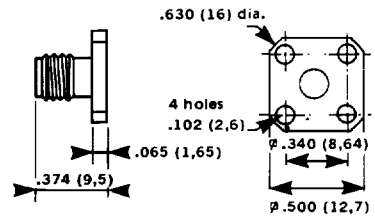
SMA

UNIVERSAL RECEPTACLES FOR STRIPLINE MIC PACKAGES

These receptacles are supplied with center contact and insulator. They have been developed especially for the coaxial outputs of MIC boxes. They can be used with several types of contacts and insulator beads fitted into the flange face. This design allows flexibility in both laboratory and manufacturing applications. Accepts a .036 inch diameter center pin.

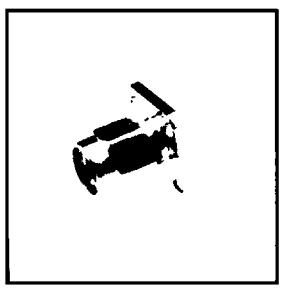


FEMALE SQUARE FLANGE RECEPTACLE

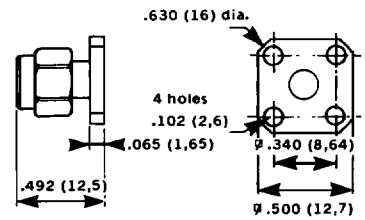


PART NUMBER	R 125 410 001

(In passivated stainless steel)

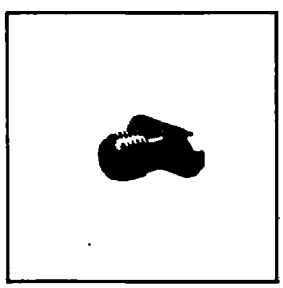


MALE SQUARE FLANGE RECEPTACLE

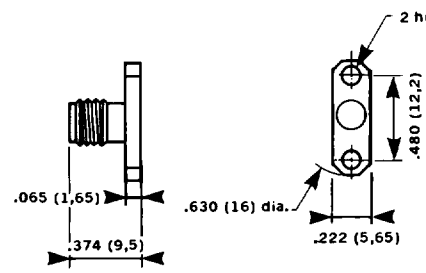


PART NUMBER	R 125 430 001

(In passivated stainless steel)

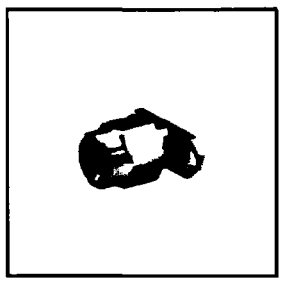


FEMALE NARROW FLANGE RECEPTACLE

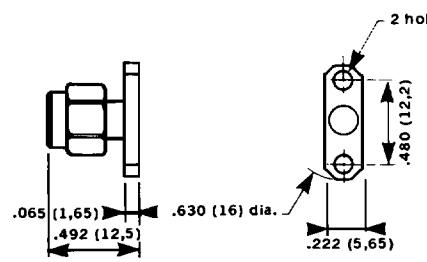


PART NUMBER	R 125 460 001

(In passivated stainless steel)



MALE NARROW FLANGE RECEPTACLE



PART NUMBER	R 125 480 001

(In passivated stainless steel)

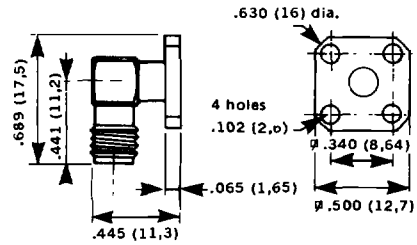
UNIVERSAL RECEPTACLES FOR STRIPLINE MIC PACKAGES

RIGHT ANGLE SQUARE FLANGE RECEPTACLE

PART NUMBER	R 125 670 001

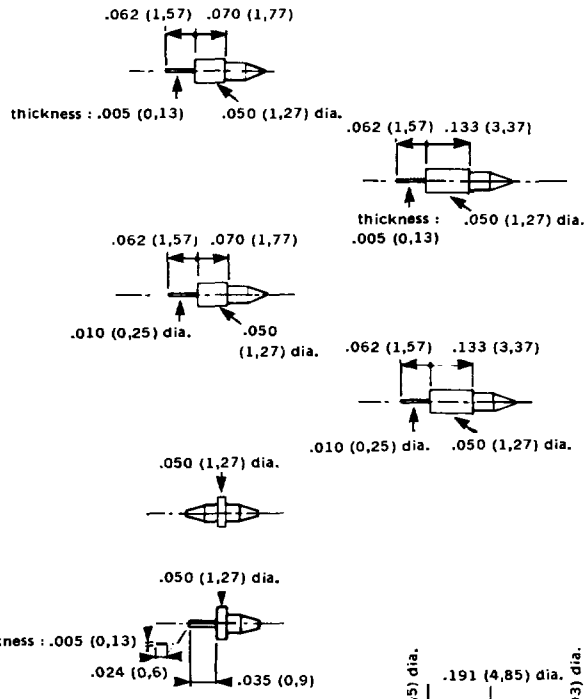
(In passivated stainless steel)

Note: Accepts a .036 inch diameter center pin

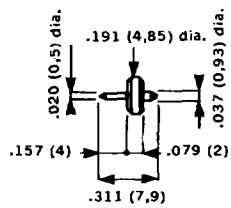


INTERCHANGEABLE CONTACTS AND INSULATOR BEADS

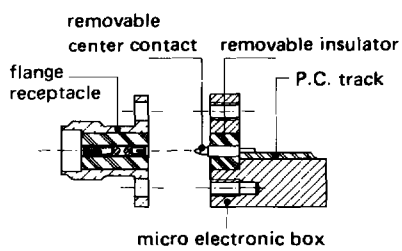
These accessories are introduced at the rear of the receptacles, dimensions are dependent of the circuits or the thickness of the boxes.
(Note: When ordering, please note that contacts are packaged 10 to a bag.

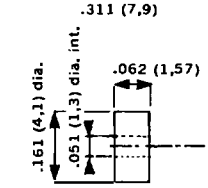


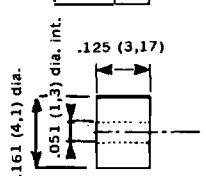
PART NUMBER	DESCRIPTION	box thickness in (mm)
R 280 460	removable contact termination post thickness 0.13 on flats packed by 10 pieces.	1,57
R 280 461	removable contact termination post thickness 0.13 on flats packed by 10 pieces.	3,17
R 280 462	removable contact termination post 0.25 diameter packed by 10 pieces.	1,57
R 280 463	removable contact termination post 0.25 diameter packed by 10 pieces.	3,17
R 280 464	removable contact termination post 1.27 diameter packed by 10 pieces.	
R 280 465	removable contact termination post thickness 0.13 on flats by 0.6 width packed by 10 pieces.	
R 280 940	removable contact with insulator glass bead	stripline installation M 21



MOUNTING EXAMPLE





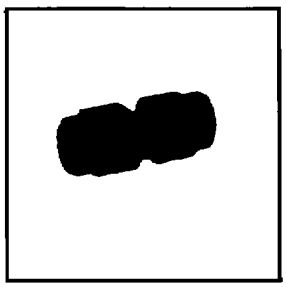


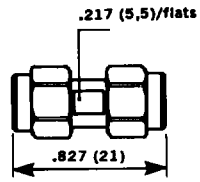
R 280 467	removable insulator 4.1 dia. x 1.57 long. packed by 10 pieces.	1,57
R 280 468	removable insulator 4.1 dia. x 3.17 long. packed by 10 pieces.	3,17

SMA

IN SERIES ADAPTORS

MALE - MALE

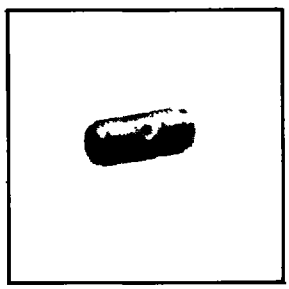


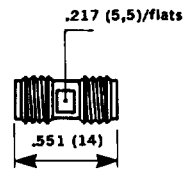


PART NUMBER	R 125 703
MIL no.	M 55339 / 29-30101

(For passivated stainless steel version, add suffix 001)

FEMALE - FEMALE

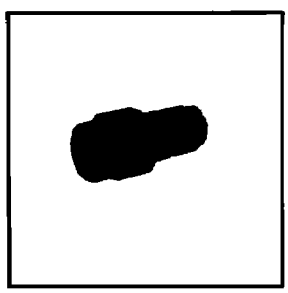


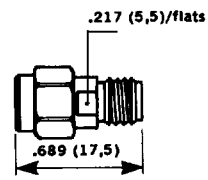


PART NUMBER	R 125 705
MIL no.	M 55339 / 31-30001

(For passivated stainless steel version, add suffix 001)

MALE - FEMALE
(connector saver)

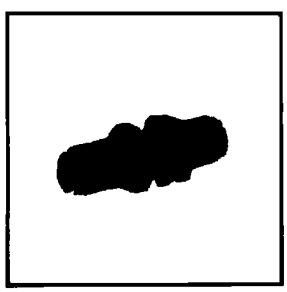


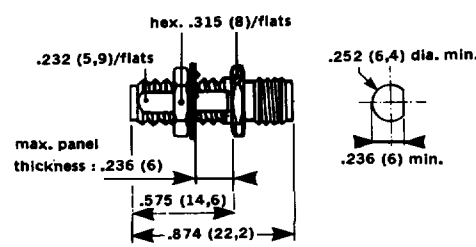


PART NUMBER	R 125 704

(For passivated stainless steel version, add suffix 001)

FEMALE - FEMALE BULKHEAD



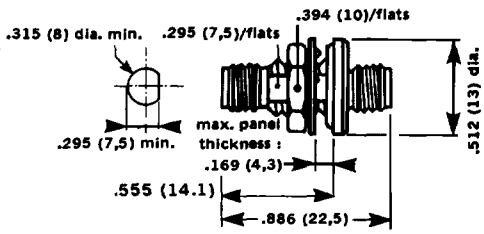


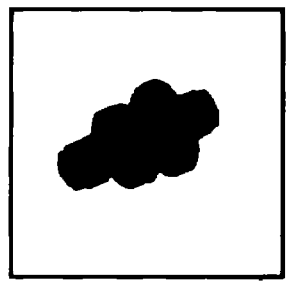
PART NUMBER	R 125 720

(For passivated stainless steel version, add suffix 001)

FEMALE - FEMALE HERMETICALLY SEALED BULKHEAD

PART NUMBER	R 125 753
MIL no.	M 55339 / 28 - 30001

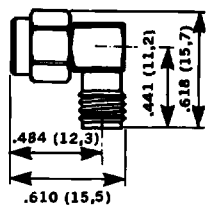


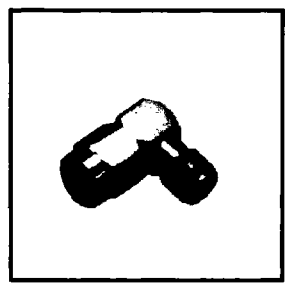


MALE - FEMALE RIGHT ANGLE

PART NUMBER	R 125 771
MIL no.	M 55339 / 02 - 30001

(For passivated stainless steel version, add suffix 001)

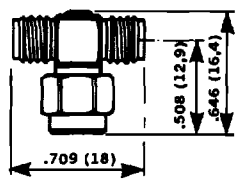


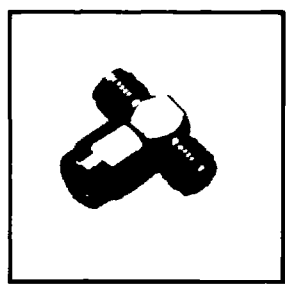


TEE FEMALE - FEMALE/MALE

PART NUMBER	R 125 780

(For passivated stainless steel version, add suffix 001)

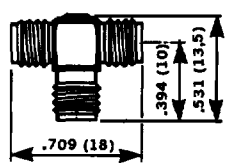


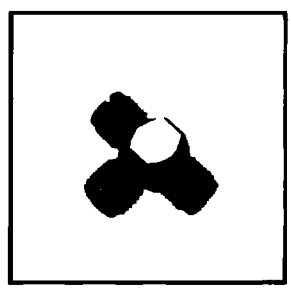


TEE FEMALE - FEMALE/FEMALE

PART NUMBER	R 125 781

(For passivated stainless steel version, add suffix 001)

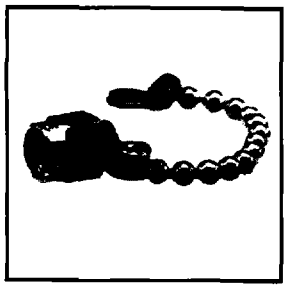


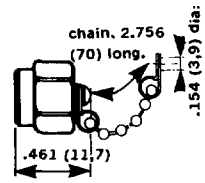


SMA

DUST CAPS AND SHORTS

MALE DUST CAP AND CHAIN

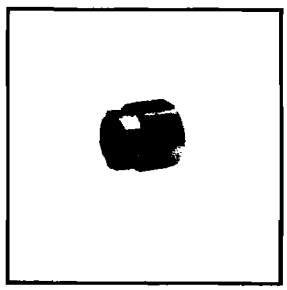


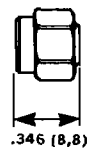


PART NUMBER	R 125 812

(For passivated stainless steel version, add suffix 001)

MALE SHORT CIRCUIT CAP

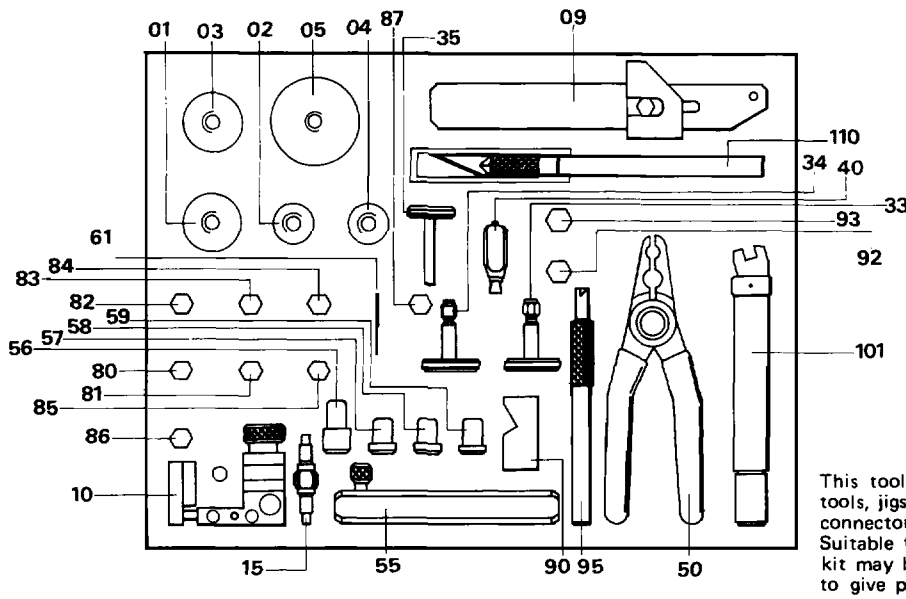




PART NUMBER	R 125 852

(For passivated stainless steel version, add suffix 001)

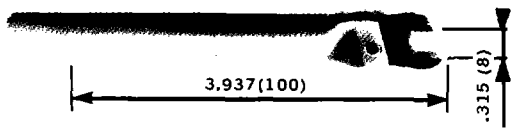
R 282 120 TOOL KIT



(01)	730.11.030	(59)	731.20.000
(02)	730.11.040	(61)	731.15.020
(03)	730.11.050		
(04)	730.11.060	(80)	730.40.004
(05)	730.11.070	(81)	730.30.005
(09)	730.11.000	(82)	730.15.004
(10)	730.15.021	(83)	730.30.002
(15)	731.15.010	(84)	730.40.025
(33)	730.25.006	(85)	730.40.003
(34)	730.25.005	(86)	730.40.012
(35)	730.25.042	(87)	730.40.027
(40)	730.60.001	(90)	730.20.080
(50)	730.81.021	(92)	731.40.000
(55)	764.49.010	(93)	731.40.020
(56)	731.20.020	(95)	730.22.010
(57)	731.20.030	(101)	730.80.220
(58)	731.20.010	(110)	730.22.000

This tool kit contains all the necessary stripping and bending tools, jigs and torque spanner to facilitate the assembly of SMA connectors onto semi-rigid cables.
Suitable for use with .085", .141"and .250"diameter cables the kit may be employed in the laboratory, the factory or the field to give perfect assembly and optimum r.f. performance up to **18 GHz or 26,5 GHz.**

TORQUE WRENCH : R 282 320

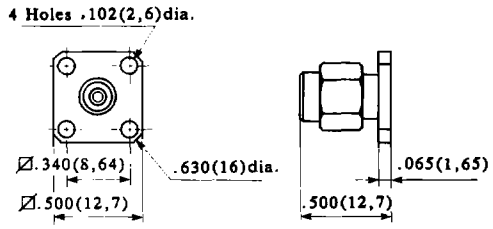


This torque wrench is preset to the recommended tightening torque and designed specifically for tightening the coupling nuts of male connectors to the correct torque.
Its use avoids damage to the interfaces and ensures good resistance to shock and vibration.

SQUARE FLANGE PLUG

PART NUMBER	R 125 431 001 * R 125 431 201	R 125 431 011 * R 125 431 211
Pin Diameter	.012 (0.3)	.018 (0.5)
VSWR	1.10 + 0.01 F (GHz)	
Panel Drilling	P 01	P 02

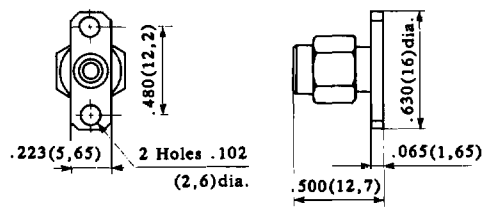
** : With EMI/RFI gasket*

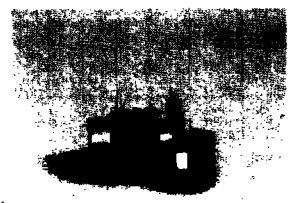


2 - HOLE FLANGE PLUG

PART NUMBER	R 125 481 001 * R 125 481 201	R 125 481 011 * R 125 481 211
Pin Diameter	.012 (0.3)	.018 (0.5)
VSWR	1.10 + 0.01 F (GHz)	
Panel Drilling	P 01	P 02

** : With EMI/RFI gasket*

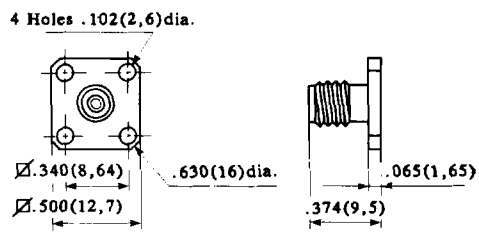


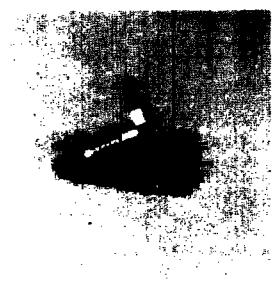


SQUARE FLANGE JACK

PART NUMBER	R 125 411 001 * R 125 411 201	R 125 411 011 * R 125 411 211
Pin Diameter	.012 (0.3)	.018 (0.5)
VSWR	1.10 + 0.01 F (GHz)	
Panel Drilling	P 01	P 02

** : With EMI/RFI gasket*

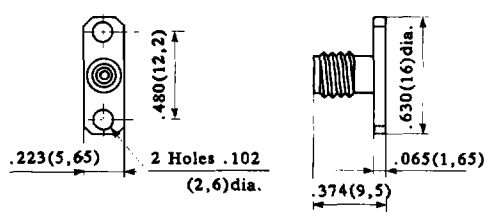


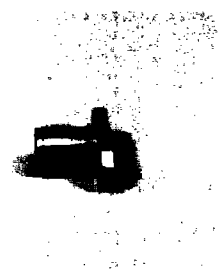


2 - HOLE FLANGE JACK

PART NUMBER	R 125 465 001 * R 125 465 201	R 125 465 011 * R 125 465 211
Pin Diameter	.012 (0.3)	.018 (0.5)
VSWR	1.10 + 0.01 F (GHz)	
Panel Drilling	P 01	P 02

** : With EMI/RFI gasket*



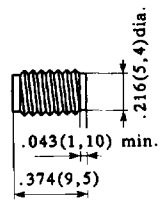


The standard units are passivated stainless steel. For gold plated versions, change the part number suffix from 1 to 0.

SMA

HERMETIC SEPARATE GLASS BEAD RECEPTACLES

PANEL FEEDTHROUGH JACK

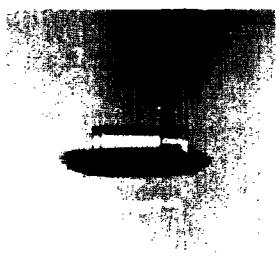


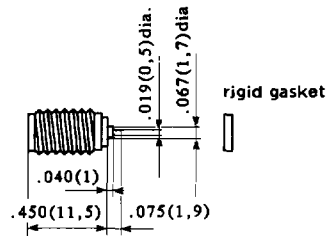
PART NUMBER	R 125 556 001	R 125 556 011
Pin Diameter	.012 (0.3)	.018 (0.5)
VSWR	1.10 + 0.01 F (GHz)	
Panel Drilling	P 03	P 04

The standard units are passivated stainless steel. For gold plated versions, change the part number suffix from 1 to 0.

HERMETIC SCREW-ON RECEPTACLES

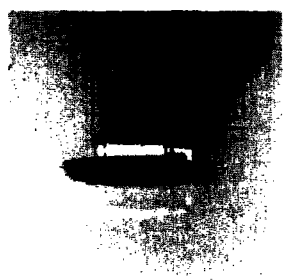
ENVIRONMENTALLY DURABLE PANEL FEEDTHROUGH

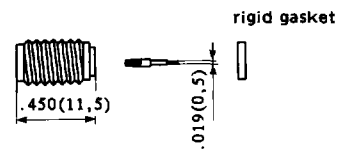




PART NUMBER	R 125 609
Frequency range	DC - 26.5 GHz
Thermal Shocks	– 65 °C to + 125 °C 1000 cycles
VSWR	DC - 18 GHz 1.06 + 0.006 F (GHz) 18 - 26,5 GHz 1.08 + 0.006 F (GHz)
Panel Drilling	P 05

ENVIRONMENTALLY DURABLE PANEL FEEDTHROUGH JACK WITH SLIDING CONTACT



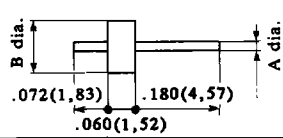


PART NUMBER	R 125 609 010
Frequency range	DC - 26.5 GHz
Thermal Shocks	– 65 °C to + 125 °C 1000 cycles
VSWR	1.04 + 0.009 F (GHz)
Panel Drilling	P 05

The standard units are gold plated. For passivated stainless steel versions, change the part number suffix from 0 to 1.

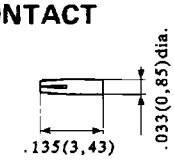
ACCESSORIES FOR HERMETIC SEPARATE GLASS BEAD RECEPTACLES

SOLDER HERMETIC GLASS BEAD



PART NUMBER	R 280 751	R 280 755
A Diameter	.012 (0.3)	.018 (0.5)
B Diameter	.099 (2.5)	.112 (2.8)

REMOVABLE CONTACT

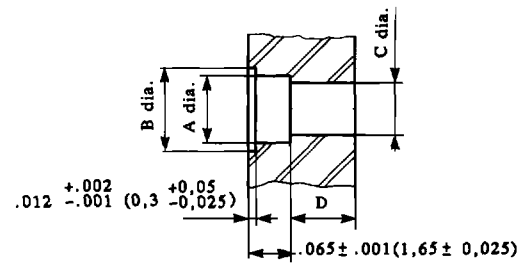


PART NUMBER	R 280 469	R 280 469 010
Pin Diameter	.012 (0.3)	.018 (0.5)

PANEL DRILLING P 01 and P 02

	P 01	P 02
A dia.	.102 ± .001 (2.6 ± 0.025)	.115 ± .001 (2.92 ± 0.025)
B dia.	.127 ± .001 (3.23 ± 0.025)	.140 ± .001 (3.55 ± 0.025)
C dia. (1)	.079 ± .0008 (2 ± 0.02)	
C dia. (2)	.028 ± .0008 (0.7 ± 0.02)	.043 ± .0008 (1.08 ± 0.02)
D (1)	.1 ± .004 (2.5 ± 0.1)	
D (2)	From .04 to .157 (from 1 mm to 4 mm)	

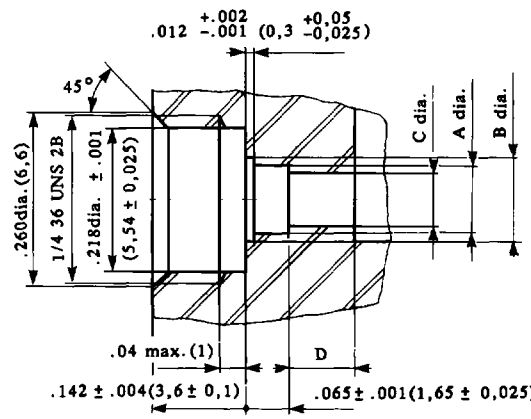
1) Using of the removable contact
2) The bead pin is directly welded on the track



PANEL DRILLING P 03 and P 04

	P 03	P 04
A dia.	.102 ± .001 (2.6 ± 0.025)	.115 ± .001 (2.92 ± 0.025)
B dia.	.127 ± .001 (3.23 ± 0.025)	.140 ± .001 (3.55 ± 0.025)
C dia. (1)	.079 ± .0008 (2 ± 0.02)	
C dia. (2)	.028 ± .0008 (0.7 ± 0.02)	.043 ± .0008 (1.08 ± 0.02)
D (1)	.1 ± .004 (2.5 ± 0.1)	
D (2)	From .04 to .157 (from 1 mm to 4 mm)	

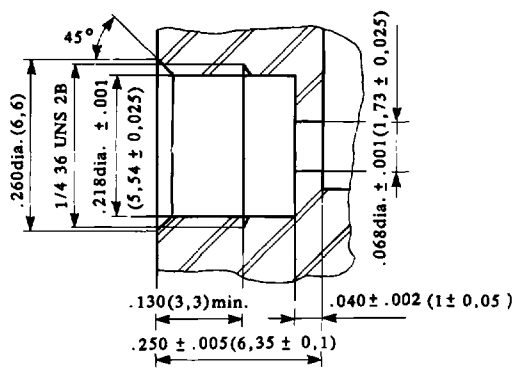
1) Using of the removable contact
2) The bead pin is directly welded on the track



For the P 01, P 02, P 03, P 04 panel drilling, the C and D dimensions have to be determined according to each using situation. We advise in the two following situations :

1) Using of the removable contact
2) The bead pin is directly welded on the track

PANEL DRILLING P 05

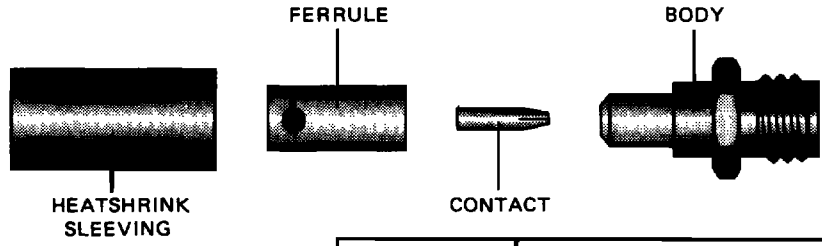


MOUNTING

Assemble metal gasket onto connector. Screw the whole into the housing. Tighten the connector up to 25 inch-pounds torque (use special tooling set RADIALL R 282 341). Thus the connexion hermiticity is guaranteed at 10^{-8} cc/sec. Then weld the pin on the track. We advise a Sn Pb 60/40 welding with a .012 wire (T 180° C). Beware there is not too much welding.

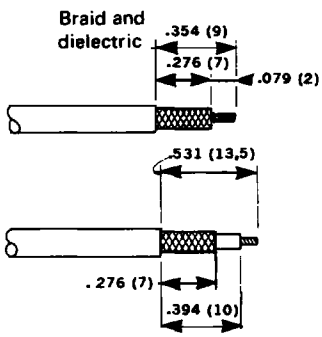
MOUNTING INSTRUCTIONS

M 01



CONNECTORS	TOOLING	
R 125 072 R 125 072 008	**RADIALL crimp tool**	**R 282 211**
	or RADIALL crimp tool + RADIALL crimp dies	**R 282 240** **R 282 241**
	or BUCHANAN crimp tool + BUCHANAN crimp dies	**612 648** **612 784**
	2.6 mm Ø cable : Hex. 3,25	
R 125 075 R 125 076 R 125 237 R 125 238	**RADIALL crimp tool**	R 282 223
	or RADIALL crimp tool + RADIALL crimp dies	**R 282 240** **R 282 242**
	or BUCHANAN crimp tool + BUCHANAN crimp dies	**612 648** **612 700**
	5 mm Ø cable : Hex. 5,41	

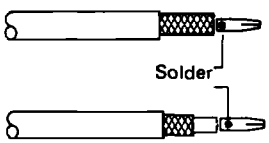
1



R 125 072
R 125 072 008

1 - 1 Place heatshrink sleeving and ferrule onto the cable
1 - 2 Strip the cable

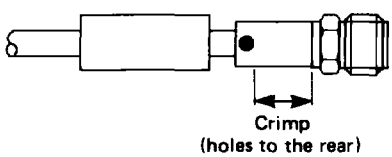
2



R 125 072
R 125 072 008

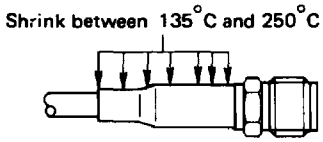
2 - 1 Solder the contact
2 - 2 Flare the braid

3



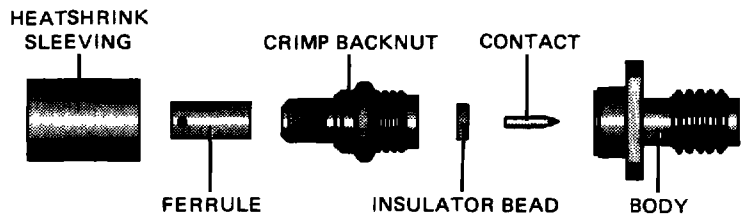
3 - 1 Position the body onto the cable
3 - 2 Crimp or solder the ferrule
- pass.st.steel connector : crimp
- gold plated connector : crimp or solder

4



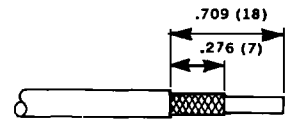
4 - 1 Shrink the heatshrink sleeving over the ferrule

M 02

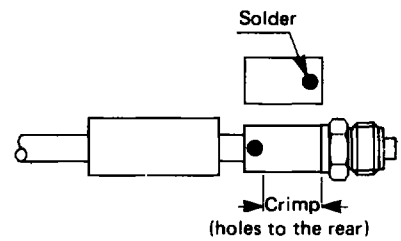


CONNECTOR	TOOLING
R 125 272	**RADIALL crimp tool** **R 282 211** or RADIALL crimp tool **R 282 240** + RADIALL crimp dies **R 282 241**
	or BUCHANAN crimp tool **612 648** + BUCHANAN crimp dies **612 784**
	2.6 mm Ø cable : Hex. 3,25

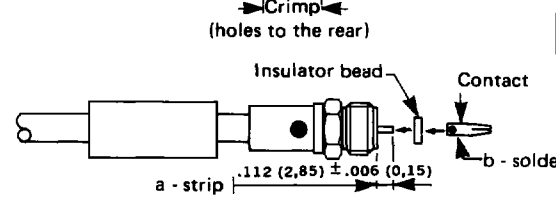
1 - 1 Place heatshrink sleeving and ferrule onto the cable
1 - 2 Strip the cable



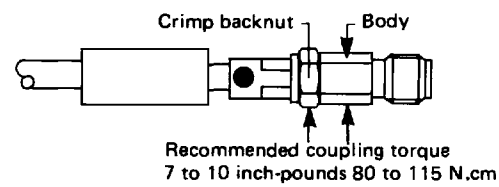
2 - 1 Slide the crimp backnut down between dielectric and braid
2 - 2 Crimp or solder the ferrule
- pass.st.steel connector : crimp
- gold plated connector : crimp or solder



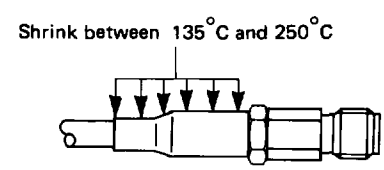
3 - 1 Cut the dielectric
3 - 2 Fit the insulator bead over the conductor
3 - 3 Solder the contact, ensuring that the contact bottoms onto the insulator bead



4 - 1 Insert sub-assembly into the body



5 - 1 Shrink the heatshrink sleeving over the ferrule

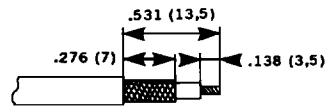


MOUNTING INSTRUCTIONS

M 03

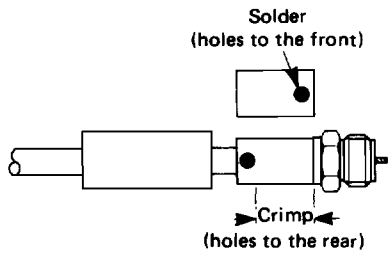
CONNECTORS	TOOLING	
R 125 073 R 125 074 R 125 236 R 125 303	**RADIALL crimp tool**	**R 282 211**
	or RADIALL crimp tool + RADIALL crimp dies	**R 282 240** **R 282 241**
	or BUCHANAN crimp tool + BUCHANAN crimp dies	**612 648** **612 784**
	2.6 mm Ø cable : Hex. 3,25 3.8 mm Ø cable : Hex. 4,50	
R 125 077 R 125 078 R 125 308	**RADIALL crimp tool**	R 282 223
	or RADIALL crimp tool + RADIALL crimp dies	R 282 240 R 282 242
	or BUCHANAN crimp tool + BUCHANAN crimp dies	**612 648** **612 700**
	5 mm Ø cable : Hex. 5,41	

1



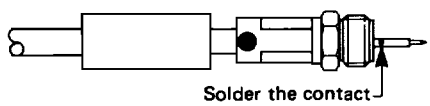
1 - 1 Place heatshrink sleeving and ferrule onto the cable
1 - 2 Strip the cable
1 - 3 Flare the braid

2



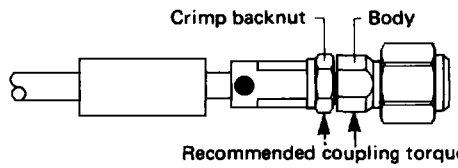
2 - 1 Slide the crimp backnut down between dielectric and braid
2 - 2 Crimp or solder the ferrule
- pass.st.steel connector : crimp
- *gold plated connector : crimp or solder*

3



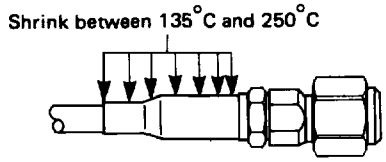
3 - 1 Solder the contact ensuring that the contact has been pushed home into the rear insulator

4



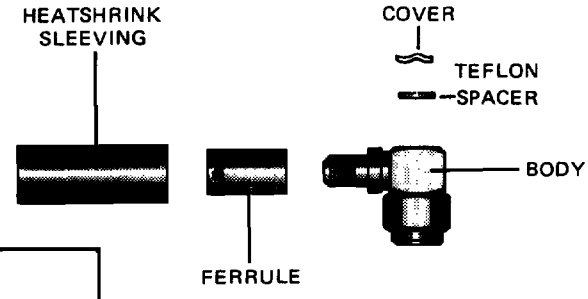
4 - 1 Insert sub-assembly into the body

5



5 - 1 Shrink the heatshrink sleeving over the ferrule

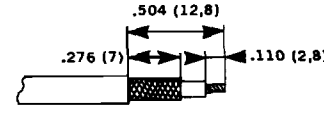
M 04



CONNECTORS	TOOLING	
R 125 172	**Tool kit R 282 120 positioner Item 30**	
	+ RADIALL crimp tool	**R 282 211**
	or RADIALL crimp tool	**R 282 240**
	+ RADIALL crimp dies	**R 282 241**
	or BUCHANAN crimp tool	**612 648**
	+ BUCHANAN crimp dies	**612 784**
	2.6 mm Ø cable : Hex. 3,25	
R 125 175 R 125 176	**Tool kit R 282 120 positioner Item 30**	
	+ RADIALL crimp tool	**R 282 223**
	or RADIALL crimp tool	**R 282 240**
	+ RADIALL crimp dies	**R 282 242**
	or BUCHANAN crimp tool	**612 648**
	+ BUCHANAN crimp dies	**612 700**
	5 mm Ø cable : Hex 5.41	

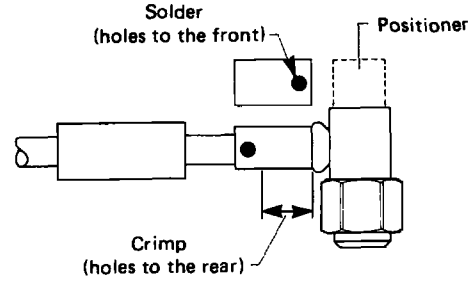
1 - 1 Place heatshrink sleeving and ferrule onto the cable
1 - 2 Strip the cable

1



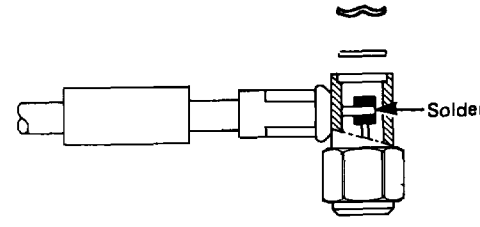
2 - 1 Flare the braid
2 - 2 Position the body onto the cable
2 - 3 Secure the positioner into the body
2 - 4 Crimp or solder the ferrule
- pass.st.steel connector : crimp
- gold plated connector : crimp or solder

2



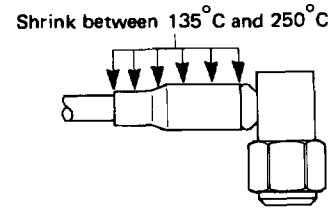
3 - 1 **Remove the positioner**
3 - 2 **Solder the contact**
3 - 3 **Solder the cover (gold version) or for passivated st.steel version fit the teflon spacer and then press the cover into place with punch tool.**

3



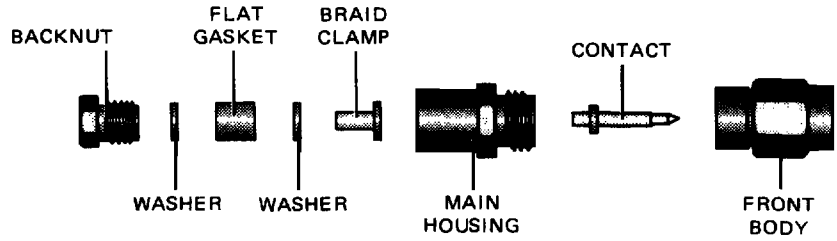
4 - 1 Shrink the heatshrink sleeving over the ferrule

4



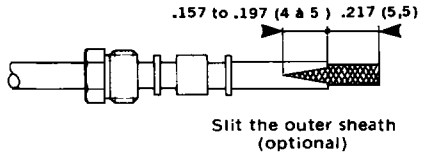
MOUNTING INSTRUCTIONS

M 05



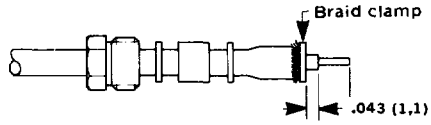
CONNECTOR
R 125 091

1



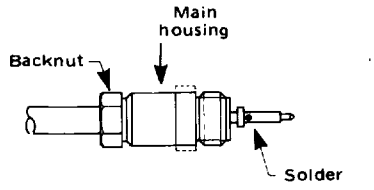
1 - 1 Slide the backnut, washer, gasket, washer over the cable
1 - 2 Strip the cable
1 - 3 Slit the sheath (optional) to ease positioning of the braid clamp under the braid.

2



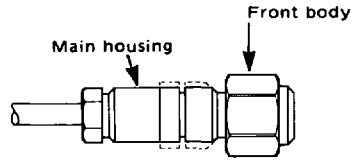
2 - 1 Slide the braid clamp between the dielectric and the braid
2 - 2 Trim the braid flush with the diameter of the braid clamp
2 - 3 Cut the dielectric.

3



3 - 1 Insert sub-assembly into the main housing
3 - 2 Solder the contact.

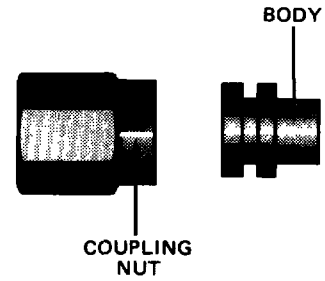
4



4 - 1 Insert sub-assembly into the front body.

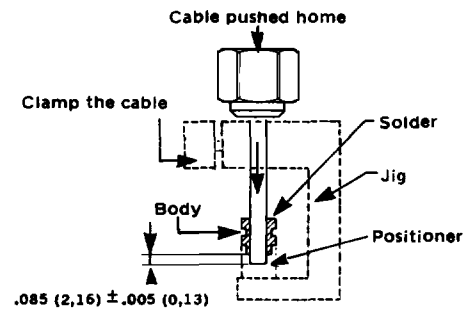
M 07

NOTE : It is recommended that semi-rigid cable with a silvered copper covered steel conductor is used as the conductor becomes the center contact.

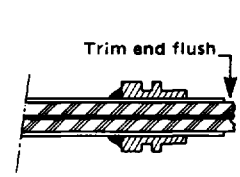


CONNECTOR	TOOLING
R 125 054 500	**Tool kit R 282 120** assembly jig — **Item 10** positioner — **82** cable trimming tool — **59** cable cutting collet — **55** conductor filing gauge — **90** plus 100 or 250 W resistance soldering iron with tweezers.

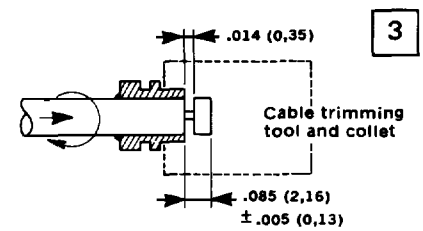
1 - 1 Slide the coupling nut over the cable before beginning the assembly operation
1 - 2 Place the cable into the assembly jig
1 - 3 Place the connector body and positioner onto the cable, then clamp the cable
1 - 4 Put 3 rings of solder around the cable
1 - 5 Solder the body onto the semi-rigid.



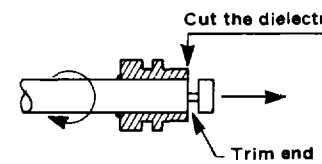
2 - 1 After the sub-assembly has cooled, remove it from the jig
2 - 2 Trim extended dielectric flush with the end of the cable outer.



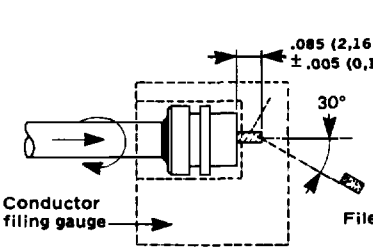
3 - 1 Insert the connector body into the cable trimming tool and collet
3 - 2 Saw through cable outer whilst turning seated sub-assembly.



4 - 1 Cut through dielectric and bare inner conductor
4 - 2 Inspect sub-assembly and clean unit free from all chips, foreign matter etc.

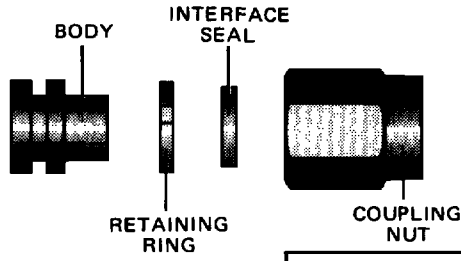


5 - 1 Push home sub-assembly into the conductor filing gauge and file the conductor to a point while turning the cable.



MOUNTING INSTRUCTIONS

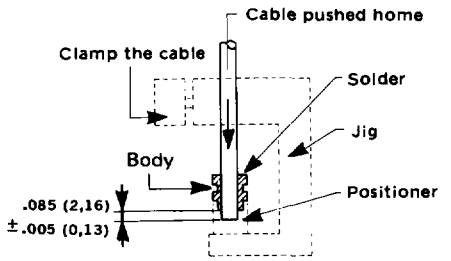
M 08



NOTE : It is recommended that semi-rigid cable with a silvered copper covered steel conductor is used as the conductor becomes the center contact.

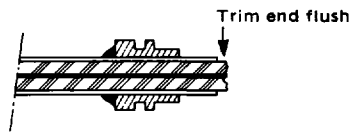
CONNECTORS	TOOLING	
	Tool kit R 282 120	**Item**
	assembly jig	**10**
	positioner	**82**
R 125 054	cable trimming tool	**55**
	cable cutting collet	**59**
R 125 057	conductor filing gauge	**90**
	retaining ring insert tool	**40**
	retaining ring pliers	**50**
	plus 100 or 250 W resistance soldering iron with tweezers	

1



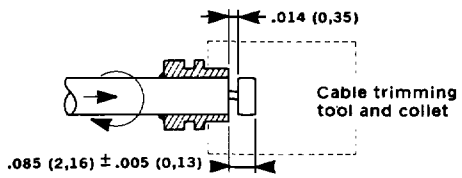
1 - 1 Place the cable into the assembly jig
1 - 2 Place the connector body and positioner onto the cable, then clamp the cable
1 - 3 Put 3 rings of solder around the cable
1 - 4 Solder the body onto the semi-rigid.

2



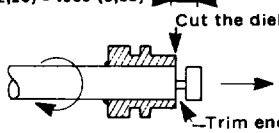
2 - 1 After the sub-assembly has cooled, remove it from the jig
2 - 2 Trim extended dielectric flush with the end of the cable outer.

3



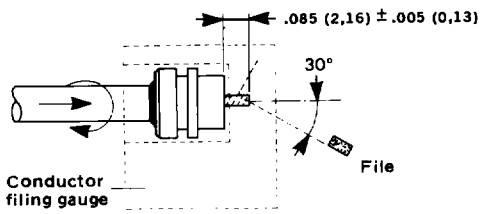
3 - 1 Insert the connector body into the cable trimming tool and collet
3 - 2 Saw through cable outer while turning seated sub-assembly.

4



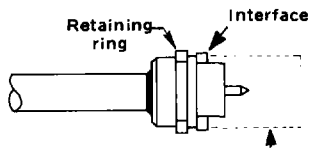
4 - 1 Cut through dielectric and bare inner conductor
4 - 2 Inspect sub-assembly and clean unit free from all chips, foreign matter etc.

5



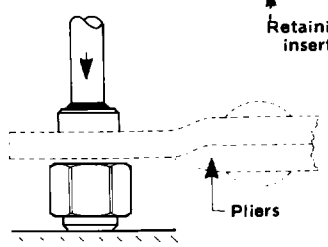
5 - 1 Push home sub-assembly into the conductor filing gauge and file the conductor to a point while turning the cable.

6



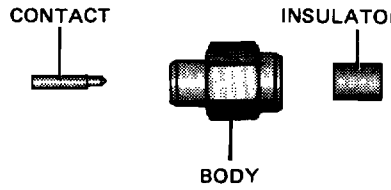
6 - 1 Place the interface seal O ring onto body
6 - 2 Place retaining ring onto its insert tool
6 - 3 Push sub-assembly into the tool until the retaining ring snaps into place.

7



7 - 1 Compress retaining ring using retaining ring pliers
7 - 2 Push coupling nut onto sub-assembly and over retaining ring.

M 09



CONNECTORS	TOOLING

Tool kit R 282 120

		Item		Item
R 125 052	cable trimming tool	.085 " cable **55**	.141 " cable	**55**
	cable cutting collet	" **57**	"	**58**
	positioner	" **85**	"	**87**
R 125 052 500	assembly jig	" **10**	"	**10**
	contact holder	" **15**	"	**15**
R 125 055	spacer	" **61**	"	**61**
	trimmer locator	" **93**	"	**93**
	dielectric trimmer	" **95**	"	**95**
R 125 055 500	dielectric insert tool	" **34**	"	**34**
	dielectric plunger	" **35**	"	**35**

plus 100 or 250 W resistance soldering iron with tweezers

1 - 1 For R 125 052 500 and R 125 055 500 slide the retractable coupling nut over the cable before beginning the assembly operation

1 - 2 Insert the cable into the cable trimming tool and cable cutting collet

1 - 3 Saw through cable outer and into dielectric while turning the cable.

2 - 1 Cut through the dielectric and bare inner conductor

2 - 2 Trim the end of the cable

2 - 3 Inspect cable and clean free from all chips, foreign matter etc.

3 - 1 Place the cable into the assembly jig

3 - 2 Position the contact, spacer and contact holder as shown

3 - 3 Solder the contact

4 - 1 After the sub-assembly has cooled, remove it from the jig

4 - 2 Screw the body and positioner together

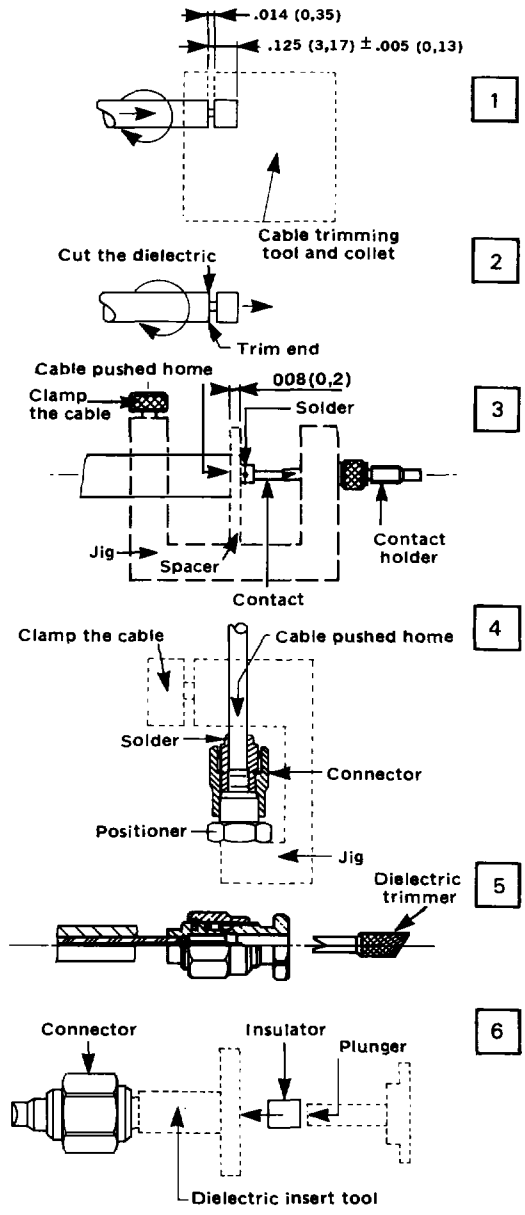
4 - 3 Place cable into the body until the contact bottoms with the positioner and clamp the cable

4 - 4 Put 3 rings of solder around the cable and solder the body onto the semi-rigid.

5 - 1 After the sub-assembly has cooled, remove it from the jig

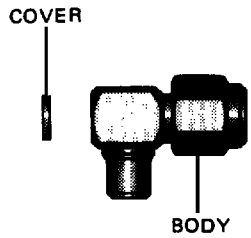
5 - 2 Screw the trimmer locator into the connector and insert dielectric trimmer to remove any surplus PTFE from the face of the semi-rigid.

6 - 1 Screw the dielectric insert tool into the body and insert the insulator with the plunger.



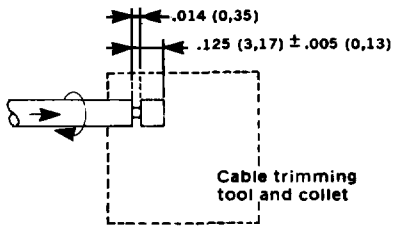
MOUNTING INSTRUCTIONS

M 10



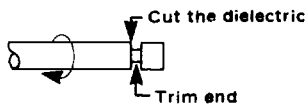
CONNECTORS	TOOLING
R 125 153 R 125 154	**Tool kit R 282 120** cable trimming tool .085 " cable **Item 55** . 141 " cable **Item 55** cable cutting collet " **57** " **58** positioner " **84** " **84** assembly jig " **10** " **10** plus 100 or 250 W resistance soldering iron with twezzers

1



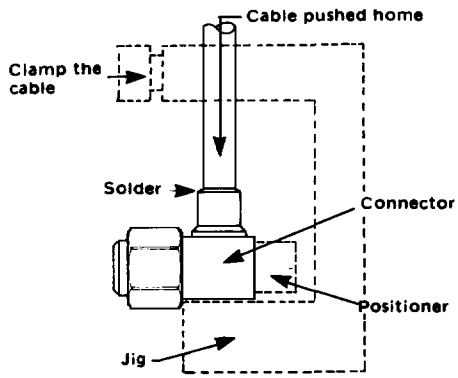
1 - 1 Insert the cable into the cable trimming tool and cable cutting collet
1 - 2 Saw through cable outer and into dielectric while turning the cable.

2



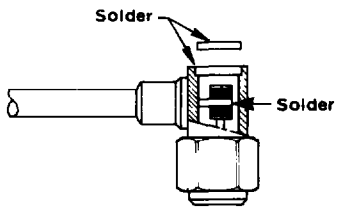
2 - 1 Cut through the dielectric and bare inner conductor
2 - 2 Trim the end of the cable
2 - 3 Inspect cable and clean free from all chips, foreign matter etc.

3



3 - 1 Insert the cable into the body
3 - 2 Secure the positioner into the body
3 - 3 Place the sub-assembly into the assembly jig
3 - 4 Put 3 rings of solder around the cable and solder the body onto the semi-rigid.

4

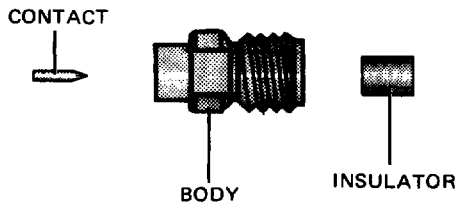


4 - 1 After the sub-assembly has cooled, remove it from the jig
4 - 2 Remove the positioner
4 - 3 Solder the contact
4 - 4 Solder the cover.

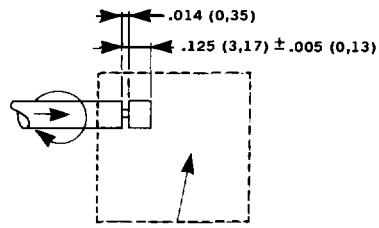
M 11

I

CONNECTORS	TOOLING
R 125 222 R 125 225 R 125 251 R 125 252 R 125 255 R 125 256 R 125 325 R 125 326	**Tool kit R 282 120** cable trimming tool .085 " cable **Item 55** .141 " cable **Item 55** cable cutting collet " **57** " **58** positioner " **85** " **86** assembly jig " **10** " **10** contact holder " **15** " **15** spacer " **61** " **61** trimmer locator " **92** " **92** dielectric trimmer " **95** " **95** dielectric insert tool " **33** " **33** dielectric plunger " **35** " **35** plus 100 or 250 W resistance soldering iron with tweezers.

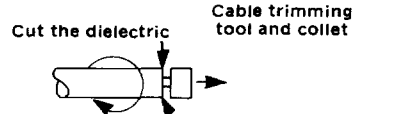


1 - 1 Insert the cable into the cable trimming tool and cable cutting collet
1 - 2 **Saw through cable outer and into dielectric while turning the cable.**



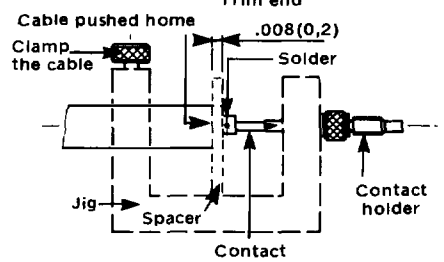
1

2 - 1 Cut through the dielectric and bare inner conductor
2 - 2 Trim the end of the cable
2 - 3 Inspect cable and clean free from all chips, foreign matter etc.



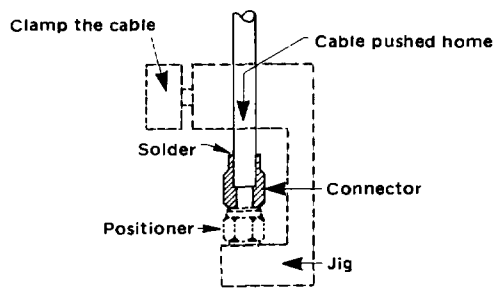
2

3 - 1 Place the cable into the assembly jig
3 - 2 Position the contact, spacer and contact holder as shown
3 - 3 Solder the contact.



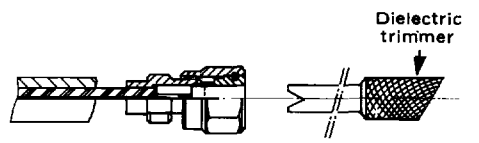
3

4 - 1 After the sub-assembly has cooled, remove it from the jig
4 - 2 Screw the body and positioner together
4 - 3 Place cable into the body until the contact bottoms with the positioner and clamp the cable
4 - 4 Put 3 rings of solder around the cable and solder the body onto the semi-rigid.



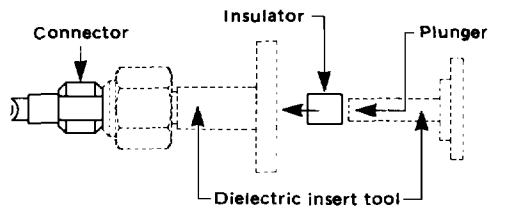
4

5 - 1 After the sub-assembly has cooled, remove it from the jig
5 - 2 Screw the trimmer locator into the connector and insert dielectric trimmer to remove any surplus PTFE from the face of the semi-rigid.



5

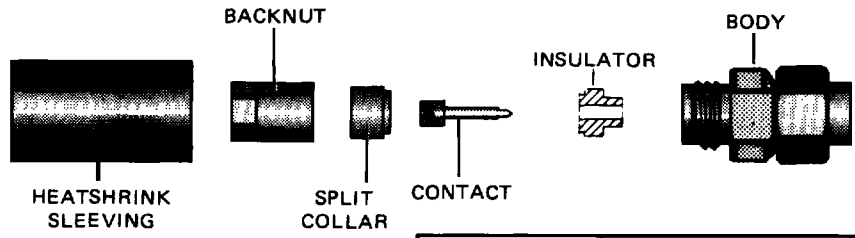
6 - 1 After the sub-assembly has cooled, remove it from the jig
6 - 2 Screw the dielectric insert tool into the body and insert the insulator with the plunger.



6

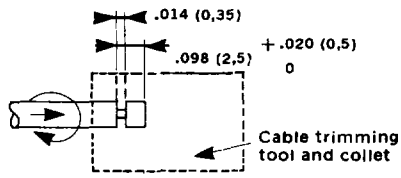
MOUNTING INSTRUCTIONS

M 12



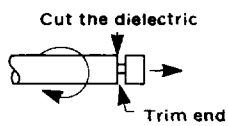
CONNECTORS	TOOLING
R 125 056 **R 125 226**	**Tool kit R 282 120** cable trimming tool — **Item 55** cable cutting collet — **56** assembly jig — **10** contact holder — **15**

1



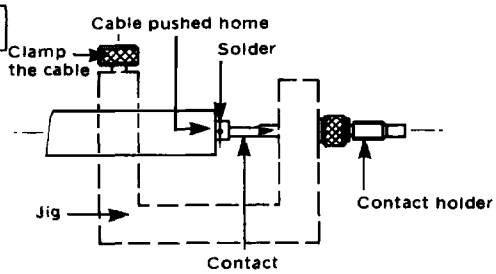
1 - 1 Insert the cable into the cable trimming tool and cable cutting collet
1 - 2 **Saw through cable outer and into dielectric while turning the cable.**

2



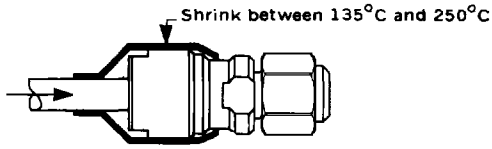
2 - 1 Cut through the dielectric and bare inner conductor
2 - 2 Trim the end of the cable.

3



3 - 1 Place the cable into the assembly jig
3 - 2 Position the contact and contact holder as shown
3 - 3 Solder the contact.

4



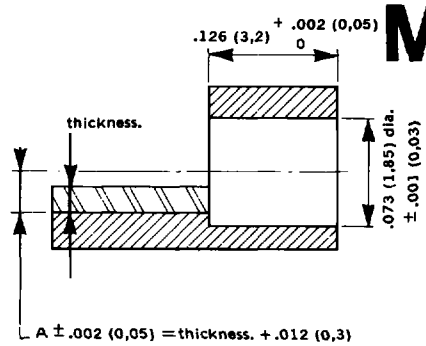
4 - 1 Slide the heatshrink sleeving, backnut and split collar over the sub-assembly
4 - 2 Position the insulator over the contact
4 - 3 Insert sub-assembly into the body
4 - 4 Shrink the heatshrink sleeving over the connector.

I

M 13

R 125 451
R 125 500
R 125 501

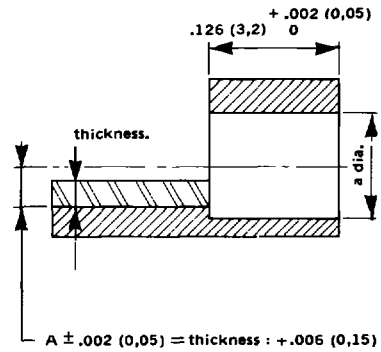
- Insulator : ceramic
  thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
  width : 0.635 mm
- Ground plane : gold



M 14

	– Ø a –
R 125 462	2.2 ± 0.04
R 125 484	2.2 ± 0.04
R 125 492	2.2 ± 0.04
R 125 512	2.2 ± 0.04
R 125 611 001	1.45 ± 0.04

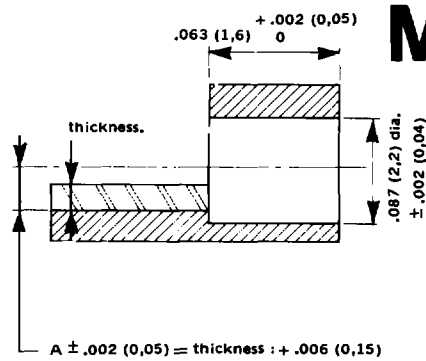
- Insulator : ceramic
  thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
  width : 0.635 mm
- Ground plane : gold



M 15

R 125 463
R 125 513

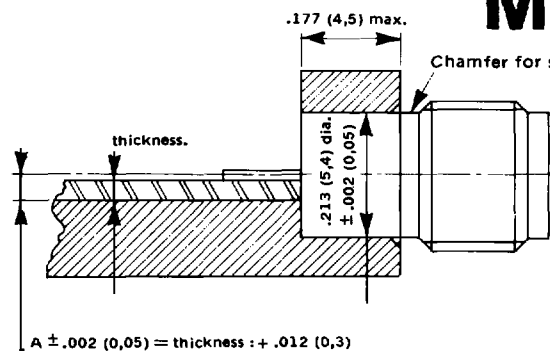
- Insulator : ceramic
  thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
  width : 0.635 mm
- Ground plane : gold



M 16

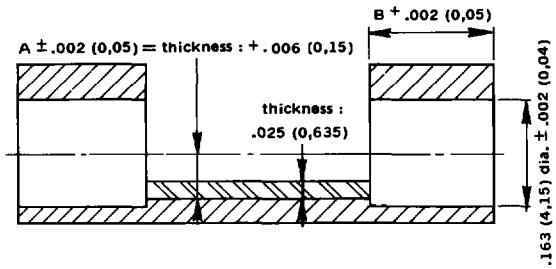
R 125 630
R 125 633

- Insulator : ceramic
  thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
  width : 0.635 mm
- Ground plane : gold



Stripline installation

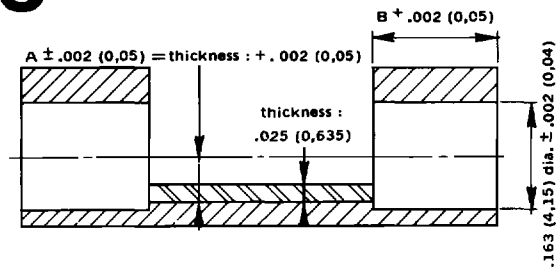
M 17



PART NUMBER	Dimension B
R 125 612	3,2
R 125 617	3,2

- Insulator : ceramic
- thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
- width : 0.635 mm
- Ground plane : gold

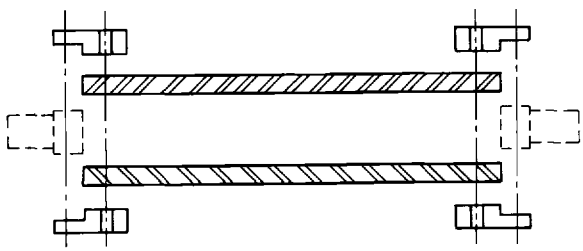
M 18



PART NUMBER	Dimension B
R 125 622	3,2

- Insulator : ceramic
- thickness : 0.635 mm
- Dielectric constant : 9.8
- Stripline : gold
- width : 0.635 mm
- Ground plane : gold

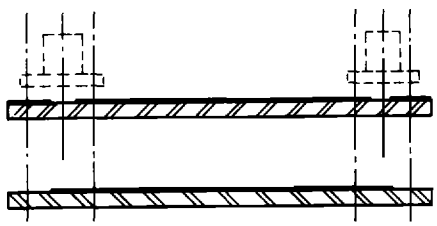
M 19



The connectors should be mounted at each end of a copper stripline fitted to a rexolite substrate.
The contacts are held in place under pressure due to the fixing screws on the mounting plates.

Width of stripline	1,12 mm	2,26 mm	4,52 mm
Dielectric constant	2,55	2,55	2,55
Thickness of substrate	0,76 mm	1,52 mm	3,05 mm
	R 125 539	**R 125 541** **R 125 544**	**R 125 542**

M 20

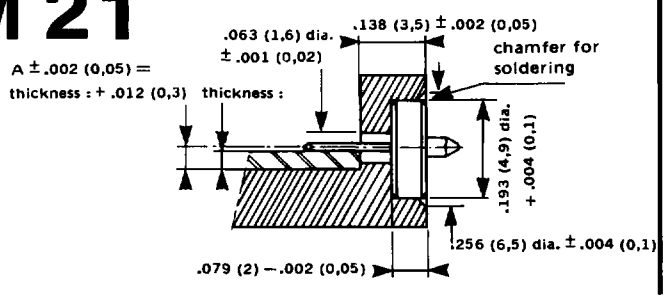


The connectors should be mounted perpendicularly at each end of a copper stripline fitted to a rexolite substrate.
The contacts are held in place by a sandwich clamp method using the connector fixing screws.

Width of stripline	2,26 mm
Dielectric constant	2,55
Thickness of substrate	1,52 mm
	R 125 523
	R 125 528
	R 125 663

N.B. Try to use only 3 fixing screws, if possible in an insulating material, and fix them as far away as possible from the stripline.

M 21



R 280 940

- Insulator : ceramic
- thickness : 0.635 mm
- Dielectric constant : 9.8 mm
- Stripline : gold
- width : 0.635 mm
- Ground plane : gold

I

This range developed according to MIL-C-39012 specifications has now been approved for the qualified product list.

REFERENCE M39012/	RADIALL PART NUMBER
55B3021	R 125-077-182
55B3121	R 125-077-184
55B3022	R 125-078-182
55B3122	R 125-078-184
55B3019	R 125-073-182
55B3119	R 125-073-184
55B3023	R 125-084-182
55B3123	R 125-084-184
55B3024	R 125-082-182
55B3124	R 125-082-184
55-3028	R 125-085-182
55-3128	R 125-085-184
55-3026	R 125-079-182
55-3126	R 125-079-184
55-3029	R 125-083-182
55-3129	R 125-083-184
56B3021	R 125-175-182
56B3121	R 125-175-184
56B3022	R 125-176-182
56B3122	R 125-176-184
56B3019	R 125-172-182
56B3119	R 125-172-184
56B3023	R 125-178-182
56B3123	R 125-178-184
56B3024	R 125-177-182
56B3124	R 125-177-184
57-3026	R 125-236-182
57-3028	R 125-240-182
57-3029	R 125-239-182
60-3001	R 125-403-181
60-3002	R 125-454-181

REFERENCE M39012/	RADIALL PART NUMBER
80B3003	R 125-153-182
80B3103	R 125-153-184
80B3004	R 125-154-182
80B3104	R 125-154-184
80B3003	R 125-153-983
80B3103	R 125-153-984
80B3004	R 125-154-983
80B3104	R 125-154-984
80-3007	R 125-155-182
80-3107	R 125-155-184
80-3008	R 125-156-182
80-3108	R 125-156-184
80-3208	R 125-154-981
80-3207	R 125-153-981
80-3308	R 125-154-985
80-3307	R 125-153-985
81-3008	R 125-225-182
81-3208	R 125-225-981
81-3207	R 125-222-981
81B3004	R 125-225-983
81B3003	R 125-222-983
92B3001	R 125-054-182
92B3101	R 125-054-184
92B3001	R 125-053-983
92B3101	R 125-053-984
92-3201	R 125-054-981
92-3301	R 125-054-985
92-3003	R 125-056-182
92-3103	R 125-056-184

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