

RF/Microwave Products

Connectors, Cables and Assemblies

Tensolite



A **CARLISLE** Company

Introduction



Tensolite is your reliable resource for high performance interconnect products. Long appreciated for quality and service, the products in this catalog display the wide range available to choose from for next generation systems.

Vertical integration and extensive manufacturing capabilities ensure that quality, always the primary consideration, and on-time delivery are never compromised.

Our manufacturing plants are constantly upgrading equipment and services. Our staff is expert at accommodating clients and creating fresh solutions. More than simply providing parts, Tensolite takes pride in bringing innovative solutions to the table. Our skilled staff provides



recommendations to meet specific electrical/mechanical parameters or improve product design.

Plants are reconfigured as needed without interfering with work flow. Flexibility from engineering to manufacturing is key to efficiency and rapid turn around.

Tensolite provides in-process testing to measure characteristic impedance, capacitance, dielectric withstanding voltage and time delay mismatch.

Tensolite, a leader in high performance, quality products is the resource you can depend on to get what you want, when you want it.

For more information on products and services be sure to visit Tensolite.com to see our newest products and download technical material.



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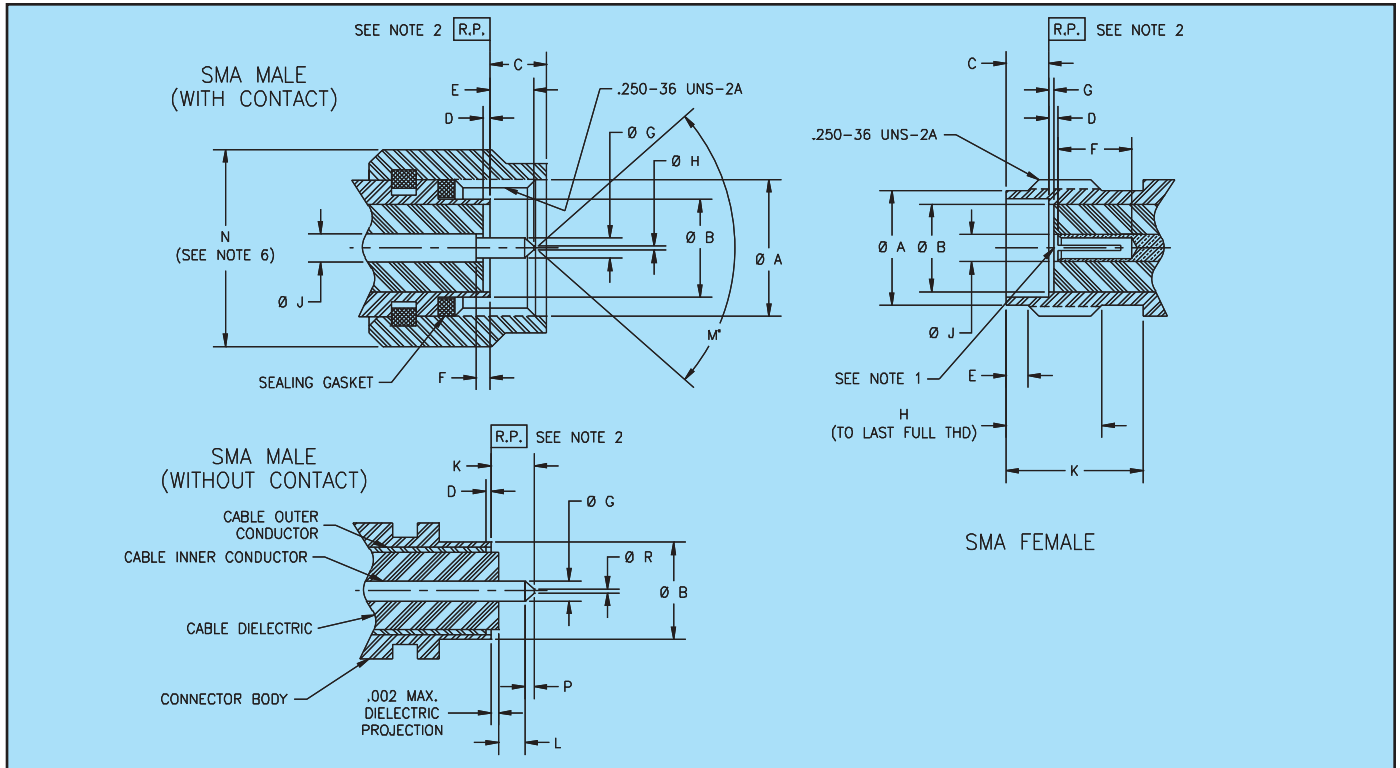
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SMA Series



SMA Interface Mating Dimensions (Per MIL-STD-348)



MALE

FEMALE

| LTR | Inches/Millimeters ³ | | | | | |
|----------------|---------------------------------|------|---------|-------|---------|-------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ∅A | .250 | 6.35 | .263 | 6.68 | — | — |
| ∅B | — | — | .1790 | 4.55 | .1808 | 4.59 |
| C | — | — | .117 | 2.97 | .135 | 3.43 |
| D ⁴ | .000 | 0.00 | -.005 | -0.13 | -.010 | -0.25 |
| E | .065 | 1.65 | .085 | 2.16 | .100 | 2.54 |
| F ⁵ | .000 | 0.00 | -.005 | -0.13 | -.010 | -0.25 |
| ∅G | .0355 | 0.90 | .0360 | 0.91 | .0370 | 0.94 |
| ∅H | .000 | 0.00 | .010 | 0.25 | .012 | 0.30 |
| ∅J | .049 | 1.24 | .050 | 1.27 | .051 | 1.30 |
| K | — | — | — | — | .100 | 2.54 |
| L | .050 | 1.27 | .075 | 1.91 | — | — |
| M° | 68° | 68° | — | — | 70° | 70° |
| N | .309 | 7.85 | .312 | 7.92 | .315 | 8.00 |
| P | .015 | 0.38 | — | — | — | — |
| ∅R | — | — | — | — | .015 | .0 |

| LTR | Inches/Millimeters ³ | | | | | |
|----------------|---------------------------------|------|---------|-------|---------|-------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ∅A | .208 | 5.28 | .210 | 5.33 | .216 | 5.49 |
| ∅B | .1810 | 4.60 | .1820 | 4.62 | — | — |
| C | .074 | 1.88 | .076 | 1.93 | .078 | 1.98 |
| D ⁴ | .000 | 0.00 | -.005 | -0.13 | -.010 | -0.25 |
| E | .015 | 0.38 | .030 | 0.76 | .045 | 1.14 |
| F | .105 | 2.67 | — | — | — | — |
| G ⁵ | .000 | 0.00 | -.005 | -0.13 | -.010 | -0.25 |
| H | .170 | 4.32 | — | — | — | — |
| ∅J | .049 | 1.24 | .050 | 1.27 | .051 | 1.30 |
| K | .218 | 5.54 | — | — | — | — |

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .0360 +.0008/-.0005 inches (.9144 +.0203/-.0127 millimeters) diameter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
4. Dielectric insulator gap is measured from connector body reference plane .000 in. max. above (flush) to .010 in. max. below.
5. Center conductor gap is measured from connector body reference plane .000 in. max. above (flush) to .010 in. max. below.
6. This dimension may extend to the full length of coupling nut.

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

In the event of any conflict between these specifications and General Specification MIL-PRF-39012 and MIL-PRF-83517, these specifications shall govern. These specifications are subject to change according to the latest revision of MIL-PRF-39012 and MIL-PRF-83517.

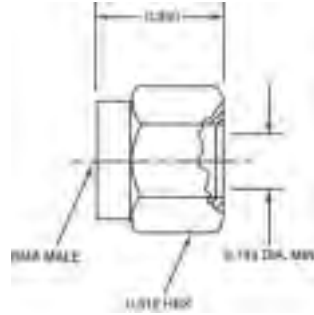
| Requirement | Specifications |
|--|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, AMS 5567, AMS 5370 Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per ZZ-R-765, CLASS IIB. 50-60 Shore. |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 10,000 megaohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 60 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 15 in-lbs. minimum. Applicable to male connectors only. |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only: oversize pin .0375 +.0001/-.0000 diameter, .030/.045 deep; Insertion force 2 lbs. maximum with .0370 +.0001/-.0000 diameter pin; withdrawal force 1oz. minimum with .0355 =.0001/-.0000 diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Recommended Mating Torque | 7-10 inch-pounds. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megaohms min. within 5 minutes after removal from humidity. |

Complete specifications on every connector in this catalog are available from the factory.

SMA Semi-Rigid Cable Connectors

5319

Straight cable male
(without contact)

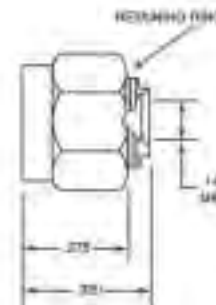
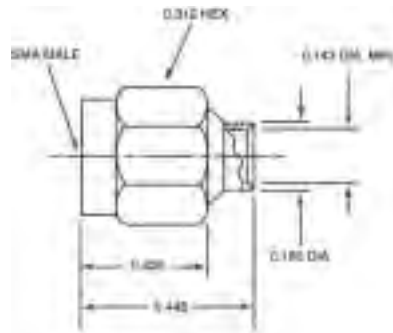


Refer to Assembly Instruction 123 on page 198

| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5319 | .141 |

5319-1, 5317

Straight cable male
(without contact)



Refer to Assembly Instruction 222 on page 206

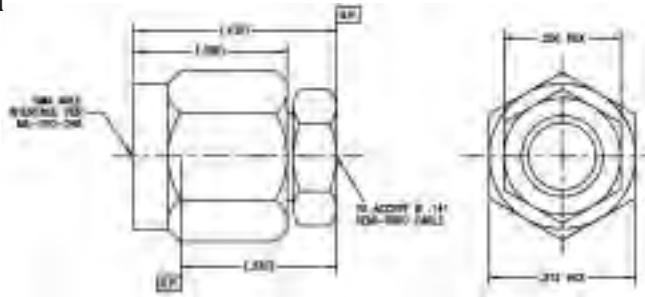
5319-1 without contact

5317 with retractable coupling nut

| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5319-1 | .141 |
| 5317 | .141 |

5319-0-1

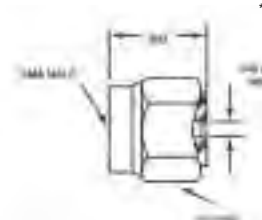
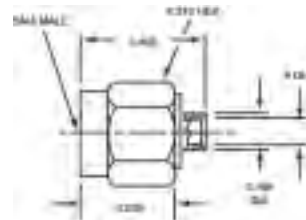
SMA male anti-torque nut to Ø .141
Semi-Rigid cable (no contact)



Consult factory for Assembly Instructions

5285-1 thru -3 & 5285-5CC

Straight cable male (with contact)



5285-1,2,3

5285-5CC

Refer to Assembly Instruction 111 on page 186

| Tensolite Part No. | "A" | Cable type |
|--------------------|-----------|------------|
| 5285-1 | .143 min. | .141 |
| 5285-2 | .088 min. | .085 |
| 5285-3 | .143 min. | .141* |
| 5285-5CC | .048 min. | .047 |

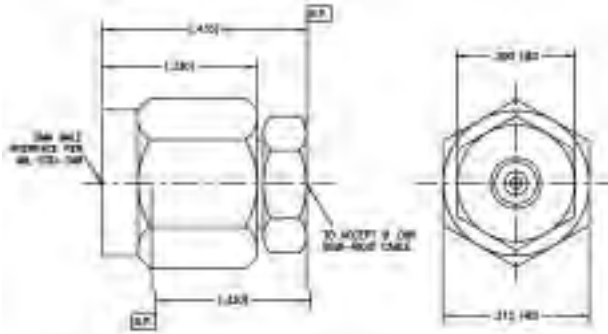
*Microporous

5285-5CC Center contact is captivated

SMA Semi-Rigid Cable Connectors

5285-0-4

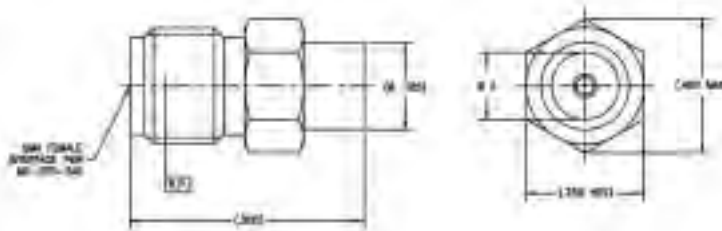
SMA male anti-torque straight to Ø .085 Semi-Rigid cable



Consult factory for Assembly Instructions

5286-1 thru -3

Straight cable female



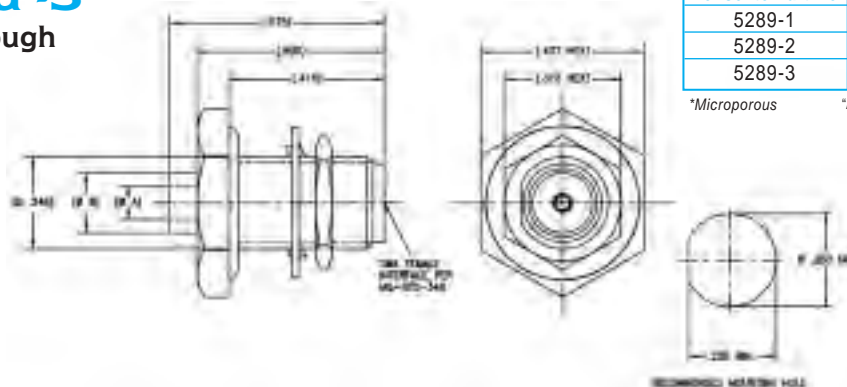
Refer to Assembly Instruction 113 on page 188

| Tensolite Part No. | "A" | Cable type |
|--------------------|-----------|------------|
| 5286-1 | .143 min. | .141 |
| 5286-2 | .088 min. | .085 |
| 5286-3 | .143 min. | .141* |

*Microporous .185 and "A" diameters will be gold plated on SF units for solderability.

5289-1 thru -3

Bulkhead feedthrough cable female



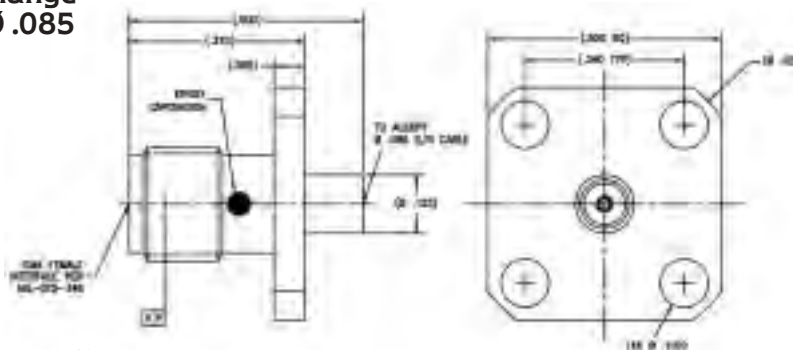
| Tensolite Part No. | "A" | "B" | Cable type |
|--------------------|-----------|------|------------|
| 5289-1 | .143 min. | .250 | .141 |
| 5289-2 | .088 min. | .185 | .085 |
| 5289-3 | .143 min. | .250 | .141* |

*Microporous "A" and "B" diameters will be gold plated on SF units for solderability.

Refer to Assembly Instruction 113 on page 188

5224-2CC

SMA female 4 hole flange (.500 sq) mount to Ø .085 Semi-Rigid cable



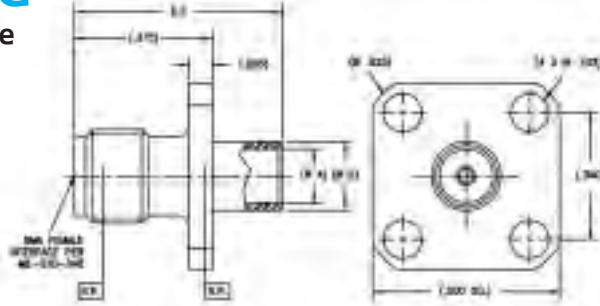
Refer to Assembly Instruction 120 on page 195

| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5224-2CC | .085 |

Center conductor is captivated. .088 and .125 diameters will be gold plated on SF units for solderability.

5228-1 thru -3 & 5228-5CC

Flange mount cable female



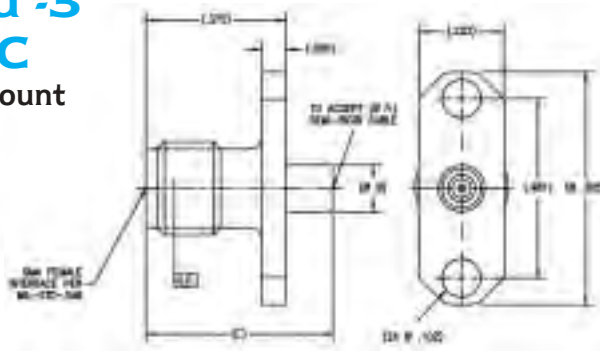
| Tensolite Part No. | "A" | "B" | "C" | Cable type |
|--------------------|-----------|------|------|------------|
| 5228-1 | .143 min. | .185 | .560 | .141 |
| 5228-2 | .088 min. | .125 | .500 | .085 |
| 5228-3 | .143 min. | .185 | .560 | .141* |
| 5228-5CC | .048 min. | .125 | .440 | .047 |

*Microporous "A" and "B" diameters will be gold plated on SF units for solderability. Add suffix CC to Part No. for captivated contact.

Refer to Assembly Instruction 132 on page 201

5229-1 thru -3 & 5229-5CC

Two hole flange mount cable female



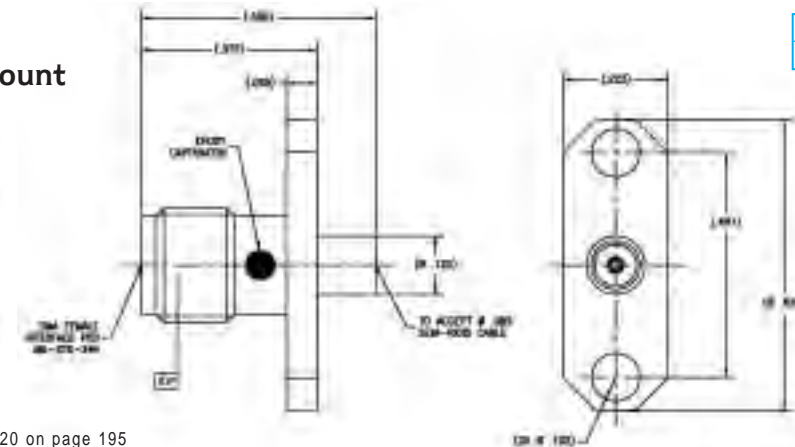
| Tensolite Part No. | "A" | "B" | "C" | Cable type |
|--------------------|-----------|------|------|------------|
| 5229-1 | .143 min. | .185 | .560 | .141 |
| 5229-2 | .088 min. | .125 | .500 | .085 |
| 5229-3 | .143 min. | .185 | .560 | .141* |
| 5229-5CC | .048 min. | .100 | .440 | .047 |

*Microporous "A" and "B" diameters will be gold plated on SF units for solderability. Add suffix CC to Part No. for captivated contact.

5229-1,2,3, Refer to Assembly Instruction 113 on page 188

5225-2CC

Two hole flange mount cable female



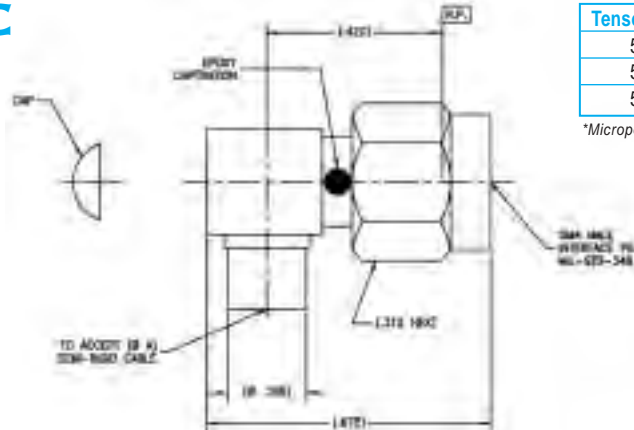
| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5225-2CC | .085 |

Center conductor is captivated. .088 and .125 diameters will be gold plated on SF units for solderability.

Refer to Assembly Instruction 120 on page 195

5850-1 thru -3CC

Right Angle cable male



| Tensolite Part No. | "A" | Cable type |
|--------------------|-----------|------------|
| 5850-1CC | .143 min. | .141 |
| 5850-2CC | .088 min. | .085 |
| 5850-3CC | .143 min. | .141* |

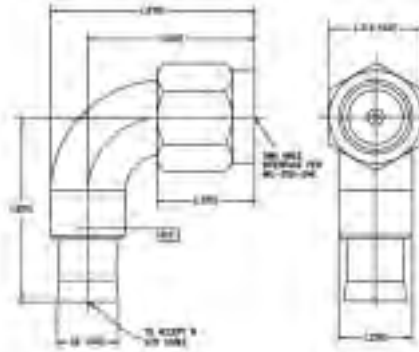
*Microporous Center conductor is captivated. Coupling nut will be passivated stainless steel on SF units.

Refer to Assembly Instruction 124 on page 199

SMA Semi-Rigid Cable Connectors

5236-1 & 5236-2

Radius right Angle cable male



5236-1, Refer to Assembly Instruction 105 on page 180
5236-2, Refer to Assembly Instruction 106 on page 181

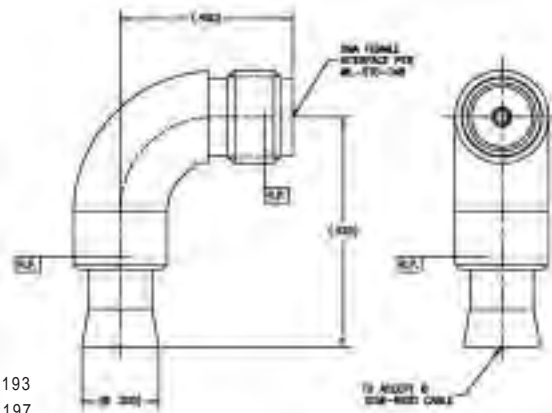
| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5236-1 | .141 |
| 5236-2 | .085 |

Coupling nut will be passivated stainless steel on SF units.

Add suffix CC to Part No. for captivated contact.

5235-1 & 5235-2

Radius right Angle cable female



5235-1, Refer to Assembly Instruction 118 on page 193
5235-2, Refer to Assembly Instruction 122 on page 197

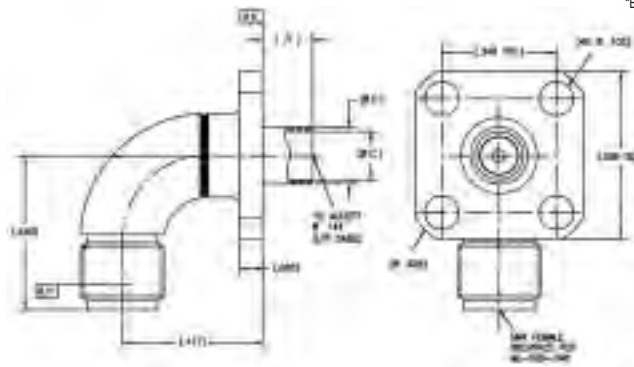
| Tensolite Part No. | Cable type |
|--------------------|------------|
| 5235-1 | .141 |
| 5235-2 | .085 |

5235-1: .143 and .205 diameters will be gold plated on SF units for solderability.
5235-2: .088 and .185 diameters will be gold plated on SF units for solderability.

Add suffix CC to Part No. for captivated contact.

5161-1 & 5161-2

Radius right angle flange mount cable female



| Tensolite Part No. | "A" | "B" | "C" | Cable type |
|--------------------|-----------|------|------|------------|
| 5161-1 | .150 min. | .170 | .143 | .141 |
| 5161-2 | .100 min. | .125 | .088 | .085 |

"B" and "C" diameters will be gold plated on SF units for solderability.
Add suffix CC to Part No. for captivated contact.

5161-1, Refer to Assembly Instruction 103 on page 178
5161-2, Refer to Assembly Instruction 104 on page 179

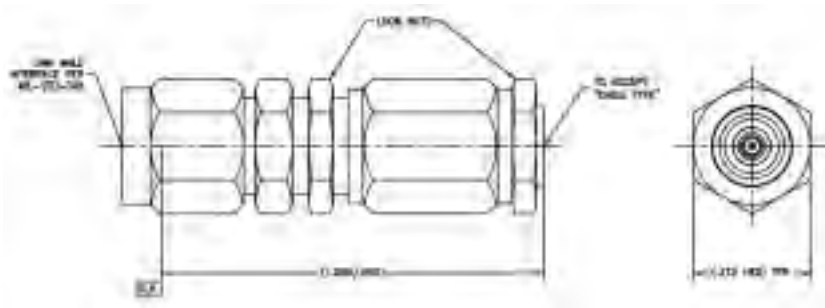
SMA Phase Adjustable SMA Connector

5999-1CCSF & 5999-2CCSF

SMA male straight phase adjustable to Semi-Rigid cable

| Tensolite Part No. | "A" | Cable type |
|--------------------|-----------|------------|
| 5999-1CCSF | .143 min. | .141 |
| 5999-2CCSF | .088 min. | .085 |

Physical length change per revolution of adjustment nut: .018 inch
 Electrical length change per revolution of adjustment nut: .0127
 Max. change in physical length: .160 ± .010 inch of air
 Max. change in electrical length: .103 ± .007 inch of air
 Standard units are passivated; "A" & "B" diameters will be gold plated for solderability.
 Center contact is captivated



Refer to Assembly Instruction 178, 179 on pages 204, 205

| FREQUENCY (GHZ) | ELECTRICAL LENGTH FULLY CLOSED | ELECTRICAL LENGTH FULLY OPEN | MAX. DEGREE CHANGE (PHASE SHIFT) | DEGREES PHASE CHANGE PER REVOLUTION OF ADJUSTMENT NUT |
|-----------------|--------------------------------|------------------------------|----------------------------------|---|
| 2 | 53° | 63° | 10° | 10.9° |
| 4 | 106° | 126° | 20° | 2.19° |
| 6 | 159° | 189° | 29° | 3.29° |
| 8 | 212° | 252° | 39° | 4.39° |
| 10 | 265° | 315° | 49° | 5.49° |
| 12 | 318° | 378° | 59° | 6.58° |
| 14 | 371° | 442° | 68° | 7.68° |
| 16 | 424° | 505° | 78° | 8.78° |
| 18 | 477° | 568° | 88° | 9.87° |
| 20 | 530° | 630° | 97° | 10.95° |
| 22 | 583° | 694° | 107° | 11.38° |
| 24 | 636° | 757° | 117° | 13.14° |
| 26 | 689° | 820° | 127° | 14.23° |

DESCRIPTION

The Tensolite 5999 is an adjustable coaxial phase shifter, covering DC through 26 GHz. Inserting this device into a cable/connector line provides continuously variable phase shift (up to 126 deg. at 26 GHz) allowing adjustment of the the electrical separation between the other components in a system.

Made of passivated stainless steel, the 5999 incorporates an SMA Male connector, spacing assembly, and a positive resettable locking mechanism.

ELECTRICAL PERFORMANCE

Impedance: 50 OHMS over full adj. range
 Frequency Range: DC-26 GHz

Working Voltage:

At Sea Level: 500 VRMS

At 70,000 Ft: 125 VRMS

VSWR: 1.05 + .008f (GHz) Max.

R.F. Insertion Loss: .05 x √F (GHz)

Insulation Resistance: 5000 Megohms Min.

Dielectric Withstanding Voltage: 1500 VRMS

R.F. High Potential Withstanding Voltage:

670 RMS @ 5 MHz to 7.5 MHz

R.F. Leakage: -90 db

Corona Level:

Voltage: 375

Altitude: 70,000 Ft.

Contact Resistance:

CENTER CONDUCTOR:

Before Environmental: 3.0 Milliohms Max.

After Environmental: 4.0 Milliohms Max.

OUTER CONDUCTOR:

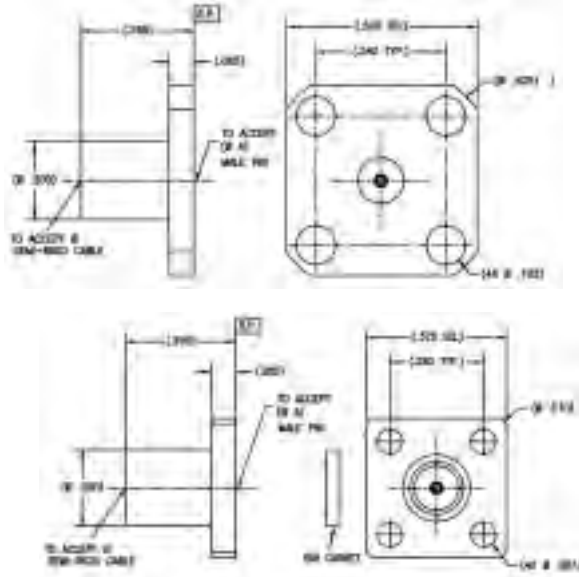
Before Environmental: 2.0 Milliohms Max.

After Environmental: Not Applicable

Permeability: Less Than 2.0 Mu

SMA Semi-Rigid Cable Receptacles

Connector receptacle 4 hole flange



Refer to Assembly Instruction
224 on page 208

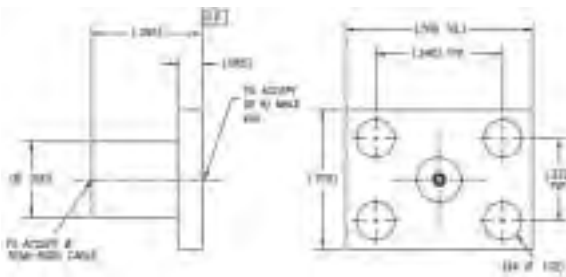
| Tensolite Part No. | EMI gasket | Flange size | Cable type |
|------------------------|------------|-------------|------------|
| 5810-1CC thru 5810-6CC | none | .500 4 hole | .141 |
| 5811-2CC thru 5811-6CC | none | .500 4 hole | .085 |
| 5812-2CC thru 5812-6CC | none | .500 4 hole | .047 |
| 5813-2CC thru 5813-6CC | with | .500 4 hole | .085 |
| 5814-2CC thru 5814-6CC | with | .500 4 hole | .047 |
| 5815-1CC thru 5815-6CC | none | .375 4 hole | .141 |
| 5816-2CC thru 5816-6CC | none | .375 4 hole | .085 |
| 5817-2CC thru 5817-6CC | none | .375 4 hole | .047 |
| 5818-2CC thru 5818-6CC | with | .375 4 hole | .085 |
| 5819-2CC thru 5819-6CC | with | .375 4 hole | .047 |

Pin Size Selection Chart

| Dash number | -1cc | -2cc | -3cc | -4cc | -5cc | -6cc |
|--------------------|------|------|------|------|------|------|
| Dim. "A" = ± .0005 | .036 | .020 | .01 | .012 | .015 | .018 |

Center connector is captivated

Connector receptacle 4 hole flange



Refer to Assembly Instruction 224 on page 208

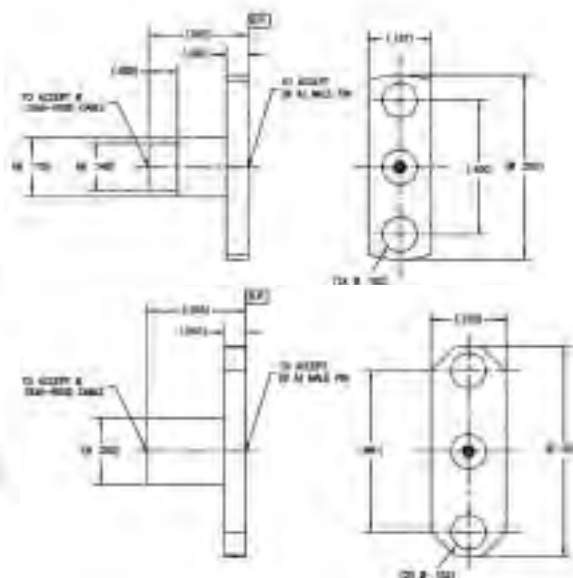
| Tensolite Part No. | EMI gasket | Flange size | Cable type |
|------------------------|------------|--------------------|------------|
| 5820-1CC thru 5820-6CC | none | .500 X .375 4 hole | .141 |
| 5821-2CC thru 5821-6CC | none | .500 X .375 4 hole | .085 |
| 5822-2CC thru 5822-6CC | none | .500 X .375 4 hole | .047 |
| 5823-2CC thru 5823-6CC | with | .500 X .375 4 hole | .085 |
| 5824-2CC thru 5824-6CC | with | .500 X .375 4 hole | .047 |

Pin Size Selection Chart

| Dash number | -1cc | -2cc | -3cc | -4cc | -5cc | -6cc |
|--------------------|------|------|------|------|------|------|
| Dim. "A" = ± .0005 | .036 | .020 | .01 | .012 | .015 | .018 |

Center connector is captivated

Connector receptacle 2 hole flange



Refer to Assembly Instruction 224 on page 208

| Tensolite Part No. | EMI gasket | Flange size | Cable type |
|------------------------|------------|--------------------|------------|
| 5785-1CC thru 5785-6CC | none | .550 X .187 2 hole | .141 |
| 5786-2CC thru 5786-6CC | none | .550 X .187 2 hole | .085 |
| 5787-2CC thru 5787-6CC | none | .550 X .187 2 hole | .047 |
| 5790-2CC thru 5790-6CC | none | .625 X .223 2 hole | .141 |
| 5791-1CC thru 5791-6CC | none | .625 X .223 2 hole | .085 |
| 5792-2CC thru 5792-6CC | none | .625 X .223 2 hole | .047 |
| 5793-2CC thru 5793-6CC | with | .625 X .223 2 hole | .085 |
| 5794-2CC thru 5794-6CC | with | .625 X .223 2 hole | .047 |

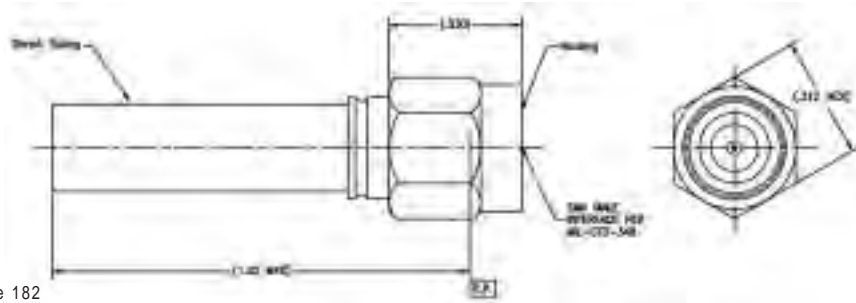
Pin Size Selection Chart

| Dash number | -1cc | -2cc | -3cc | -4cc | -5cc | -6cc |
|--------------------|------|------|------|------|------|------|
| Dim. "A" = ± .0005 | .036 | .020 | .01 | .012 | .015 | .018 |

Center connector is captivated

5730

**Straight cable male
(crimp or solder
attachment)**

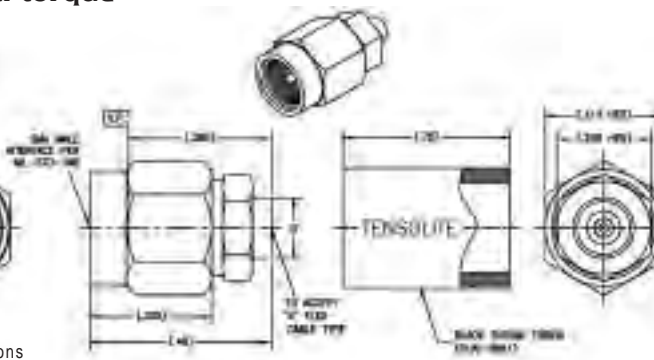


5730-1, Refer to Assembly Instruction 107 on page 182
5730-2, Refer to Assembly Instruction 108 on page 183

| Tensolite Part No. | Cable type |
|--------------------|------------------------------------|
| 5730-1 | RG 55, 58, 141, 142, 223, 303, 400 |
| 5730-2 | RG 174, 188, 316, 179, 187 |

5733

**SMA male straight anti-torque
to LLF1087 flex cable**

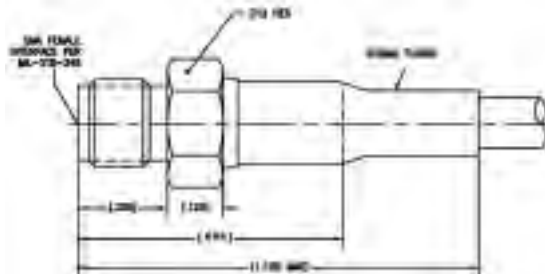


Consult factory for Assembly Instructions

| Tensolite Part No. | "A" Cable Types | ØB |
|--------------------|-----------------------------------|--------|
| 5733-1 | LLF-1087 | |
| 5733-1SF | T-Flex 405HF and Microflex Ø .095 | (.163) |
| 5733-2 | LLF-2105S | (.163) |
| 5733-3 | LLF-1141 | (.185) |
| 5733-3SF | T-Flex 402HF | |
| 5733-4CCSF | LLF301 | (.220) |
| 5733-4CC | | |
| 5733-5 | M17/152-00001 | (.163) |
| 5733-5SF | | |
| 5733-6 | LLF-2078 | (.163) |
| 5733-6SF | | |

5720

**Straight cable female
(crimp or solder
attachment)**

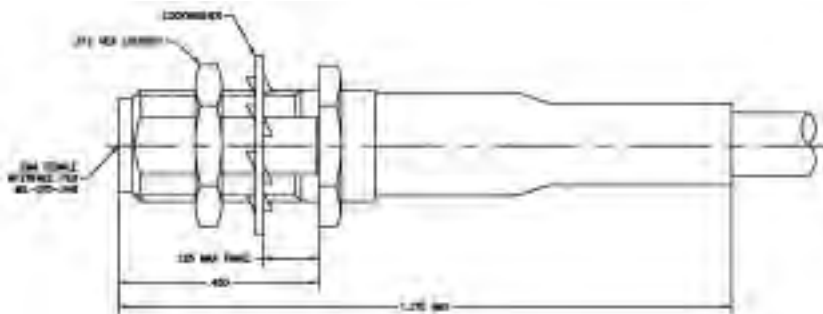


Refer to Assembly Instruction 109 on page 184

| Tensolite Part No. | Cable type |
|--------------------|------------------------------------|
| 5720-1 | RG 55, 142, 223, 400, 58, 141, 303 |
| 5720-1SF | RG 55, 142, 223, 400, 58, 141, 303 |
| 5720-2 | RG 174, 188, 316, 179, 187 |
| 5720-2SF | RG 174, 188, 316, 179, 187 |

5721

**Bulkhead feedthrough cable
female (crimp or solder
attachment)**

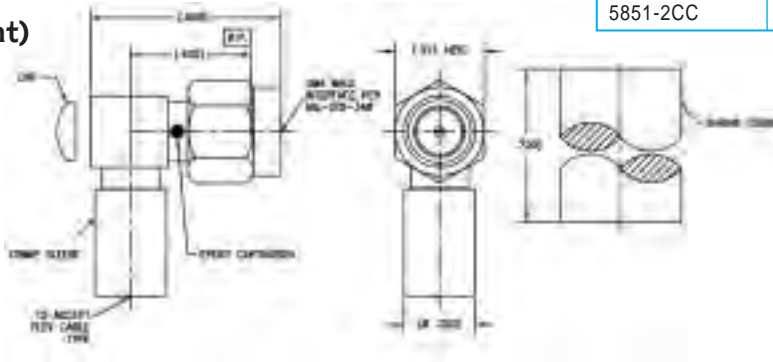


Refer to Assembly Instruction 110 on page 185

| Tensolite Part No. | Cable type |
|--------------------|------------------------------------|
| 5721-1 | RG 55, 58, 141, 142, 223, 303, 400 |
| 5721-2 | RG 174, 188, 316, 179, 187 |

5851

Right angle cable male
(crimp or solder attachment)



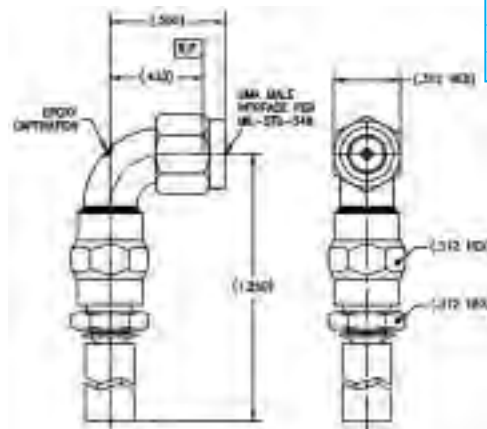
| Tensolite Part No. | Cable type |
|--------------------|------------------------------------|
| 5851-1CC | RG 55, 58, 141, 142, 223, 303, 400 |
| 5851-2CC | RG 174, 188, 316, 179, 187 |

Center conductor is captivated

Refer to Assembly Instruction 101 on page 176

5750

Radius right angle cable male



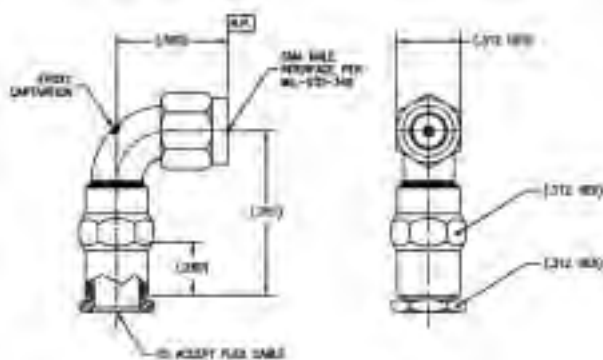
| Tensolite Part No. | Cable type |
|--------------------|---|
| 5750-1CC | RG55, RG58, RG141, RG142, RG223, RG303, RG400 |
| 5750-2CC | RG174, RG179, RG187, RG188, RG316 |

Center conductor is captivated

Refer to Assembly Instruction 116 on page 191

5752

Radius right angle cable male



| Tensolite Part No. | Cable type |
|--------------------|---|
| 5752-1CC | RG55, RG58, RG141, RG142, RG223, RG303, RG400 |
| 5752-2CC | RG174, RG179, RG187, RG188, RG316 |

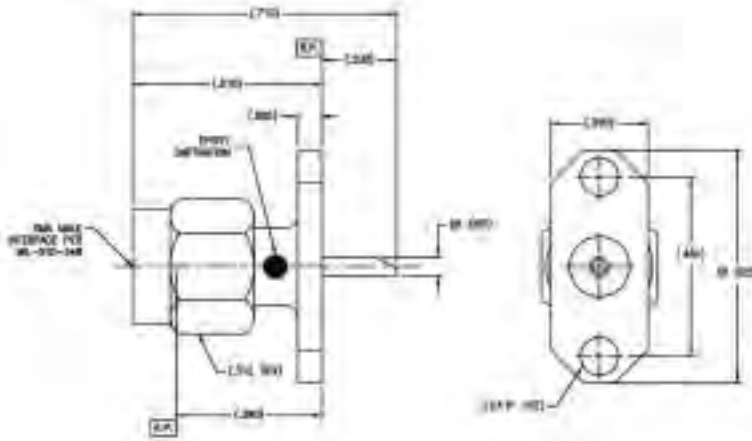
Center conductor is captivated

Refer to Assembly Instruction 121 on page 196

SMA Bulkhead & Panel Mount Solder Pot Terminations

5211CC

Two hole flange mount male

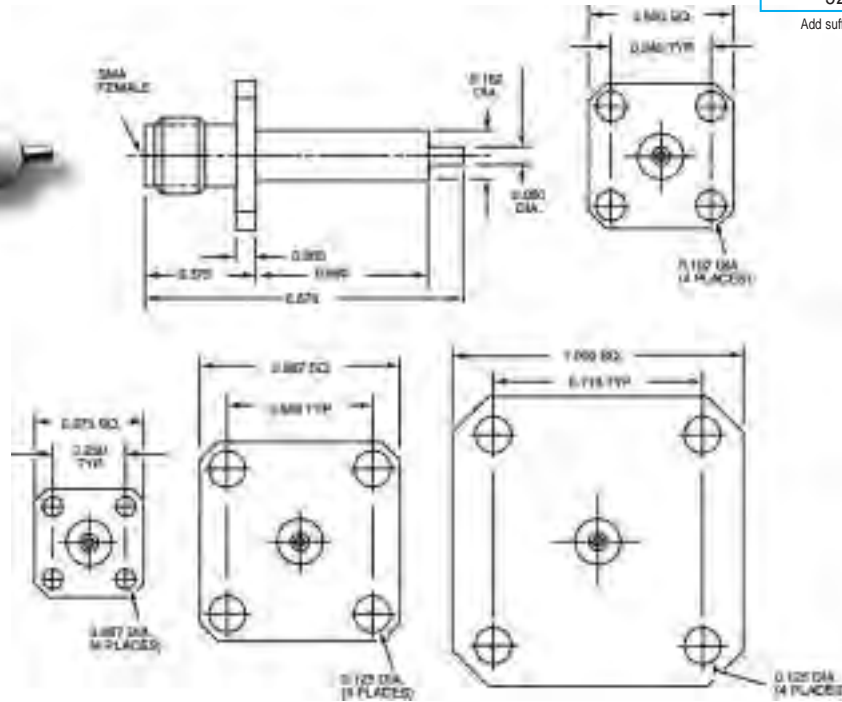


SMA Bulkhead & Panel Mount Straight Terminations

**5921, 5220,
5267, 5273**
Flange mount female

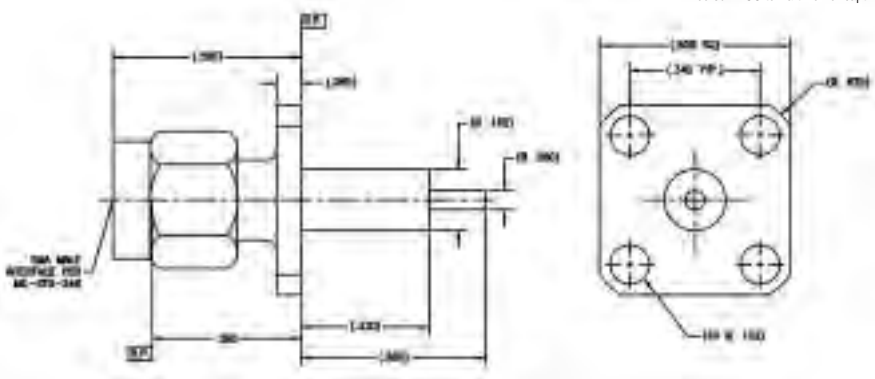
| Tensolite Part No. | Flange Size |
|--------------------|-------------|
| 5921 | .375 |
| 5220 | .500 |
| 5267 | .687 |
| 5273 | 1.000 |

Add suffix CC to Part No. for captivated contact.



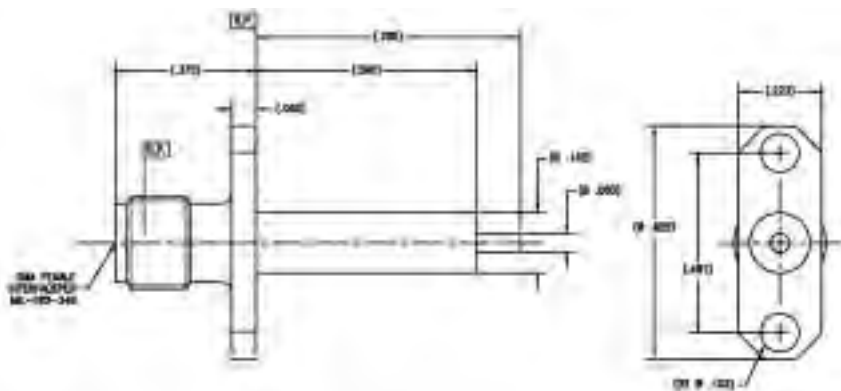
5340
Flange mount male

Add suffix CC to Part No. for captivated contact.



5032
Two hole flange mount
female

Add suffix CC to Part No. for captivated contact.



Tensolite

A CARLISLE Company

Call: 866-282-4708

Website: www.tensolite.com

Standard units are gold plated. Add suffix SF to Part Number for stainless steel finish.

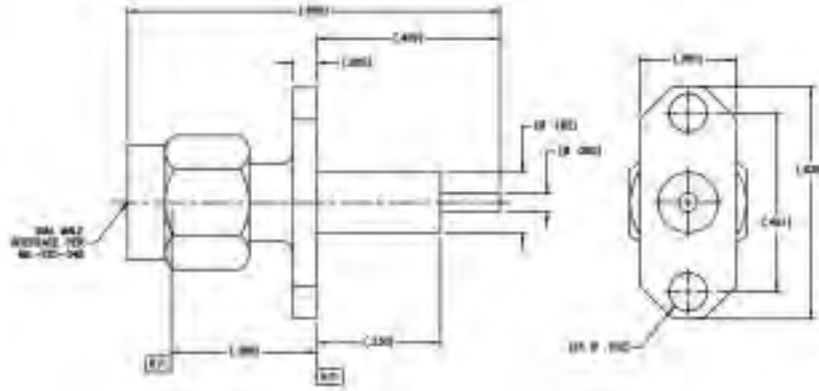
SMA Bulkhead & Panel Mount Straight Terminations

SMA Bulkhead & Panel Mount Straight Terminations

5341

Two hole flange mount male

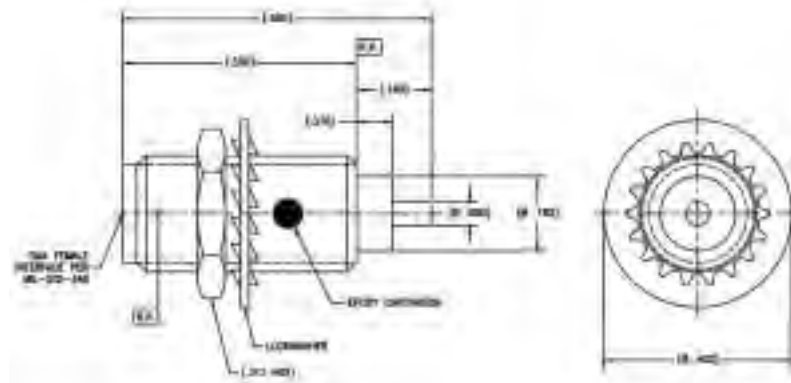
Add suffix CC to Part No. for captivated contact.



5294CC

Bulkhead feedthrough female

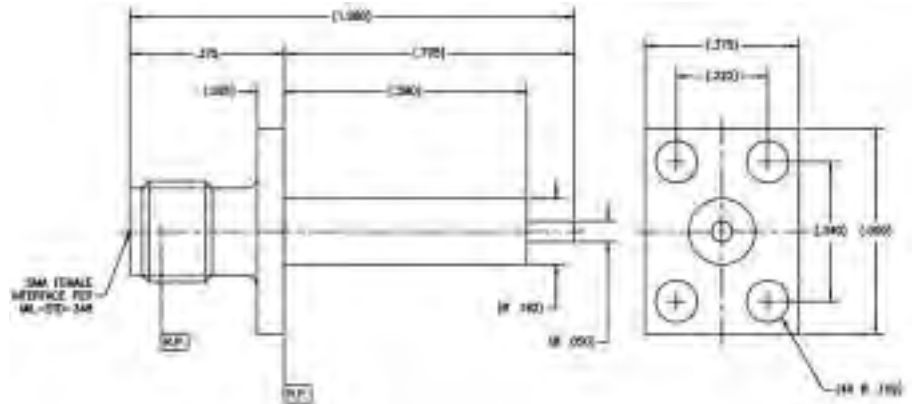
Center conductor is captivated.



5691

Flange mount female

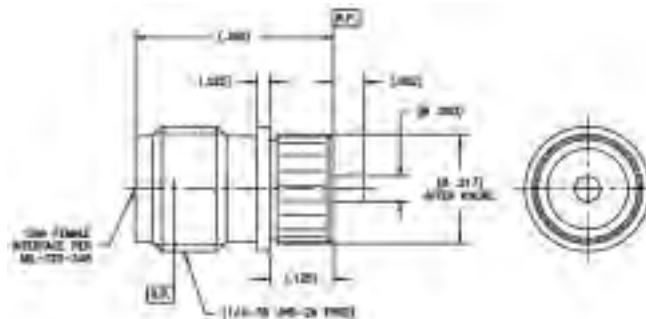
Add suffix CC to Part No. for captivated contact.



5890

Panel press mount female

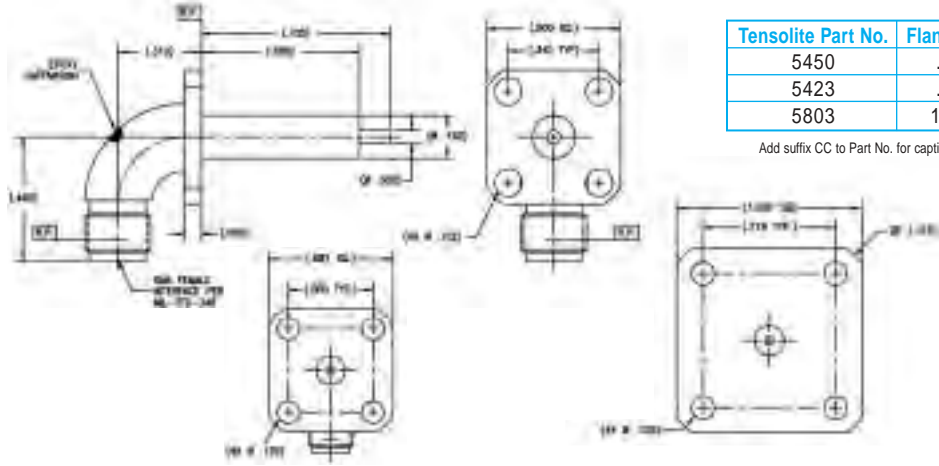
Add suffix CC to Part No. for captivated contact.



SMA Bulkhead & Panel Mount Straight Terminations

5450, 5423, 5803

Radius right angle flange mount female

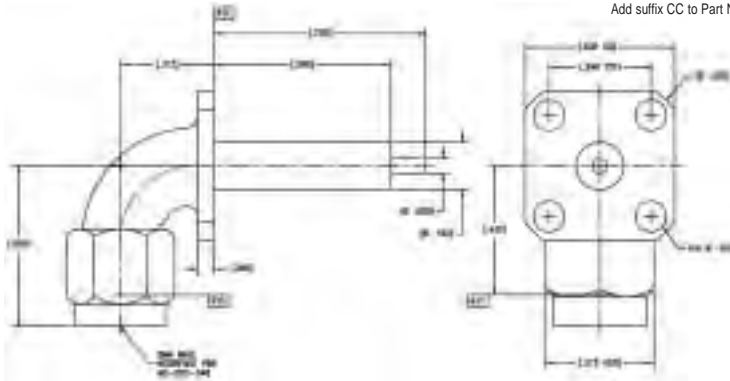


| Tensolite Part No. | Flange Size |
|--------------------|-------------|
| 5450 | .500 |
| 5423 | .687 |
| 5803 | 1.000 |

Add suffix CC to Part No. for captivated contact.

5901

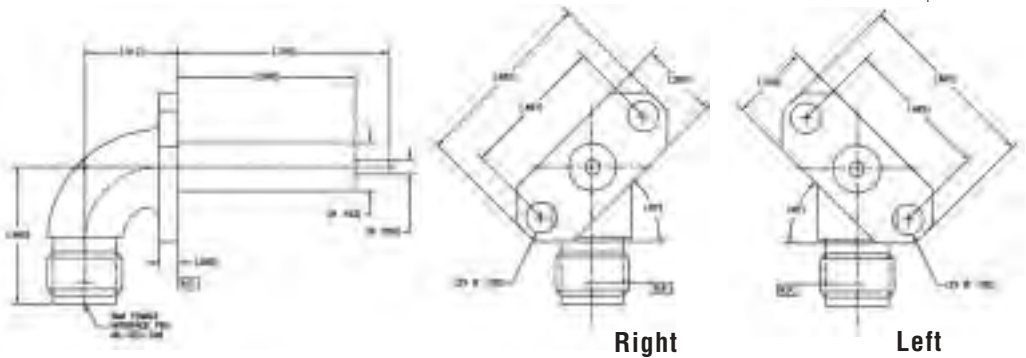
Radius right angle flange mount male



Add suffix CC to Part No. for captivated contact.

5648, 5649

Radius right angle two-hole flange mount female

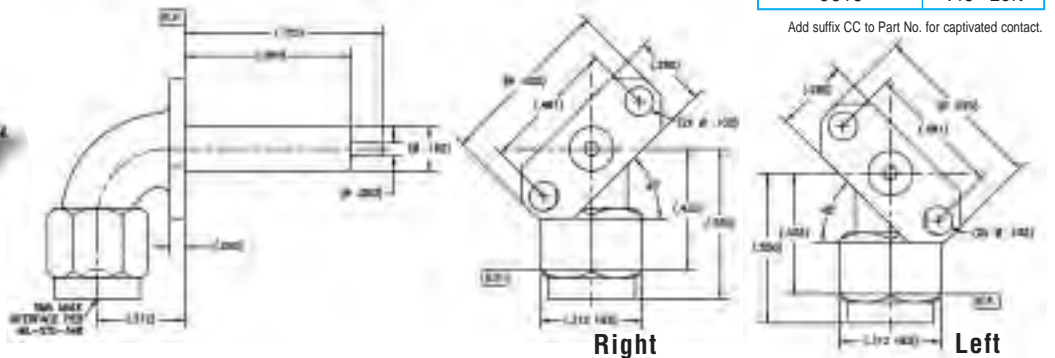


| Tensolite Part No. | Flange Angle |
|--------------------|--------------|
| 5648 | .45° Right |
| 5649 | .45° Left |

Add suffix CC to Part No. for captivated contact.

5617, 5618

Radius right angle two-hole flange mount male



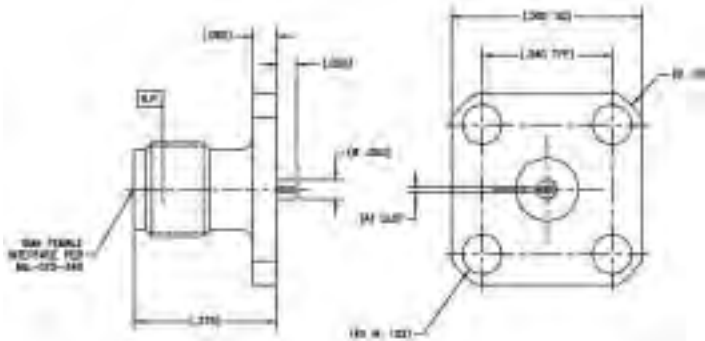
| Tensolite Part No. | Flange Angle |
|--------------------|--------------|
| 5617 | .45° Right |
| 5618 | .45° Left |

Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Slotted Terminations

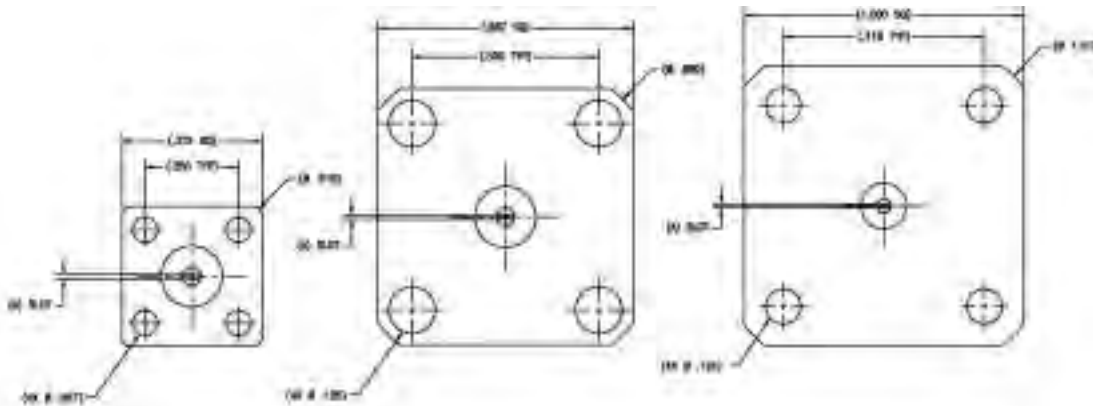
5926, 5760, 5268, 5263

Flange mount female



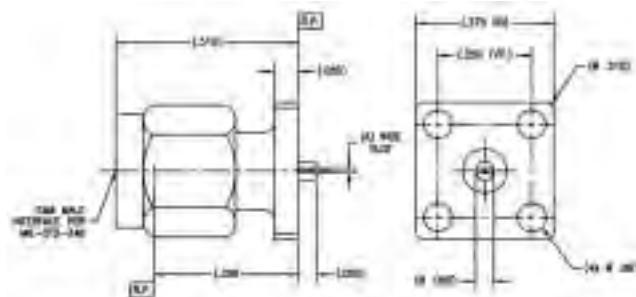
| Tensolite Part No. | "A" Slot +.003/-0.001 | Flange Size |
|--------------------|-----------------------|-------------|
| 5926-1 | .012 | .375 |
| 5926-2 | .018 | .375 |
| 5926-3 | .028 | .375 |
| 5926-4 | .036 | .375 |
| 5760-1 | .012 | .500 |
| 5760-1 | .018 | .500 |
| 5760-1 | .028 | .500 |
| 5760-1 | .036 | .500 |
| 5268-1 | .012 | .687 |
| 5268-2 | .018 | .687 |
| 5268-3 | .028 | .687 |
| 5268-4 | .036 | .687 |
| 5263-1 | .012 | 1.000 |
| 5263-2 | .018 | 1.000 |
| 5263-3 | .028 | 1.000 |
| 5263-4 | .036 | 1.000 |

Add suffix CC to Part No. for captivated contact.



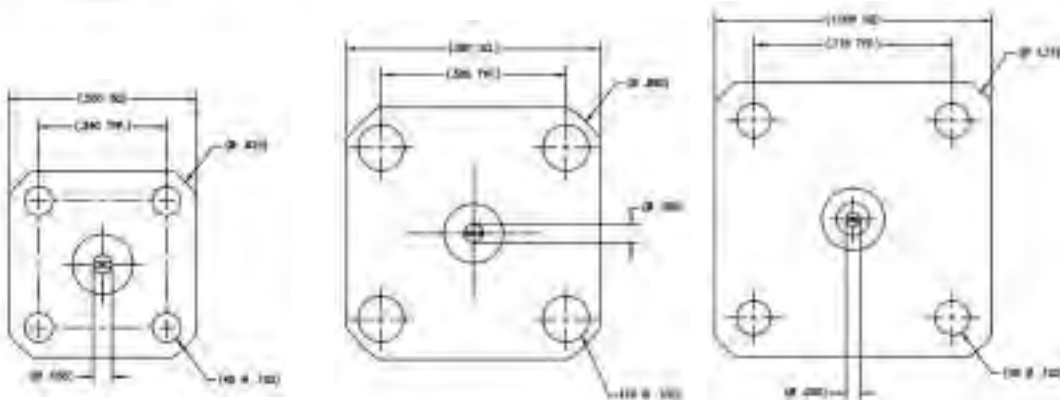
5934, 5761, 5355, 5350

Flange mount male



| Tensolite Part No. | "A" Slot +.003/-0.001 | Flange Size |
|--------------------|-----------------------|-------------|
| 5934-1 | .012 | .375 |
| 5934-2 | .018 | .375 |
| 5934-3 | .028 | .375 |
| 5934-4 | .036 | .375 |
| 5761-1 | .012 | .500 |
| 5761-1 | .018 | .500 |
| 5761-1 | .028 | .500 |
| 5761-1 | .036 | .500 |
| 5355-1 | .012 | .687 |
| 5355-2 | .018 | .687 |
| 5355-3 | .028 | .687 |
| 5355-4 | .036 | .687 |
| 5350-1 | .012 | 1.000 |
| 5350-2 | .018 | 1.000 |
| 5350-3 | .028 | 1.000 |
| 5350-4 | .036 | 1.000 |

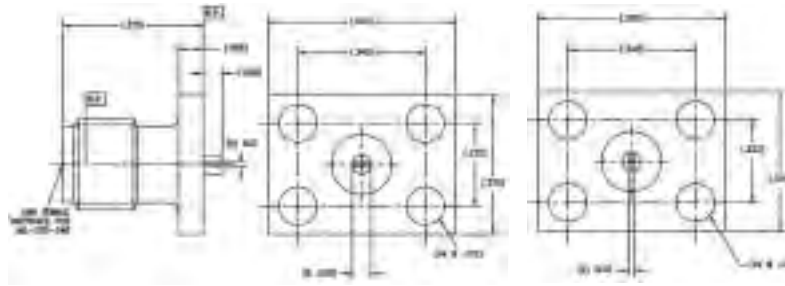
Add suffix CC to Part No. for captivated contact.



SMA Bulkhead & Panel Mount Slotted Terminations

5698, 5700

Flange mount female



Horizontal

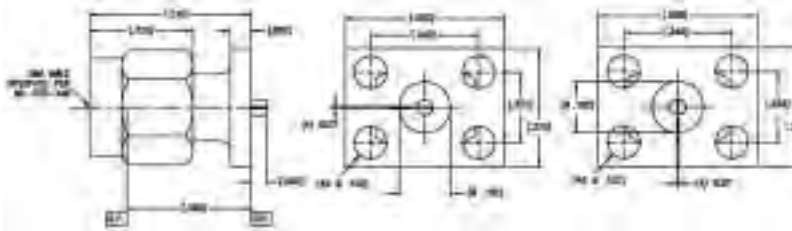
Vertical

| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5698-1 | .012 | horizontal |
| 5698-2 | .018 | horizontal |
| 5698-3 | .028 | horizontal |
| 5698-4 | .036 | horizontal |
| 5700-1 | .012 | vertical |
| 5700-2 | .018 | vertical |
| 5700-3 | .028 | vertical |
| 5700-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

5710, 5712

Flange mount male



Horizontal

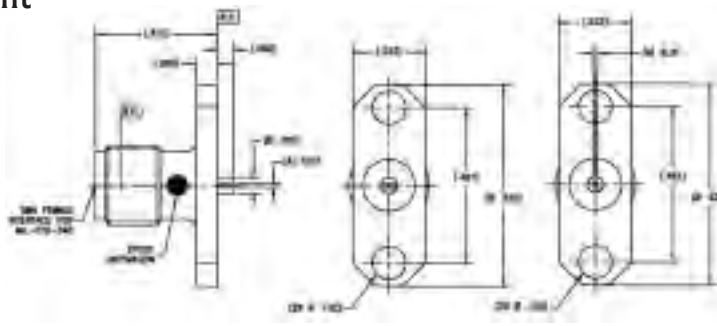
Vertical

| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5710-1 | .012 | horizontal |
| 5710-2 | .018 | horizontal |
| 5710-3 | .028 | horizontal |
| 5710-4 | .036 | horizontal |
| 5712-1 | .012 | vertical |
| 5712-2 | .018 | vertical |
| 5712-3 | .028 | vertical |
| 5712-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

5208, 5209

Two-hole flange mount female



Horizontal

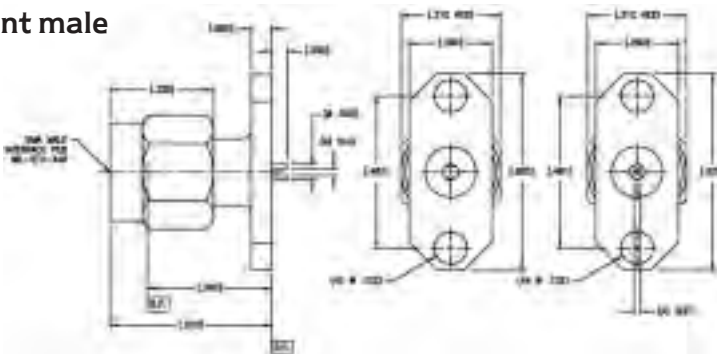
Vertical

| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5208-1 | .012 | horizontal |
| 5208-2 | .018 | horizontal |
| 5208-3 | .028 | horizontal |
| 5208-4 | .036 | horizontal |
| 5209-1 | .012 | vertical |
| 5209-2 | .018 | vertical |
| 5209-3 | .028 | vertical |
| 5209-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

5205, 5206

Two-hole flange mount male



Horizontal

Vertical

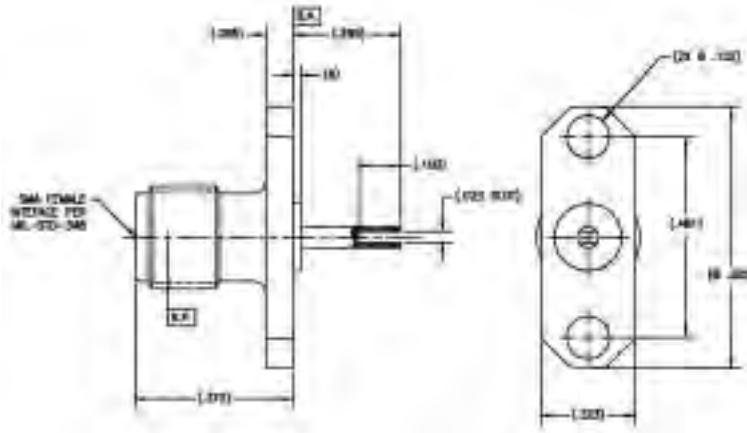
| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5205-1 | .012 | horizontal |
| 5205-2 | .018 | horizontal |
| 5205-3 | .028 | horizontal |
| 5205-4 | .036 | horizontal |
| 5206-1 | .012 | vertical |
| 5206-2 | .018 | vertical |
| 5206-3 | .028 | vertical |
| 5206-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Slotted Terminations

5230

Two-hole flange mount female

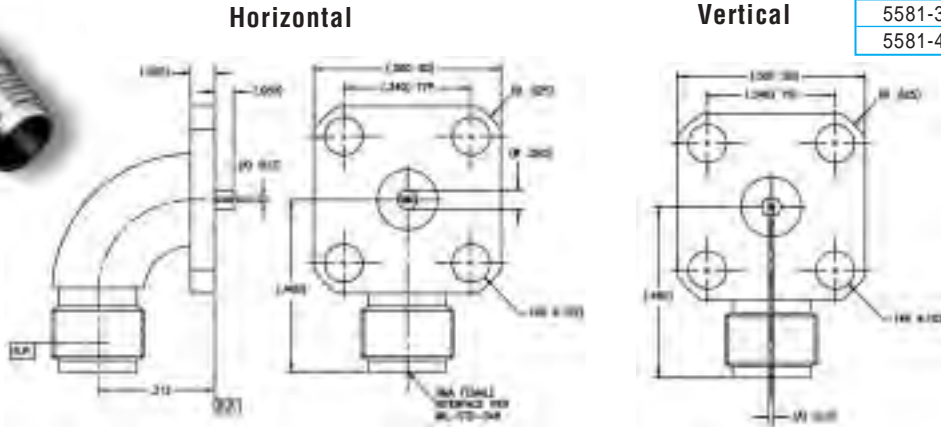


| Tensolite Part No. | "A" |
|--------------------|------|
| 5230-1 | .000 |
| 5230-2 | .020 |
| 5230-3 | .030 |

Add suffix CC to Part No. for captivated contact.

5580, 5581

Radius right angle flange mount female

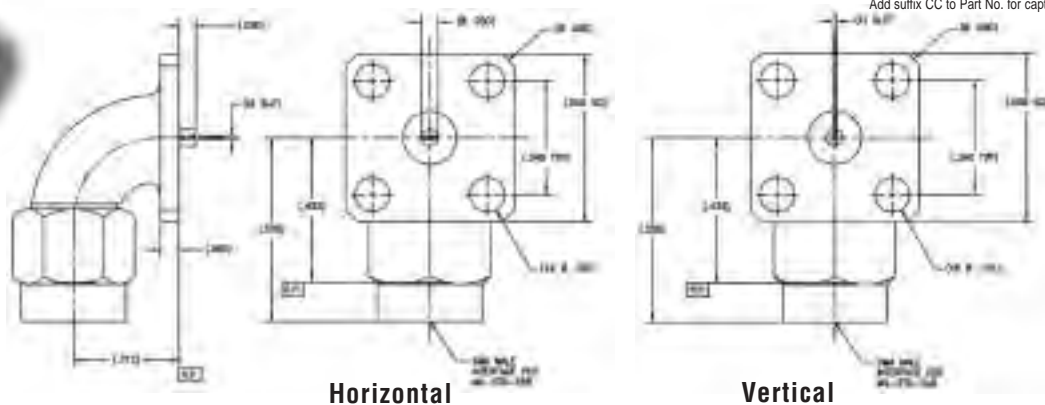


| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5580-1 | .012 | horizontal |
| 5580-2 | .018 | horizontal |
| 5580-3 | .028 | horizontal |
| 5580-4 | .036 | horizontal |
| 5581-1 | .012 | vertical |
| 5581-2 | .018 | vertical |
| 5581-3 | .028 | vertical |
| 5581-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

5595, 5596

Radius right angle flange mount female



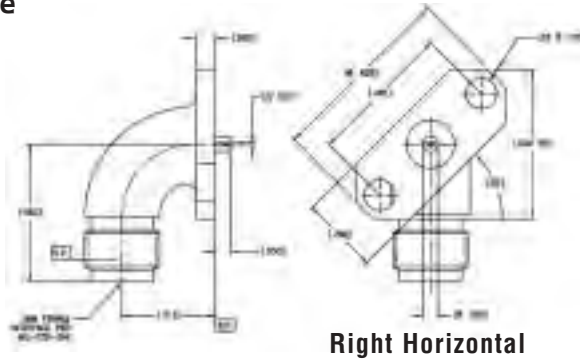
| Tensolite Part No. | "A" Slot +.003/-001 | Slot Position |
|--------------------|------------------------|---------------|
| 5595-1 | .012 | horizontal |
| 5595-2 | .018 | horizontal |
| 5595-3 | .028 | horizontal |
| 5595-4 | .036 | horizontal |
| 5596-1 | .012 | vertical |
| 5596-2 | .018 | vertical |
| 5596-3 | .028 | vertical |
| 5596-4 | .036 | vertical |

Add suffix CC to Part No. for captivated contact.

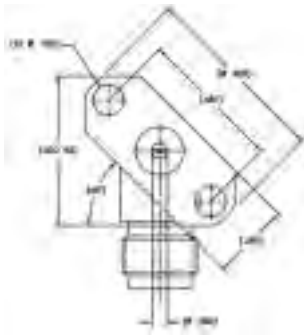
SMA Bulkhead & Panel Mount Slotted Terminations

5654, 5655, 5657, 5658

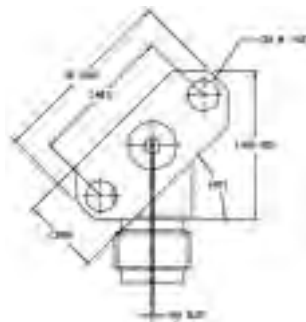
Radius right angle two-hole flange mount female



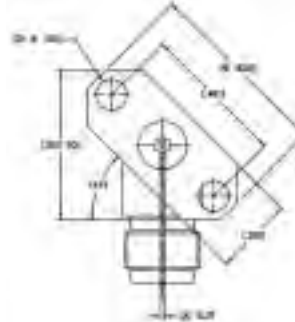
Right Horizontal



Left Horizontal



Right Vertical



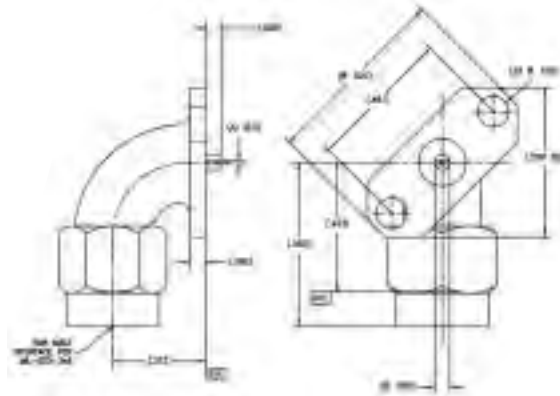
Left Vertical

| Tensolite Part No. | "A" Slot +.003/-0.001 | Flange Angle | Slot Position |
|--------------------|--------------------------|-----------------|------------------|
| 5654-1 | .012 | 45° right | Horizontal |
| 5654-2 | .018 | 45° right | Horizontal |
| 5654-3 | .028 | 45° right | Horizontal |
| 5654-4 | .036 | 45° right | Horizontal |
| 5655-1 | .012 | 45° left | Horizontal |
| 5655-2 | .018 | 45° left | Horizontal |
| 5655-3 | .028 | 45° left | Horizontal |
| 5655-4 | .036 | 45° left | Horizontal |
| 5657-1 | .012 | 45° right | Vertical |
| 5657-2 | .018 | 45° right | Vertical |
| 5657-3 | .028 | 45° right | Vertical |
| 5657-4 | .036 | 45° right | Vertical |
| 5658-1 | .012 | 45° left | Vertical |
| 5658-2 | .018 | 45° left | Vertical |
| 5658-3 | .028 | 45° left | Vertical |
| 5658-4 | .036 | 45° left | Vertical |

Add suffix CC to Part No. for captivated contact.

5626, 5627, 5629, 5630

Radius right angle two-hole flange mount male



Right Horizontal



Left Horizontal



Right Vertical



Left Vertical

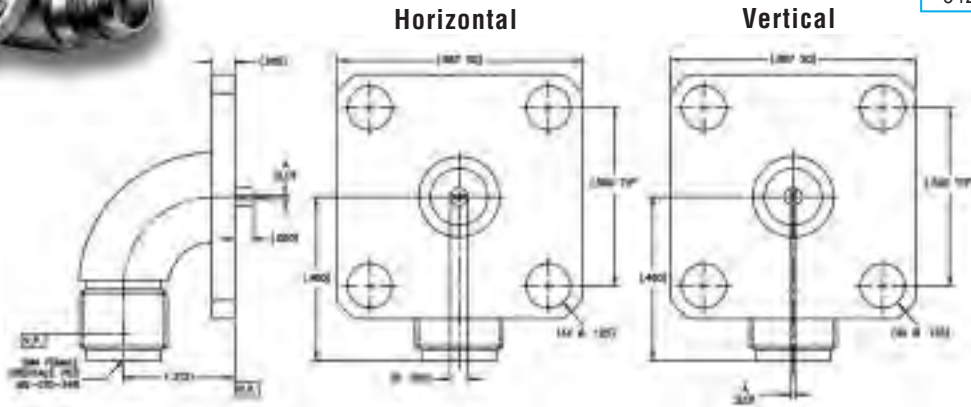
| Tensolite Part No. | "A" Slot +.003/-0.001 | Flange Angle | Slot Position |
|--------------------|--------------------------|-----------------|------------------|
| 5626-1 | .012 | 45° right | Horizontal |
| 5626-2 | .018 | 45° right | Horizontal |
| 5626-3 | .028 | 45° right | Horizontal |
| 5626-4 | .036 | 45° right | Horizontal |
| 5627-1 | .012 | 45° left | Horizontal |
| 5627-2 | .018 | 45° left | Horizontal |
| 5627-3 | .028 | 45° left | Horizontal |
| 5627-4 | .036 | 45° left | Horizontal |
| 5629-1 | .012 | 45° right | Vertical |
| 5629-2 | .018 | 45° right | Vertical |
| 5629-3 | .028 | 45° right | Vertical |
| 5629-4 | .036 | 45° right | Vertical |
| 5630-1 | .012 | 45° left | Vertical |
| 5630-2 | .018 | 45° left | Vertical |
| 5630-3 | .028 | 45° left | Vertical |
| 5630-4 | .036 | 45° left | Vertical |

Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Slotted Terminations

5420, 5421

Radius right angle flange mount female

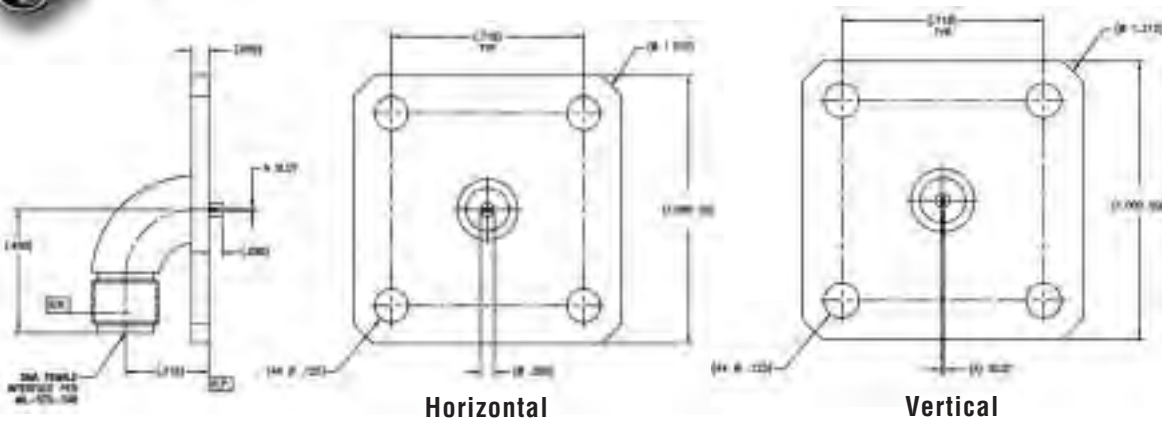


| Tensolite Part No. | "A" Slot +.003/-0.001 | Slot Position |
|--------------------|-----------------------|---------------|
| 5420-1 | .012 | Horizontal |
| 5420-2 | .018 | Horizontal |
| 5420-3 | .028 | Horizontal |
| 5420-4 | .036 | Horizontal |
| 5421-1 | .012 | Vertical |
| 5421-2 | .018 | Vertical |
| 5421-3 | .028 | Vertical |
| 5421-4 | .036 | Vertical |

Add suffix CC to Part No. for captivated contact.

5802, 5801

Radius right angle flange mount female



| Tensolite Part No. | "A" Slot +.003/-0.001 | Slot Position |
|--------------------|-----------------------|---------------|
| 5802-1 | .012 | Horizontal |
| 5802-2 | .018 | Horizontal |
| 5802-3 | .028 | Horizontal |
| 5802-4 | .036 | Horizontal |
| 5801-1 | .012 | Vertical |
| 5801-2 | .018 | Vertical |
| 5801-3 | .028 | Vertical |
| 5801-4 | .036 | Vertical |

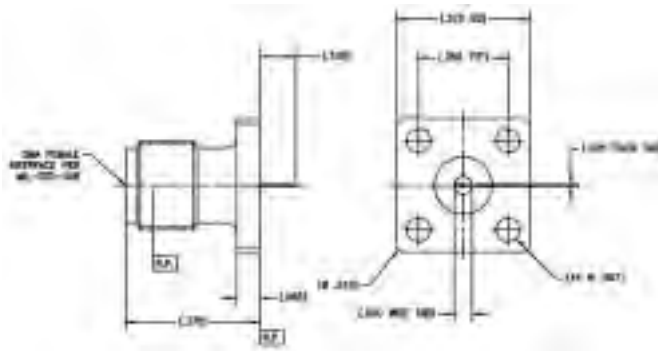
Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Slotted Terminations

SMA Bulkhead & Panel Mount Tab Terminations

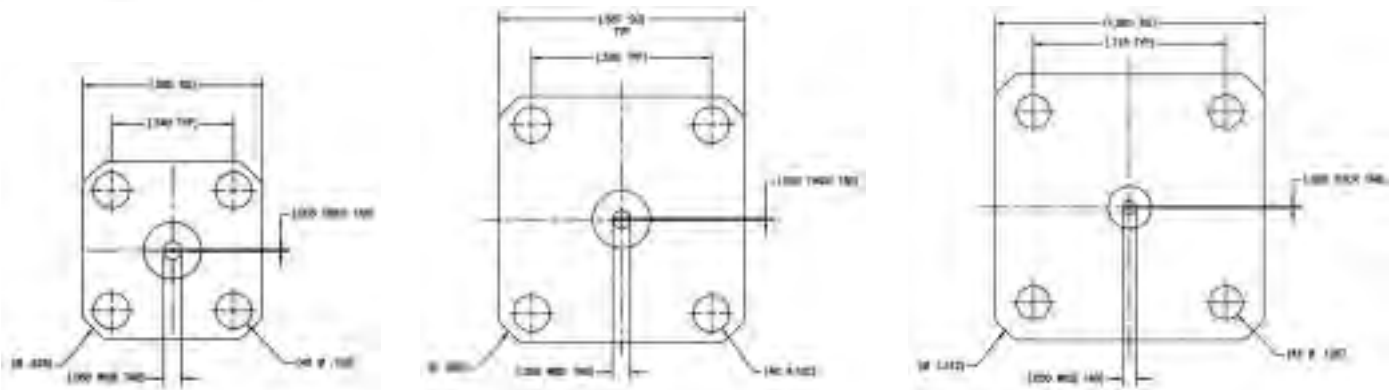
5922, 5762, 5271, 5276

Flange mount female



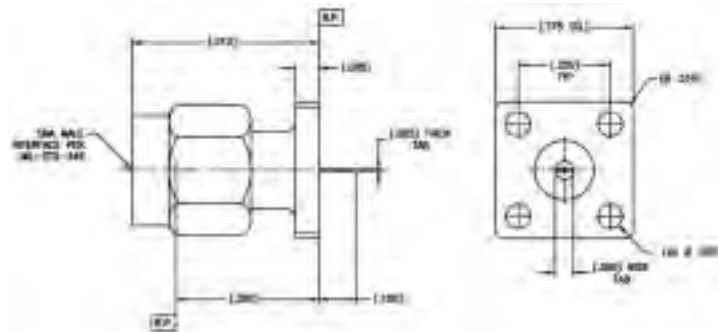
| Tensolite Part No. | Flange Size |
|--------------------|-------------|
| 5922 | .375 |
| 5762 | .500 |
| 5271 | .687 |
| 5276 | 1.000 |

Add suffix CC to Part No. for captivated contact.



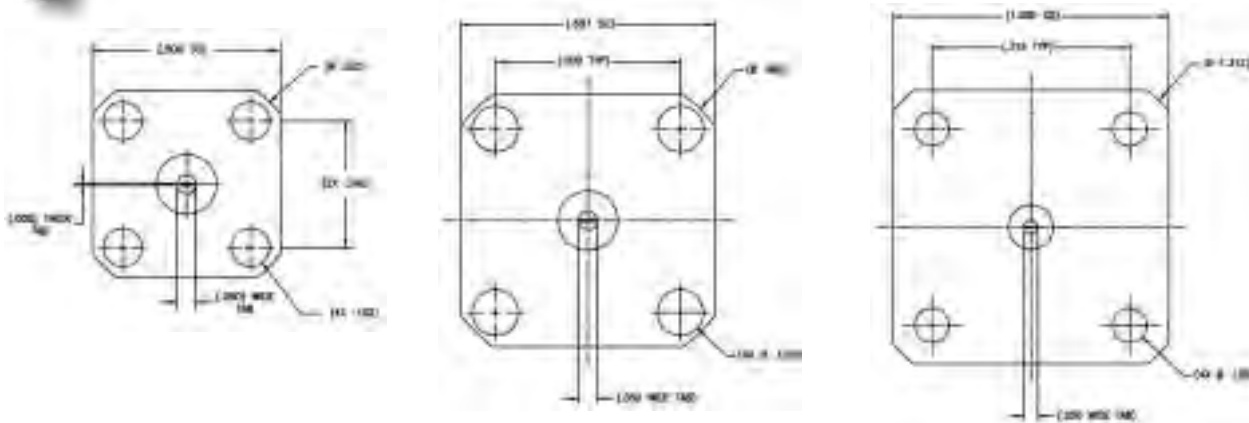
5930, 5348, 5357, 5352

Flange mount male



| Tensolite Part No. | Flange Size |
|--------------------|-------------|
| 5930 | .375 |
| 5348 | .500 |
| 5357 | .687 |
| 5352 | 1.000 |

Add suffix CC to Part No. for captivated contact.

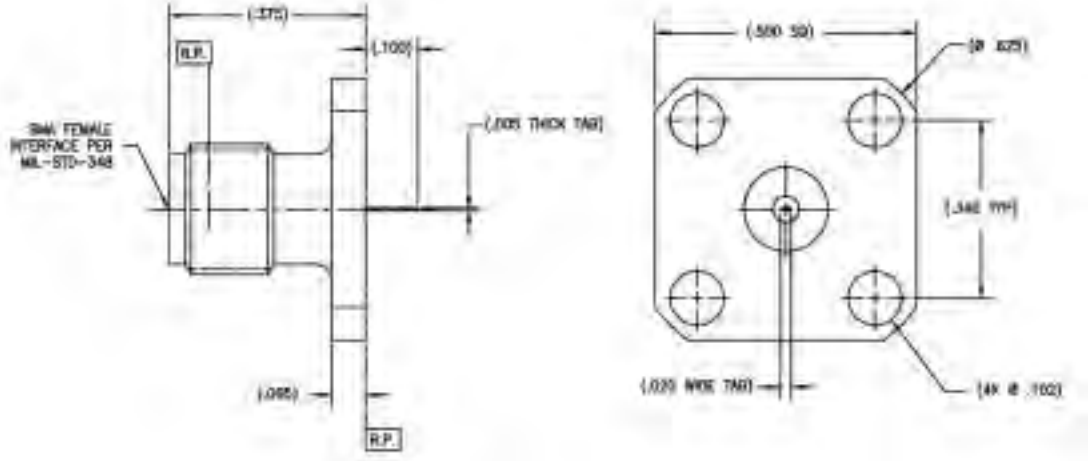


SMA Bulkhead & Panel Mount Tab Terminations

Add suffix CC to Part No. for captivated contact.

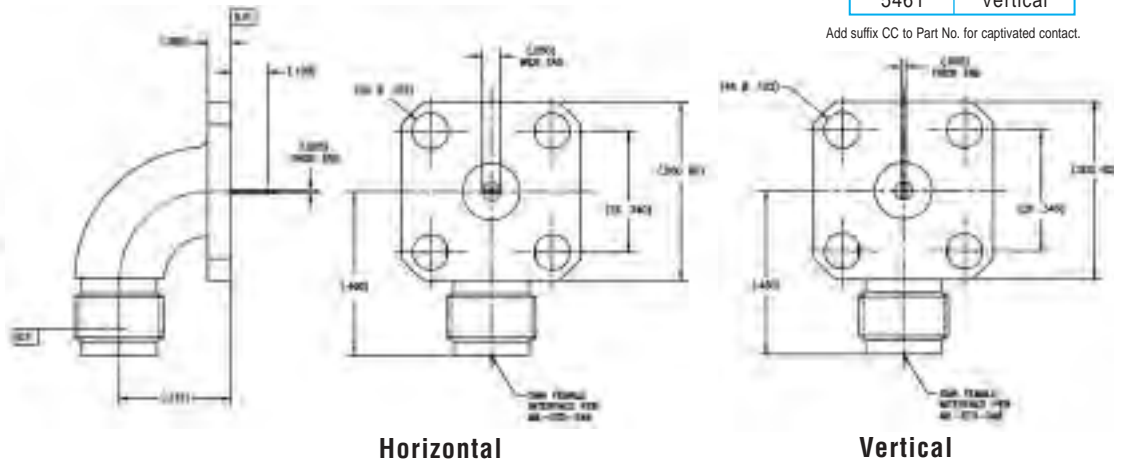
5763

Flange mount female
.020 wide tab



5460, 5461

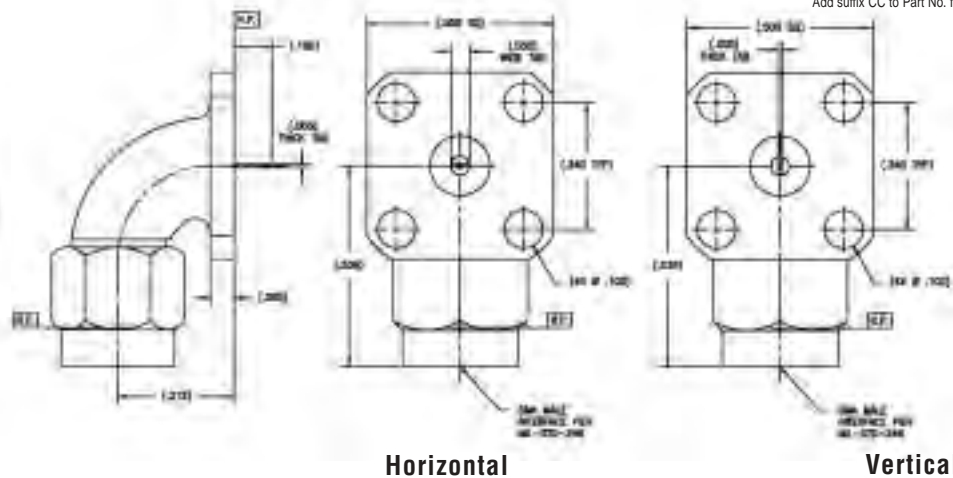
Radius right angle
flange mount female



Add suffix CC to Part No. for captivated contact.

5880, 5881

Radius right angle
flange mount male

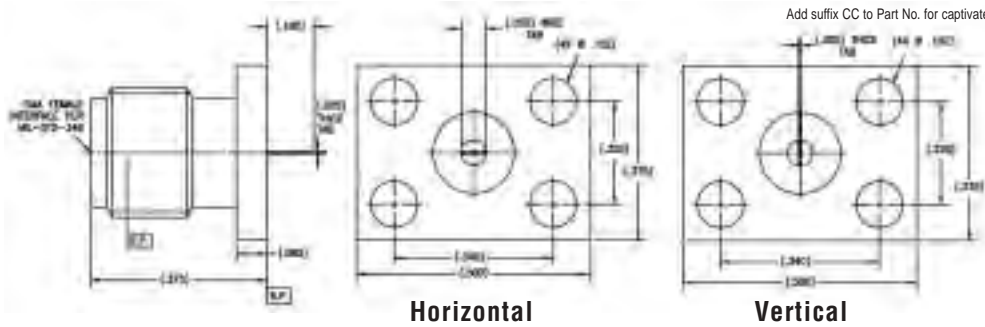


Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Tab Terminations

5692, 5694

Rectangular flange mount female

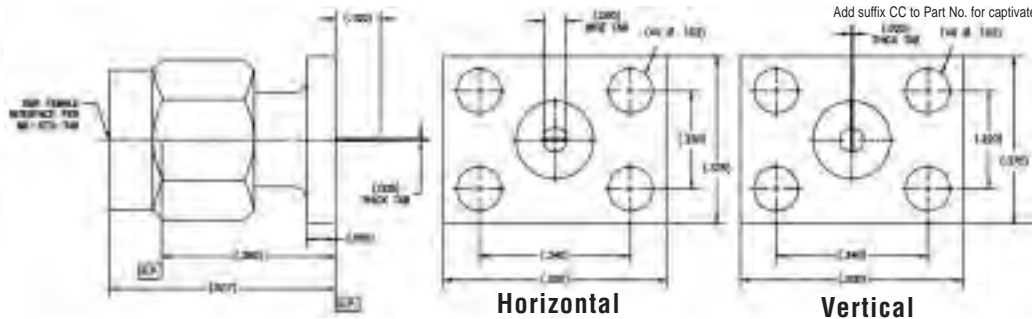


| Tensolite Part No. | Tab Position |
|--------------------|--------------|
| 5692 | Horizontal |
| 5694 | Vertical |

Add suffix CC to Part No. for captivated contact.

5704, 5706

Rectangular flange mount male

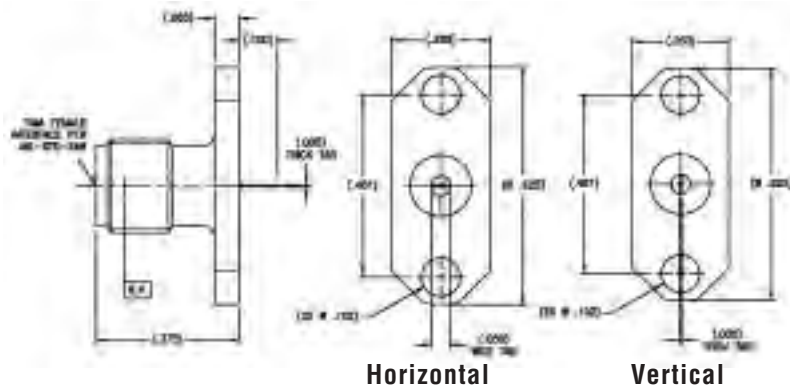


| Tensolite Part No. | Tab Position |
|--------------------|--------------|
| 5704 | Horizontal |
| 5706 | Vertical |

Add suffix CC to Part No. for captivated contact.

5250, 5251

Two hole flange mount female

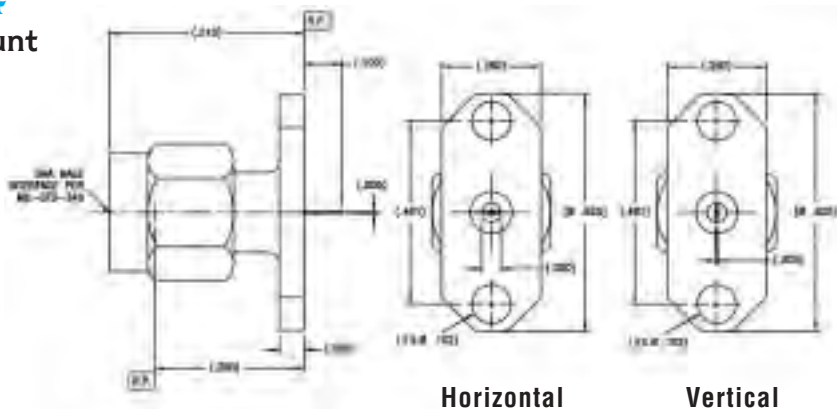


| Tensolite Part No. | Tab Position |
|--------------------|--------------|
| 5250 | Horizontal |
| 5251 | Vertical |

Add suffix CC to Part No. for captivated contact.

5343, 5344

Two hole flange mount male



| Tensolite Part No. | Tab Position |
|--------------------|--------------|
| 5343 | Horizontal |
| 5344 | Vertical |

Add suffix CC to Part No. for captivated contact.

SMA Bulkhead & Panel Mount Tab Terminations

SMA Bulkhead & Panel Mount Female Contact Terminations (Field Replaceables)

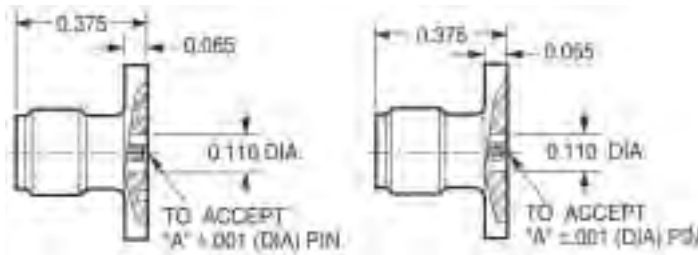
SMA Bulkhead & Panel Mount Female Contact Terminations (Field Replaceables)

Flange mount female airsection design style



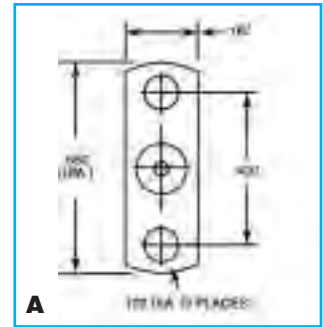
| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. | | | |
|---|-------------------------------|---------------------|-------|-------|-------|-------|
| 5601- | 5674- | 2 hole, .187 x .550 | A | | | |
| 5685- | 5681- | 2 hole, .223 x .625 | B | | | |
| 5935- | 5923- | 4 hole, .375 x .375 | C | | | |
| 5715- | 5717- | 4 hole, .375 x .500 | D | | | |
| 5684- | 5680- | 4 hole, .500 x .500 | E | | | |
| Select -1CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long | | | | | | |
| Dash No. | -1CC | -2CC | -3CC | -4CC | -5CC | -6CC |
| "A" ± .001 | .0360 | .0200 | .0100 | .0120 | .0150 | .0180 |

Center conductor is mechanically captivated.

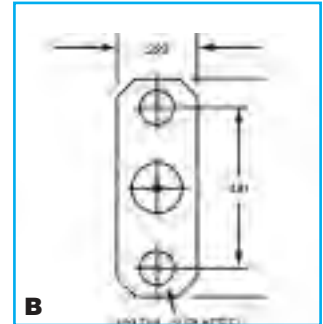


With Conductive Gasket

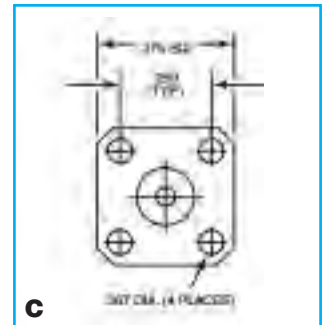
Without Conductive Gasket



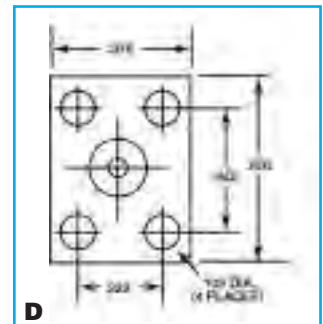
A



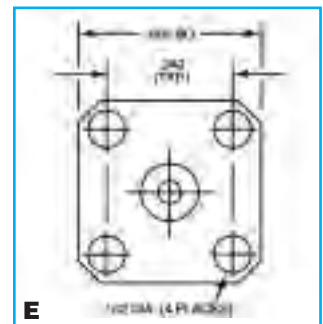
B



C



D



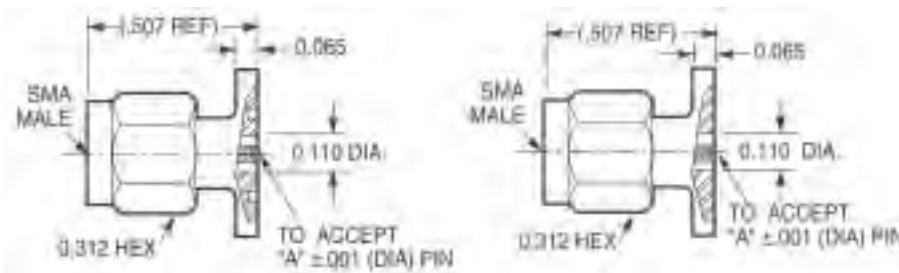
E

Flange mount male airsection design style



| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. | | | |
|---|-------------------------------|---------------------|-------|-------|-------|-------|
| 5633- | 5675- | 2 hole, .187 x .550 | A | | | |
| 5687- | 5683- | 2 hole, .223 x .625 | B | | | |
| 5936- | 5925- | 4 hole, .375 x .375 | C | | | |
| 5716- | 5718- | 4 hole, .375 x .500 | D | | | |
| 5686- | 5780- | 4 hole, .500 x .500 | E | | | |
| Select -1CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long | | | | | | |
| Dash No. | -1CC | -2CC | -3CC | -4CC | -5CC | -6CC |
| "A" ± .001 | .0360 | .0200 | .0100 | .0120 | .0150 | .0180 |

Center conductor is mechanically captivated.



With Conductive Gasket

Without Conductive Gasket

SMA Bulkhead & Panel Mount Female Contact Terminations (Field Replaceables)

Flange mount female flush PTFE design style (mechanical captivation)

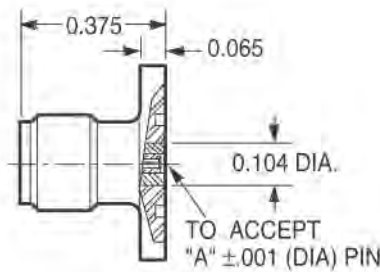


| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. |
|--------------------------------|-------------------------------|---------------------|------|
| 5634- | 5678- | 2 hole, .187 x .550 | A |
| 5602- | 5663- | 2 hole, .223 x .625 | B |
| 5603- | 5941- | 4 hole, .375 x .375 | C |
| 5605- | 5668- | 4 hole, .375 x .500 | D |
| 5604- | 5665- | 4 hole, .500 x .500 | E |

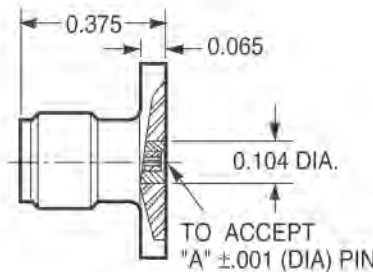
Select -2CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long

| Dash No. | -2CC | -3CC | -4CC | -5CC | -6CC |
|-----------|-------|-------|-------|-------|-------|
| "A" ±.001 | .0200 | .0100 | .0120 | .0150 | .0180 |

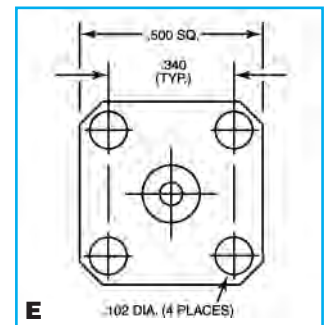
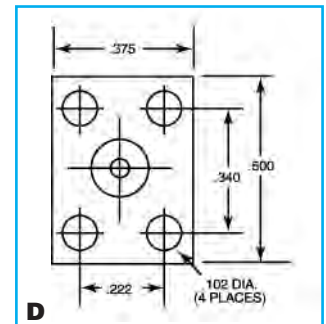
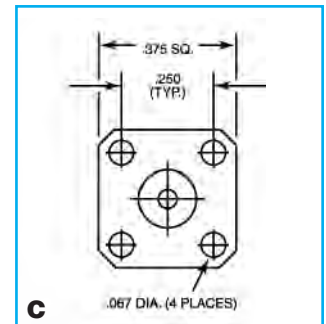
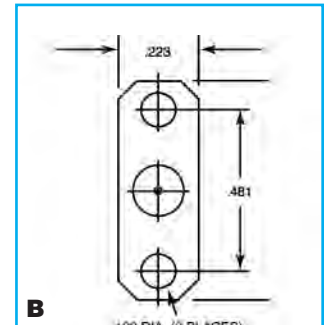
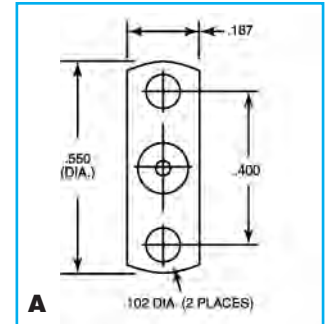
Center conductor is mechanically captivated.



With Conductive Gasket



Without Conductive Gasket



Flange mount male flush PTFE design style (mechanical captivation)

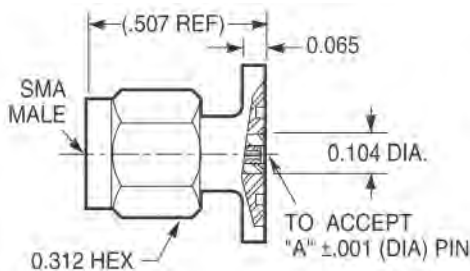


| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. |
|--------------------------------|-------------------------------|---------------------|------|
| 5635- | 5679- | 2 hole, .187 x .550 | A |
| 5606- | 5664- | 2 hole, .223 x .625 | B |
| 5607- | 5942- | 4 hole, .375 x .375 | C |
| 5609- | 5669- | 4 hole, .375 x .500 | D |
| 5608- | 5666- | 4 hole, .500 x .500 | E |

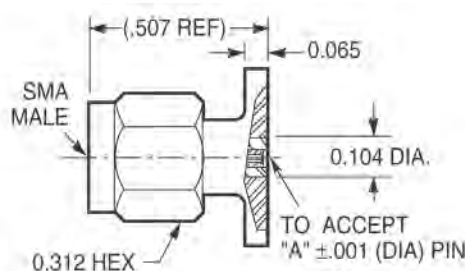
Select -2CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long

| Dash No. | -2CC | -3CC | -4CC | -5CC | -6CC |
|-----------|-------|-------|-------|-------|-------|
| "A" ±.001 | .0200 | .0100 | .0120 | .0150 | .0180 |

Center conductor is mechanically captivated.



With Conductive Gasket



Without Conductive Gasket

SMA Bulkhead & Panel Mount Female Contact Terminations (Field Replaceables)

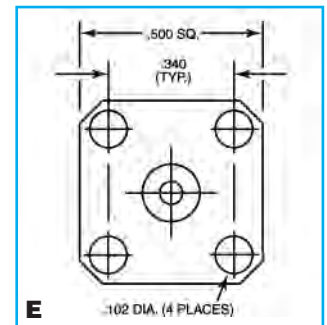
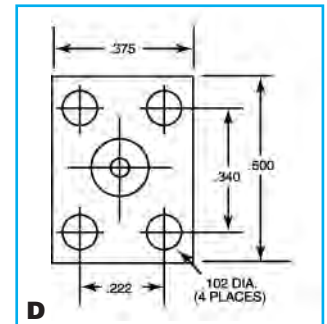
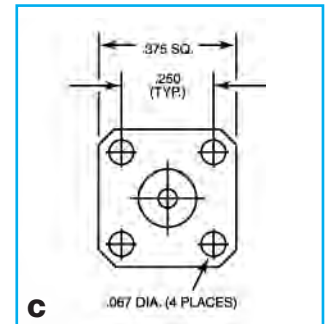
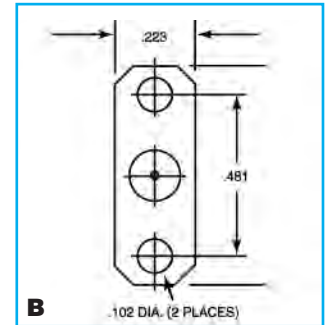
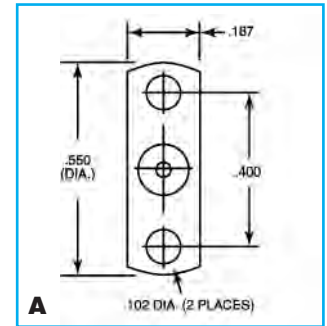
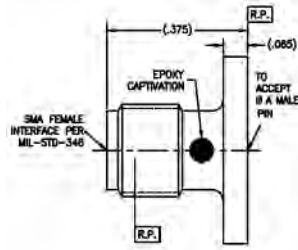
SMA Bulkhead & Panel Mount Female Contact Terminations (Field Replaceables)

Flange mount female flush PTFE design style



| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. | | | |
|---|-------------------------------|---------------------|-------|-------|-------|-------|
| N/A | N/A | 2 hole, .187 x .550 | A | | | |
| N/A | 5981- | 2 hole, .223 x .625 | B | | | |
| N/A | 5937- | 4 hole, .375 x .375 | C | | | |
| N/A | 5734- | 4 hole, .375 x .500 | D | | | |
| N/A | 5980- | 4 hole, .500 x .500 | E | | | |
| Select -1CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long | | | | | | |
| Dash No. | -1CC | -2CC | -3CC | -4CC | -5CC | -6CC |
| "A" ± .001 | .0360 | .0200 | .0100 | .0120 | .0150 | .0180 |

Center conductor is epoxy captivated.

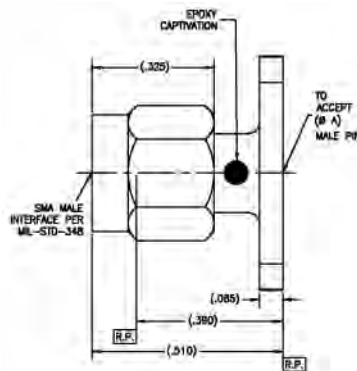


Flange mount male flush PTFE design style



| Tensolite Part No. with gasket | Tensolite Part No. w/o gasket | Flange Size | Fig. | | | |
|---|-------------------------------|---------------------|-------|-------|-------|-------|
| N/A | N/A | 2 hole, .187 x .550 | A | | | |
| N/A | 5983- | 2 hole, .223 x .625 | B | | | |
| N/A | 5938- | 4 hole, .375 x .375 | C | | | |
| N/A | 5714- | 4 hole, .375 x .500 | D | | | |
| N/A | 5982- | 4 hole, .500 x .500 | E | | | |
| Select -1CC thru -6CC size female contact to accept "A" diameter pin x 0.090 long | | | | | | |
| Dash No. | -1CC | -2CC | -3CC | -4CC | -5CC | -6CC |
| "A" ± .001 | .0360 | .0200 | .0100 | .0120 | .0150 | .0180 |

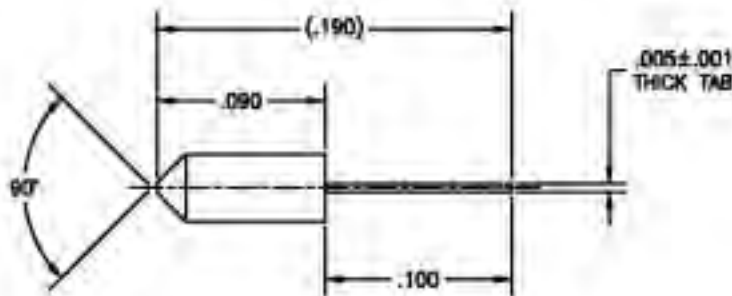
Center conductor is epoxy captivated.



SMA Bulkhead & Panel Mount Female Contact Terminations

1345-1

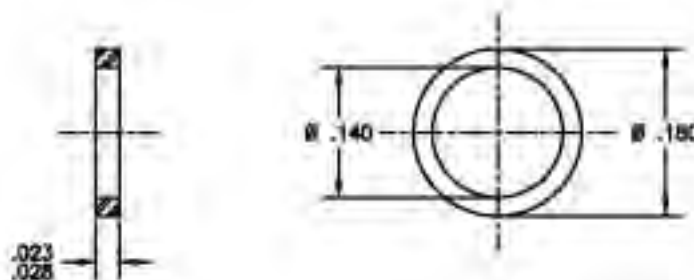
Center conductor



| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 1345-1 | .036 | .020 |
| 1345-2 | .036 | .050 |
| 1345 | .020 | .020 |

SMA EMI/RFI Gaskets

1604-11



| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 1604-11 | .180 | .140 |

Material: Conductive Silver/Silicone Elastomers

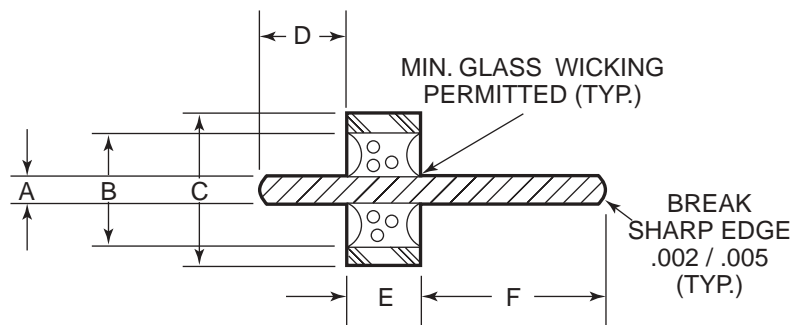
SMA Solder and Braze-in Hermetic Seal

4004



| Tensolite Part No. | "A" | "B" | "C" | "D" | "E" | "F" |
|--------------------|-------------|-------------|-------------|-----------|-------------|------|
| 4004-5 | .0120±.0005 | .078 (REF.) | .0985±.0015 | .079/.065 | .0625±.0025 | .180 |
| 4004-9 | .0150±.0005 | .082 (REF.) | .0985±.0015 | .079/.065 | .0630±.0025 | .180 |
| 4004-11 | .0180±.0005 | .099 (REF.) | .1115±.0015 | .079/.065 | .0625±.0025 | .180 |
| 4004-13 | .0200±.0005 | .129 (REF.) | .1580±.0015 | .067/.053 | .0625±.0025 | .205 |

Glass Seal Assembly Material and Finishes:
Outer Ring & Pin: Kovar, gold plated per MIL-G-45204, Type II, Class I, Grade C
Glass Bead: #7052



SMA Bulkhead & Panel Mount Hermetically Sealed Connectors

5961CC, 5962CC, 5964CC, 5967CC

Bulkhead feed through female
hermetically sealed

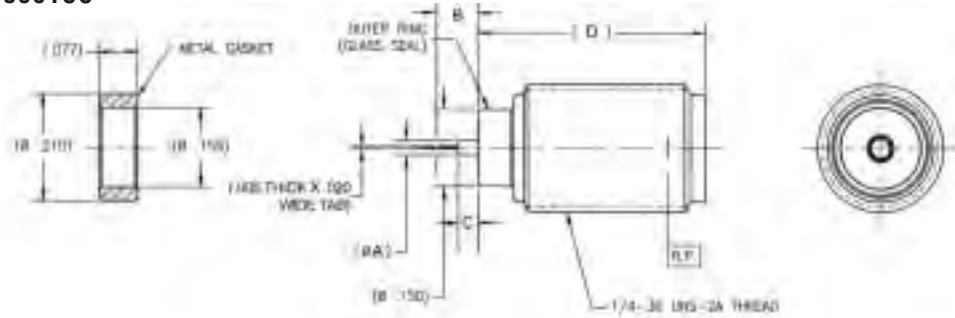
| Tensolite Part No. | Ø "A" | "B" | "C" | "D" |
|--------------------|-------|------|------|------|
| 5961CC | .028 | .080 | .040 | .451 |
| 5962CC | .028 | .080 | .040 | .451 |
| 5964CC | .064 | .080 | .040 | .451 |
| 5967CC | .020 | .115 | — | .500 |

Center contact is captivated.

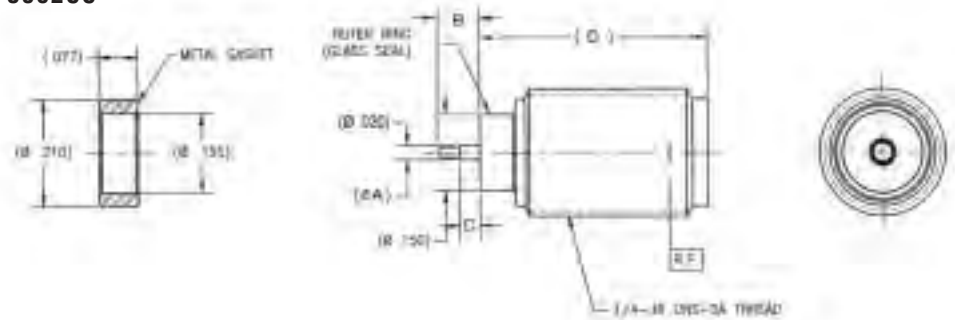


5964CC

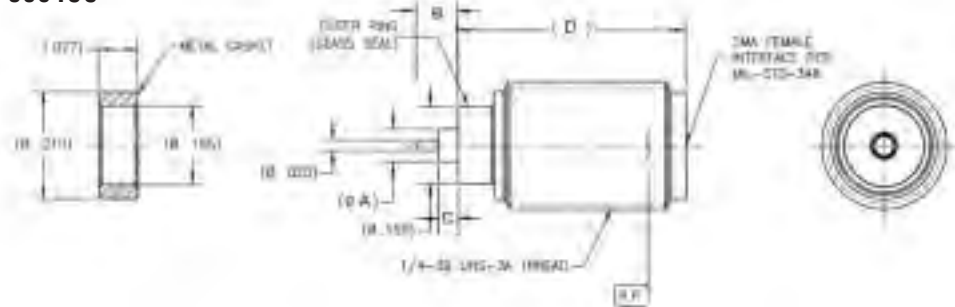
5961CC



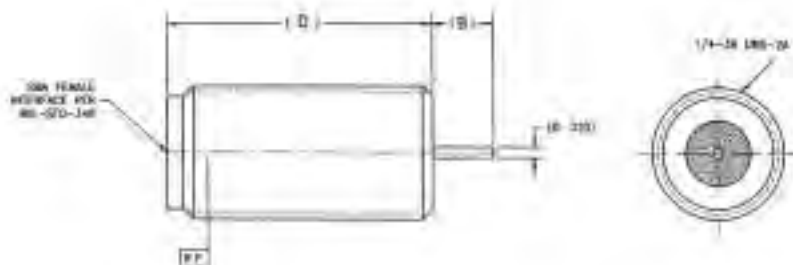
5962CC



5964CC



5967CC



SMA Bulkhead & Panel Mount Hermetically Sealed Connectors

SMA Bulkhead & Panel Mount Hermetically Sealed Connectors

5971CC, 5972

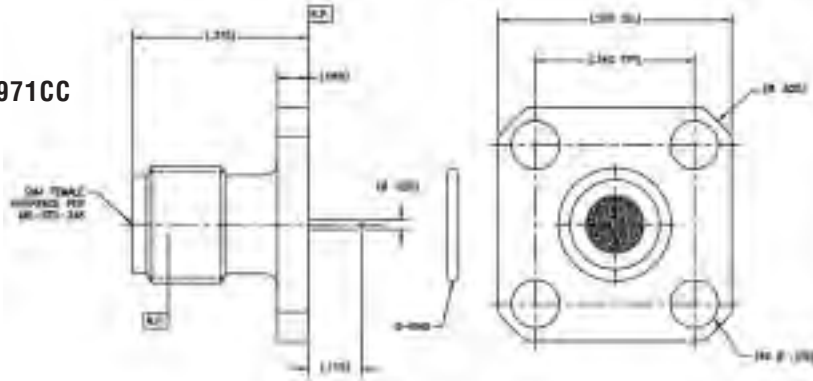
Flange mount SMA female hermetically sealed

| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 5971CC | — | .490 |
| 5972-1CC | .093 | .583 |
| 5972-2CC | .125 | .615 |
| 5972-3CC | .187 | .677 |

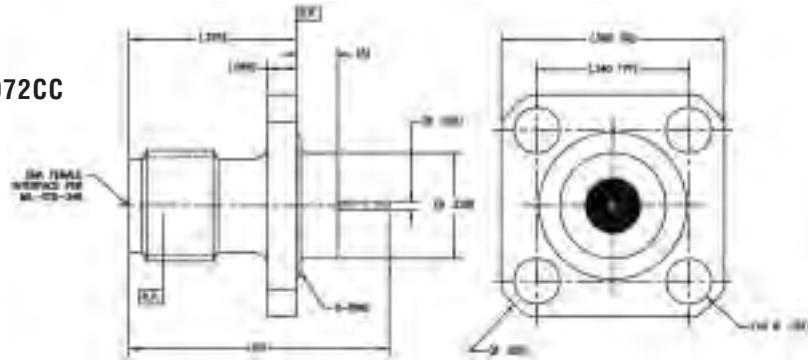
Center contact is captivated.



5971CC



5972CC



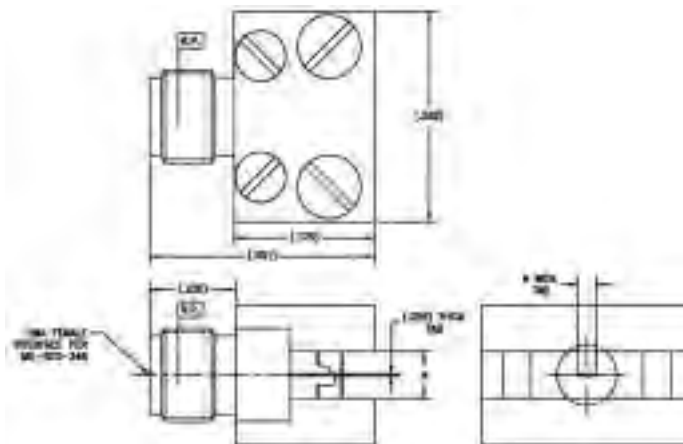
SMA Strip Transmission Line Terminations

5246

Edge mount female stripline

| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 5246-1 | .062 | .025 |
| 5246-2 | .125 | .050 |
| 5246-3 | .250 | .050 |

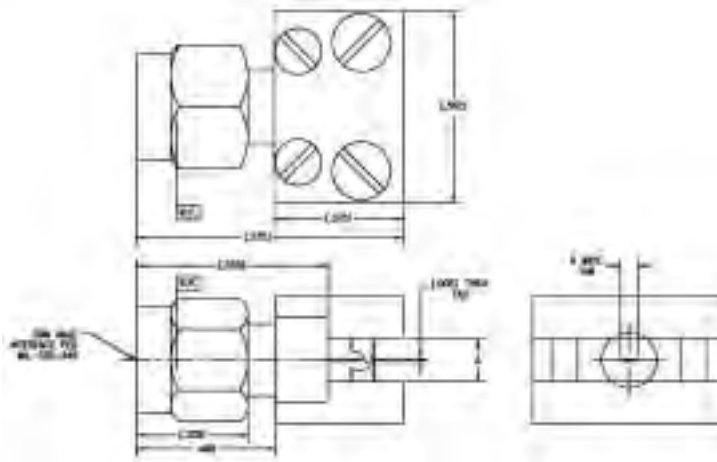
Add suffix CC to part number for captivated contact.



SMA Strip Transmission Line Terminations

5361

Edge mount male stripline

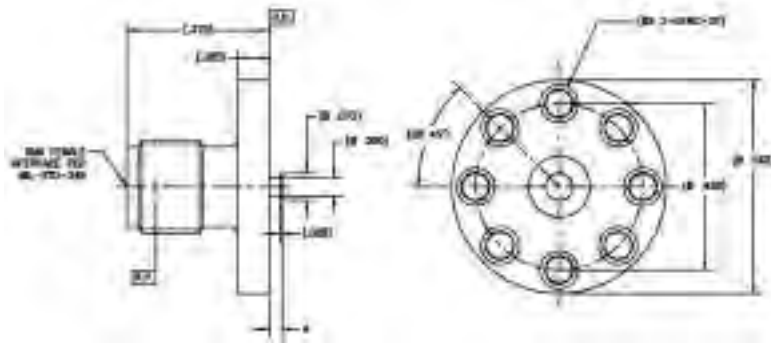


| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 5361-1 | .062 | .025 |
| 5361-2 | .125 | .050 |
| 5361-3 | .250 | .050 |

Add suffix CC to part number for captivated contact.

5240

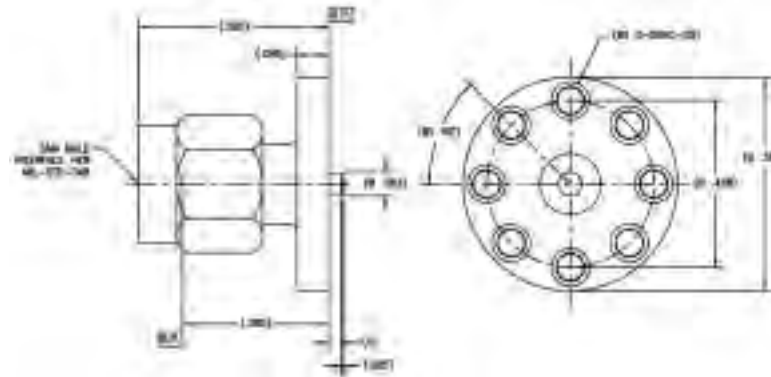
Surface mount female stripline



| Tensolite Part No. | "A" |
|--------------------|------|
| 5240-1 | .032 |
| 5240-2 | .062 |
| 5240-3 | .094 |
| 5240-4 | .125 |

5320

Surface mount male stripline

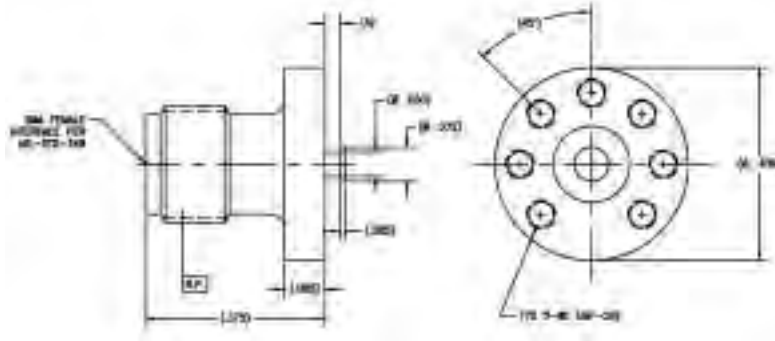


| Tensolite Part No. | "A" |
|--------------------|------|
| 5320-1 | .032 |
| 5320-2 | .062 |
| 5320-3 | .094 |
| 5320-4 | .125 |

SMA Strip Transmission Line Terminations

5280

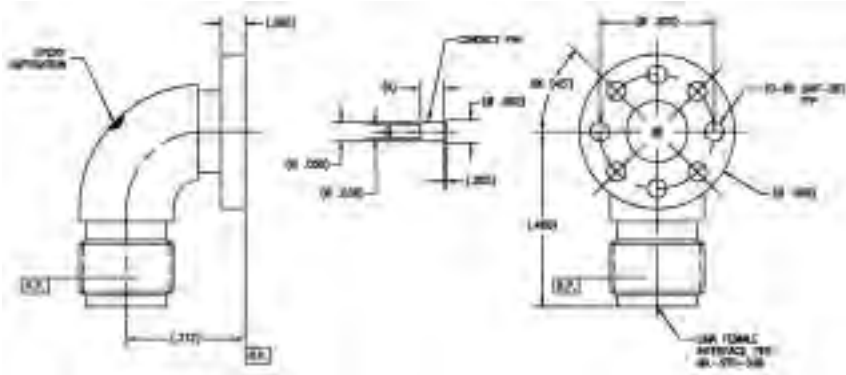
Surface mount female stripline



| Tensolite Part No. | "A" |
|--------------------|------|
| 5280-1 | .032 |
| 5280-2 | .062 |
| 5280-3 | .094 |
| 5280-4 | .125 |

5416

Radius right angle surface mount female stripline

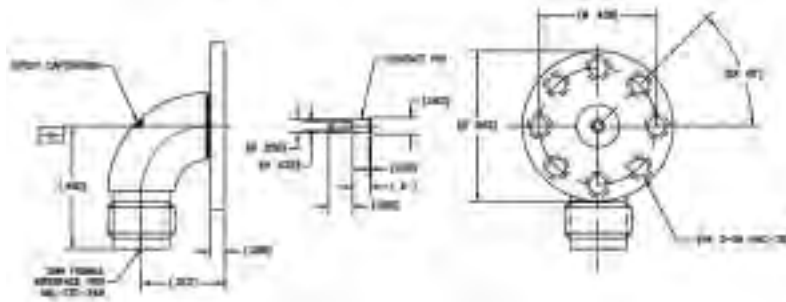


| Tensolite Part No. | "A" |
|--------------------|------|
| 5416-1CC | .032 |
| 5416-2CC | .062 |
| 5416-3CC | .094 |
| 5416-4CC | .125 |

Center contact is captivated.

5411

Radius right angle surface mount female stripline



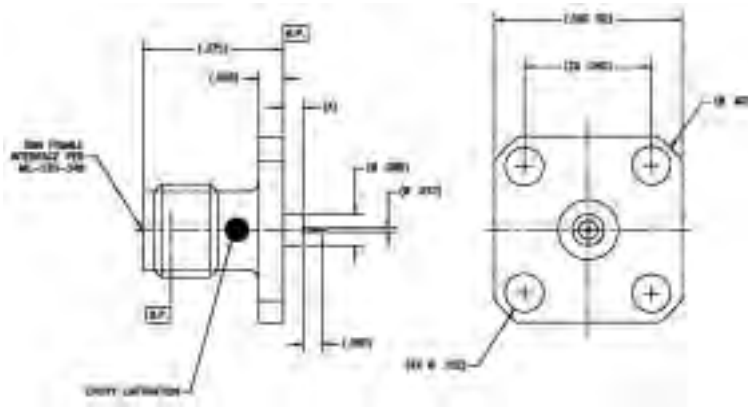
| Tensolite Part No. | "A" |
|--------------------|------|
| 5411-1CC | .032 |
| 5411-2CC | .062 |
| 5411-3CC | .094 |
| 5411-4CC | .125 |

Center contact is captivated.

SMA Microstrip Transmission Line Terminations

5308

Flange mount female

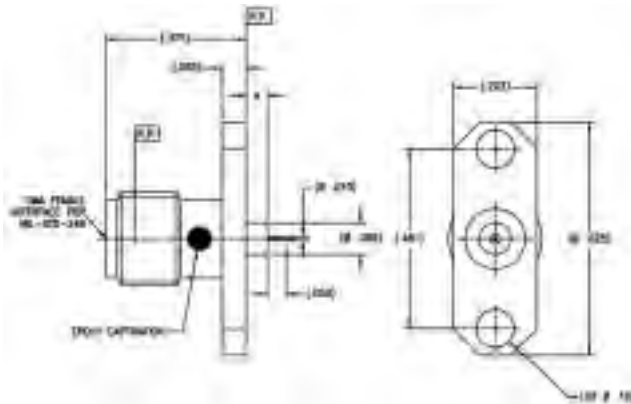


| Tensolite Part No. | "A" |
|--------------------|------|
| 5308-1CC | .057 |
| 5308-2CC | .125 |

Center conductor is captivated.

5309

Two hole flange mount female

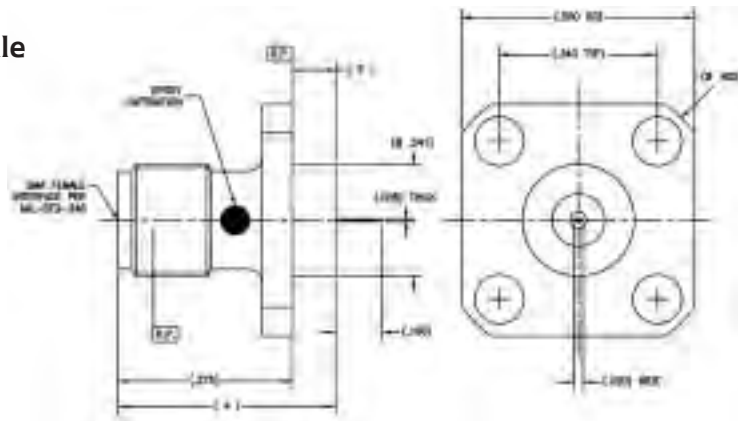


| Tensolite Part No. | "A" |
|--------------------|------|
| 5309-1CC | .057 |
| 5309-2CC | .125 |

Center conductor is captivated.

5860

Flange mount female

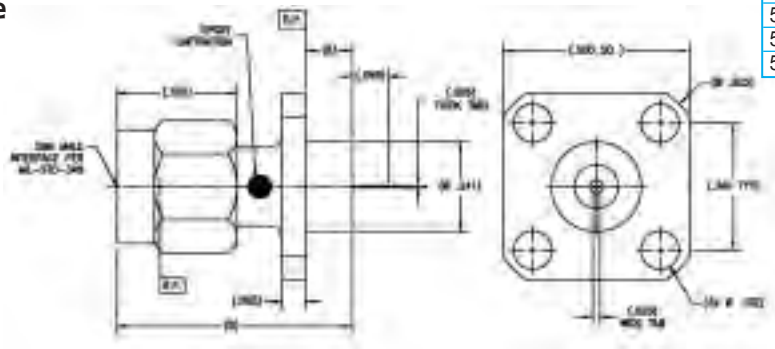


| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 5860-1CC | .568 | .093 |
| 5860-2CC | .600 | .125 |
| 5860-3CC | .662 | .187 |

Center conductor is captivated.

5861

Flange mount male



| Tensolite Part No. | "A" | "B" |
|--------------------|------|------|
| 5861-1CC | .700 | .093 |
| 5861-2CC | .732 | .125 |
| 5861-3CC | .794 | .187 |

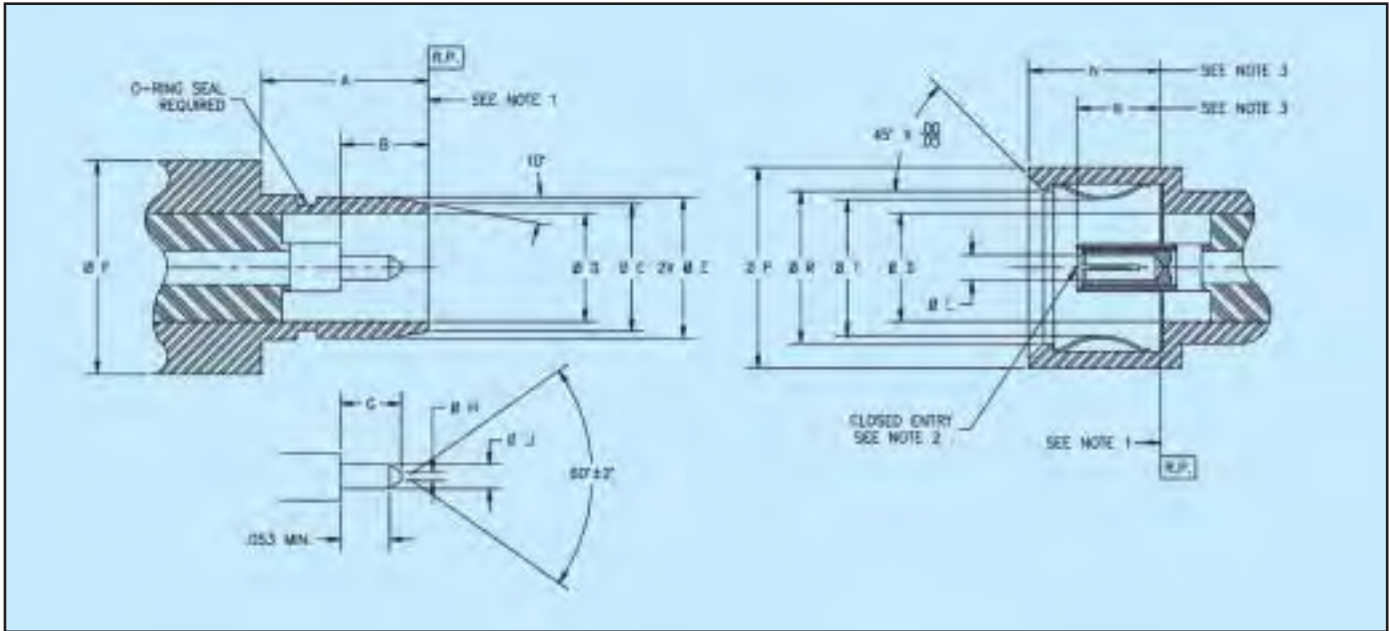
Center conductor is captivated.

BMA Series



BMA Series

BMA Interface Mating Dimensions (Per MIL-STD-348)



MALE

| LTR | Minimum | | Nominal | | Maximum | |
|-----|---------|-----------------|---------|-----------------|---------|-----------------|
| | in | mm ³ | in | mm ³ | in | mm ³ |
| A | .198 | 5.03 | — | — | — | — |
| B | .128 | 3.25 | — | — | — | — |
| Ø C | — | — | .192 | 4.88 | — | — |
| Ø D | — | — | .161 | 4.08 | — | — |
| Ø E | .209 | 5.30 | — | — | .211 | 5.35 |
| Ø F | — | — | .300 | 7.62 | — | — |
| G | — | — | .090 | 2.29 | — | — |
| Ø H | — | — | — | — | .015 | 0.38 |
| Ø J | .0354 | 0.899 | — | — | .0370 | 0.940 |

FEMALE

| LTR | Minimum | | Nominal | | Maximum | |
|------------------|------------|-----------------|---------|-----------------|---------|-----------------|
| | in | mm ³ | in | mm ³ | in | mm ³ |
| Ø D | — | — | .161 | 4.08 | — | — |
| K | — | — | — | — | .127 | 3.22 |
| Ø L ² | See Note 2 | | | | | |
| N ² | — | — | — | — | .198 | 4.95 |
| Ø P | .290 | 7.37 | — | — | — | — |
| Ø R | .225 | 5.71 | — | — | — | — |
| Ø T | — | — | — | — | .200 | 5.08 |

Note(s):

1. Reference Plane
2. Bore diameter closed to meet electrical and mechanical requirements when mated with a 0.0355/0.0370 inch (0.902/0.940) pin
3. With spring finger bottomed.
4. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on: 1 inch = 25.4 millimeters.

BMA Specifications

The specifications below are general specifications for all BMA connectors. Specific specifications for VSWR, insertion loss, and RF leakage for each connector is available from

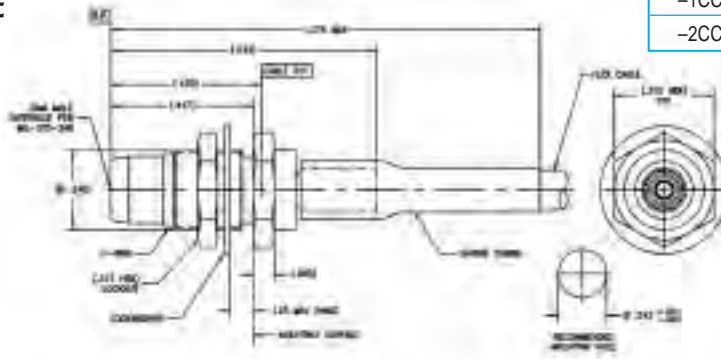
the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings.

| Requirement | Specifications |
|--|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-592, 300 Series, AMS 5567, AMS 5370 Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per ZZ-R-765, CLASS (B), 50-00 Shore |
| Finish | Center contacts shall be gold plated to a minimum thickness of .0005-inch in accordance with ASTM B-488, Type 2, Code C, over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 5,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | Engage: 3.0 lbs. Max. Disengage: 1.5 lbs. Max. |
| Misalignment | ± .020 Radial Float .060 min. Axial Fixal |
| Center Contact Retention | 6.0 lbs. Minimum |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only; oversize pin .0372 + .0001/- .0001 diameter .030/.045 deep; 3 insertions; insertion force 3 lbs. maximum with .0370 + .0001/- .0001 diameter pin, .050/.075 deep; withdrawal force 1 oz. minimum with .0355 + .0001/- .0001 maximum diameter pin, .050/.075 deep. |
| Connector Durability | 5000 cycles. The connector shall meet the mating characteristic requirements. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity; insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

Complete specifications on every connector in this catalog are available from the factory.

610

BMA male straight panel mount to flex cable



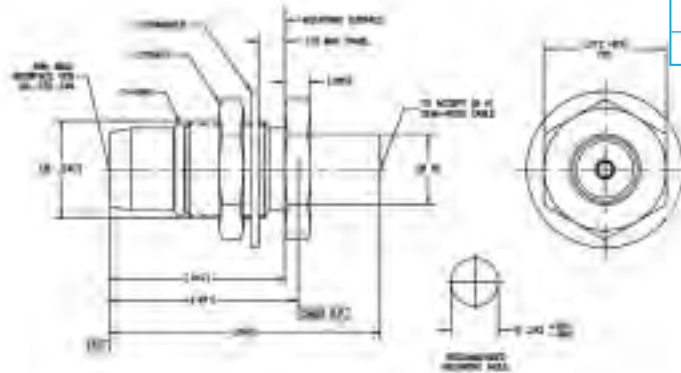
| Tensolite Part No | Flex Cable |
|-------------------|-------------------------------------|
| -1CCSF | RG55, 142, 223, 400, LLF-1141 |
| -2CCSF | RG174, 179, 187, 188, 316, LLF-1087 |

Center conductor is captivated
SF designates passivated finish

Consult factory for Assembly Instructions

611

BMA male straight panel mount to Semi-Rigid/Semi-Flex cable



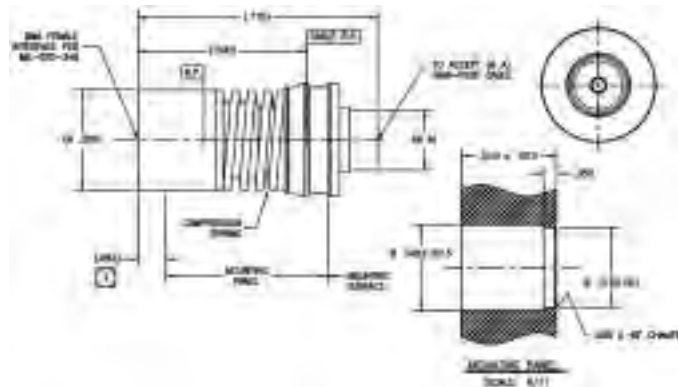
| Tensolite Part No | (Ø A) | (ØB) |
|-------------------|-------|------|
| -1CC | .141 | .180 |
| -2CC | .085 | .120 |

Center conductor is captivated
Standard units are gold finish

Consult factory for Assembly Instructions

644

BMA female straight panel float mount to Semi-Rigid/Semi-Flex cable



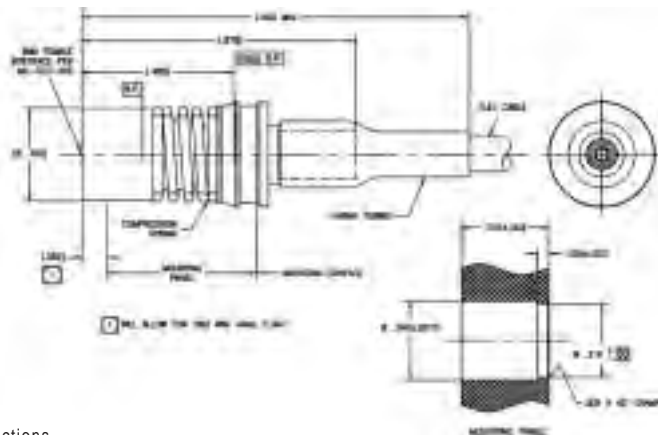
| Tensolite Part No | (Ø A) | (ØB) |
|-------------------|-------|----------|
| -1CC | .141 | .089 Min |
| -2CC | .085 | .120 |

Center conductor is captivated
Standard units are gold finish

Consult factory for Assembly Instructions

645

BMA female straight panel float mount to Semi-Rigid/Semi-Flex cable



| Tensolite Part No | Flex Cable |
|-------------------|-------------------------------------|
| -1CC | RG55, 142, 233, 400, LLF-1141 |
| -2CC | RG174, 179, 187, 188, 316, LLF-1087 |

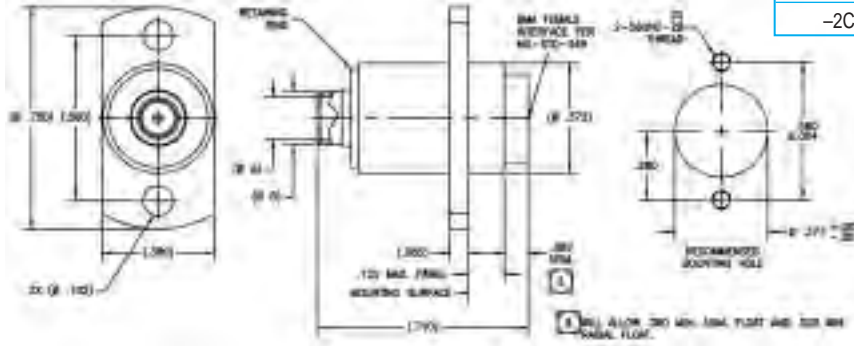
Center conductor is captivated
Standard units are gold finish

Consult factory for Assembly Instructions

BMA Panel Mount

623

BMA female 2 hole flange float mount to Semi-Rigid cable



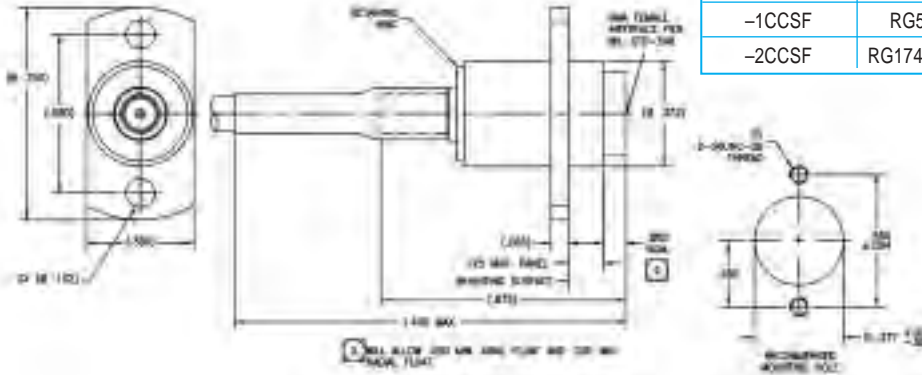
| Tensolite Part No | (Ø A) | (ØB) |
|-------------------|-------|------|
| -1CCSF | .145 | .180 |
| -2CCSF | .086 | .120 |

Center conductor is captivated
SF designates passivated finish.

Consult factory for Assembly Instructions

624

BMA female 2 hole flange float mount to flex cable



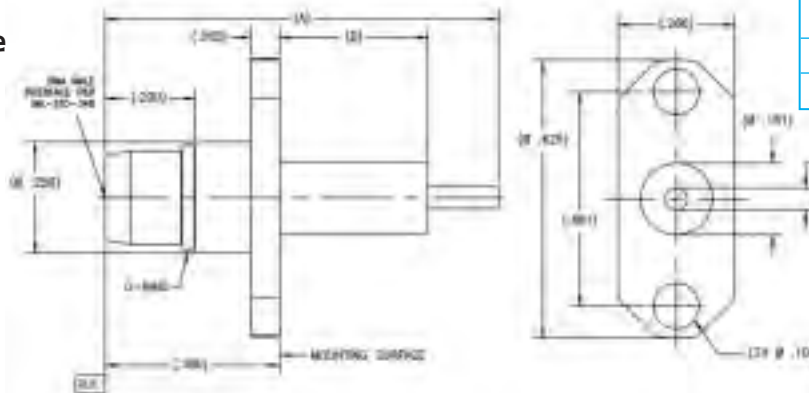
| Tensolite Part No | Flex Cable |
|-------------------|---------------------------|
| -1CCSF | RG55, 142, 233, 400 |
| -2CCSF | RG174, 179, 187, 188, 316 |

Center conductor is captivated
SF designates passivated finish

Consult factory for Assembly Instructions

640

BMA male 2 hole flange (.260 X .625) mount to straight termination

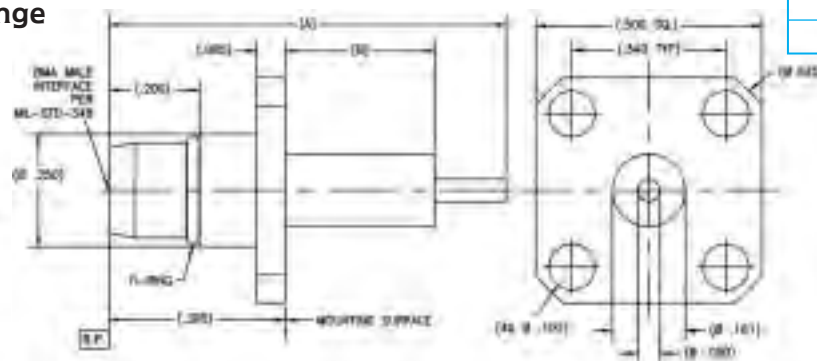


| Tensolite Part No | (A) | (B) |
|-------------------|------|------|
| -1CC | .878 | .330 |
| -1CCSF | .878 | .330 |

Center conductor is captivated
Standard units are gold finish
SF designates passivated finish

641

BMA male 4 hole flange (.500 SQ.) mount to straight termination



| Tensolite Part No | (A) | (B) |
|-------------------|------|------|
| -1CC | .878 | .330 |
| -1CCSF | .878 | .330 |

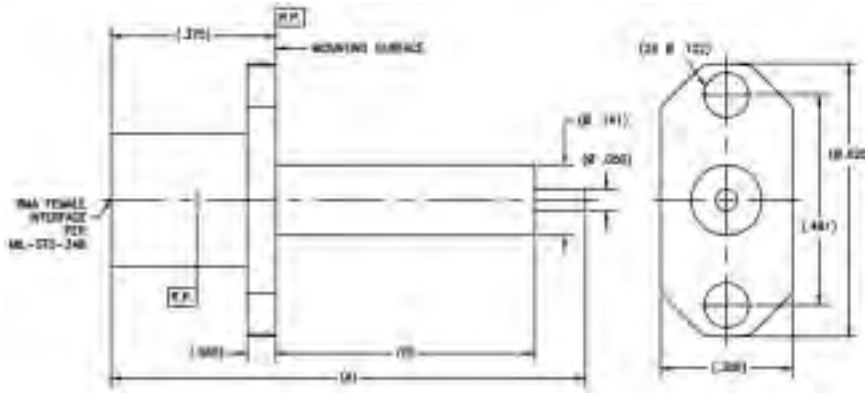
Center conductor is captivated
Standard units are gold finish
SF designates passivated finish

BMA Panel Mount

BMA Flange Mount

642

BMA female 2 hole flange (.300 x .625) mount to straight termination

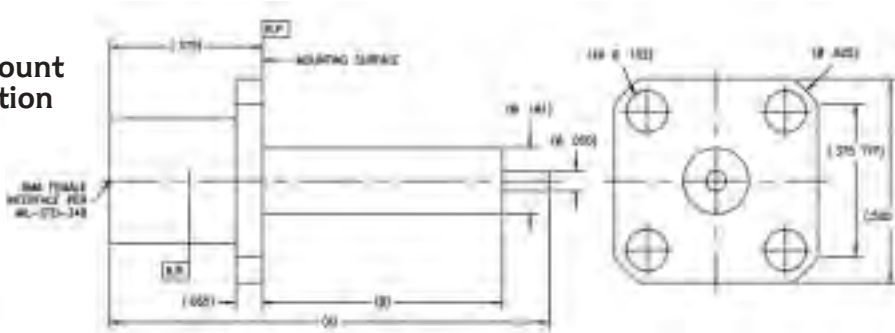


| Tensolite Part No | (A) | (B) |
|-------------------|-------|------|
| -1CC | 1.080 | .590 |
| -1CCSF | 1.080 | .590 |

Center conductor is captivated
Standard units are gold finish
SF designates passivated finish

643

BMA female 4 hole flange (.500 SQ.) mount to straight termination



| Tensolite Part No | (A) | (B) |
|-------------------|-------|------|
| -1CC | 1.080 | .590 |
| -1CCSF | 1.080 | .590 |

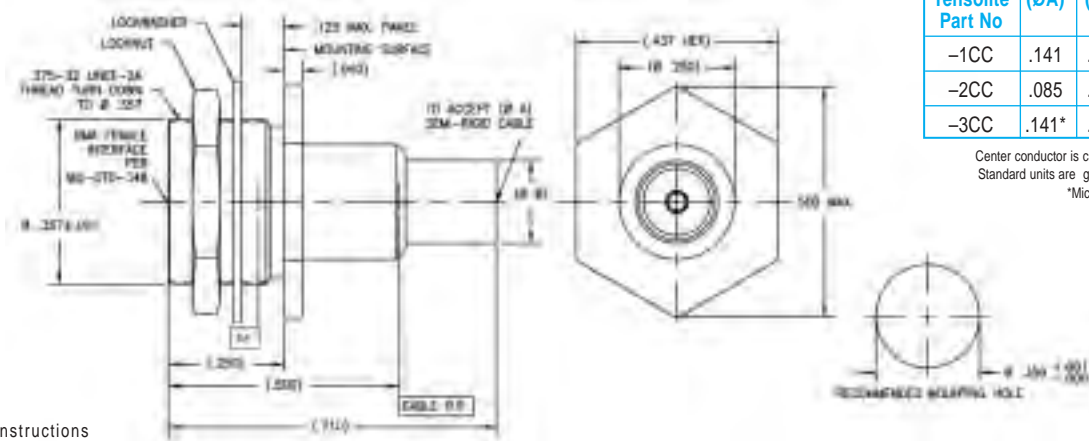
Center conductor is captivated
Standard units are gold finish
SF designates passivated finish

BMA Flange Mount & Bulkhead Mount

BMA Bulkhead mount

621

BMA female bulkhead fixed rear mount to Semi-Rigid cable



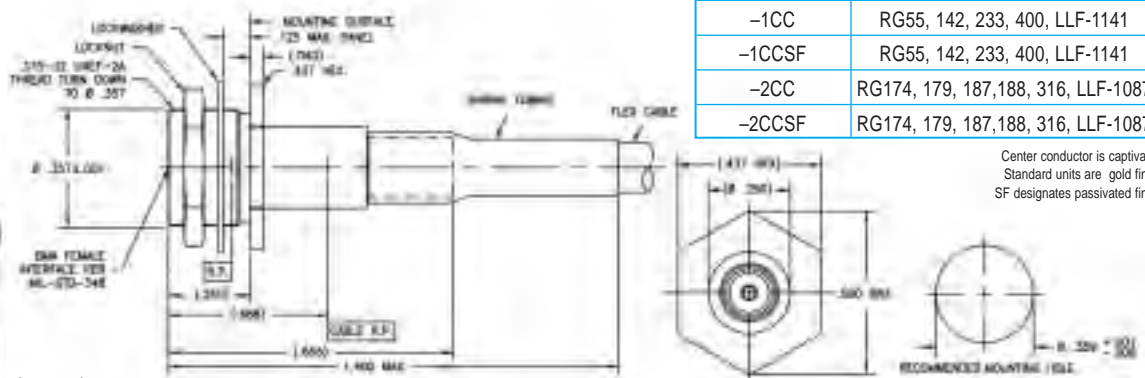
| Tensolite Part No | (ØA) | (ØB) |
|-------------------|-------|------|
| -1CC | .141 | .180 |
| -2CC | .085 | .120 |
| -3CC | .141* | .180 |

Center conductor is captivated
Standard units are gold finish
*Microporous

Consult factory for Assembly Instructions

622

BMA female bulkhead fixed rear mount to flex cable



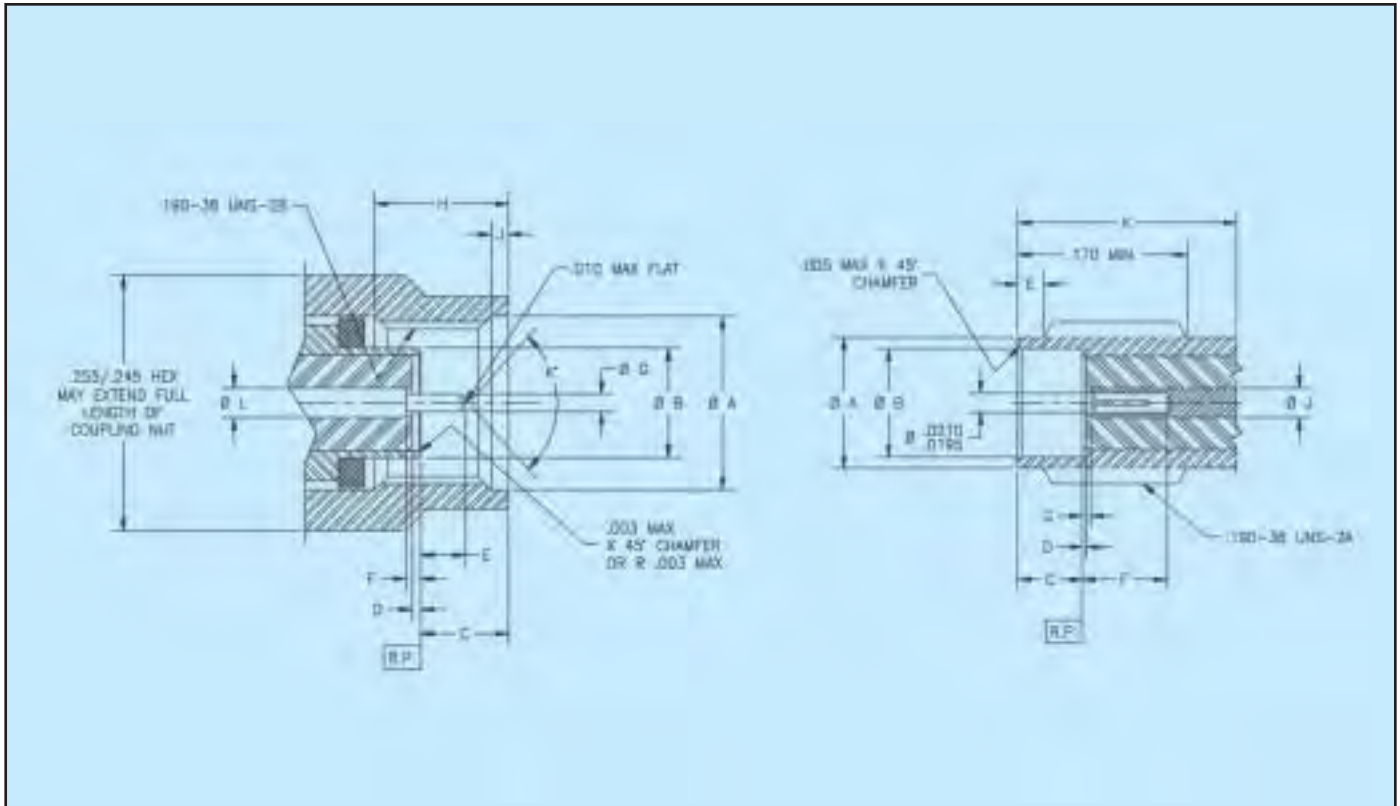
| Tensolite Part No | Flex Cable |
|-------------------|------------------------------------|
| -1CC | RG55, 142, 233, 400, LLF-1141 |
| -1CCSF | RG55, 142, 233, 400, LLF-1141 |
| -2CC | RG174, 179, 187,188, 316, LLF-1087 |
| -2CCSF | RG174, 179, 187,188, 316, LLF-1087 |

Center conductor is captivated
Standard units are gold finish
SF designates passivated finish

Consult factory for Assembly Instructions



SSMA Interface Mating Dimensions (Per MIL-STD-348)



MALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | .196 | 4.96 | .202 | 5.13 |
| ∅ B | .1240 | 3.15 | .1268 | 4.27 |
| C | .100 | 2.54 | .133 | 3.38 |
| D | .000 | 0.00 | .010 | 0.25 |
| E | .050 | 1.27 | .065 | 1.65 |
| F | 0.00 | 0.00 | .010 | 0.25 |
| ∅ G | .0195 | 0.05 | .0208 | 0.53 |
| H | .130 | 3.30 | — | — |
| J | .015 | 0.26 | .045 | 1.14 |
| K ^o | 70° | 70° | 90° | 90° |
| L | .0335 | 0.85 | .0348 | 0.88 |

FEMALE

| LTR | Minimum | | Maximum | |
|-----|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | .147 | 3.73 | .150 | 3.81 |
| ∅ B | .127 | 3.23 | .130 | 3.30 |
| C | .075 | 1.91 | .077 | 1.96 |
| ∅ D | .000 | 0.00 | .010 | 0.25 |
| E | .020 | 0.51 | .040 | 1.02 |
| F | .075 | 1.91 | — | — |
| G | .000 | 0.00 | .010 | 0.25 |
| ∅ J | .0335 | 0.85 | .0348 | 0.88 |
| K | .230 | 5.84 | — | — |

Notes:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.

SSMA Specifications

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

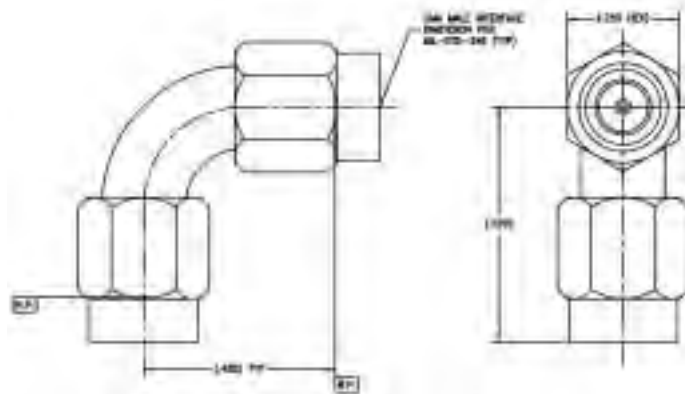
In the event of any conflict between these specifications and General Specification MIL-PRF-39012 and MIL-PRF-83517, these specifications shall govern. These specifications are subject to change according to the latest revision of General Specification MIL-PRF-39012 and MIL-PRF-83517.

| Requirement | Specifications |
|--|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, AMS 5567, AMS 5370 Brass Niob per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 or D-1710 Silicone Rubber per ZZ-R-765, CLASS HB, 60-60 Shore |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 10,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 60 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 15 in.-lbs. minimum. Applicable to male connectors only. |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only: oversize pin .0213 +.0001/-0000 diameter .030/.045 deep; insertion force 3 lbs. maximum with .0208 +.0001/-0000 diameter pin; withdrawal force 1 oz. minimum with .0195 maximum diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Recommended Mating Torque | 5 inch-pounds. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. |
| Moisture Resistance | Specification MIL-STD-202, Method 106, No measurement at high humidity; Insulation resistance shall be 200 megohms/min. within 5 minutes after removal from humidity. |

SSMA Adapters

3053

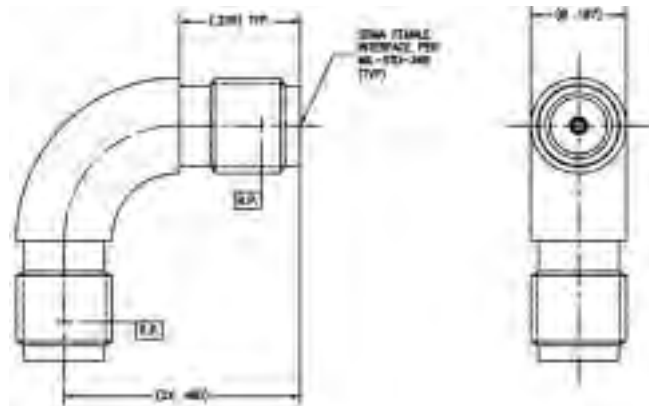
SSMA male to male
R/A adapter



Add suffix CC to Part No. for captivated contact.

3052

SSMA female to
female R/A adapter

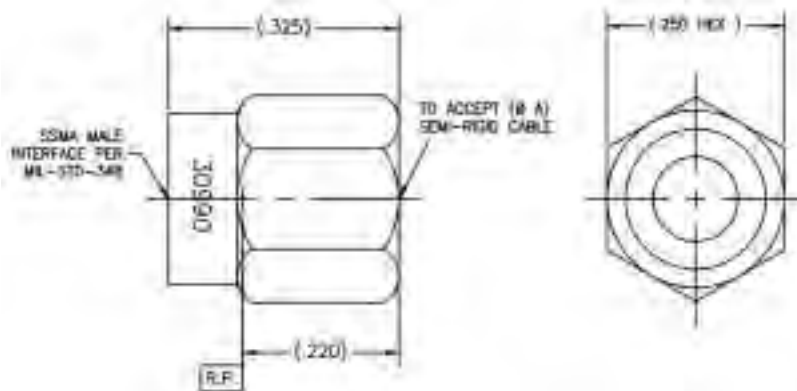


Add suffix CC to Part No. for captivated contact.

SSMA Cable Connectors

3001

SSMA male to
Semi-Rigid cable
(w/o contact)



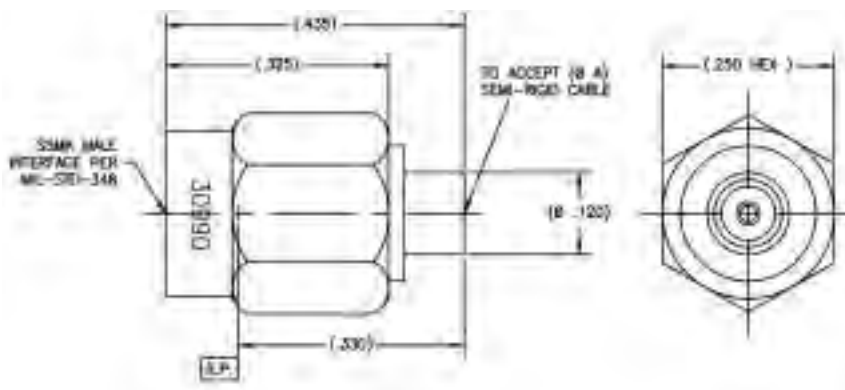
| Tensolite Part No. | (Ø A) |
|--------------------|-------|
| -1 | .085 |
| -1SF | .085 |

Standard units are gold finish
SF designates passivated finish

Consult factory for Assembly Instructions

3002

SSMA male to
Semi-Rigid cable
(w/contact)



| Tensolite Part No. | (Ø A) |
|--------------------|-------|
| -1 | .085 |
| -1SF | .085 |

Standard units are gold finish
SF designates passivated finish

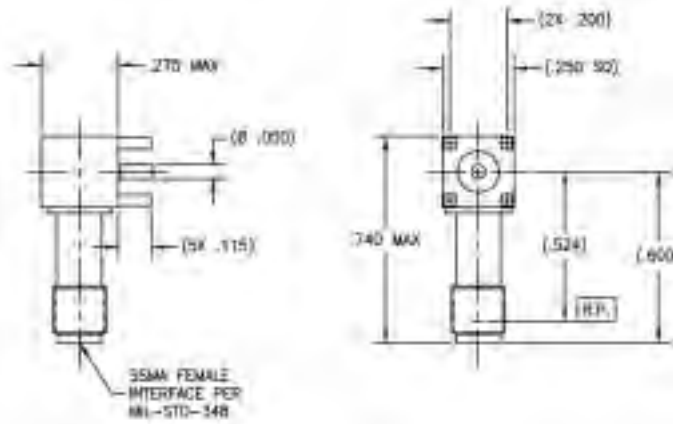
Consult factory for Assembly Instructions

SSMA Cable Connectors

3035CC

SSMA female right angle PCB mount, center contact is captivated

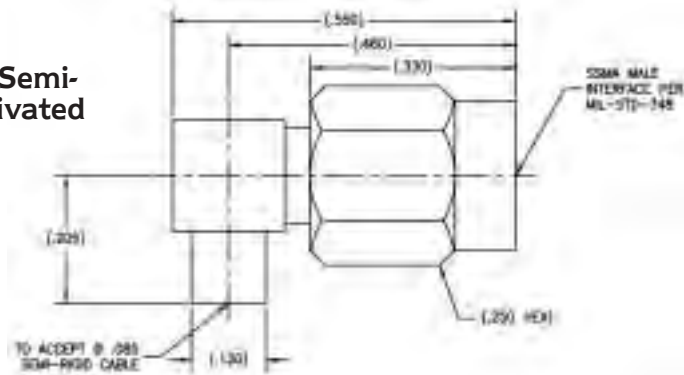
Center conductor is captivated



3065CC

SSMA male right angle to Ø .085 Semi-Rigid cable center contact is captivated

Center conductor is captivated



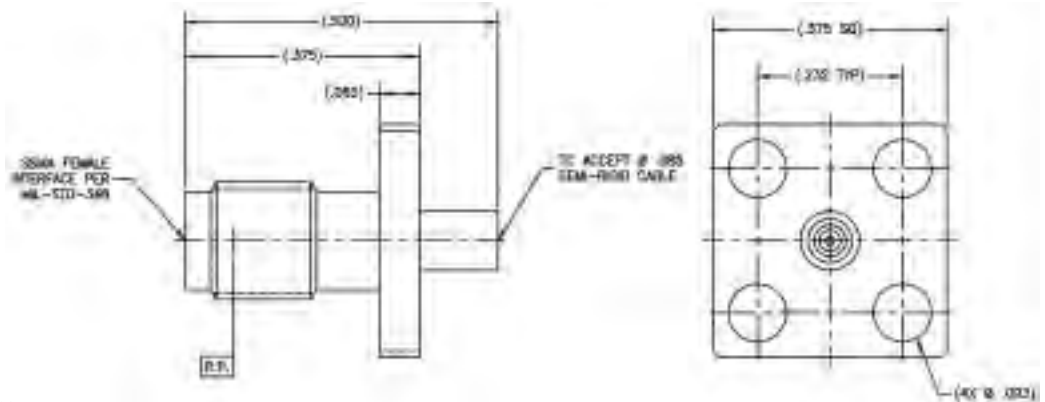
Consult factory for Assembly Instructions

SSMA Bulkhead and Panel Mount

3005

SSMA female 4 hole flange mount

Add suffix CC to Part No. for captivated contact.

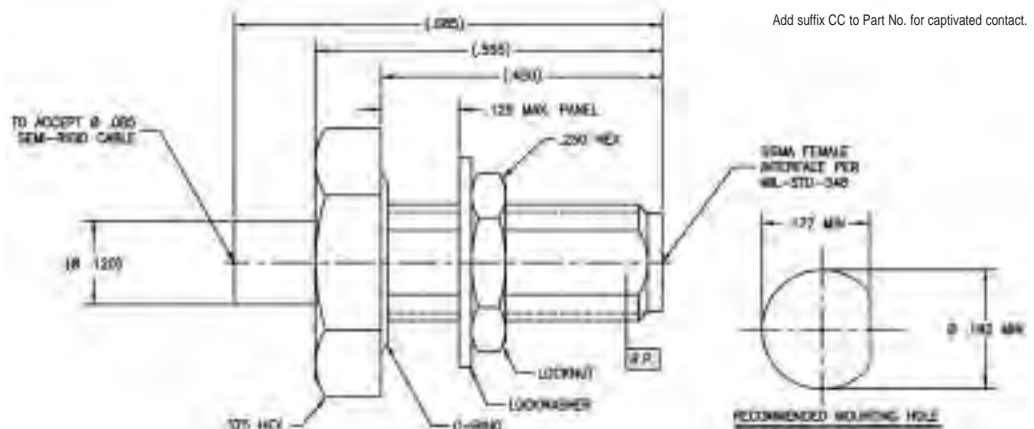


Consult factory for Assembly Instructions

3004

SSMA female bulkhead mount to Ø .085 S/R cable

Add suffix CC to Part No. for captivated contact.



Consult factory for Assembly Instructions

SSMA Cable Connectors,
Bulkhead & Panel Mount

Tensolite

A CARLISLE Company

Call: 866-282-4708

Website: www.tensolite.com

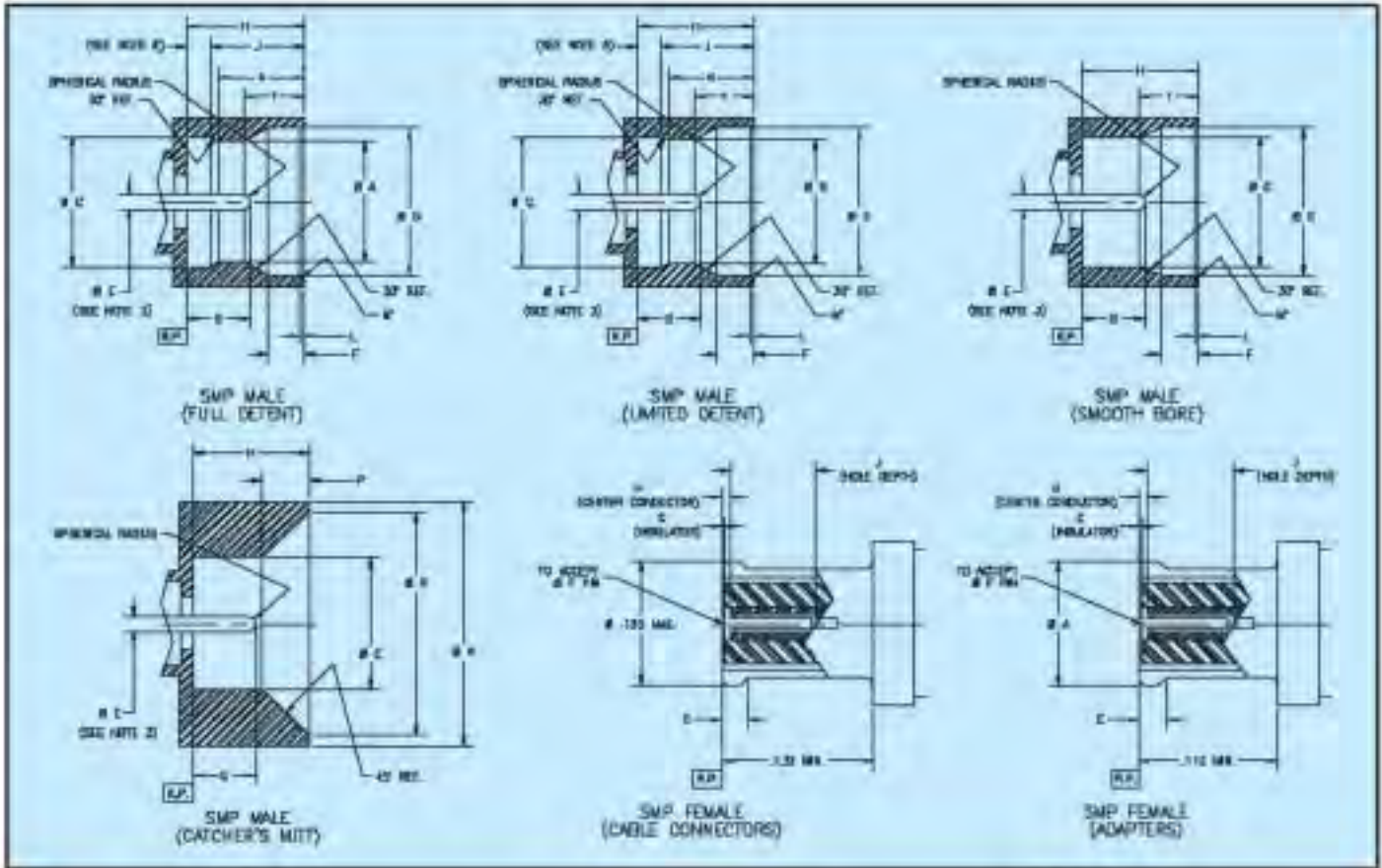
Standard units are gold plated. Add suffix SF to Part Number for stainless steel finish.

SMP Series



SMP Series

SMP Interface Mating Dimensions (Per MIL-STD-348)



MALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | .114 | 2.90 | .118 | 3.00 |
| ∅ B | .118 | 3.00 | .122 | 3.10 |
| ∅ C | .123 | 3.12 | .127 | 3.23 |
| ∅ D | .139 | 3.53 | .145 | 3.68 |
| ∅ E | .014 | 0.36 | .016 | 0.41 |
| F | .033 | 0.84 | .037 | 0.94 |
| G | .045 | 1.14 | .055 | 1.40 |
| H | .108 | 2.74 | .112 | 2.84 |
| J | .086 | 2.18 | .090 | 2.29 |
| K | .078 | 1.98 | .082 | 2.08 |
| L | .003 | 0.08 | ---- | ---- |
| M ^P | 40° | 40° | 50° | 50° |
| ∅ N | .230 | 5.84 | .240 | 6.10 |
| P | .043 | 1.09 | .047 | 1.19 |
| ∅ R | .210 | 5.33 | .220 | 5.59 |
| T | .055 | 1.40 | .057 | 1.45 |

FEMALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | ---- | ---- | .135 | 3.43 |
| B | .132 | 3.35 | ---- | ---- |
| C | .112 | 2.84 | ---- | ---- |
| D | .025 | 0.64 | .035 | 0.89 |
| E | .018 | 0.46 | .025 | 0.64 |
| ∅ F | .014 | 0.36 | .016 | 0.41 |
| G ^T | .000 | 0.00 | -.010 | 0.25 |
| H ^T | .000 | 0.00 | -.008 | 0.20 |
| J | .070 | 1.78 | ---- | ---- |

Note(s):

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
3. Pin is not supplied with shroud.
4. Dielectric insulator gap is measured from connector body reference plane .000 in. max. above (flush) to .010 in. max. below.
5. Center conductor gap is measured from connector body reference plane .000 in. max. above (flush) to .008 in. max. below.
6. Dimension to mating interface shall be .019/.025 for adapters and .025/.035 for cable connectors.

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

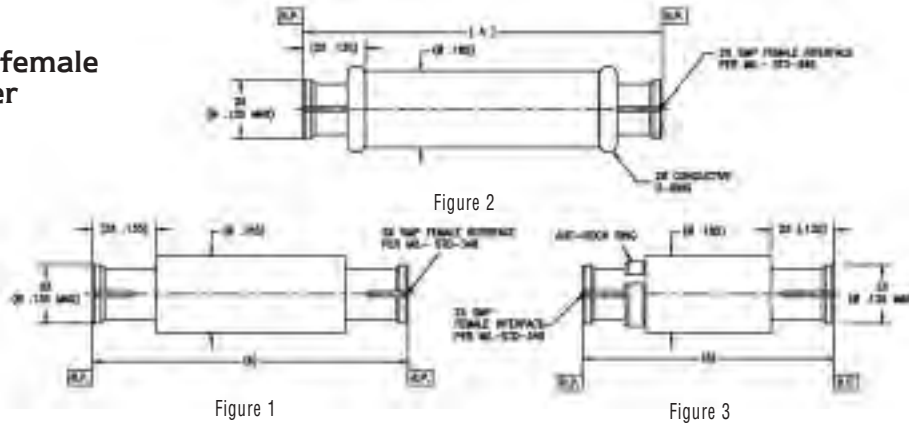
In the event of any conflict between these specifications and DSCC 94007 and DSCC 98004, these specifications shall govern. These specifications are subject to change according to the latest revision of Specification DSCC 94007 and DSCC 98004.

| Requirement | Specifications |
|--|--|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, AMS 5567, AMS 5370 Brass Alloy per ASTM B-10 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per ZZ-R-760, CLASS IIB, 50-60 Shore |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 5,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | Engage: 15.0 lbs. max., Full Detent 5.0 lbs. max., Limited Detent 2.0 lbs. max., Smooth Bore and Catcher's Mill Disengage: 5.0 lbs. min., Full Detent 1.5 lbs. min., Limited Detent 0.5 lbs. min., Smooth Bore and Catcher's Mill |
| Misalignment | +/- .020 Radial, .000/.010 Axial |
| Cable Retention Force | Consult factory. |
| Mating Characteristics | Female only: 1/4 oz. min. withdrawal with .0140 - .0000+ .0002 diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 100 mating cycles min. for Full Detent, 500 mating cycles min. for Limited Detent, and 5000 mating cycles min. for Smooth Bore and Catcher's Mill. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. No measurement at high humidity. |
| Moisture Resistance | Specification MIL-STD-202, Method 105. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

SMP In-Series Adapters

P617

SMP female to female straight adapter

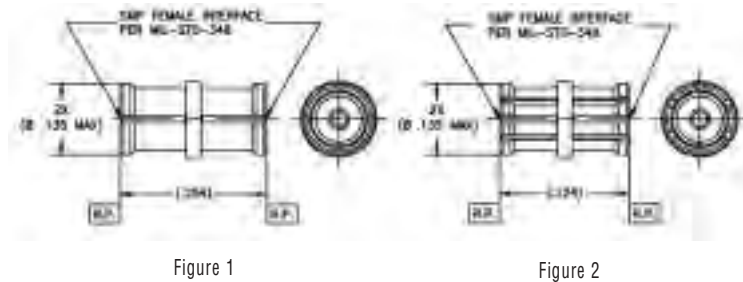


| Tensolite Part No. | "A" | Fig. |
|--------------------|-------|------|
| P617-1CC | .769 | 1 |
| P617-2CC | .851 | 1 |
| P617-3CC | 1.366 | 1 |
| P617-4CC | .440 | 2 |
| P617-5CC | .769 | 2 |
| P617-6CC | .415 | 1 |
| P617-7CC | .428 | 1 |
| P617-8CC | .539 | 3 |

Center conductor is captivated
Standard units are gold finish

P650

SMP female to female straight adapter

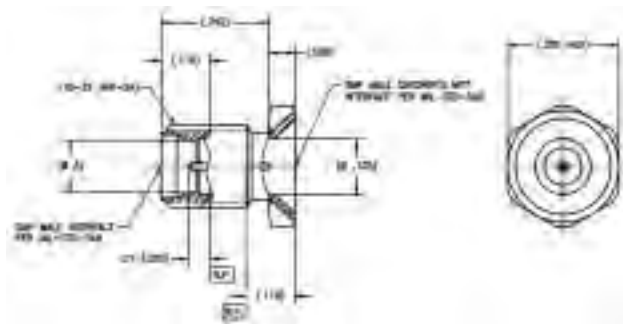


| Tensolite Part No. | Fig. |
|--------------------|------|
| P650-1CC | 1 |
| P650-2CC | 2 |

Center conductor is captivated
Standard units are gold finish

P912

SMP male bulkhead straight to SMP male catcher's mitt adapter



| Tensolite Part No. | Interface | "ØA" |
|--------------------|----------------|------|
| P912-1CCSF | Full detent | .116 |
| P912-2CCSF | Limited detent | .120 |
| P912-3CCSF | Smooth bore | .125 |

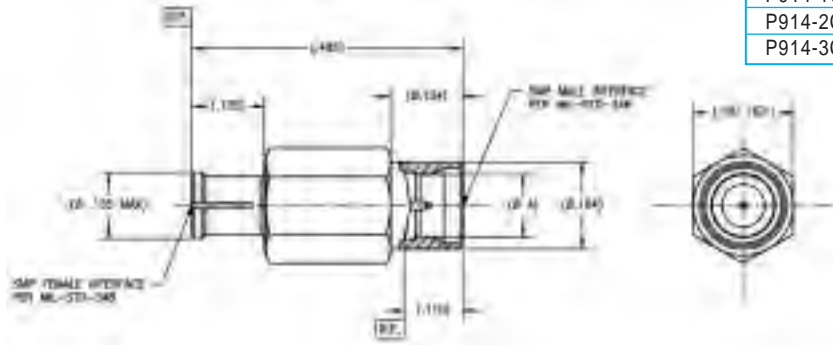
Center conductor is captivated
Standard finish is passivated.

SMP In-Series Adapters

SMP In-series Adapters

P914

SMP male straight to SMP female adapter

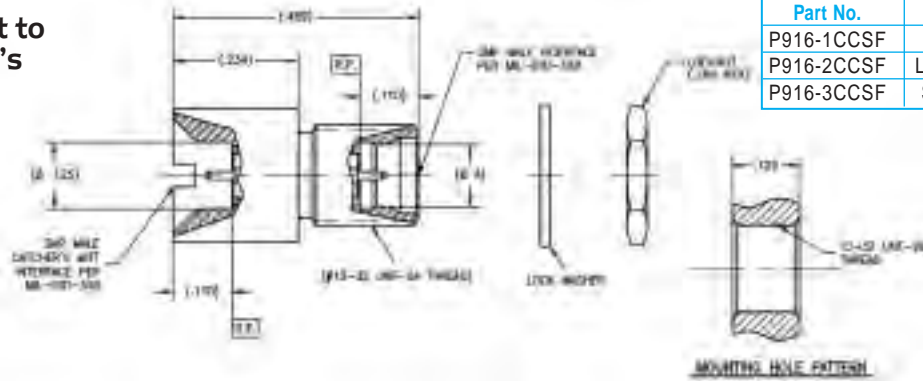


| Tensolite Part No. | Interface | "ØA" |
|--------------------|----------------|------|
| P914-1CC | Full detent | .116 |
| P914-2CC | Limited detent | .120 |
| P914-3CC | Smooth bore | .125 |

Center conductor is captivated
Standard units are gold finish

P916

SMP male straight to SMP male catcher's mitt adapter

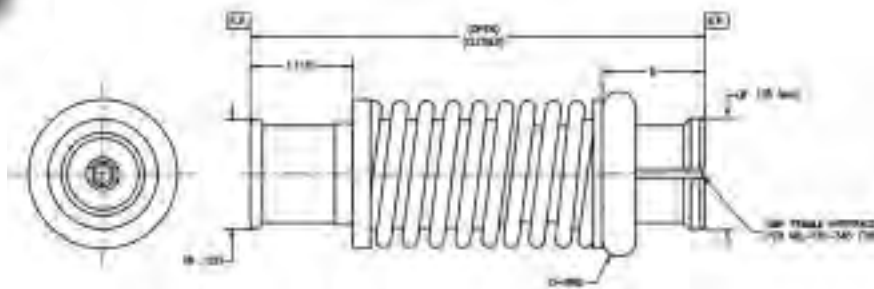


| Tensolite Part No. | Interface | "ØA" |
|--------------------|----------------|------|
| P916-1CCSF | Full detent | .116 |
| P916-2CCSF | Limited detent | .120 |
| P916-3CCSF | Smooth bore | .125 |

Center conductor is captivated.
Standard finish is passivated.

P922

SMP female bullet spring loaded straight to SMP female adapter

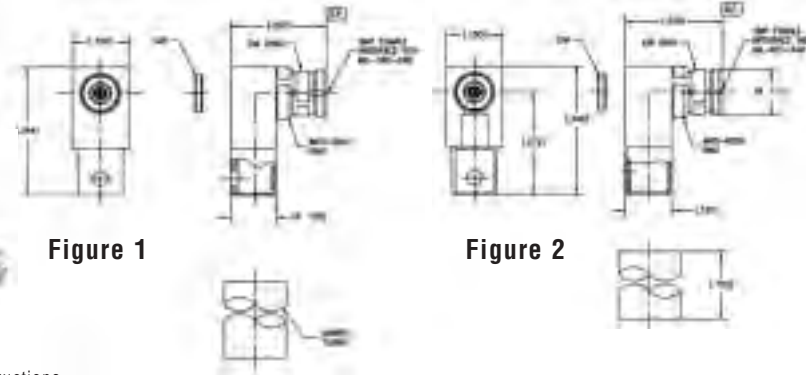


| Tensolite Part No. | (open) | (closed) | B | O-ring |
|--------------------|---------|----------|--------|--------------|
| P922-2CC | (.510) | (.460) | (.115) | Not required |
| P922-3CC | (.745) | (.695) | (.115) | Not required |
| P922-4CC | (.660) | (.610) | (.135) | Required |
| P922-5CC | (1.000) | (.950) | (.135) | Required |
| P922-6CC | (1.376) | (1.326) | (.115) | Not required |

Center conductor is captivated
Standard units are gold finish

P600

SMP female right angle to flexible cable (18.0 GHz version)



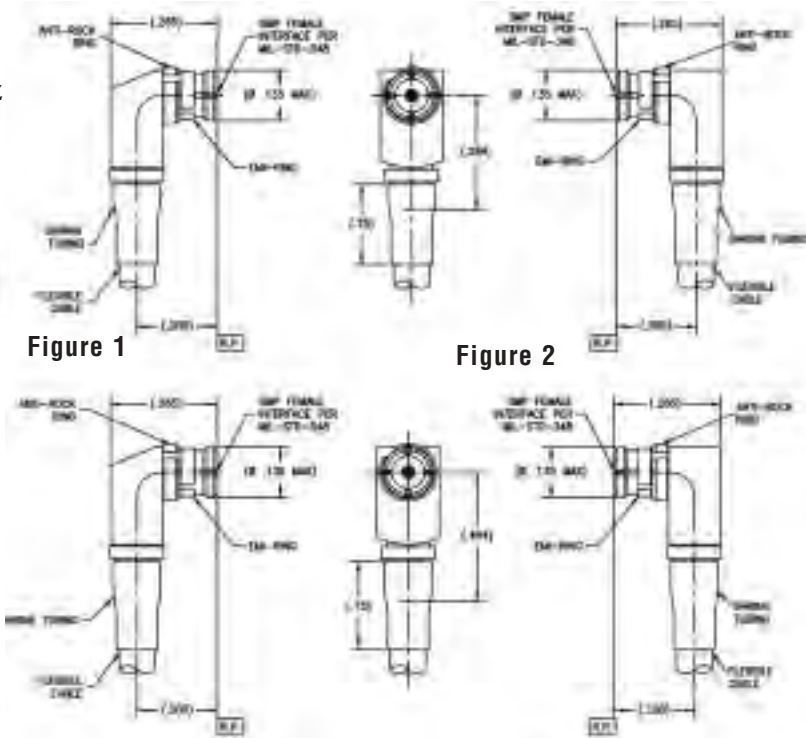
| Tensolite Part No. | Cable Types | Fig. |
|--------------------|-------------|------|
| P600-1CC | RG178 | 1 |
| P600-2CC | RG316 | 1 |
| P600-3CC | RD178 | 1 |
| P600-4CC | RD316 | 2 |
| P600-9CC | LLF1087 | 1 |

Center conductor is captivated
Standard units are gold finish

Consult factory for Assembly Instructions

P601

SMP female right angle connector for flex cable (26.5 GHz version)



| Tensolite Part No. | Cable Types | Fig. |
|--------------------|-------------|------|
| P601-1CC | RG178 | 3 |
| P601-2CC | RG316 | 3 |
| P601-3CC | RD178 | 3 |
| P601-4CC | RD316 | 3 |
| P601-9CC | LLF1087 | 1 |
| P601-11CC | RG178 | 4 |
| P601-12CC | RG316 | 4 |
| P601-13CC | RD178 | 4 |
| P601-14CC | RD316 | 4 |
| P601-19CC | LLF1087 | 2 |
| P601-21CC | LLFP1087 | 3 |
| P601-22CC | LLFP1087 | 4 |

Center conductor is captivated
Standard units are gold finish

Consult factory for Assembly Instructions

SMP Semi-Rigid Cable Connectors

P662

SMP male bulkhead panel mount to Semi-Rigid cable

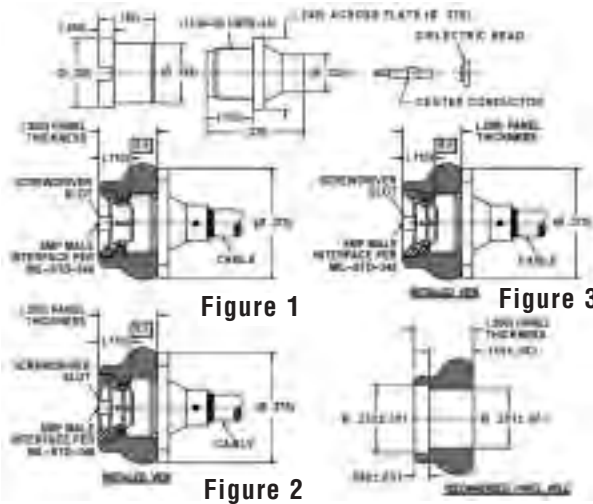


Figure 1

Figure 3

Figure 2

| Tensolite Part No. | Interface | Fig. | Cable Types |
|--------------------|----------------|------|-------------|
| P662-1CC | Catcher's Mitt | 1 | Ø .047 S/R |
| P662-2CC | Catcher's Mitt | 1 | Ø .085 S/R |
| P662-3CC | Catcher's Mitt | 1 | Ø .047 L/L |
| P662-4CC | Catcher's Mitt | 1 | Ø .085 L/L |
| P662-5CC | Full Detent | 2 | Ø .047 S/R |
| P662-6CC | Full Detent | 2 | Ø .085 S/R |
| P662-7CC | Full Detent | 2 | Ø .047 L/L |
| P662-8CC | Full Detent | 2 | Ø .085 L/L |
| P662-9CC | Limited Detent | 2 | Ø .047 S/R |
| P662-10CC | Limited Detent | 2 | Ø .085 S/R |
| P662-11CC | Limited Detent | 2 | Ø .047 L/L |
| P662-12CC | Limited Detent | 2 | Ø .085 L/L |
| P662-13CC | Limited Detent | 3 | Ø .085 S/R |

Center conductor is captivated
Standard units are gold finish

Refer to Assembly Instruction 313 & 314 on pages 225,226 & 227, 228

P664

SMP male 2 hole flange mount straight to Semi-Rigid cable

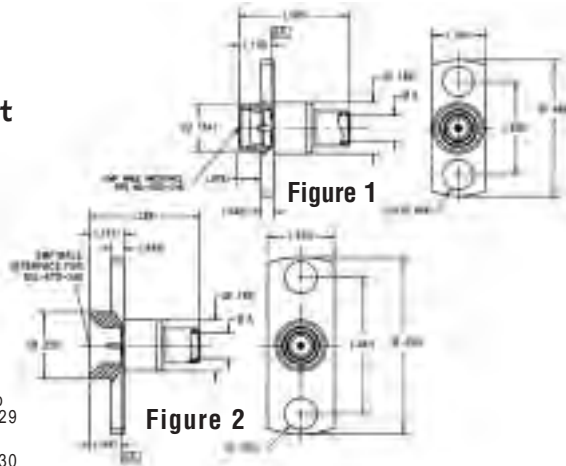


Figure 1

Figure 2

| Tensolite Part No. | Interface | (Ø A) | Cable Types | Fig. |
|--------------------|----------------|----------|-------------|------|
| P664-1SF | Full Detent | .049 Min | .047 S/R | 1 |
| P664-2SF | Limited Detent | .049 Min | .047 S/R | 1 |
| P664-3SF | Smooth Bore | .049 Min | .047 S/R | 1 |
| P664-4SF | Full Detent | .088 Min | .085 S/R | 1 |
| P664-5SF | Limited Detent | .088 Min | .085 S/R | 1 |
| P664-6SF | Smooth Bore | .088 Min | .085 S/R | 1 |
| P664-7SF | Full Detent | .049 Min | .047 S/R LL | 1 |
| P664-8SF | Limited Detent | .049 Min | .047 S/R LL | 1 |
| P664-9SF | Smooth Bore | .049 Min | .047 S/R LL | 1 |
| P664-10SF | Full Detent | .088 Min | .085 S/R LL | 1 |
| P664-11SF | Limited Detent | .088 Min | .085 S/R LL | 1 |
| P664-12SF | Smooth Bore | .088 Min | .085 S/R LL | 1 |
| P664-13SF | Catcher's Mitt | .049 Min | .047 S/R LL | 2 |
| P664-14SF | Catcher's Mitt | .088 Min | .085 S/R LL | 2 |

Center conductor is captivated
Standard finish is passivated

P664-4, 5, 6, 10, 11, 12, 14 Refer to Assembly Instruction 315 on page 229

P664-1, 2, 3, 7, 8, 9, 13, Refer to Assembly Instruction 316 on page 230

P658

SMP female float mount straight to cable

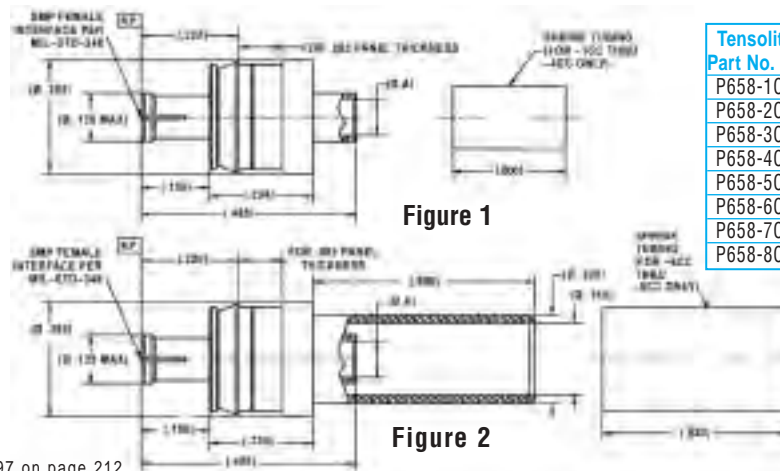


Figure 1

Figure 2

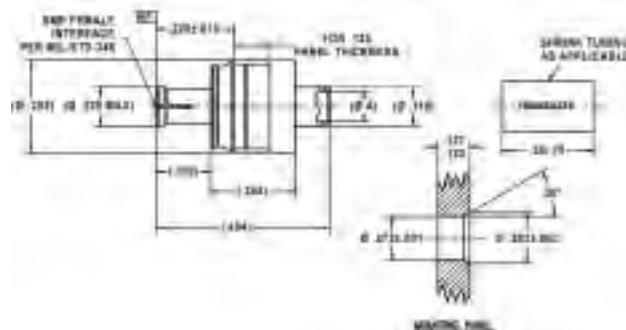
| Tensolite Part No. | (Ø A) | Cable Types | Fig. |
|--------------------|----------|------------------|------|
| P658-1CC | .081 Min | UFF .092A | 1 |
| P658-2CC | .089 Min | RG316/U | 1 |
| P658-3CC | .090 Min | TFLEX 405HF | 1 |
| P658-4CC | .087 Min | Microflex Ø .095 | 1 |
| P658-5CC | .090 Min | Ø .085 S/R | 1 |
| P658-6CC | .090 Min | Ø .085 S/R LL | 2 |
| P658-7CC | .050 Min | Ø .047 S/R | 2 |
| P658-8CC | .050Min | Ø .047 S/R LL | 2 |

Center conductor is captivated
Standard units are gold finish
Axial Float: .040 inch
Radial Float: ± .020 inch

Refer to Assembly Instruction 297 on page 212

P666

SMP female float mount straight to cable



| Tensolite Part No. | (Ø A) | Cable Types |
|--------------------|----------|------------------|
| P666-1CC | .081 Min | UFF .092A |
| P666-2CC | .089 Min | RG316/U |
| P666-3CC | .090 Min | TFLEX 405HF |
| P666-4CC | .087 Min | Microflex Ø .095 |
| P666-5CC | .090 Min | Ø .085 S/R |
| P666-6CC | .090 Min | Ø .085 S/R LL |
| P666-7CC | .050 Min | Ø .047 S/R |
| P666-8CC | .050Min | Ø .047 S/R LL |

Center conductor is captivated
Standard units are gold finish
Axial Float: .040 inch
Radial Float: ± .020 inch

Refer to Assembly Instruction 364 on page 233

Tensolite

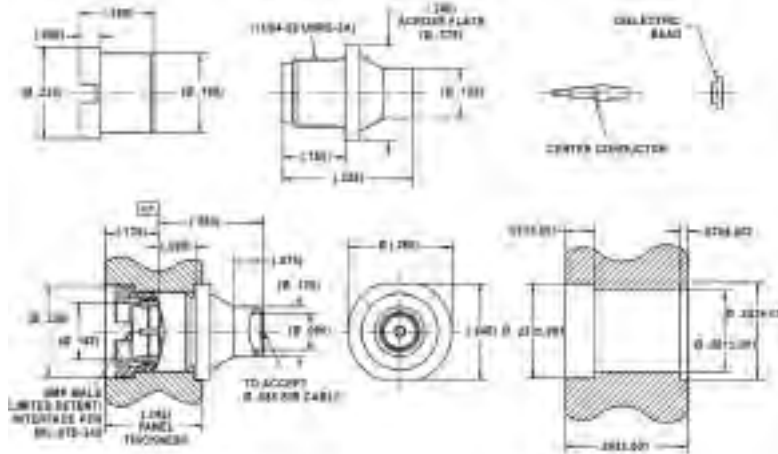
A CARLISLE Company

Call: 866-282-4708 Website: www.tensolite.com

SMP Semi-Rigid Cable Connectors

P722-1CCSF

SMP male limited detent bulkhead panel mount to Ø .085 Semi-Rigid cable



Installed View

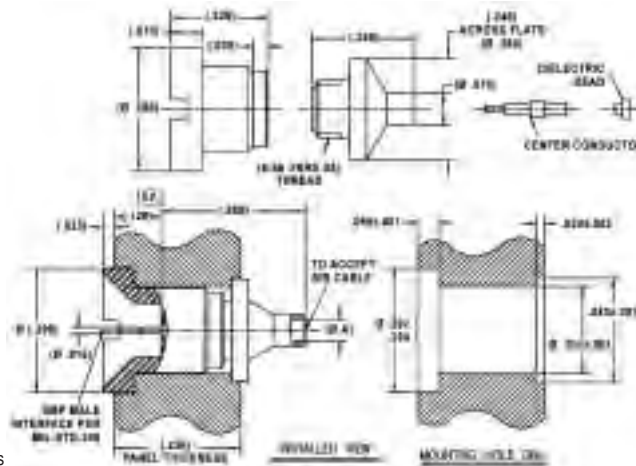
Mounting Hole

Center conductor is captivated.
Standard finish is passivated.

Consult factory for Assembly Instructions

P723

SMP male catcher's mitt bulkhead panel mount straight to Semi-Rigid cable



| Tensolite Part No. | Cable Types | (ØA) |
|--------------------|-------------------|------|
| P723-1CC | Ø .047 Semi-Rigid | .050 |
| P723-2CC | Ø .085 Semi-Rigid | .090 |

Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

P652

SMP female miter right angle to Semi-Rigid cable (12.0 GHz version)

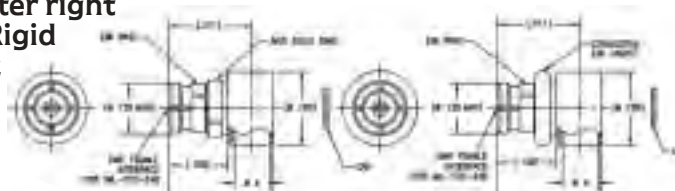


Figure 1

Figure 2

| Tensolite Part No. | ØA | Ø Cable Type(s) | Fig. |
|--------------------|-----------|------------------------|------|
| P652-1CC | .049 min. | .047 Semi-Rigid cable | 1 |
| P652-2CC | .088 min. | .085 Semi-Rigid cable | 1 |
| P652-3CC | .049 min. | .047 Microporous cable | 1 |
| P652-4CC | .088 min. | .085 Microporous cable | 1 |
| P652-5CC | .049 min. | .047 Semi-Rigid cable | 2 |
| P652-6CC | .088 min. | .085 Semi-Rigid cable | 2 |
| P652-7CC | .049 min. | .047 Microporous cable | 2 |
| P652-8CC | .088 min. | .085 Microporous cable | 2 |

Center conductor is captivated.
Standard units are gold finish.

P652-2, 4, 6, 8, Refer to Assembly Instruction 291 on page 209
P652-1, 3, 5, 7, Refer to Assembly Instruction 301 on page 214

P659

SMP female miter right angle to Semi-Rigid cable (18GHz)

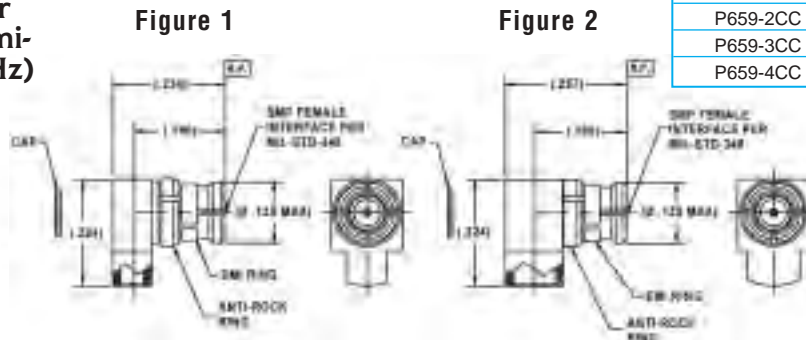


Figure 1

Figure 2

| Tensolite Part No. | Cable Types | Fig. |
|--------------------|---------------------------|------|
| P659-1CC | .047 Semi-Rigid/Semi-Flex | 1 |
| P659-2CC | .085 Semi-Rigid/Semi-Flex | 2 |
| P659-3CC | .047 Microporous | 1 |
| P659-4CC | .085 Microporous | 2 |

Center conductor is captivated.
Standard units are gold finish.

P659-2, 4, Refer to Assembly Instruction 307 on page 219
P659-1, 3, Refer to Assembly Instruction 308 on page 220

SMP Semi-Rigid Cable Connectors

SMP Right Angle Cable Connectors

P655

SMP female miter right angle to Semi-Rigid cable (26.5 GHz version)

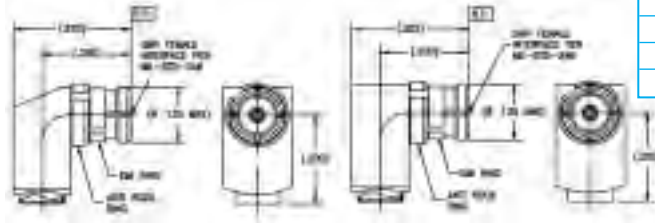


Figure 1

Figure 2

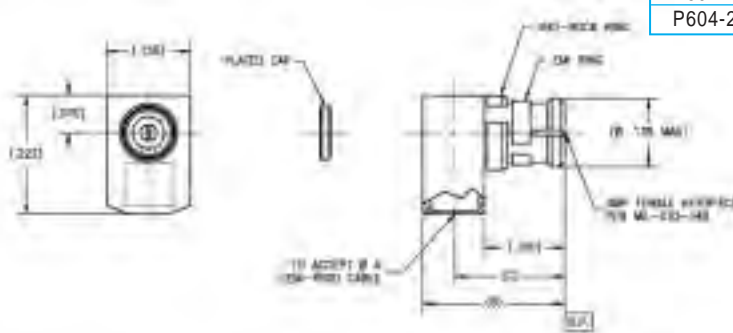
| Tensolite Part No. | Cable Types | Fig. |
|--------------------|---------------------------|------|
| P655-1CC | .047 Semi-Rigid/Semi-Flex | 1 |
| P655-2CC | .085 Semi-Rigid/Semi-Flex | 1 |
| P655-3CC | .047 Microporous | 1 |
| P655-4CC | .085 Microporous | 1 |
| P655-9CC | .047 Semi-Rigid/Semi-Flex | 2 |
| P655-10CC | .085 Semi-Rigid/Semi-Flex | 2 |
| P655-11CC | .047 Microporous | 2 |
| P655-12CC | .085 Microporous | 2 |

Center conductor is captivated.
Standard units are gold finish.

P655-2, 4, 6, 8, Refer to Assembly Instruction 311 on page 223
P655-1, 3, 5, 7, Refer to Assembly Instruction 312 on page 224

P604

SMP female miter right angle to Semi-Rigid cable (18.0 GHz version)



| Tensolite Part No. | ØA | (B) | (C) |
|--------------------|------|--------|--------|
| P604-1CC | .085 | (.265) | (.205) |
| P604-2CC | .047 | (.230) | (.190) |

Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

P665

SMP female miter right angle to Semi-Rigid cable (26.5 GHz version)

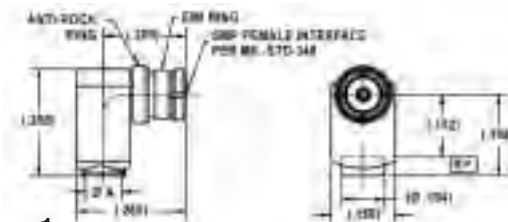


Figure 1

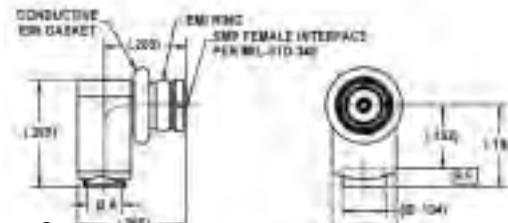


Figure 2

| Tensolite Part No. | (Ø A) | Cable Types | Fig. |
|--------------------|----------|------------------|------|
| P665-1CC | .049 Min | .047 Semi-Rigid | 1 |
| P665-2CC | .088 Min | .085 Semi-Rigid | 1 |
| P665-3CC | .049 Min | .047 Microporous | 1 |
| P665-4CC | .088 Min | .085 Microporous | 1 |
| P665-5CC | .049 Min | .047 Semi-Rigid | 2 |
| P665-6CC | .088 Min | .085 Semi-Rigid | 2 |
| P665-7CC | .049 Min | .047 Microporous | 2 |
| P665-8CC | .088Min | .085 Microporous | 2 |

Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

SMP Straight Cable Connectors

P657

SMP female straight to flex cable

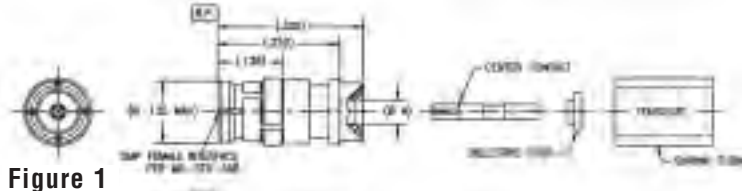


Figure 1

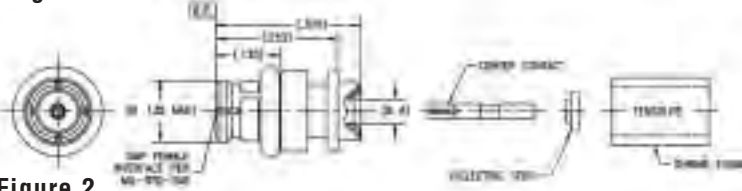


Figure 2

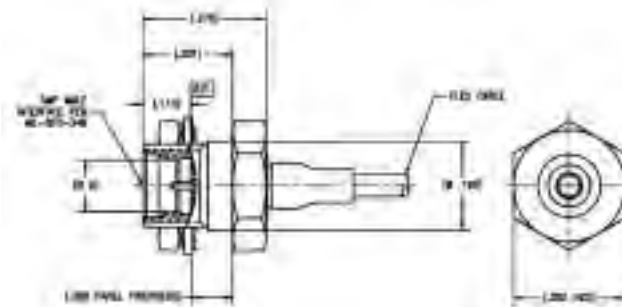
| Tensolite Part No. | Cable Types | Fig. | (Ø A) |
|--------------------|-------------|------|-------|
| P657-1CC | RG178 | 1 | .056 |
| P657-2CC | RG316 | 1 | .084 |
| P657-3CC | RD178 | 1 | .075 |
| P657-5CC | RG178 | 2 | .056 |
| P657-6CC | RG316 | 2 | .084 |
| P657-7CC | RD178 | 2 | .075 |
| P657-9CC | LLF-1087 | 1 | .090 |

Center conductor is captivated.
Standard units are gold finish.

Refer to Assembly Instruction 365 on page 234

P661

SMP male bulkhead connector for flex cables



| Tensolite Part No. | Interface | (Ø A) | Cable Types |
|--------------------|----------------|-------|-------------|
| P661-1CC | Full Detent | .116 | RG-178 |
| P661-2CC | Limited Detent | .120 | RG-178 |
| P661-3CC | Smooth Bore | .125 | RG-178 |
| P661-4CC | Full Detent | .116 | RD-178 |
| P661-5CC | Limited Detent | .120 | RD-178 |
| P661-6CC | Smooth Bore | .125 | RD-178 |
| P661-7CC | Full Detent | .116 | RG-316 |
| P661-8CC | Limited Detent | .120 | RG-316 |
| P661-9CC | Smooth Bore | .125 | RG-316 |
| P661-10CC | Full Detent | .116 | RD-316 |
| P661-11CC | Limited Detent | .120 | RD-316 |
| P661-12CC | Smooth Bore | .125 | RD-316 |

Center conductor is captivated.
Standard units are gold finish.

Refer to Assembly Instruction 334 on page 231

P663

SMP male panel mount straight to flex cable

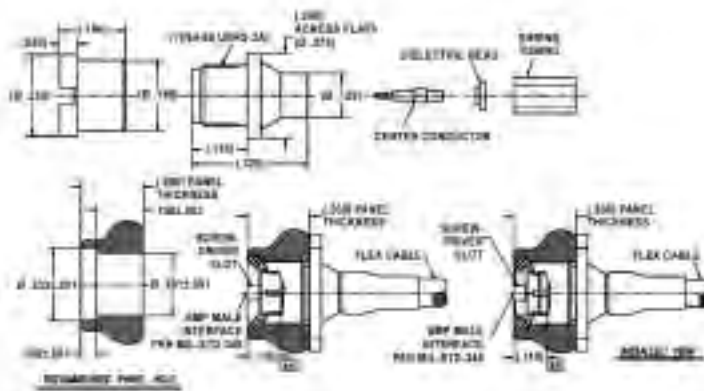


Figure 1

Figure 2

| Tensolite Part No. | Interface | Fig. | Cable Types |
|--------------------|----------------|------|---------------|
| P663-1CC | Catcher's Mitt | 1 | M17/93-RG178 |
| P663-2CC | Catcher's Mitt | 1 | RD178 |
| P663-3CC | Catcher's Mitt | 1 | M17/113-RG316 |
| P663-4CC | Catcher's Mitt | 1 | RD316 |
| P663-5CC | Limited Detent | 2 | M17/93-RG178 |
| P663-6CC | Limited Detent | 2 | RD178 |
| P663-7CC | Limited Detent | 2 | M17/113-RG316 |
| P663-8CC | Limited Detent | 2 | RD316 |
| P663-9CC | Full Detent | 2 | M17/93-RG178 |
| P663-10CC | Full Detent | 2 | RD178 |
| P663-11CC | Full Detent | 2 | M17/113-RG316 |
| P663-12CC | Full Detent | 2 | RD316 |

Center conductor is captivated.
Standard units are gold finish.

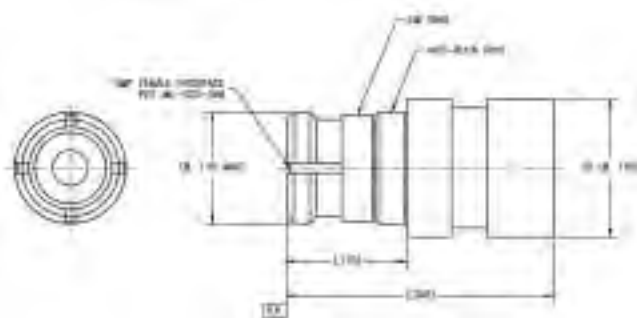
Consult factory for Assembly Instructions

SMP Caps, Shorts, Opens & Loads

Standard units are gold finish.

P667-1

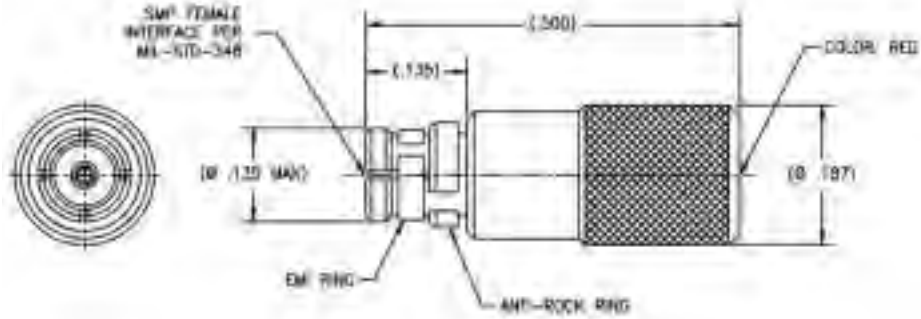
SMP (protective cap)



SMP Loads & Terminations

P930-1CC

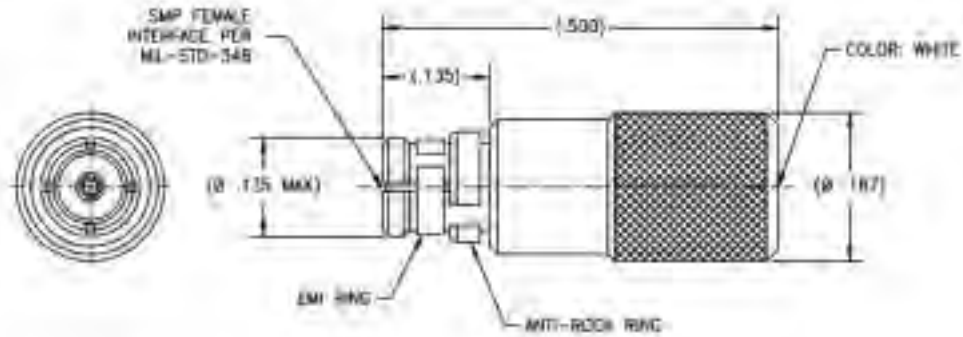
SMP female short



Center conductor is captivated.
Standard units are gold finish.

P931-1

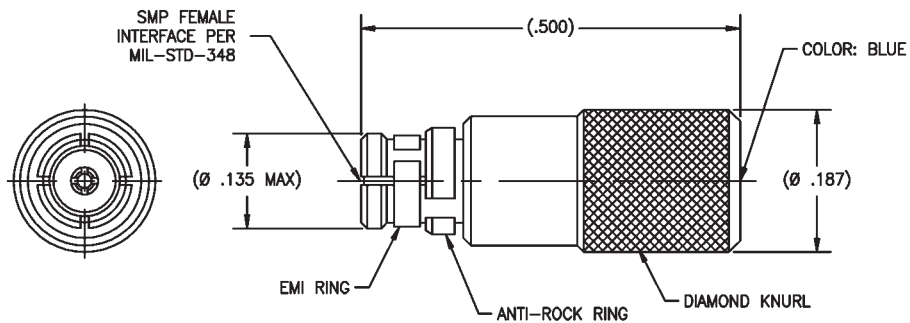
SMP female open



Center conductor is captivated.
Standard units are gold finish.

P918-1CC

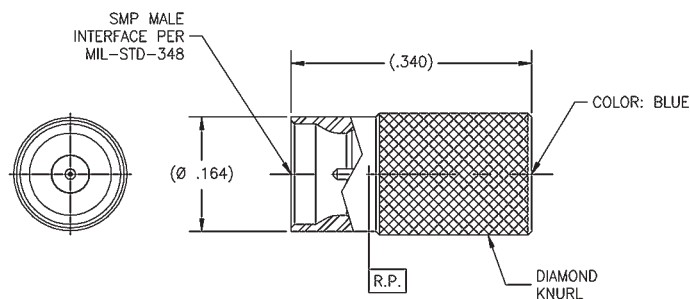
SMP female straight to 50 Ohm load termination



Center conductor is captivated.
Standard units are gold finish.

P919

SMP male straight 50 Ohm load termination



| Tensolite Part Number | Interface |
|-----------------------|----------------|
| P919-1CCSF | Full Detent |
| P919-2CCSF | Limited Detent |
| P919-3CCSF | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.

SMP Panel Mount Connectors

P674

SMP male thread in style to straight termination



Figure 1

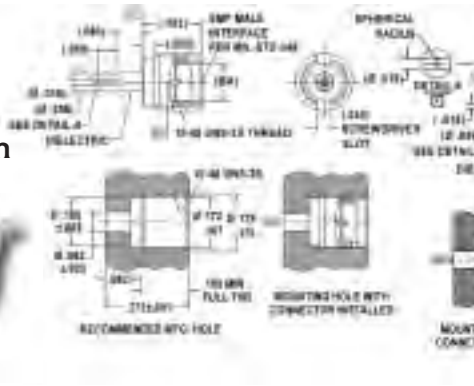
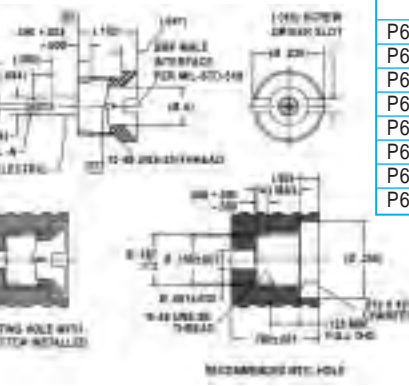


Figure 2



| Tensolite Part No. | Interface(s) | (Ø A) | Fig. |
|--------------------|----------------|-------|------|
| P674-1CCSF | Full Detent | .116 | 1 |
| P674-2CCSF | Limited Detent | .120 | 1 |
| P674-3CCSF | Smooth Bore | .125 | 1 |
| P674-4CCSF | Catcher's Mitt | .125 | 2 |
| P674-5CCSF | Full Detent | .116 | 1 |
| P674-6CCSF | Limited Detent | .120 | 1 |
| P674-7CCSF | Smooth Bore | .125 | 1 |
| P674-8CCSF | Catcher's Mitt | .125 | 2 |

Center conductor is captivated.
Standard units are gold finish.

P674-1, 2, 3, 4 Refer to Assembly Instruction 359 on page 232

P678

SMP male 2 hole flange mount straight termination



Figure 1

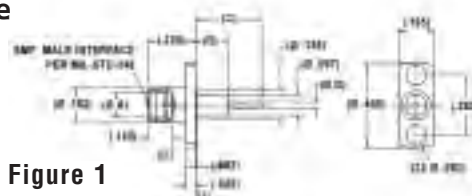


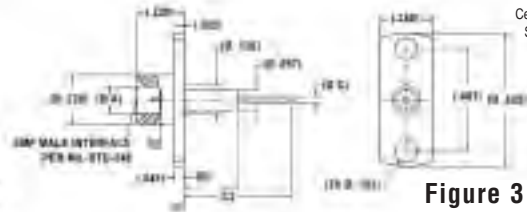
Figure 2



| Tensolite Part No. | Interface(s) | (Ø A) | (B) | (C) | (Ø D) | Fig. |
|--------------------|----------------------|-------|------|------|-------|------|
| P678-1CCSF | Full Detent | .116 | .150 | .310 | .030 | 1 |
| P678-2CCSF | Limited Detent | .120 | .150 | .310 | .030 | 1 |
| P678-3CCSF | Smooth Bore | .125 | .150 | .310 | .030 | 1 |
| P678-4CCSF | Full Detent | .116 | .115 | .185 | .030 | 1 |
| P678-5CCSF | Smooth Bore | .125 | .090 | .187 | .030 | 1 |
| P678-6CCSF | Catcher's Mitt (Mod) | .125 | NR | .200 | .030 | 2 |
| P678-7CCSF | Catcher's Mitt (Mod) | .125 | NR | .160 | .012 | 2 |
| P678-8CCSF | Catcher's Mitt | .125 | .250 | .500 | .030 | 3 |

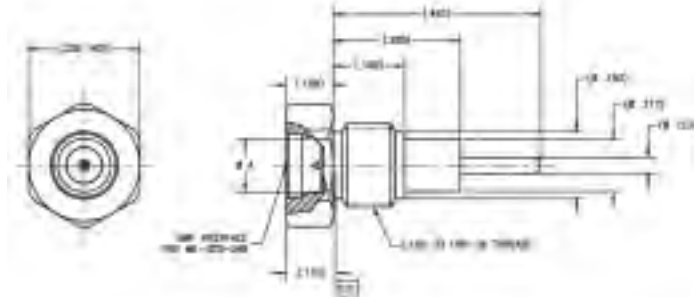
Center conductor is captivated.
Standard finish is passivated.

Figure 3



P834

SMP male thread-in style to Ø .036 straight termination



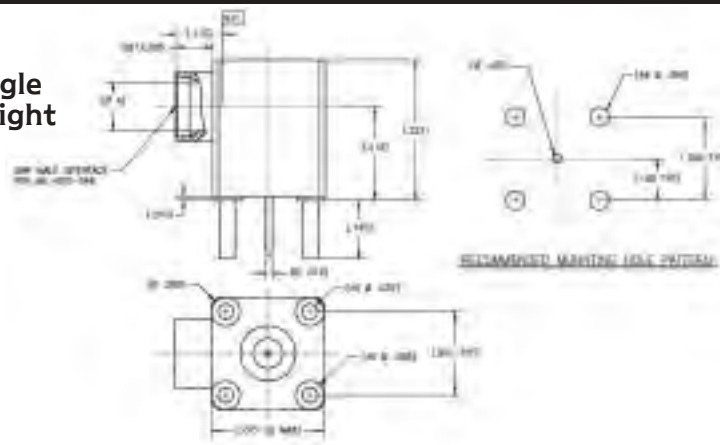
| Tensolite Part No. | (ØA) | Interface |
|--------------------|------|----------------|
| P834-1CCSF | .116 | Full Detent |
| P834-2CCSF | .120 | Limited Detent |
| P834-3CCSF | .125 | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.
Standard finish is passivated.

SMP Circuit Board Connectors

P602

SMP male right angle TCB mount to straight termination



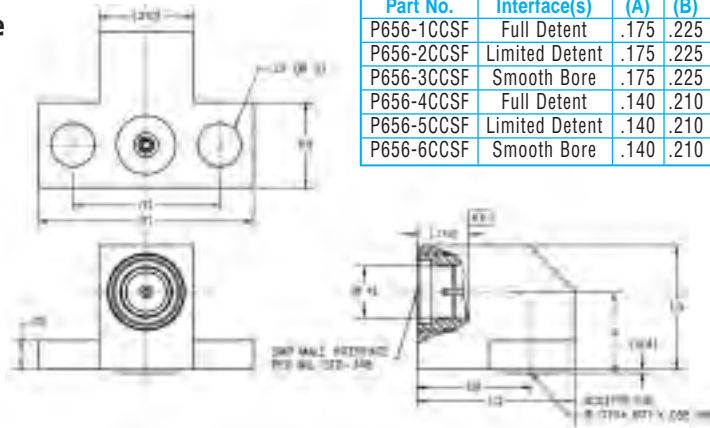
| Tensolite Part No. | Interface | (ØA) |
|--------------------|----------------|------|
| P602-1CC | Smooth Bore | .125 |
| P602-2CC | Limited Detent | .120 |
| P602-3CC | Full Detent | .116 |

Center conductor is captivated.
Standard units are gold finish.

SMP Circuit Board Connectors

P656

SMP male to female right angle 2 hole flange mount

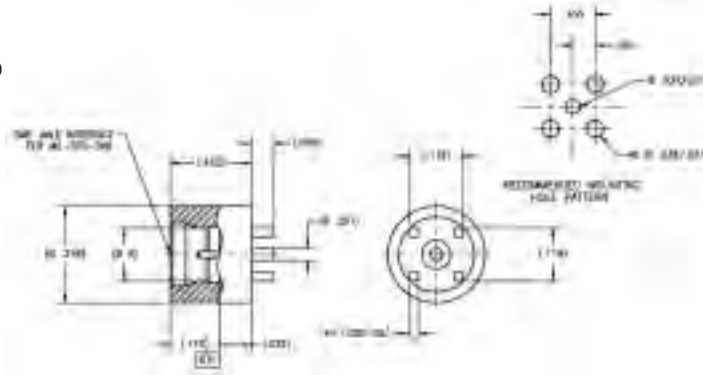


| Tensolite Part No. | Interface(s) | (A) | (B) | (C) | (D) | (E) | (F) | (ØG) | (H) | (J) | (ØK) |
|--------------------|----------------|------|------|------|------|------|------|------|------|------|------|
| P656-1CCSF | Full Detent | .175 | .225 | .352 | .065 | .328 | .480 | .098 | .192 | .280 | .116 |
| P656-2CCSF | Limited Detent | .175 | .225 | .352 | .065 | .328 | .480 | .098 | .192 | .280 | .120 |
| P656-3CCSF | Smooth Bore | .175 | .225 | .352 | .065 | .328 | .480 | .098 | .192 | .280 | .125 |
| P656-4CCSF | Full Detent | .140 | .210 | .295 | .045 | .282 | .400 | .076 | .170 | .240 | .116 |
| P656-5CCSF | Limited Detent | .140 | .210 | .295 | .045 | .282 | .400 | .076 | .170 | .240 | .120 |
| P656-6CCSF | Smooth Bore | .140 | .210 | .295 | .045 | .282 | .400 | .076 | .170 | .240 | .125 |

Center conductor is captivated.
Standard finish is passivated.

P695

SMP male straight to PCB mount



| Tensolite Part No. | (ØA) | Interface |
|--------------------|------|----------------|
| P695-1CCSF | .120 | Limited Detent |
| P695-2CCSF | .116 | Full Detent |
| P695-3CCSF | .125 | Smooth Bore |

Center conductor is captivated.
Standard finish is passivated.

P696

SMP male straight to PCB mount

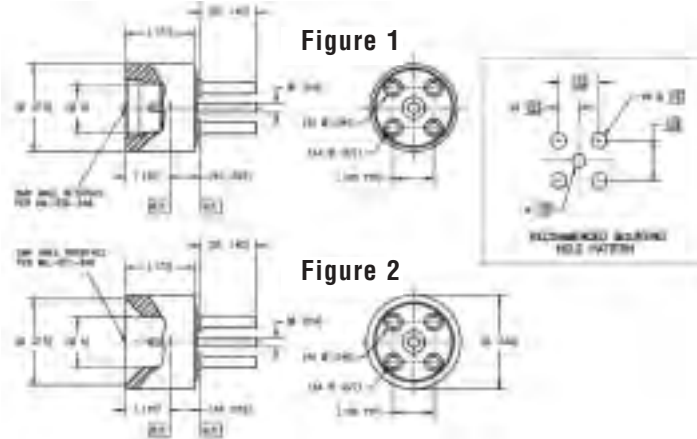


Figure 1

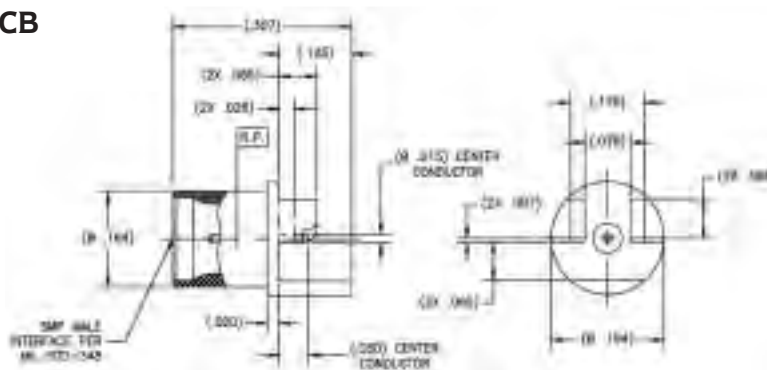
Figure 2

| Tensolite Part No. | Interface(s) | (Ø A) | Fig. |
|--------------------|----------------|-------|------|
| P696-1CCSF | Full Detent | .116 | 1 |
| P696-2CCSF | Limited Detent | .120 | 1 |
| P696-3CCSF | Smooth Bore | .125 | 2 |
| P696-4CCSF | Catcher's Mitt | .125 | 2 |

Center conductor is captivated.
Standard finish is passivated.

P698

SMP male straight PCB edge mount

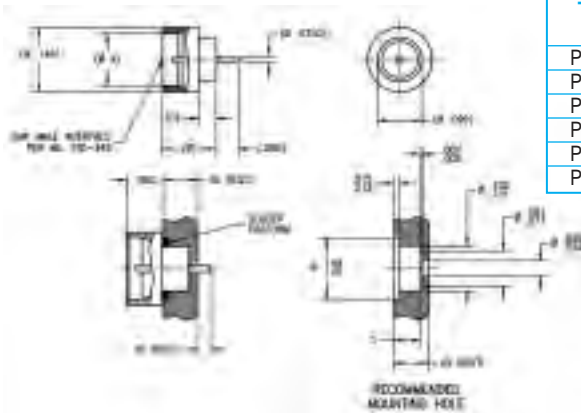


| Tensolite Part Number | Interface |
|-----------------------|----------------|
| P698-1CC | Full Detent |
| P698-2CC | Limited Detent |
| P698-3CC | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.

P680

SMP male straight to termination (Hermetic)



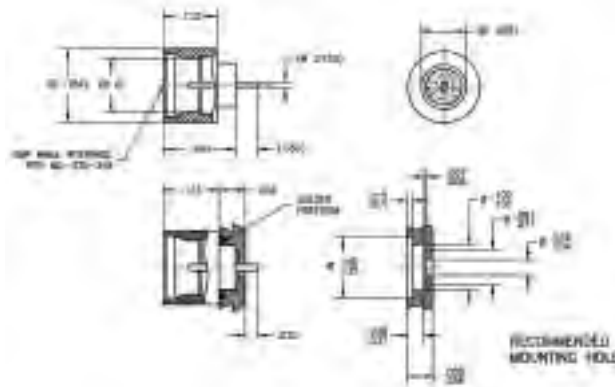
| Tensolite Part No. | Interface(s) | (Ø A) | (B) | (C) | (D) |
|--------------------|----------------|-------|------|------|-----------|
| P680-1CC | Full Detent | .116 | .120 | .040 | .037/.039 |
| P680-2CC | Limited Detent | .120 | .120 | .040 | .037/.039 |
| P680-3CC | Smooth Bore | .125 | .120 | .040 | .037/.039 |
| P680-4CC | Full Detent | .116 | .140 | .060 | .057/.059 |
| P680-5CC | Limited Detent | .120 | .140 | .060 | .057/.059 |
| P680-6CC | Smooth Bore | .125 | .140 | .060 | .057/.059 |

Center conductor is captivated.
Standard units are gold finish.

Refer to Assembly Instruction 293 on page 211

P681

SMP male straight to termination (Hermetic)



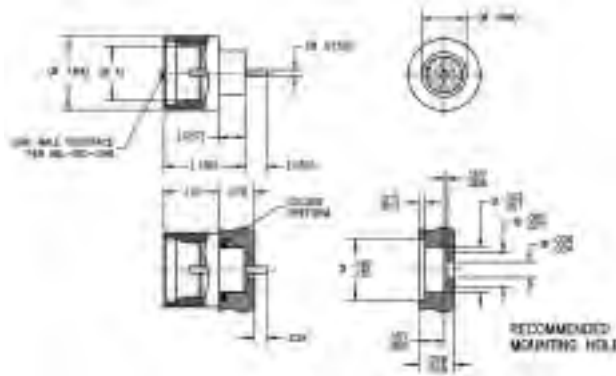
| Tensolite Part No. | (ØA) | Interface (s) |
|--------------------|------|----------------|
| P681-1CC | .116 | Full Detent |
| P681-2CC | .120 | Limited Detent |
| P681-3CC | .125 | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.

Refer to Assembly Instruction 302 on page 215

P682

SMP male straight to termination (Hermetic)



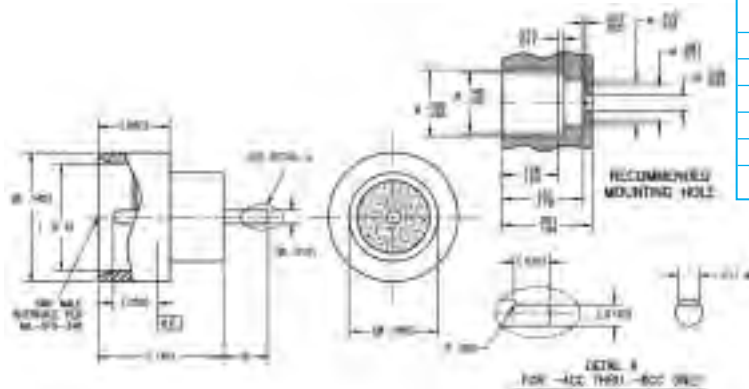
| Tensolite Part No. | (ØA) | Interface (s) |
|--------------------|------|----------------|
| P682-1CC | .116 | Full Detent |
| P682-2CC | .120 | Limited Detent |
| P682-3CC | .125 | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.

Refer to Assembly Instruction 303 on page 216

P786

SMP male straight to termination (Hermetic)



| Tensolite Part No. | Interface (s) | (ØA) | B |
|--------------------|----------------|------|-----------|
| P786-1CC | Full Detent | .116 | .050 |
| P786-2CC | Smooth Bore | .125 | .050 |
| P786-3CC | Limited Detent | .120 | .050 |
| P786-4CC | Full Detent | .116 | .075/.072 |
| P786-5CC | Smooth Bore | .125 | .075/.072 |
| P786-6CC | Limited Detent | .120 | .075/.072 |

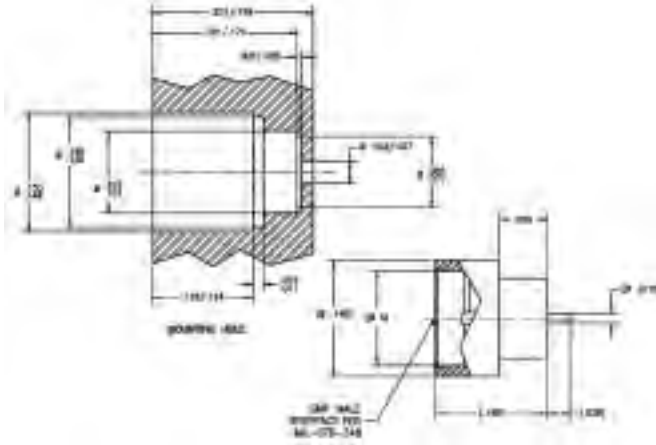
Center conductor is captivated.
Standard units are gold finish.

P790

SMP male straight to termination (Hermetic)

| Tensolite Part No. | (ØA) | Interface (s) |
|--------------------|------|----------------|
| P790-1CC | .116 | Full Detent |
| P790-2CC | .120 | Limited Detent |
| P790-3CC | .125 | Smooth Bore |

Center conductor is captivated.
Standard units are gold finish.

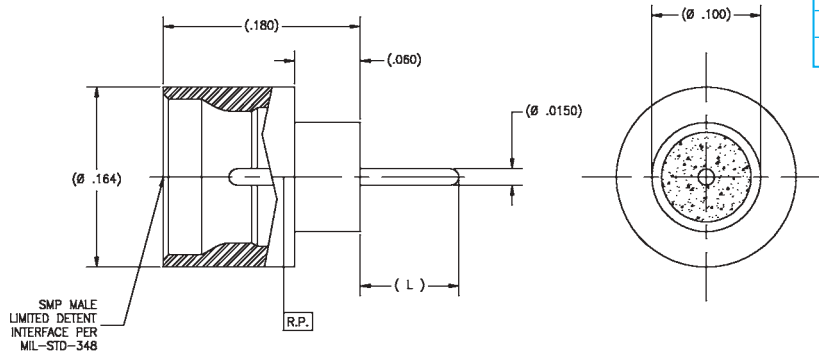


P794

SMP male limited detent straight to termination (Hermetic)

| Tensolite Part No. | (L) |
|--------------------|--------|
| P794-1CC | (.090) |
| P794-2CC | (.070) |
| P794-3CC | (.050) |

Center conductor is captivated.
Standard units are gold finish.



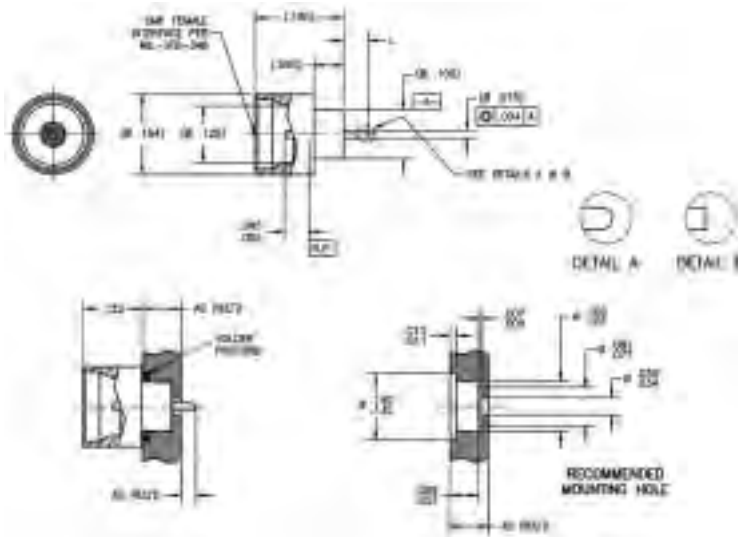
Refer to Assembly Instruction 367 on page 235

P840

SMP male full detent straight to termination (Hermetic)

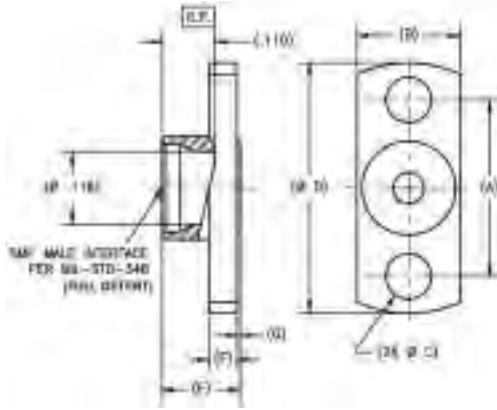
| Tensolite Part No. | L | Detail |
|--------------------|------|--------|
| P840-1CC | .030 | A |
| P840-2CC | .030 | B |
| P840-3CC | .040 | A |
| P840-4CC | .040 | B |
| P840-5CC | .050 | A |
| P840-6CC | .050 | B |
| P840-7CC | .060 | A |
| P840-8CC | .060 | B |
| P840-9CC | .070 | A |
| P840-10CC | .070 | B |
| P840-11CC | .080 | A |
| P840-12CC | .080 | B |
| P840-13CC | .090 | A |
| P840-14CC | .090 | B |
| P840-15CC | .100 | A |
| P840-16CC | .100 | B |
| P840-17CC | .110 | A |
| P840-18CC | .110 | B |
| P840-19CC | .120 | A |
| P840-20CC | .120 | B |
| P840-21CC | .130 | A |
| P840-22CC | .130 | B |
| P840-23CC | .085 | A |
| P840-24CC | .085 | B |

Center conductor is captivated.
Standard units are gold finish.



P670

SMP full detent straight 2 hole flange mount shroud



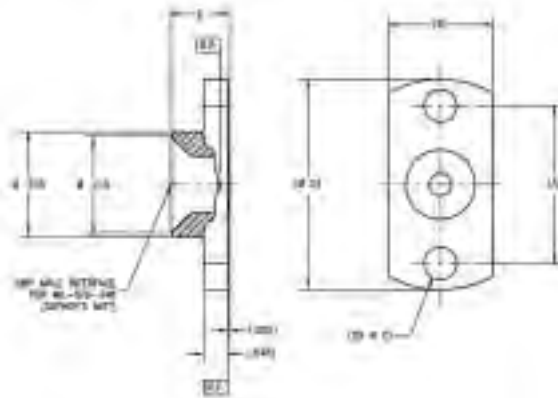
| Tensolite Part No. | (A) | (B) | (Ø C) | (Ø D) | (E) | (F) | (G) |
|--------------------|------|------|-------|-------|------|------|------|
| P670-1SF | .328 | .187 | .098 | .480 | .120 | .045 | .004 |
| P670-2SF | .481 | .223 | .102 | .625 | .120 | .045 | .002 |
| P670-3SF | .282 | .165 | .073 | .400 | .120 | .045 | .002 |
| P670-4SF | .400 | .186 | .103 | .550 | .120 | .045 | .004 |
| P670-5SF | .228 | .165 | .073 | .400 | .120 | .045 | .005 |
| P670-6SF | .282 | .165 | * | .400 | .120 | .045 | .005 |
| P670-7SF | NR | NR | NR | .625 | .120 | .045 | .002 |
| P670-8SF | .481 | .223 | .102 | .625 | .120 | .045 | .004 |
| P670-9SF | .282 | .165 | .073 | .400 | .120 | .045 | .004 |
| P670-10SF | .382 | .187 | .098 | .480 | .120 | .045 | .005 |

* 2X #0-80 UNF-2B X Ø .085 X 90° countersink
Standard finish is passivated.

Refer to Assembly Instruction 305 on page 217

P671

SMP shroud, catcher's mitt 2 hole flange mount



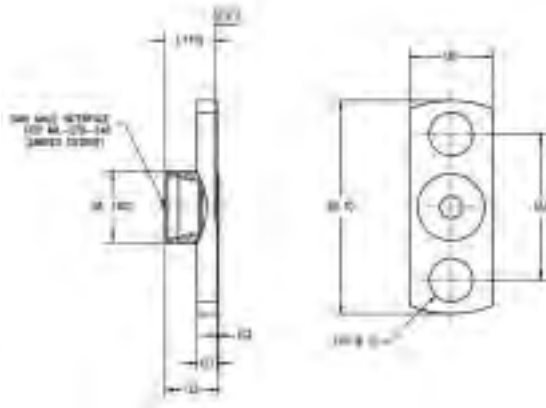
| Tensolite Part No. | (A) | (B) | (Ø C) | (Ø D) | (E) |
|--------------------|------|------|-------|-------|------|
| P671-1SF | .352 | .235 | .073 | .470 | .120 |
| P671-2SF | .481 | .235 | .102 | .625 | .120 |
| P671-3SF | .400 | .235 | .073 | .550 | .120 |

Standard finish is passivated.

Refer to Assembly Instruction 305 on page 217

P672

SMP limited detent straight 2 hole flange mount shroud



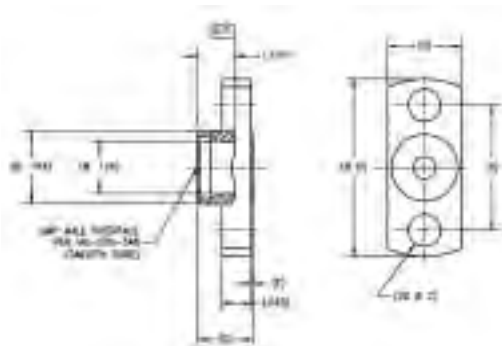
| Tensolite Part No. | (A) | (B) | (Ø C) | (Ø D) | (E) | (F) | (G) |
|--------------------|------|------|-------|-------|------|------|------|
| P672-1SF | .328 | .187 | .098 | .480 | .120 | .045 | .004 |
| P672-2SF | .481 | .223 | .102 | .625 | .120 | .045 | .004 |
| P672-3SF | .282 | .165 | .073 | .400 | .120 | .045 | .002 |
| P672-4SF | .400 | .187 | .103 | .550 | .120 | .045 | .004 |

Standard finish is passivated.

Refer to Assembly Instruction 305 on page 217

P673

SMP shroud smooth bore straight 2 hole flange mount



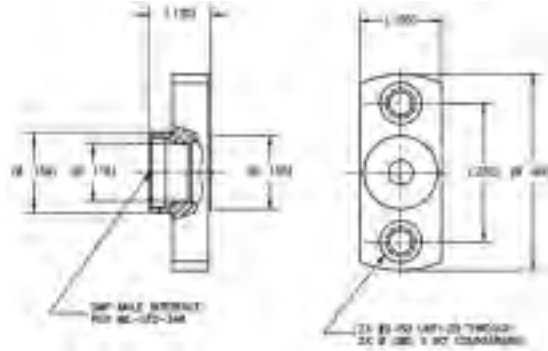
| Tensolite Part No. | (A) | (B) | (Ø C) | (Ø D) | (E) | (F) |
|--------------------|------|------|-------|-------|------|------|
| P673-1SF | .328 | .187 | .098 | .480 | .120 | .004 |
| P673-2SF | .481 | .223 | .102 | .625 | .120 | .002 |
| P673-3SF | .282 | .165 | .073 | .400 | .120 | .002 |

Standard finish is passivated.

Refer to Assembly Instruction 305 on page 217

P739-ISF

SMP full detent shroud



Standard finish is passivated.

Consult factory for Assembly Instructions

P676

SMP shroud, thread in style

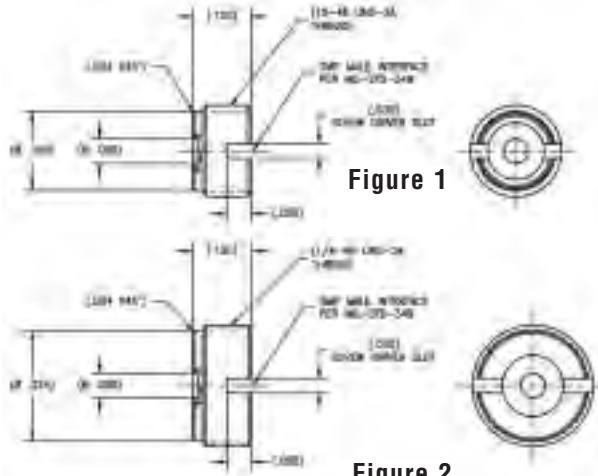


Figure 1

Figure 2

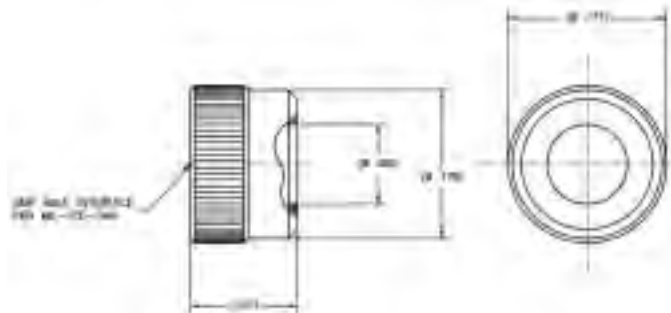
| Tensolite Part Number | Interface | Fig. |
|-----------------------|----------------|------|
| P676-1SF | Full Detent | 1 |
| P676-2SF | Limited Detent | 1 |
| P676-3SF | Smooth Bore | 1 |
| P676-4SF | Catcher's Mitt | 2 |

Standard finish is passivated.

Refer to Assembly Instruction 306 on page 218

P675

SMP press in shroud



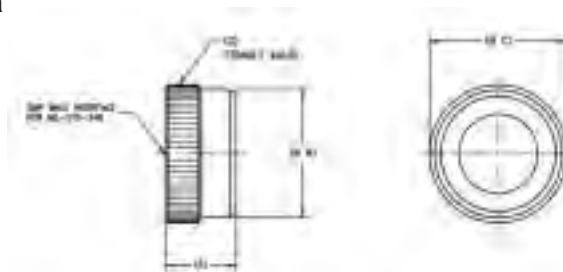
| Tensolite Part Number | Interface |
|-----------------------|----------------|
| P675-1SF | Full Detent |
| P675-2SF | Limited Detent |
| P675-3SF | Smooth Bore |

Standard finish is passivated.

Consult factory for Assembly Instructions

P769

SMP full detent press-in shroud



| Tensolite Part No. | (A) | (ØB) | (ØC) | (D) |
|--------------------|------|------|------|------|
| P769-1SF | .080 | .143 | .154 | 50P |
| P769-2SF | .120 | .163 | .174 | 50P |
| P769-3SF | .115 | .163 | .184 | 128P |

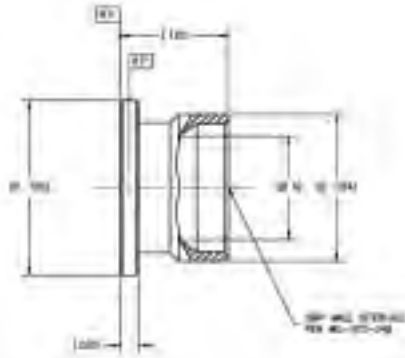
Standard finish is passivated.

Consult factory for Assembly Instructions

SMP Surface Mount Connectors

P677

SMP shroud solder-in surface mount



| Tensolite Part Number | Interface | (ØA) |
|-----------------------|----------------|------|
| P677-1 | Full Detent | .116 |
| P677-2 | Limited Detent | .120 |
| P677-3 | Smooth Bore | .125 |

Standard units are gold finish.

P702

SMP male straight surface mount

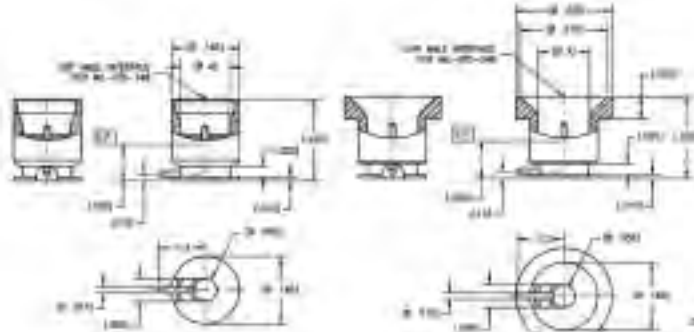
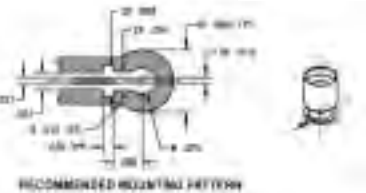


Figure 1

Figure 2

| Tensolite Part Number | Interface | Fig. | (ØA) |
|-----------------------|----------------|------|------|
| P702-1CC | Full Detent | 1 | .116 |
| P702-2CC | Limited Detent | 1 | .120 |
| P702-3CC | Smooth Bore | 1 | .125 |
| P702-4CC | Catcher's Mitt | 2 | .125 |

Center conductor is captivated.
Standard units are gold finish.



P703

SMP male straight PCB surface mount

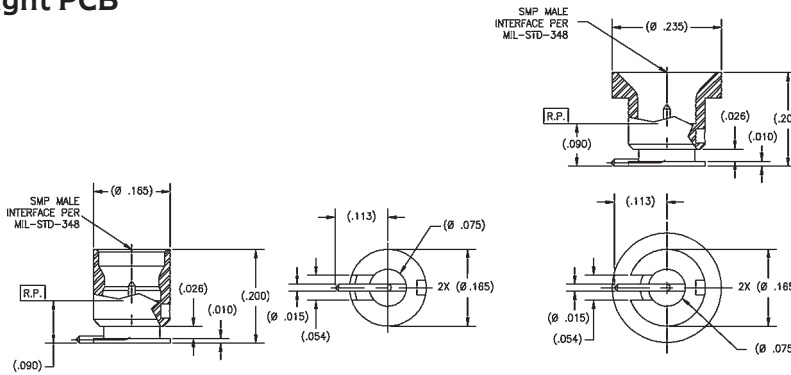


Figure 1

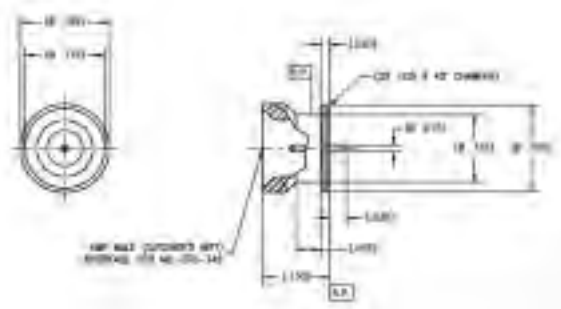
Figure 2

| Tensolite Part Number | Interface | Figure |
|-----------------------|----------------|--------|
| P703-1CC | Full Detent | 1 |
| P703-2CC | Limited Detent | 1 |
| P703-3CC | Smooth Bore | 1 |
| P703-4CC | Catcher's Mitt | 2 |

Center conductor is captivated.
Standard units are gold finish.

P757-1CC

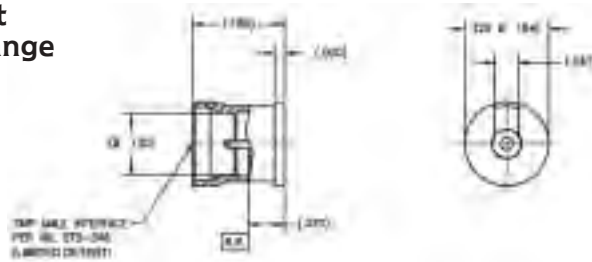
SMP male catcher's mitt surface mount to straight termination



Center conductor is captivated.
Standard units are gold finish.

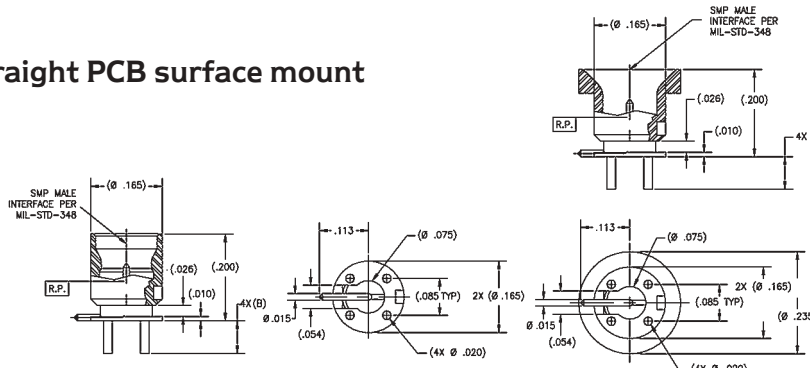
P775-1

SMP male limited detent surface mount round flange



P797

SMP male straight PCB surface mount



| Tensolite Part Number | Interface | Figure |
|-----------------------|----------------|--------|
| P797-1CC | Full Detent | 1 |
| P797-2CC | Limited Detent | 1 |
| P797-3CC | Smooth Bore | 1 |
| P797-4CC | Catcher's Mitt | 2 |
| P797-5CC | Full Detent | 1 |
| P797-6CC | Limited Detent | 1 |
| P797-7CC | Smooth Bore | 1 |
| P797-8CC | Catcher's Mitt | 2 |

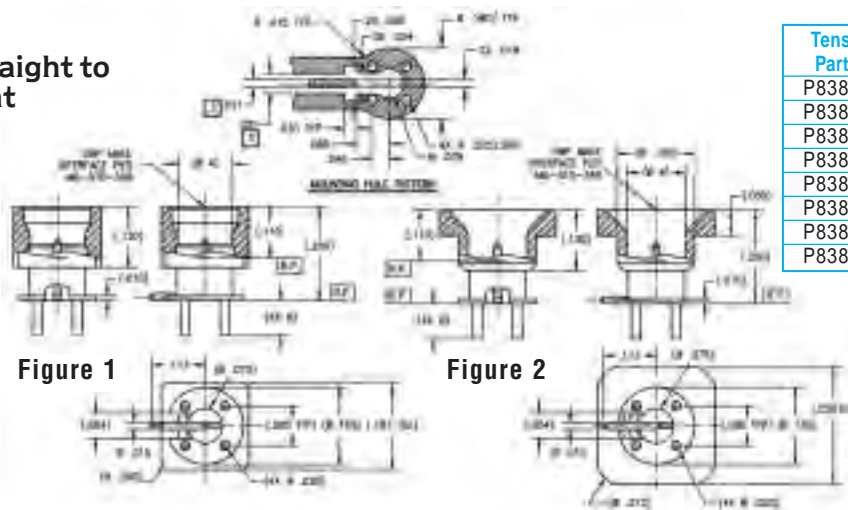
Center conductor is captivated. Standard units are gold finish.

Figure 1

Figure 2

P838

SMP male straight to surface mount



| Tensolite Part No. | Interface | (Ø A) | (B) | Fig. |
|--------------------|----------------|-------|------|------|
| P838-1CC | Full Detent | .116 | .075 | 1 |
| P838-2CC | Limited Detent | .120 | .075 | 1 |
| P838-3CC | Smooth Bore | .125 | .075 | 1 |
| P838-4CC | Catcher's Mitt | .125 | .075 | 2 |
| P838-5CC | Full Detent | .116 | .140 | 1 |
| P838-6CC | Limited Detent | .120 | .140 | 1 |
| P838-7CC | Smooth Bore | .125 | .140 | 1 |
| P838-8CC | Catcher's Mitt | .125 | .140 | 2 |

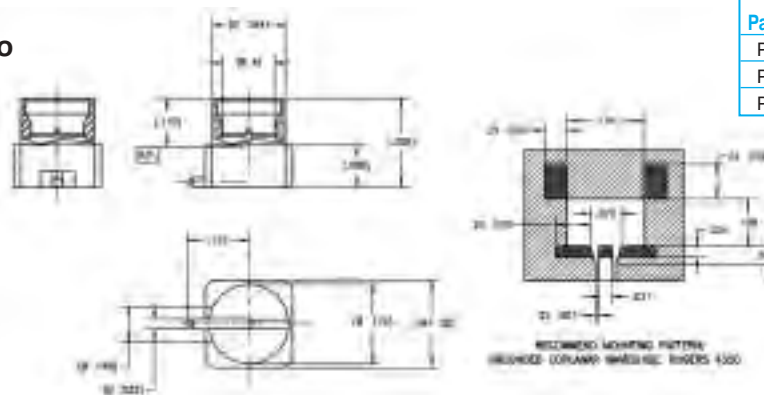
Center conductor is captivated. Standard units are gold finish.

Figure 1

Figure 2

P839

SMP male straight to surface mount



| Tensolite Part Number | Interface | (ØA) |
|-----------------------|----------------|------|
| P839-1CC | Full Detent | .116 |
| P839-2CC | Limited Detent | .120 |
| P839-3CC | Smooth Bore | .125 |

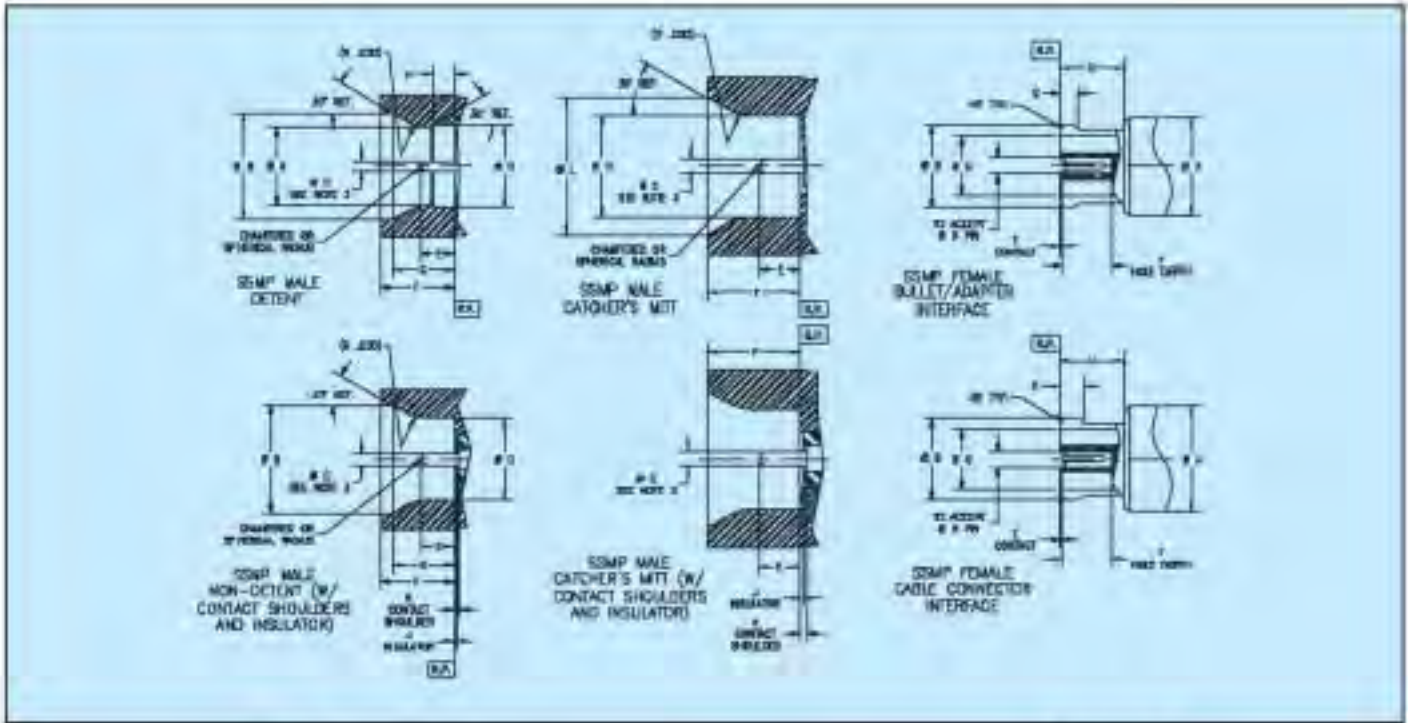
Center conductor is captivated. Standard units are gold finish.

SSMP Series

SSMP Series



SSMP Interface Mating Dimensions (Per MIL-STD-348)



MALE

| LTR | Minimum | | Maximum | |
|------------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | ---- | ---- | .085 | 2.16 |
| ∅ B | .113 | 2.87 | ---- | ---- |
| ∅ C ¹ | .011 | 0.28 | .013 | 0.33 |
| ∅ D | .086 | 2.18 | ---- | ---- |
| E | .030 | 0.76 | .045 | 1.14 |
| F | ---- | ---- | .084 | 2.13 |
| G | ---- | ---- | .069 | 1.75 |
| H | .021 | 0.53 | ---- | ---- |
| J ² | .000 | 0.00 | -.006 | -0.15 |
| K ² | .000 | 0.00 | -.006 | -0.15 |
| ∅ L | .130 | 3.30 | ---- | ---- |

FEMALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| ∅ A | ---- | ---- | .109 | 2.77 |
| ∅ B | ---- | ---- | .095 | 2.41 |
| ∅ C | .063 | 1.60 | ---- | ---- |
| ∅ D | .011 | 0.28 | .013 | 0.33 |
| E ¹ | .000 | 0.00 | -.006 | -0.15 |
| F | .050 | 1.27 | ---- | ---- |
| G | ---- | ---- | .021 | 0.53 |
| H | .068 | 1.73 | ---- | ---- |
| ∅ J | ---- | ---- | .112 | 2.84 |
| K | ---- | ---- | .028 | 0.71 |

Note(s):

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
3. Pin is not supplied with shroud.
4. Dielectric insulator gap is measured from connector body reference plane .000 in max above (flush) to .006 in max below.
5. Contact gap is measured from connector body reference plane .000 in max above (flush) to .006 in max below.

SSMP Specifications

The specifications below are general specifications for all SSMP™ connectors. Specific specifications for VSWR, insertion loss, and RF leakage for each connector is

available from the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings:

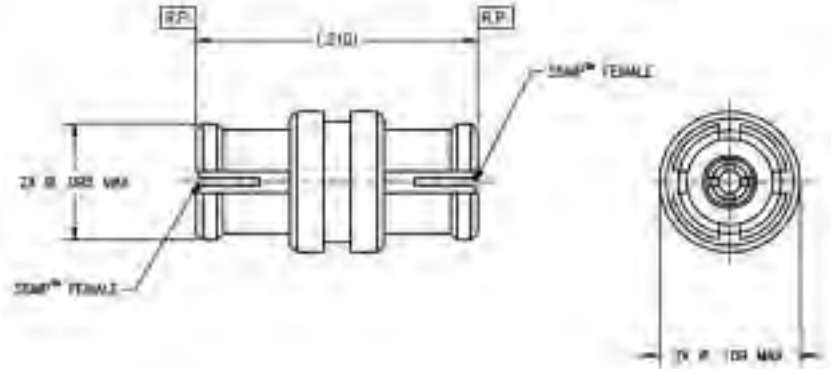
| Requirement | Specifications |
|--|--|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, AMS 5587, AMS 5370 Brass Alloy per ASTM B-10 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per ZZ-R-765, CLASS IIB, 50-60 Shore |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-486, Type 2, Code C or D over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are tolerances only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 5,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | 9 lbs. max engage, 4 lbs. min. withdrawal |
| Misalignment | #-.012 Radial, .000/.007 Axial |
| Cable Retention Force | Consult factory. |
| Mating Characteristics | Female only: 1/4 oz. min. withdrawal with .0110 - .0003 \pm .0002 diameter pin. |
| Connector Durability | 100 min. insertion and withdrawal with detent mate. 5000 min. insertion and withdrawal with non-detent mate. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 105, Test Condition B. No measurement at high humidity. |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

Complete specifications on every product in this catalog are available from the factory.

SSMP In-Series Adapters

PI01-ICC

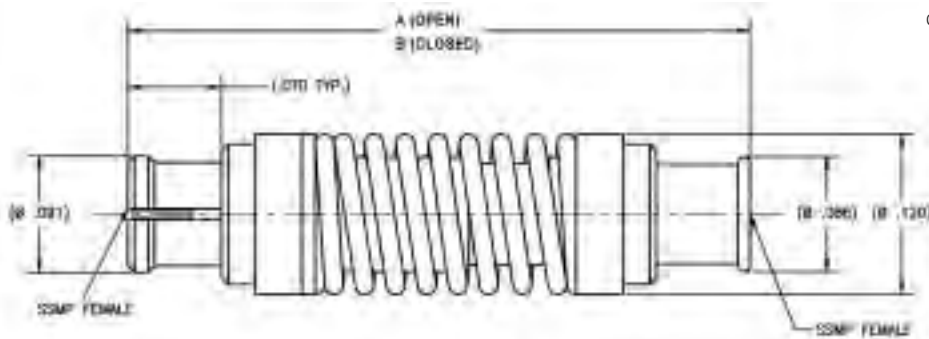
SSMP female straight to female adapter



Center conductor is captivated.
Standard units are gold finish.

PI38-ICC

SSMP female spring loaded straight to female adapter



| Tensolite Part No. | (A) | (B) |
|--------------------|------|------|
| P138-1CC | .515 | .465 |

Center conductor is captivated.
Standard units are gold finish.

SSMP Semi-Rigid Cable Connectors

PI05

SSMP female right angle to Semi-Rigid cable



| Tensolite Part No. | Ø A | (B) | (C) |
|--------------------|----------|------|-----|
| P105-1CC | .047 | .250 | 195 |
| P105-2CC | .085 | .250 | 195 |
| P105-3CC | .047 L/L | .178 | 126 |

Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

PI07

SSMP female straight to Semi-Rigid cable

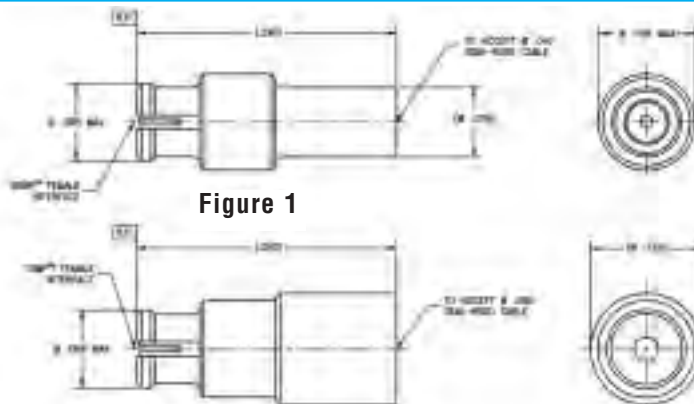


Figure 1

Figure 2

| Tensolite Part No. | Applicable Figure |
|--------------------|-------------------|
| P107-1CC | 1 |
| P107-2CC | 2 |

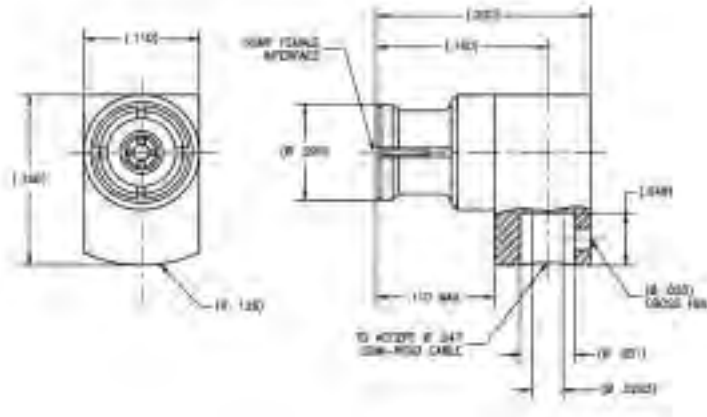
Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

SSMP Semi-Rigid Cable Connectors

P148-1CC

SSMP female
right angle to
Ø .047 S/R cable

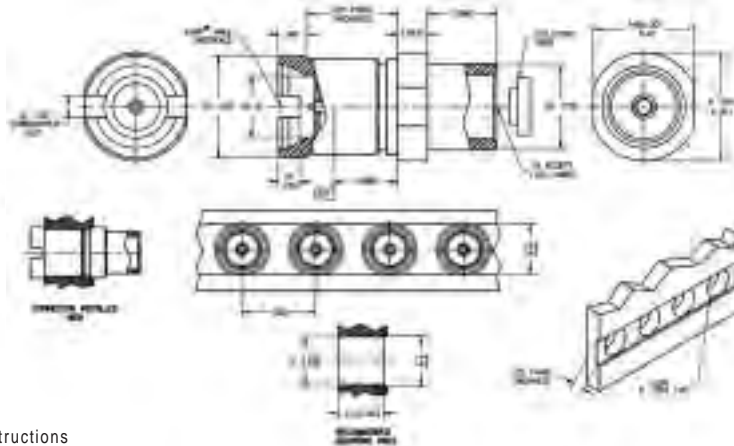


Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

P156

SSMP male
bulkhead mount
straight to
LLF-1087 flex
cable



| Tensolite Part Number | Interface | (Ø A) |
|-----------------------|------------|--------|
| P156-1CCSF | Detent | (.085) |
| P156-2CCSF | Non-Detent | (.088) |

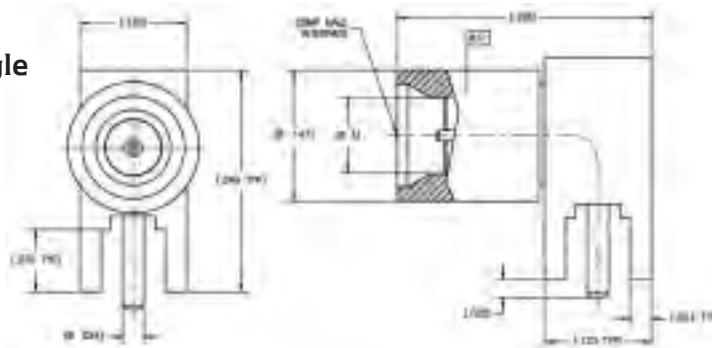
Center conductor is captivated.
Standard finish is passivated.

Consult factory for Assembly Instructions

SSMP Circuit Board Connectors

P303

SSMP male right angle
to PCB mount

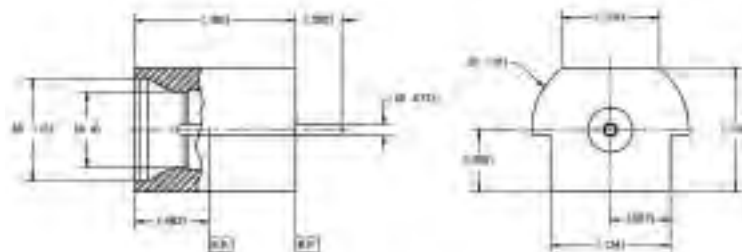


| Tensolite Part Number | Interface | (Ø A) |
|-----------------------|-------------|--------|
| P303-1CC | Detent | (.085) |
| P303-2CC | Smooth Bore | (.088) |

Center conductor is captivated.
Standard units are gold finish.

P319

SSMP male PCB edge
mount to straight
termination



| Tensolite Part No. | (Ø A) | Interface |
|--------------------|--------|-------------|
| P319-1CC | (.088) | Detent |
| P319-2CC | (.085) | Smooth bore |

Center conductor is captivated.
Standard units are gold finish.

P122

SSMP male to straight termination (hermetic seal)

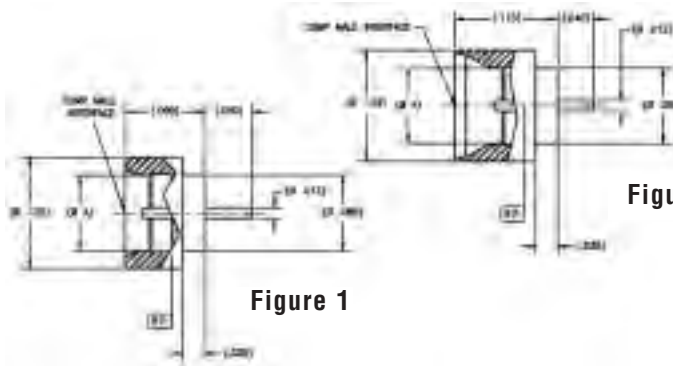


Figure 1

Figure 2

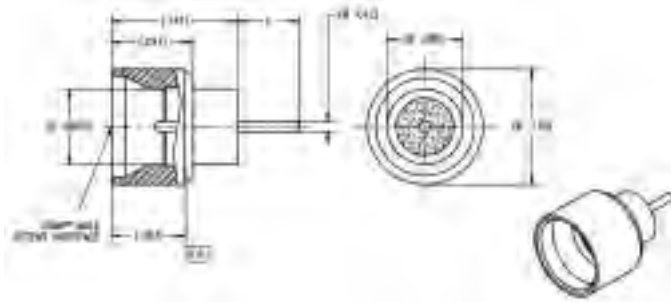
| Tensolite Part No. | Interface | Ø A | Fig. |
|--------------------|-------------|------|------|
| P122-1CC | Detent | .085 | 1 |
| P122-2CC | Smooth Bore | .088 | 1 |
| P122-3CC | Detent | .085 | 2 |
| P122-4CC | Smooth Bore | .088 | 2 |

Center conductor is captivated.
Standard units are gold finish.

Consult factory for Assembly Instructions

P154

SSMP male detent straight solder in hermetic



| Tensolite Part No. | (L) |
|--------------------|--------|
| P154-1CC | (.030) |
| P154-7CC | (.060) |
| P154-13CC | (.090) |
| P154-17CC | (.110) |
| P154-21CC | (.130) |

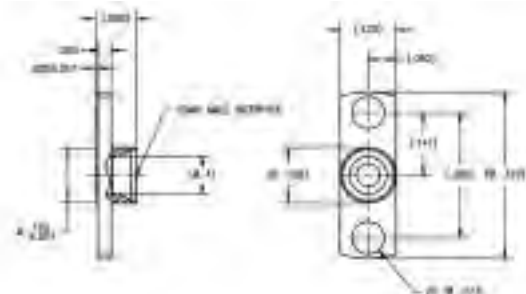
Center conductor is captivated.
Standard units are gold finish.
Other pin lengths (L) available, contact factory.

Consult factory for Assembly Instructions

SSMP Shrouds

P203

SSMP male 2 hole flange mount shroud



| Tensolite Part Number | Interface | (Ø A) |
|-----------------------|-------------|-------|
| P203-1SF | Full Detent | .085 |
| P203-2SF | Smooth Bore | .088 |

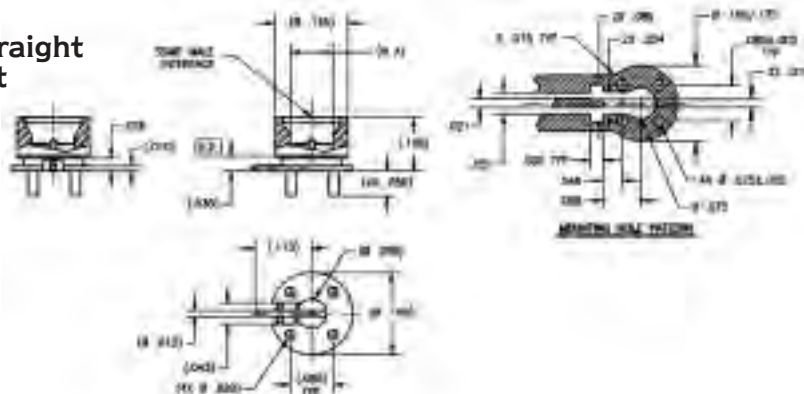
Standard finish is passivated.

Consult factory for Assembly Instructions

SSMP Surface Mount Connectors

P308

SSMP male straight surface mount



| Tensolite Part Number | Interface | (Ø A) |
|-----------------------|------------|-------|
| P308-1CC | Detent | .085 |
| P308-2CC | Non-Detent | .088 |

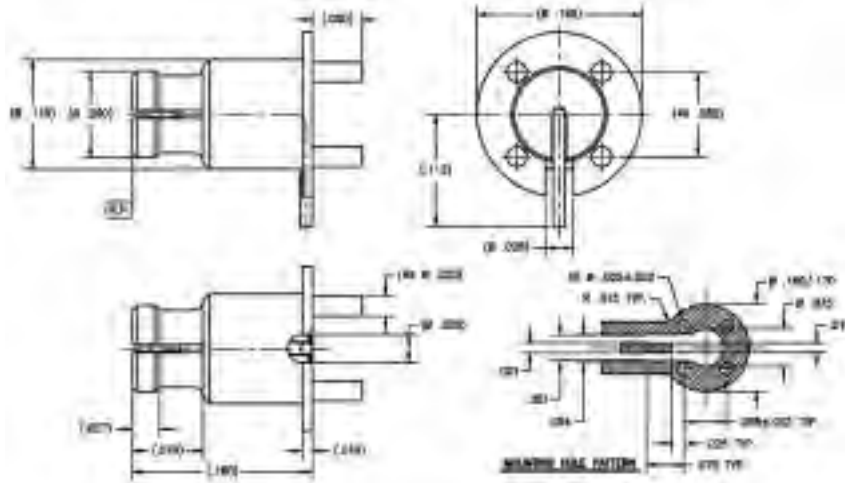
Center conductor is captivated.
Standard units are gold finish.

SSMP Hermetics, Shrouds & Surface Mount Connectors

SSMP Surface Mount Connectors

P310-1CC

SSMP female right angle surface mount

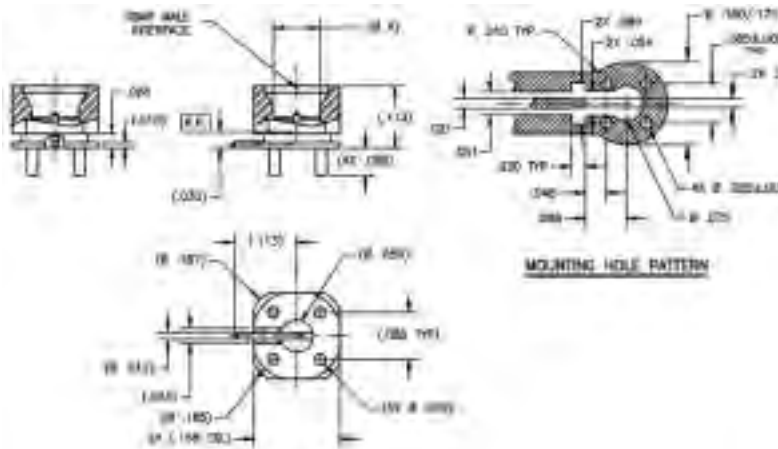


Center conductor is captivated.
Standard units are gold finish.

SSMP Surface Mount Connectors,
& Terminations

P311

SSMP male straight surface mount



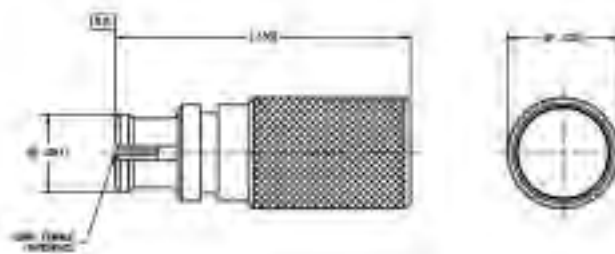
| Tensolite Part Number | Interface | (Ø A) |
|-----------------------|------------|-------|
| P311-1CC | Detent | .085 |
| P311-2CC | Non-Detent | .088 |

Center conductor is captivated.
Standard units are gold finish.

SSMP Terminations

P109-1CC

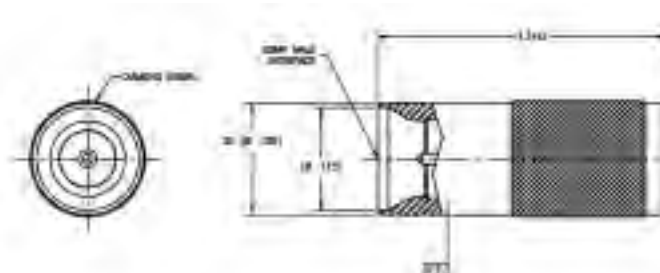
SSMP female straight to 50 Ohm termination



Center conductor is captivated.
Standard units are gold finish.

P110

SSMP male straight to 50 Ohm termination



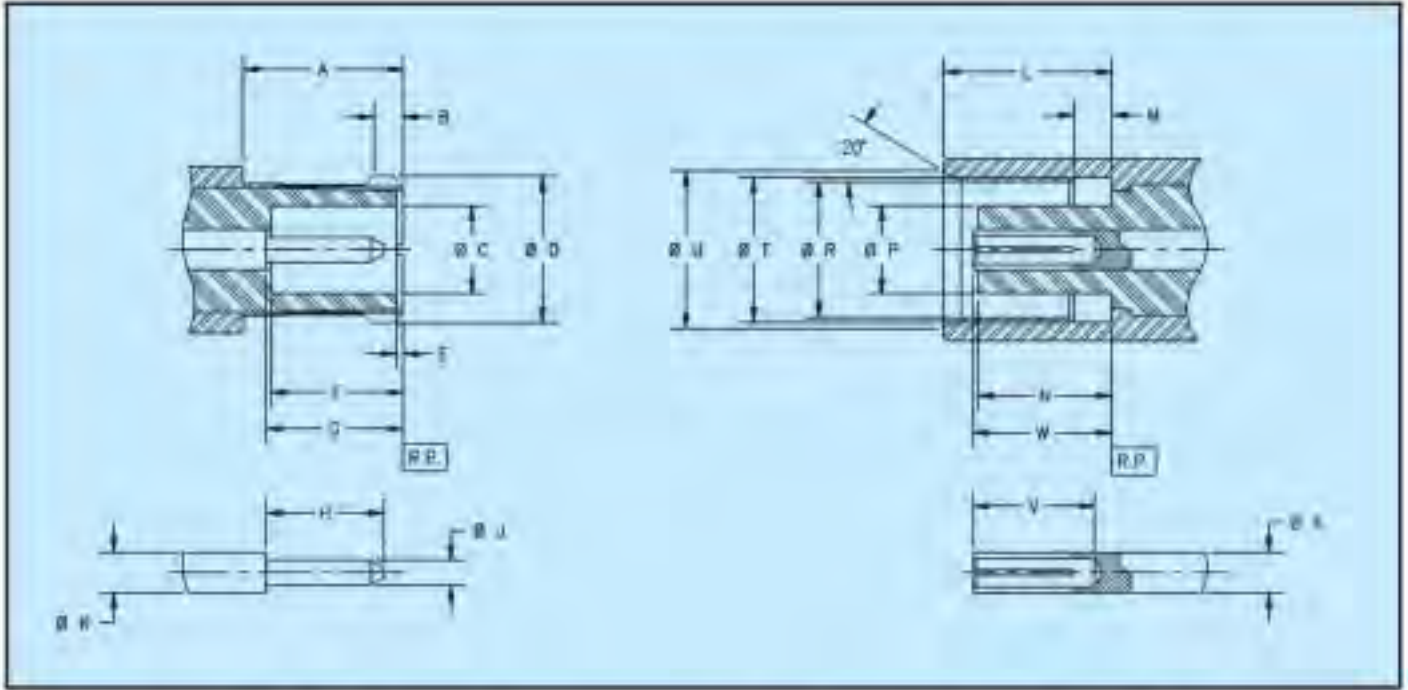
| Tensolite Part No. | Interface(s) |
|--------------------|--------------|
| P110-1CCSF | Detent |
| P110-2CCSF | Smooth Bore |

Standard finish is passivated.

MCX Series



MCX Series



MALE

| LTR | Minimum | | Maximum | |
|------------------|---------------|-----------------|--------------|-----------------|
| | In | mm ² | In | mm ² |
| A | .163 | 4.15 | ---- | ---- |
| B | .028 | 0.70 | .030 | 0.75 |
| ∅ C | .079 | 2.00 | .081 | 2.07 |
| ∅ D ² | .146 | 3.72 | .150 | 3.80 |
| E | ---- | ---- | .012 | 0.30 |
| F | .110 | 2.80 | .126 | 3.20 |
| G | .110 | 2.80 | .126 | 3.20 |
| H | .098 | 2.49 | .102 | 2.59 |
| ∅ J | .019 | 0.48 | .021 | 0.53 |
| ∅ K | .037 in. nom. | | 0.95 mm nom. | |

FEMALE

| LTR | Minimum | | Maximum | |
|-----|---------------|-----------------|--------------|-----------------|
| | In | mm ² | In | mm ² |
| ∅ K | .037 in. nom. | | 0.95 mm nom. | |
| L | .157 | 4.00 | .162 | 4.12 |
| M | .030 | 0.75 | .033 | 0.85 |
| N | .102 | 2.60 | .110 | 2.80 |
| ∅ P | .071 | 1.80 | .078 | 1.98 |
| ∅ R | .135 | 3.42 | .137 | 3.48 |
| ∅ T | .142 | 3.60 | .146 | 3.70 |
| ∅ U | .148 | 3.75 | .152 | 3.85 |
| V | .110 | 2.80 | ---- | ---- |
| W | .091 | 2.30 | .110 | 2.80 |

Note(s):

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
3. Dimension prior to slotting.

The specifications below are general specifications for all MCX connectors. Specific specifications for VSWR, insertion loss, and RF leakage for each connector is available from

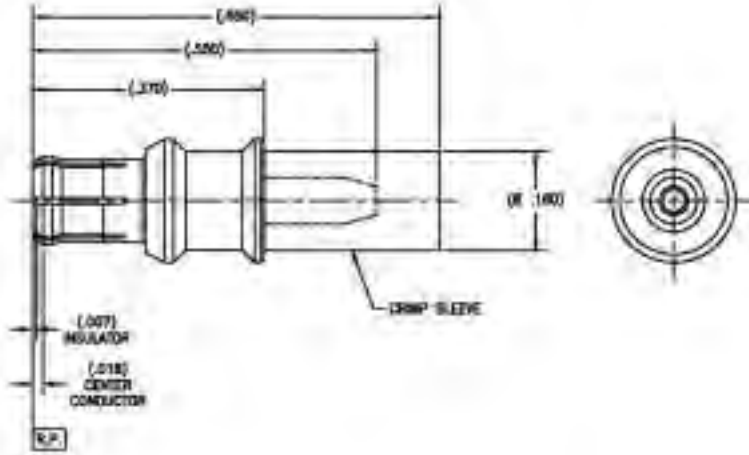
the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings.

| Requirement | Specifications |
|------------------------------------|---|
| General | |
| Material | Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-106 or B-107 PTFE Fluorocarbon per ASTM D-1457 |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Impedance | 50 Ohms Nominal. |
| Insulation Resistance | The insulation resistance shall not be less than 10,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | Engage: 5.6 lbs. Max Disengage: 4.5 lbs. Max |
| Center Contact Capitation | Consult factory. |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Connector Durability | 500 cycles. The connector shall meet the mating characteristic requirements. |
| Environmental | |
| Temperature Range | -65°C to +165°C. |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Thermal Shock | Specification MIL-STD-202, Method 107, Test Condition C. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

Complete specifications or entry details in the catalog are available from the factory.

3-M690-816-10

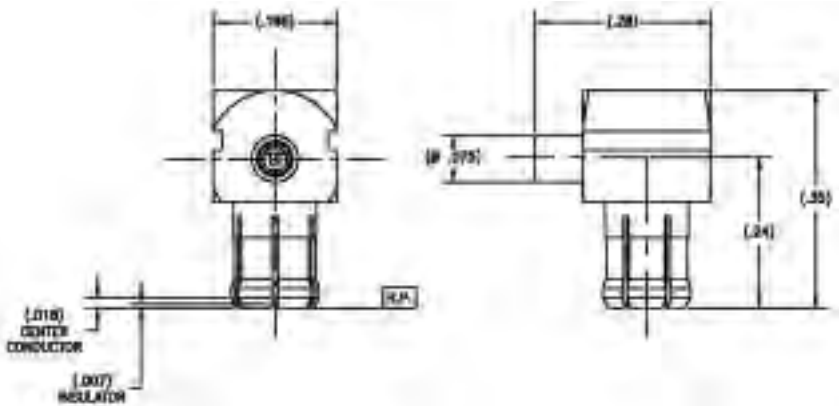
MCX straight plug, M17/93 -
RG 178, crimp - solder



Consult factory for Assembly Instructions

3-M797-890-10

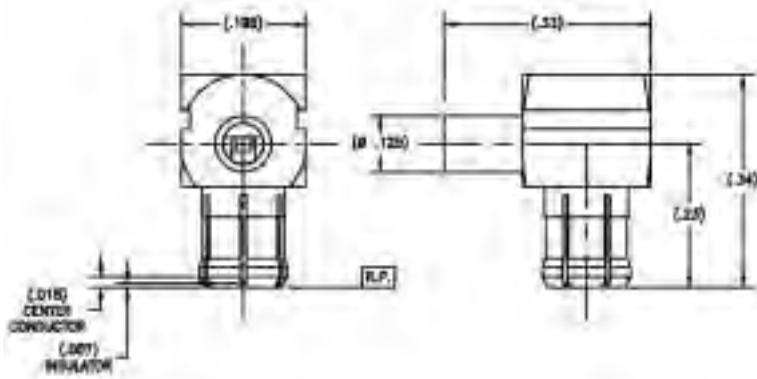
MCX right angle, .047 Semi-
Rigid, solder - solder



Consult factory for Assembly Instructions

3-M797-790-10

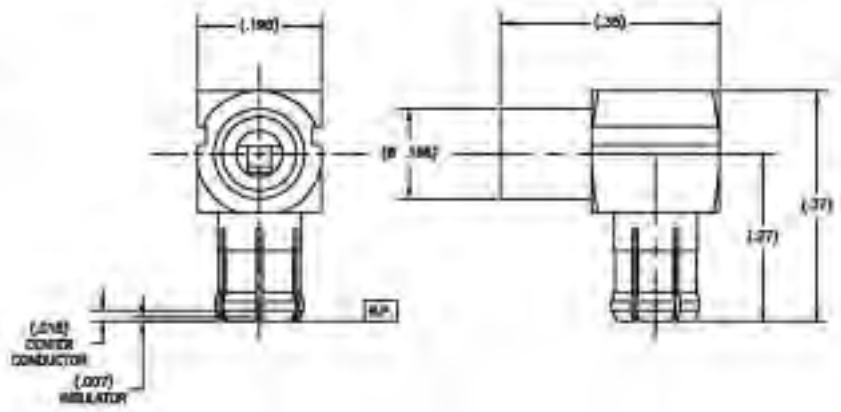
MCX right angle, .086
Semi-Rigid, solder - solder



Consult factory for Assembly Instructions

3-M797-617-10

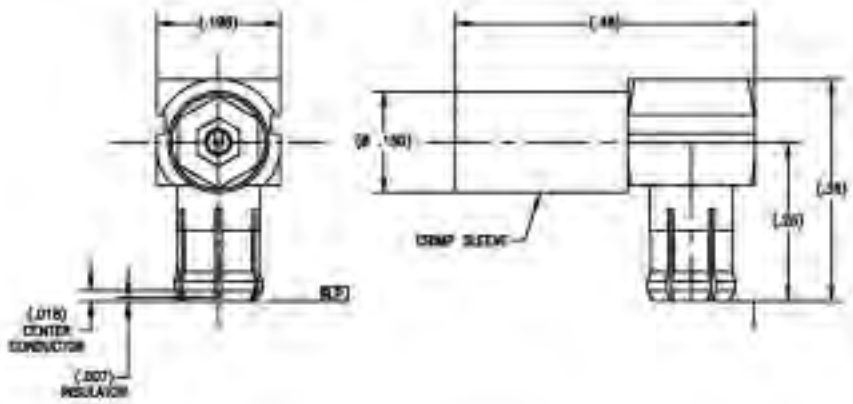
MCX right angle, .141
Semi-Rigid, solder - solder



Consult factory for Assembly Instructions

3-M790-816-10

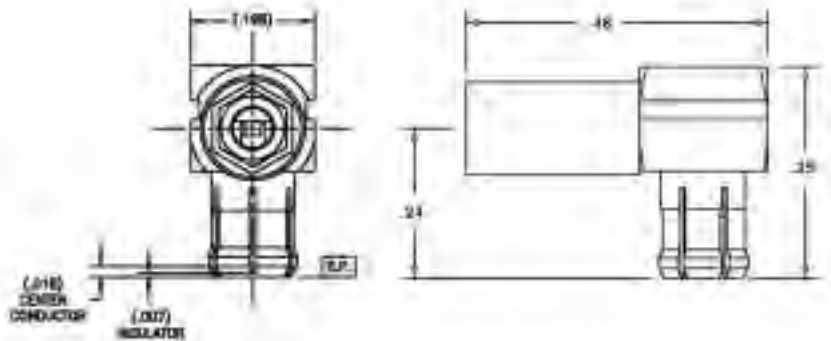
MCX right angle, M17/93
RG 178, crimp - solder



Consult factory for Assembly Instructions

3-M790-317-10

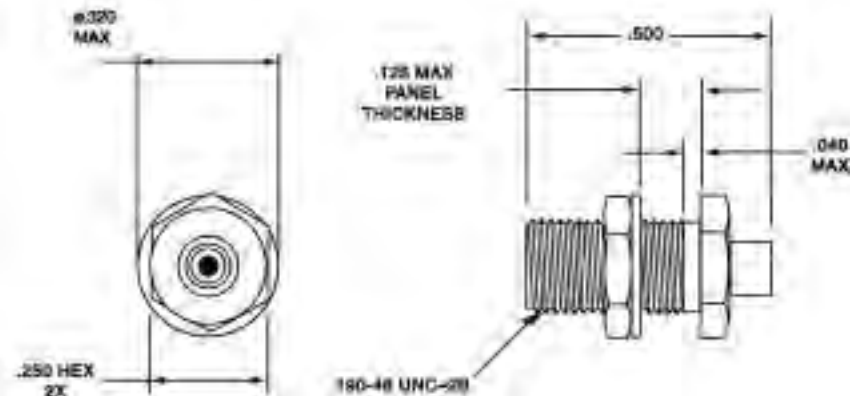
MCX right angle, RG 174,
188, 316, crimp - crimp



Consult factory for Assembly Instructions

3-M097-716-11

MCX female bulkhead, .086
Semi-Rigid, solder - solder



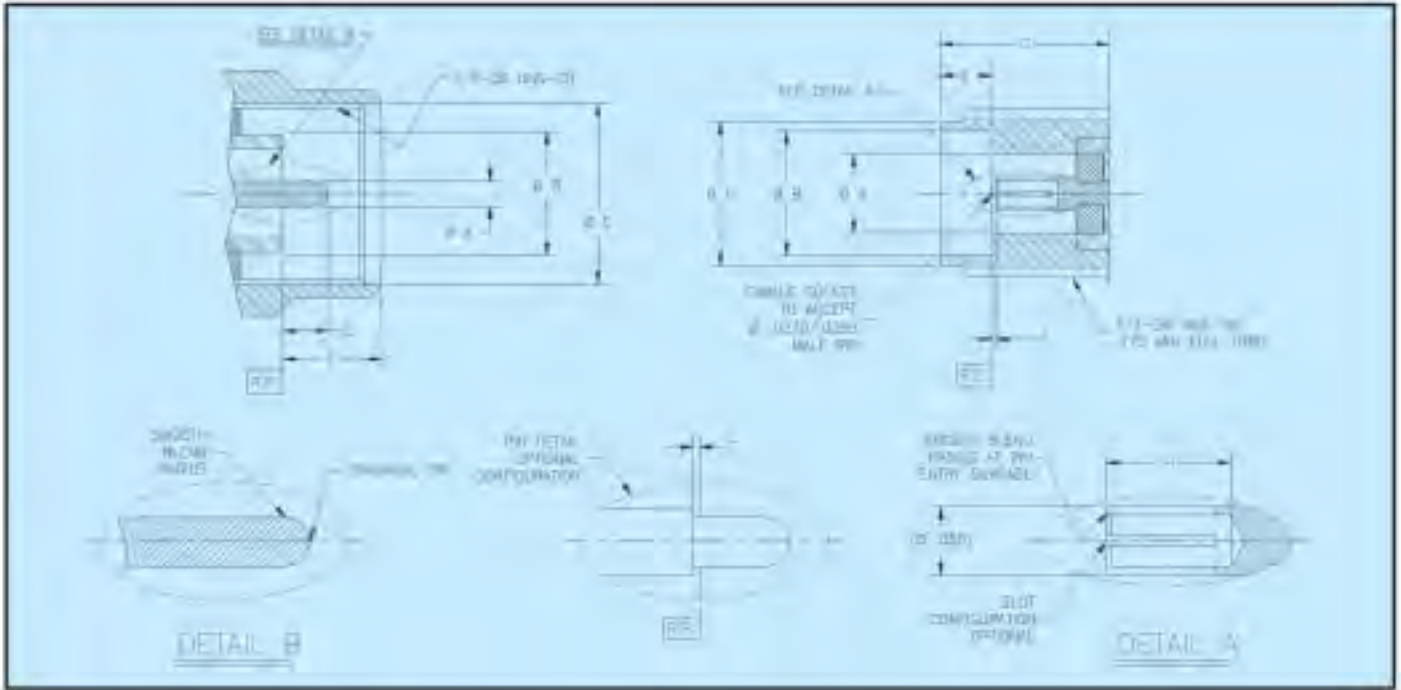
Consult factory for Assembly Instructions

SMK 2.92mm Series



SMK 2.92mm Series

SMK 2.92mm Interface Mating Dimensions (Per MIL-STD-348)



MALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| Ø A | .0355 | 0.90 | .037 | 0.94 |
| Ø B | .1178 | 4.52 | .180 | 4.57 |
| Ø C | .255 | 6.48 | .000 | 0.00 |
| Ø D | .055 | 1.40 | .065 | 1.65 |
| E | ---- | ---- | .135 | 3.43 |
| F ² | 0.00 | 0.00 | .005 | 0.13 |

FEMALE

| LTR | Minimum | | Maximum | |
|----------------|---------|-----------------|---------|-----------------|
| | in | mm ² | in | mm ² |
| Ø A | .114 | 2.90 | .116 | 2.95 |
| Ø B | .181 | 4.60 | .183 | 4.65 |
| Ø C | .206 | 5.23 | .214 | 5.44 |
| Ø D | .0355 | 0.90 | .037 | 0.94 |
| E | .074 | 1.88 | .078 | 1.98 |
| F ² | .000 | 0.00 | .005 | .013 |
| G | .218 | 5.54 | ---- | ---- |
| H | .105 | 2.67 | ---- | ---- |

Note(s):

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
3. Contact gap is measured from connector body reference plane .000 in. max. above (flush) to .005 in. max. below.

SMK 2.92mm Specifications

The specifications below are general specifications for all SMK connectors. Specific specifications for VSWR, insertion loss, and RF leakage for each connector is available from

the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings.

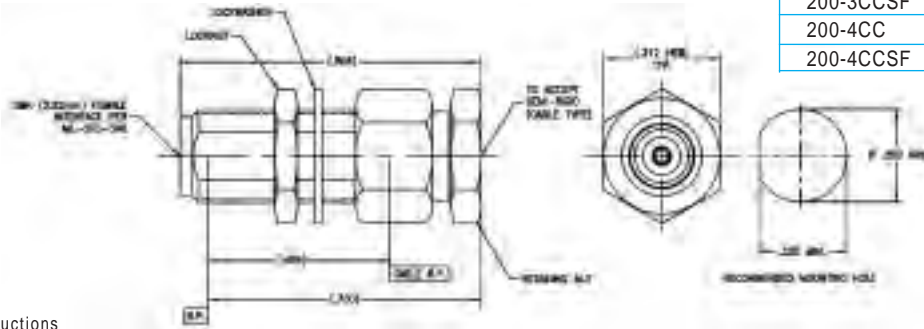
| Requirement | Specifications |
|------------------------------------|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, AMS 5567, AMS 5370, AMS 5511 Brass Alloy per ASTM B-10 Beryllium copper per ASTM B-190 or B-197 PPO™ (Polyphenolic Oxide) Silicone Rubber per ZZ-R-765, CLASS IIB, 50-60 Shore. |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Frequency | DC – 40GHz. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory |
| RF Leakage | Refer to applicable military slash sheet or consult factory |
| Insertion Loss | Refer to applicable military slash sheet or consult factory |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 60 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 15 in.-lbs. minimum. Applicable to male connectors only. |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only; oversize pin: .0375 + .0001/- .0000 diameter .030/.045 deep; insertion force 2 lbs. maximum with .0370 + .0001/- .0000 diameter pin; withdrawal force 1 oz. minimum with .0355 maximum diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Recommended Mating Torque | 6-10 inch-pounds. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. w/in 5 minutes after removal from humidity. |

Complete specifications for every connector in this catalog are available from the factory.

SMK 2.92mm Cable Connectors Semi-Rigid/Semi-Flex

200-ICC

SMK 2.92mm female bulkhead straight to Semi-Rigid cable



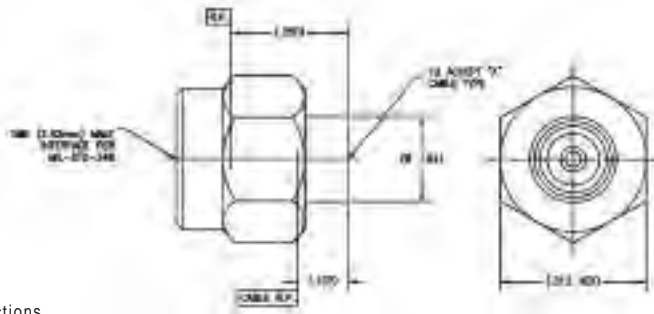
| Tensolite Part No. | Cable type |
|--------------------|------------|
| 200-1CC | .141 |
| 200-1CCSF | .141 |
| 200-2CC | .085 |
| 200-2CCSF | .085 |
| 200-3CCSF | .141 |
| 200-4CC | .118 |
| 200-4CCSF | .118 |

Center conductor is captivated.
Standard finish is passivated.

Consult factory for Assembly Instructions

201-ICC

SMK (2.92mm) male straight to semi-retractable coupling nut



| Tensolite Part No. | Cable type |
|--------------------|-----------------------|
| 201-1CC | .141 Semi-rigid cable |
| 201-1CCSF | .141 Semi-rigid cable |
| 201-2CC | .085 Semi-Rigid |
| 201-2CCSF | .085 Semi-Rigid |
| 201-3CC | .141 Low loss cable |
| 201-3CCSF | .141 Low loss cable |
| 201-4CC | .116 Low loss cable |
| 201-4CCSF | .116 Low loss cable |

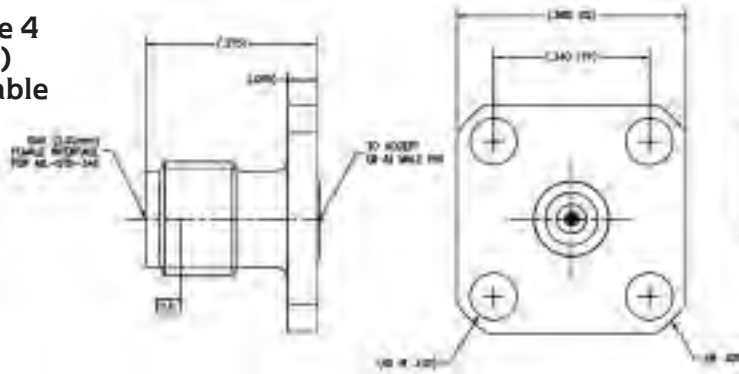
Center conductor is captivated.
Standard finish is passivated.

Consult factory for Assembly Instructions

SMK 2.92mm Field Replaceable Connectors

230CC

SMK 2.92mm female 4 hole flange (.500 SQ) mount field replaceable

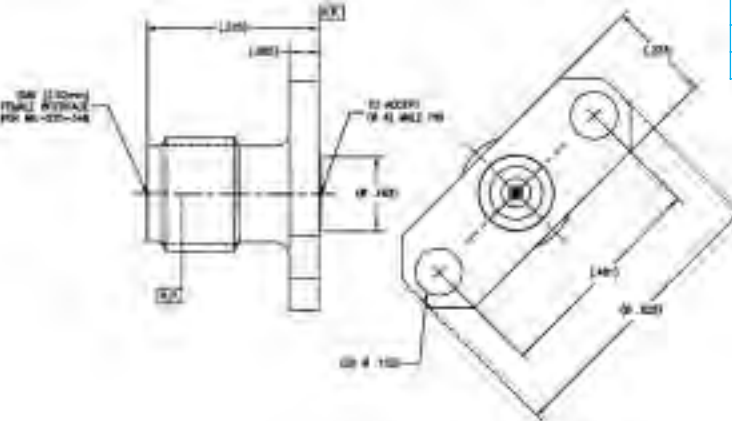


| Tensolite Part No. | (ϕ A) |
|--------------------|-------------|
| 230CC | .0120 |
| 230CCSF | .0120 |

Center conductor is captivated.
Standard finish is passivated.

231CC

SMK 2.92mm female 2 hole flange (.223 X .625) mount straight field replaceable

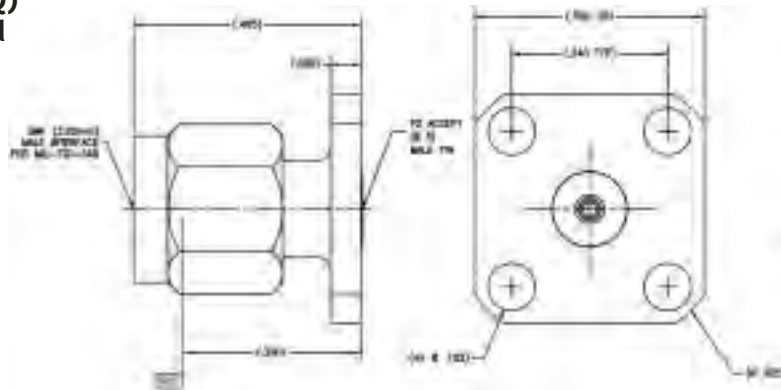


| Tensolite Part No. | (ϕ A) |
|--------------------|-------------|
| 231CC | .0120 |
| 231CCSF | .0120 |

Center conductor is captivated.
Standard finish is passivated.

229CC

SMK 2.92mm male 4 hole flange (.500 SQ) mount straight field replaceable



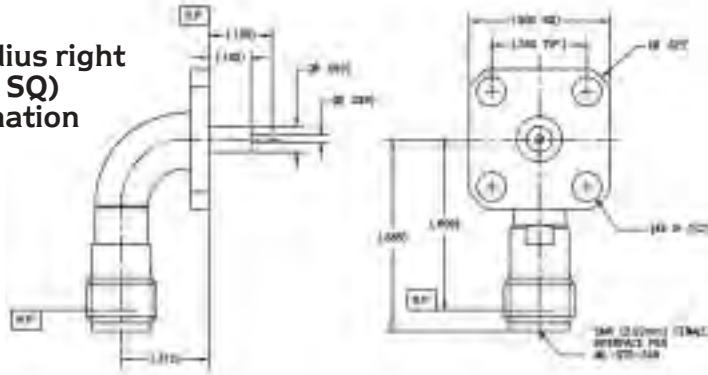
| Tensolite Part No. | (ϕ A) |
|--------------------|-------------|
| 229CC | .0120 |
| 229CCSF | .0120 |

Center conductor is captivated.
Standard finish is passivated.

SMK 2.92mm Flange Mount

227CC

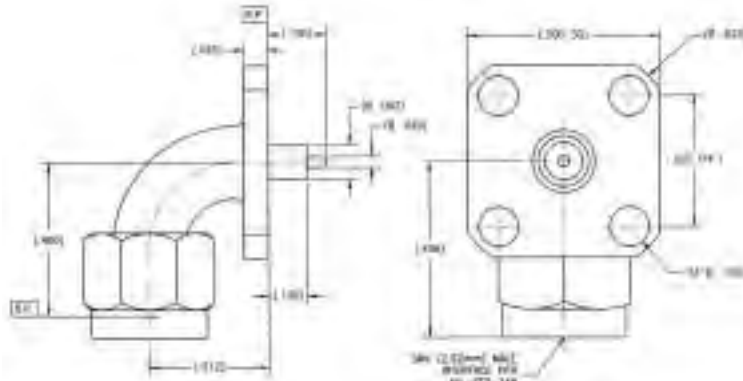
SMK 2.92mm female radius right angle 4 hole flange (.500 SQ) mount to straight termination



Center conductor is captivated.
Standard units are gold finish.

228CC

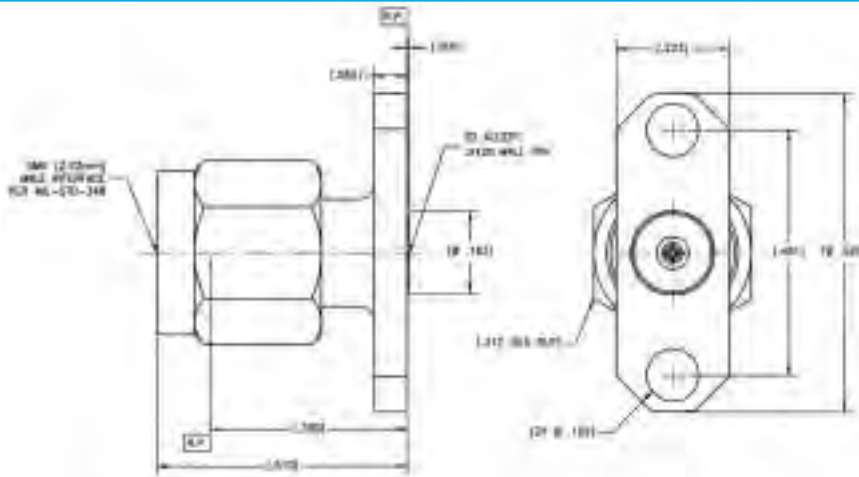
SMK 2.92mm male radius right angle 4 hole flange (.500 SQ) mount to straight termination



Center conductor is captivated.
Standard units are gold finish.

219CC

Male 2 hole flange mount, field replaceable

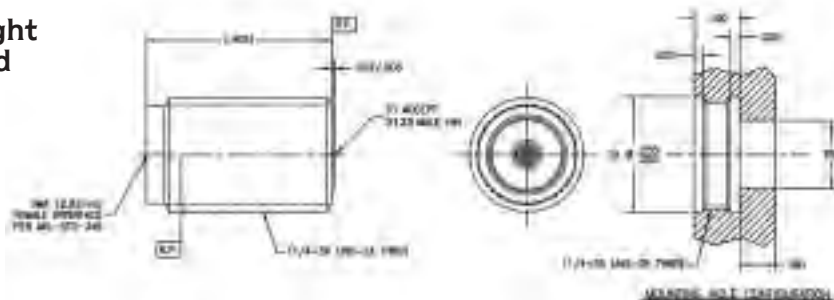


Center conductor is captivated.
Standard units are gold finish.

SMK 2.92mm Spark Plug

240CC

SMK 2.92mm female straight bulkhead feedthrough, field replaceable



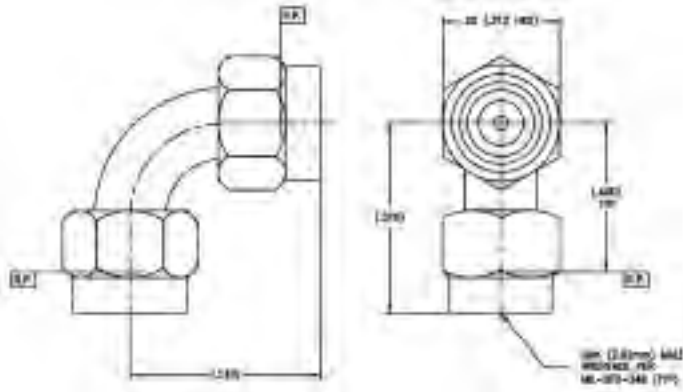
Center conductor is captivated.
Standard units are gold finish.

SMK 2.92mm Flange Mount, Flange Mount Connectors & Spark Plug

SMK 2.92mm In-series adapters

220CC

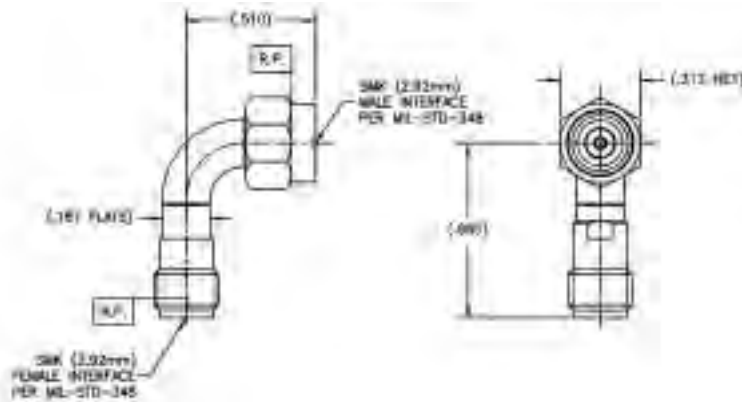
Right Angle, MA/MA
In-Series Adapter



Center conductor is captivated.
Standard units are gold finish.

221CC

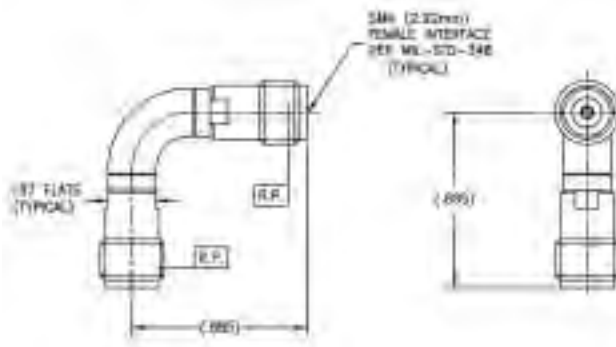
Right Angle, FE/MA
In-Series Adapter



Center conductor is captivated.
Standard units are gold finish.

222CC

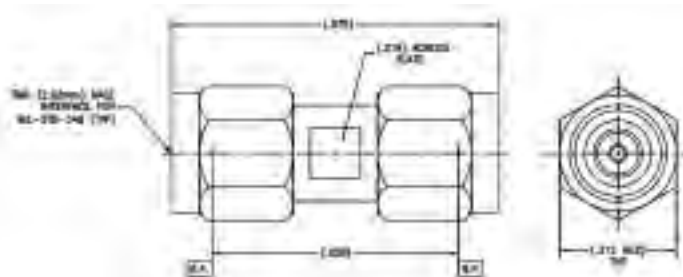
Right Angle, FE/FE
In-Series Adapter



Center conductor is captivated.
Standard units are gold finish.

223CC

Straight MA/MA
In-Series Adapter



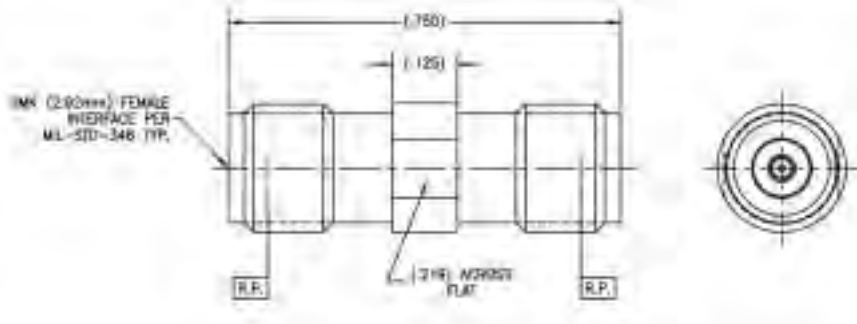
Center conductor is captivated.
Standard units are gold finish.

SMK 2.92mm Straight adapters

224CC

SMK 2.92mm female to female straight adapter

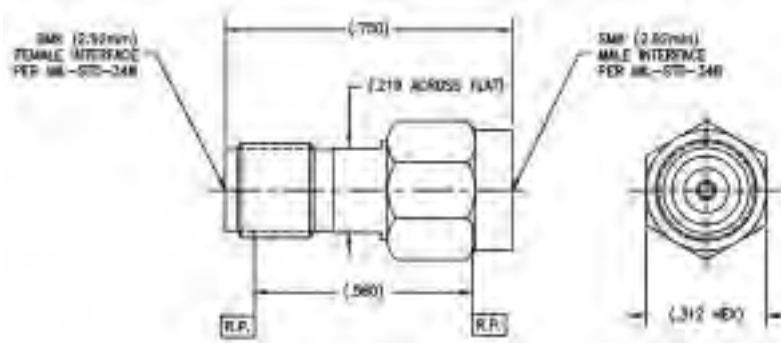
Center conductor is captivated.
Standard units are gold finish.



225CC

SMK 2.92mm female to male straight adapter

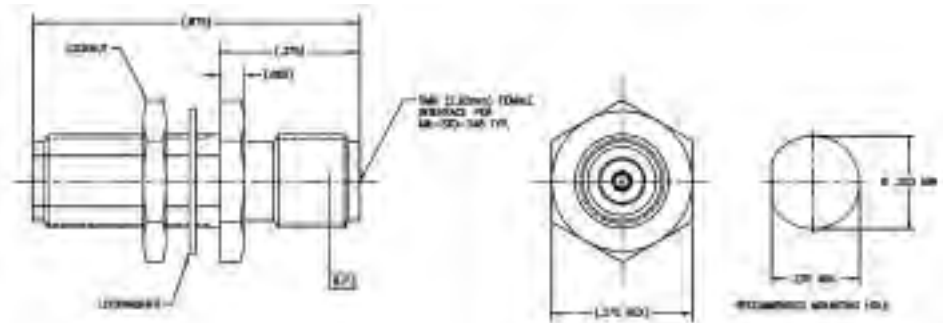
Center conductor is captivated.
Standard units are gold finish.



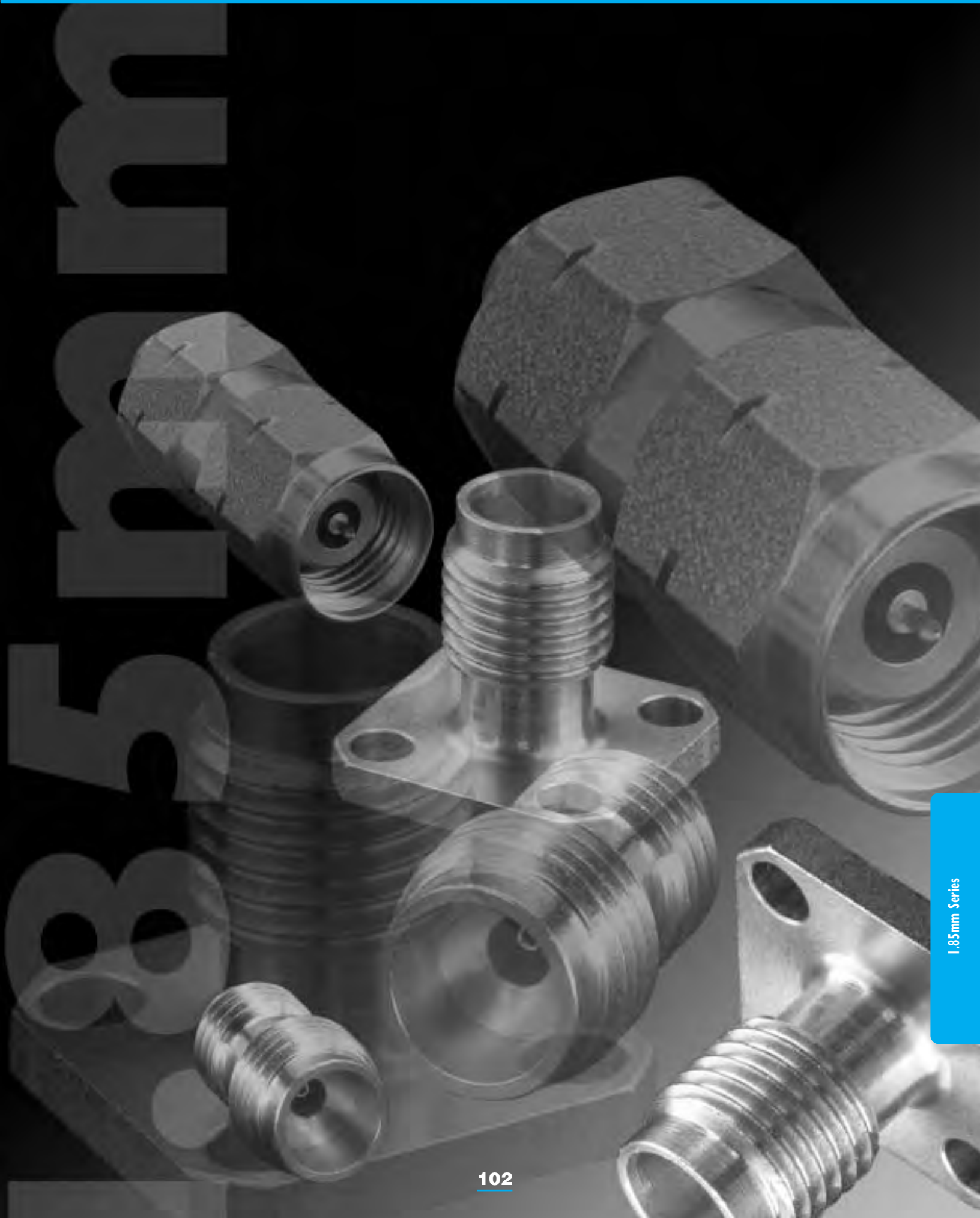
226CC

SMK 2.92mm female to female bulkhead straight adapter

Center conductor is captivated.
Standard units are gold finish.

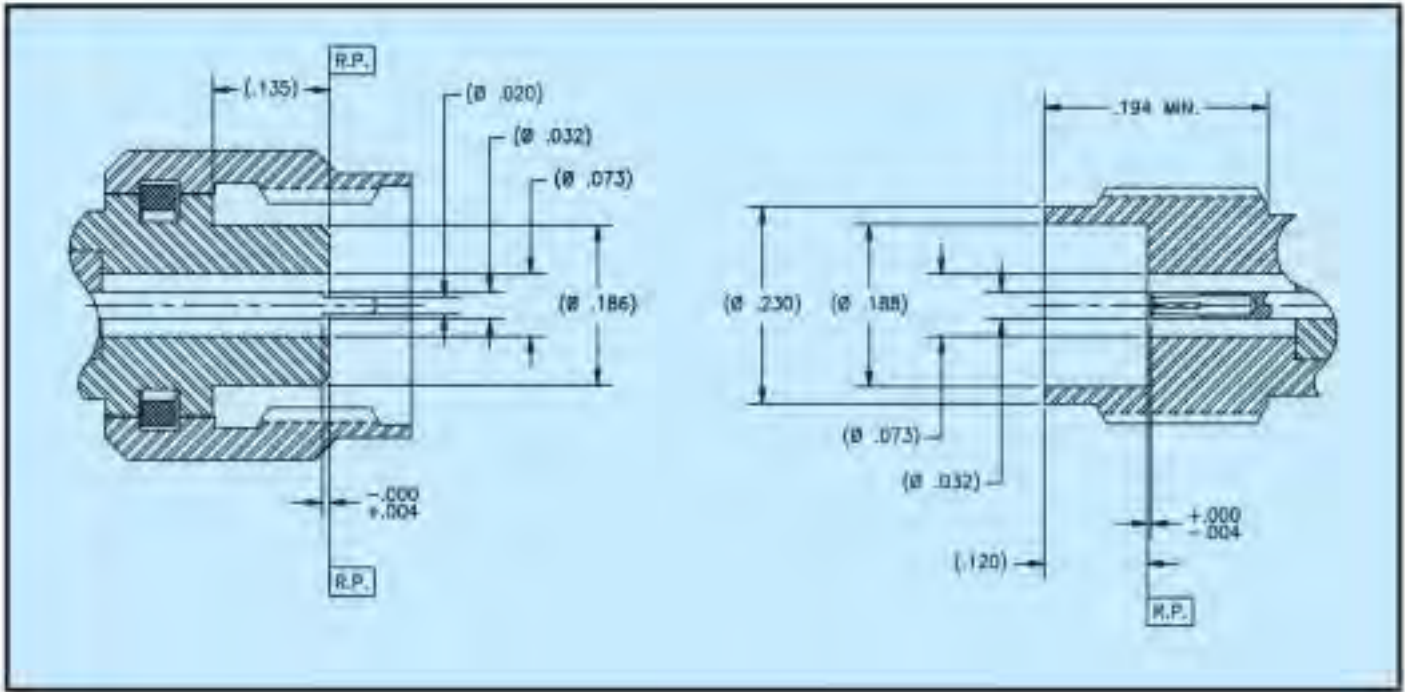


1.85mm Series



1.85mm Series

1.85mm Interface Mating Dimensions (Per MIL-STD-348)



Note(s):

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
3. Dimension prior to slotting.

1.85mm Specifications

The specifications below are general specifications for all 1.85mm connectors. Specific specifications for VSWR, insertion loss, and RF leakage for each connector is

available from the factory upon request. Specifications in the following table are recommended for any procurement documents or drawings.

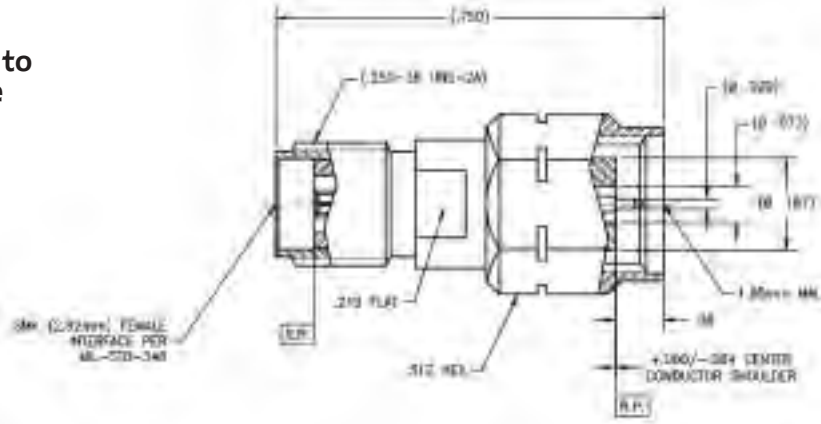
| Requirement | Specifications |
|------------------------------------|--|
| General | |
| Material | Steel corrosion resistant per ASTM A-562, 300 Series, AMS 5667, AMS 5370. Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PPC™ (Polyphenolic Oxide) Teflon per ASTM D-1457 or D-1710 Silicone Rubber per ZZ-R-765, CLASS IIB, 50-60 Shore. |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-498, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Impedance | 50 Ohms Nominal |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 60 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 15 in.-lbs. minimum. Applicable to male connectors only. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition D. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

Complete specifications on every connector in this catalog are available from the factory.

1.85mm Adapters

V203-ICC

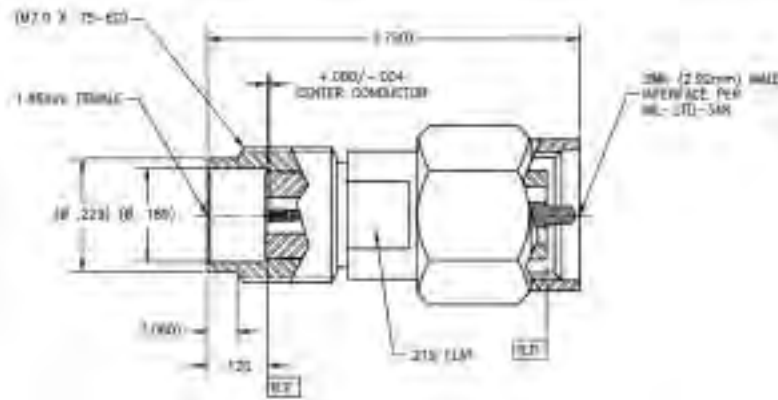
1.85mm male straight to SMK (2.92mm) female adapter



Center conductor is captivated.
Standard units are gold finish.

V204-ICC

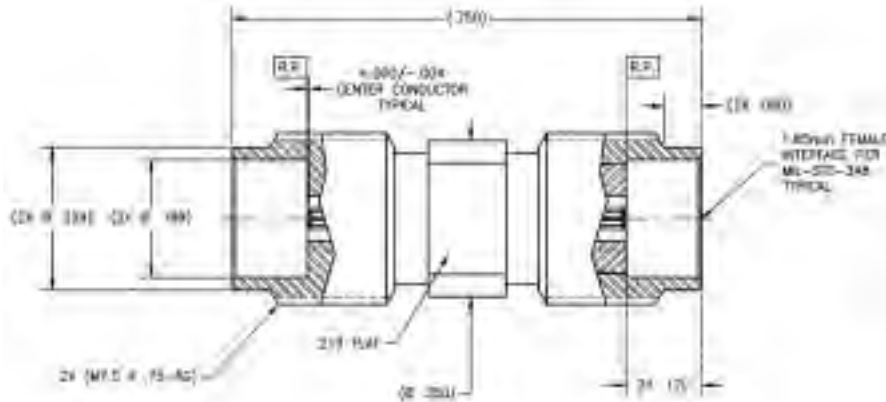
1.85mm female straight to SMK (2.92mm) male adapter



Center conductor is captivated.
Standard units are gold finish.

V205-ICC

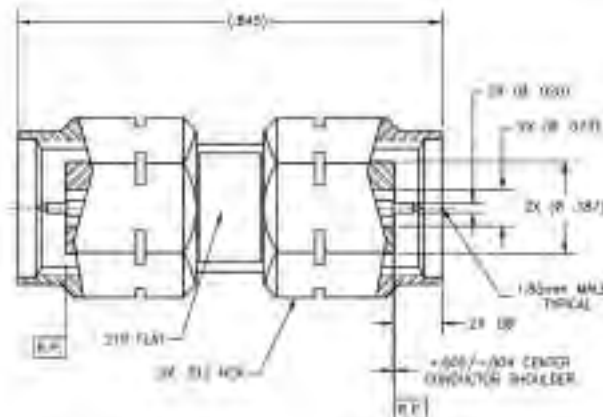
1.85mm female straight to 1.85mm female adapter



Center conductor is captivated.
Standard units are gold finish.

V206-ICC

1.85mm male straight to 1.85mm male adapter

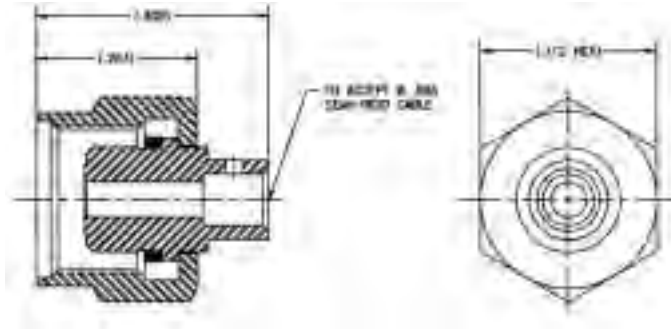


Center conductor is captivated.
Standard units are gold finish.

1.85mm Cable Connector

V214-ICC

1.85 mm male
straight to Ø .085
Semi-Rigid cable



Center conductor is captivated.
Standard units are gold finish.

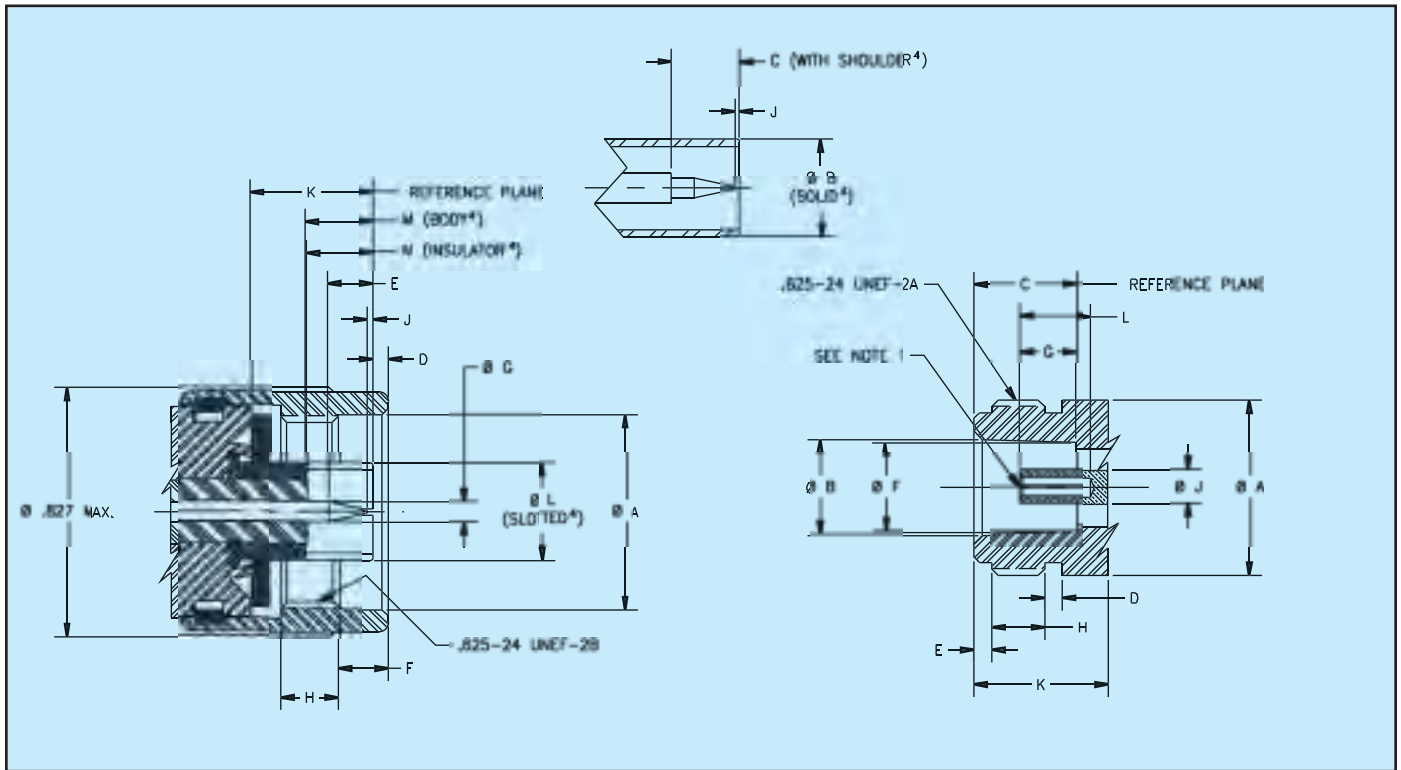
Consult factory for Assembly Instructions

Type N Series

Type N Series



Type N Interface Mating Dimensions



MALE

FEMALE

| LTR | Inches/Millimeters ³ | | | | | |
|-----|---------------------------------|-------|---------|-------|---------|-------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ∅A | .630 | 16.00 | — | — | — | — |
| ∅B | .3130 | 7.95 | — | — | .3158 | 8.03 |
| C | .210 | 5.33 | .220 | 5.59 | .230 | 5.84 |
| D | .016 | 0.14 | .050 | 1.27 | .060 | 1.52 |
| E | .110 | 2.79 | .150 | 3.81 | .140 | 3.56 |
| F | .158 | 4.01 | .163 | 4.14 | .168 | 4.27 |
| ∅G | .063 | 1.60 | .0650 | 1.65 | .066 | 1.68 |
| H | .177 | 4.50 | — | — | — | — |
| J | .003 | 0.08 | — | — | — | — |
| K | .398 | 10.11 | .405 | 10.29 | .412 | 10.46 |
| ∅L | — | — | — | — | .330 | 8.38 |
| M | .223 | 5.66 | — | — | — | — |
| N | .223 | 5.66 | — | — | — | — |

| LTR | Inches/Millimeters ³ | | | | | |
|-----|---------------------------------|-------|---------|------|---------|-------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ∅A | — | — | — | — | .627 | 15.93 |
| ∅B | .336 | 8.53 | .340 | 8.64 | .344 | 8.74 |
| C | .356 | 9.04 | .359 | 9.12 | .362 | 9.20 |
| D | .047 | 1.19 | .062 | 1.57 | .077 | 1.96 |
| E | .047 | 1.19 | .062 | 1.57 | .077 | 1.96 |
| ∅F | .316 | 8.03 | .318 | 8.08 | .320 | 8.13 |
| G | .187 | 4.75 | .197 | 5.00 | .207 | 5.26 |
| H | .172 | 4.37 | .182 | 4.62 | .202 | 5.13 |
| ∅J | .119 | 3.02 | .120 | 3.05 | .124 | 3.15 |
| K | .422 | 10.72 | — | — | — | — |
| L | .210 | 5.33 | .226 | 5.74 | .231 | 5.87 |

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .065 +.0008/-.0005 inches (.1651 +.0203/-.0127 millimeters) diameter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.
4. Consult factory for specific design.

Type N Specifications

The specifications below are general specifications for Type N connectors. Specific data is available from the factory upon request. The General, Electrical, Mechanical and Environmental Specifications in the following table are recommended for any procurement documents or drawings.

In the event of any conflict between requirements of the text specifications, General Specification MIL-PRF-39012 and the details of this table, the latter shall govern. These specifications are subject to change according to the latest revision of Specification MIL-PRF-39012.

| Requirement | Specifications |
|--|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, ASTM A-743, ASTM A-744 Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per MIL-R-5847 and ZZ-R-765. |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 5,000 megaohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 6 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 100 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 30 in.-lbs. minimum. Applicable to male connectors only. |
| Cable Retention Force | See specific connector data sheet. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only: oversize pin .0670 +.0001/-.0000 diameter .125 deep; Insertion force 2 lbs. maximum with .0658 minimum diameter pin; withdrawal force 2 oz. minimum with .0645 maximum diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Recommended Mating Torque | 15 inch-pounds minimum |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition B |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five percent |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megaohms min. within 5 minutes after removal from humidity. |

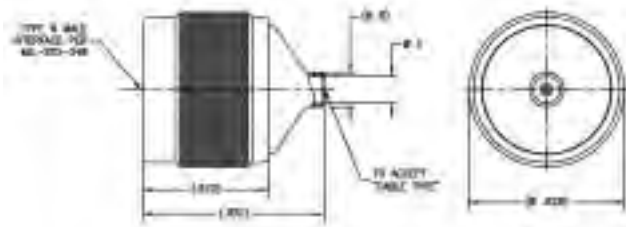
Complete specifications on every connector in this catalog are available from the factory.

Type N Connectors

Type N Connectors

8009

Straight cable male
(frequency range:
DC-18 GHz)



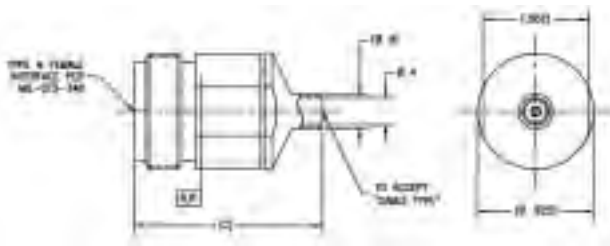
| Tensolite Part No. | "A" | "B" | "C" | Semi-Rigid Cable Type |
|--------------------|-----------|------|-------|-----------------------|
| 8009-1SF | .143 min. | .185 | .970 | .141 |
| 8009-2SF | .088 min. | .185 | .970 | .085 |
| 8009-3SF | .143 min. | .185 | .970 | .141* |
| 8009-4SF | .253 min. | .340 | 1.000 | .250 |

*Microporous.
Standard finish is passivated.
Note: 4SF, utilizes center contact of cable for male pin

P8009-1, 2, 3, Refer to Assembly Instruction 102 on page 177
P8009-4, Refer to Assembly Instruction 125 on page 200

8010

Straight cable female



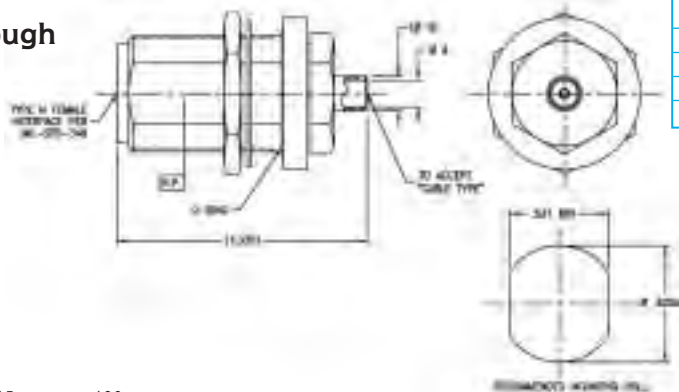
| Tensolite Part No. | "A" | "B" | "C" | Semi-Rigid Cable Type |
|--------------------|-----------|------|-------|-----------------------|
| 8010-1SF | .143 min. | .185 | 1.035 | .141 |
| 8010-2SF | .088 min. | .185 | 1.035 | .085 |
| 8010-3SF | .143 min. | .185 | 1.035 | .141* |
| 8010-4SF | .253 min. | .340 | 1.100 | .250 |

*Microporous.
Standard finish is passivated.

Refer to Assembly Instruction 114 on page 189

8011

Bulkhead feedthrough cable female



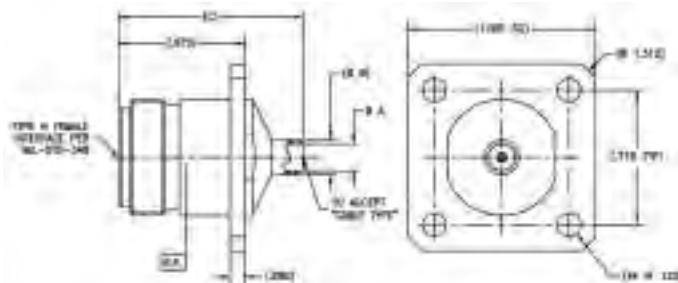
| Tensolite Part No. | "A" | "B" | "C" | Semi-Rigid Cable Type |
|--------------------|-----------|------|-------|-----------------------|
| 8011-1SF | .143 min. | .185 | 1.335 | .141 |
| 8011-2SF | .088 min. | .185 | 1.335 | .085 |
| 8011-3SF | .143 min. | .185 | 1.335 | .141* |
| 8011-4SF | .253 min. | .340 | 1.335 | .250 |

*Microporous.
Standard finish is passivated.

Refer to Assembly Instruction 115 on page 190

8012

Flange mount cable female



| Tensolite Part No. | "A" | "B" | "C" | Semi-Rigid Cable Type |
|--------------------|-----------|------|-------|-----------------------|
| 8012-1SF | .143 min. | .185 | 1.000 | .141 |
| 8012-2SF | .088 min. | .185 | 1.000 | .085 |
| 8012-3SF | .143 min. | .185 | 1.000 | .141* |
| 8012-4SF | .253 min. | .340 | 1.065 | .250 |

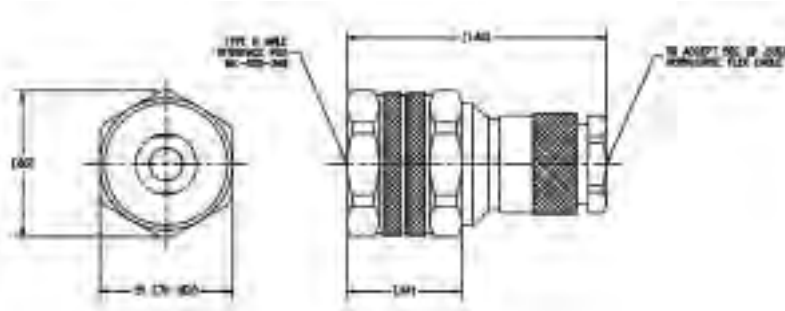
*Microporous.
Standard finish is passivated.

Refer to Assembly Instruction 112 on page 187

Type N Connectors

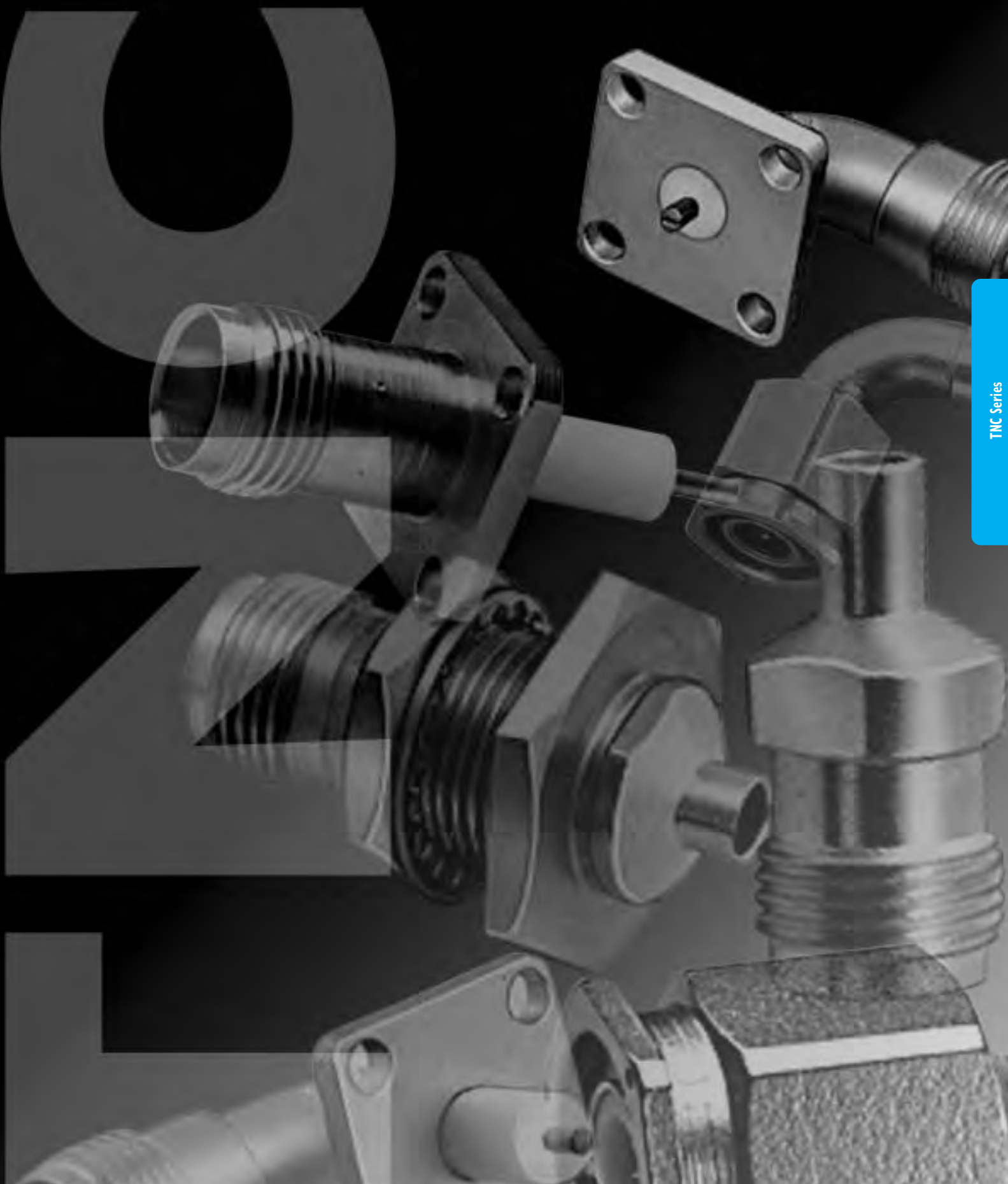
8091-1CCSF

Type N male “Secure RF” straight to 504 (Ø .200) Workhorse flex cable



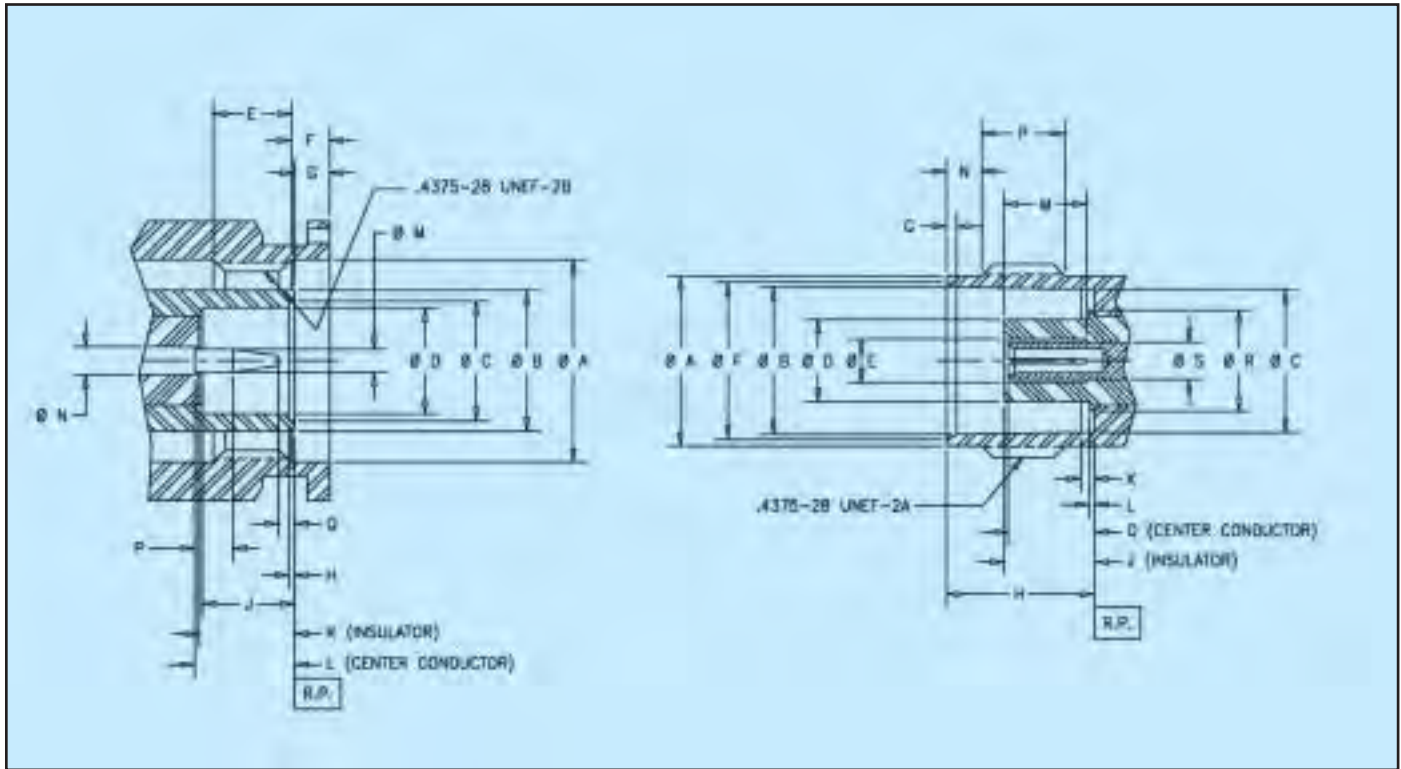
Consult factory for Assembly Instructions

TNC Series



TNC Series

TNC Interface Mating Dimensions (Per MIL-STD-348)



MALE

FEMALE

| LTR | Inches/Millimeters ³ | | | | | |
|-----|---------------------------------|-------|---------|------|---------|------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ØA | .440 | 11.17 | — | — | — | — |
| ØB | .314 | 7.98 | .315 | 8.00 | .318 | 8.08 |
| ØC | .266 | 6.76 | .267 | 6.78 | .268 | 6.81 |
| ØD | .238 | 6.05 | .240 | 6.10 | .242 | 6.15 |
| E | .156 | 3.96 | — | — | — | — |
| F | .063 | 1.60 | — | — | — | — |
| ØG | — | — | — | — | .078 | 1.02 |
| ØH | .006 | 0.15 | .008 | 0.19 | .009 | 0.23 |
| ØJ | .208 | 5.28 | — | — | .212 | 5.39 |
| K | .208 | 5.28 | .213 | 5.41 | .218 | 5.54 |
| L | .208 | 5.28 | .214 | 5.44 | .219 | 5.56 |
| ØM | .052 | 1.32 | .053 | 1.35 | .054 | 1.37 |
| ØN | .064 | 1.63 | .065 | 1.65 | .066 | 1.68 |
| P | .078 | 1.98 | — | — | — | — |
| Q | .003 | 0.08 | .040 | 1.02 | .080 | 2.03 |

| LTR | Inches/Millimeters ³ | | | | | |
|-----|---------------------------------|------|---------|------|---------|------|
| | Minimum | | Nominal | | Maximum | |
| | in. | mm | in. | mm | in. | mm |
| ØA | .378 | 9.60 | .380 | 9.65 | .381 | 9.68 |
| ØB | .327 | 8.31 | .330 | 8.38 | .333 | 8.46 |
| ØC | .319 | 8.10 | .320 | 8.13 | .321 | 8.15 |
| ØD | .182 | 4.62 | .184 | 4.67 | .186 | 4.72 |
| ØE | — | — | — | — | .092 | 2.34 |
| ØF | .346 | 8.79 | .351 | 8.92 | .356 | 9.04 |
| G | .015 | 0.38 | .023 | 0.58 | .030 | .076 |
| H | .327 | 8.31 | — | — | .335 | 8.51 |
| J | .198 | 5.03 | .202 | 5.13 | .208 | 5.28 |
| K | .026 | 0.66 | .031 | 0.79 | .036 | 0.91 |
| L | — | — | — | — | .006 | 0.15 |
| M | .180 | 4.67 | .185 | 4.70 | .190 | 4.72 |
| N | .068 | 1.73 | .078 | 1.98 | .088 | 2.24 |
| P | .187 | 4.75 | — | — | — | — |
| Q | .198 | 5.03 | .202 | 5.13 | .208 | 5.28 |
| ØR | — | — | — | — | .266 | 6.76 |
| ØS | .083 | 2.11 | .084 | 2.13 | .086 | 2.18 |

Notes:

1. I.D. to meet VSWR and contact resistance when mated with .053 +/- .001 inches (1.3462 +/- .0254 millimeters) diameter pin.
2. When fully engaged, the two reference planes must coincide with metal-to-metal contact.
3. Metric equivalents (to the nearest 0.01mm) are given for general information only and are based on 1 inch = 25.4 millimeters.

TNC Connectors Semi-Rigid Cable Connectors

The specifications below are general specifications for TNCA connectors. Specific data is available from the factory upon request. The General, Electrical, Mechanical and Environmental Specifications in the following table are recommended for any procurement documents or drawings.

In the event of any conflict between requirements of the text specifications, General Specification MIL-PRF-39012 and the special details of this table, the latter shall govern. These specifications are subject to change according to the latest revision of Specification MIL-PRF-39012.

| Requirement | Specifications |
|--|---|
| General | |
| Material | Steel corrosion resistant per ASTM A-582, 300 Series, ASTM A-743, ASTM A-744 Brass Alloy per ASTM B-16 Beryllium copper per ASTM B-196 or B-197 PTFE Fluorocarbon per ASTM D-1457 Silicone Rubber per MIL-R-5847 and ZZ-R-765. |
| Finish | Center contacts shall be gold plated to a minimum thickness of .00005-inch in accordance with ASTM B-488, Type 2, Code C over nickel underplate. All other metal parts shall be finished so as to provide a connector which meets the corrosion requirements of this table. |
| Design | The design shall be such that the outline dimensions in this catalog are met. In addition, the assembled connector shall meet the interface dimensions. Dimensions are reference only unless stated. |
| Electrical | |
| Insulation Resistance | The insulation resistance shall not be less than 5,000 megohms. |
| Dielectric Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| RF High Potential Withstanding Voltage | Refer to applicable military slash sheet or consult factory. |
| Contact Resistance | Refer to applicable military slash sheet or consult factory. |
| Voltage Standing Wave Ratio (VSWR) | Refer to applicable military slash sheet or consult factory. |
| RF Leakage | Refer to applicable military slash sheet or consult factory. |
| Insertion Loss | Refer to applicable military slash sheet or consult factory. |
| Corona Level | Refer to applicable military slash sheet or consult factory. |
| Mechanical | |
| Force to Engage and Disengage | The torque required to engage and disengage shall not exceed 2 inch-pounds. The longitudinal force is not applicable. |
| Coupling Nut Retention Force | 100 lbs. minimum. Applicable to male connectors only. |
| Coupling Proof Torque | 15 in.-lbs. minimum. Applicable to male connectors only. |
| Cable Retention Force | Refer to applicable military slash sheet or consult factory. |
| Mating Characteristics | See interface dimensions shown. Applicable to females only: oversize pin .0550 +.0001/-.0000 diameter .125 deep; Insertion force 2 lbs. maximum with .054 minimum diameter pin; withdrawal force 2 oz. minimum with .052 maximum diameter pin. |
| Connector Durability | The connector to be tested and its mating connector shall be subjected to 500 insertion and withdrawal cycles at 12 cycles per minute max. The connector shall show no evidence of mechanical failure and the connector shall meet the mating characteristic requirements. |
| Recommended Mating Torque | 12-15 inch-pounds. |
| Environmental | |
| Vibration | Specification MIL-STD-202, Method 204, Test Condition B. |
| Shock | Specification MIL-STD-202, Method 213, Test Condition I. |
| Thermal Shock | Refer to applicable military slash sheet or consult factory. |
| Corrosion (Salt Spray) | Specification MIL-STD-202, Method 101, Test Condition B. The salt solution shall be five percent |
| Moisture Resistance | Specification MIL-STD-202, Method 106. No measurement at high humidity. Insulation resistance shall be 200 megohms min. within 5 minutes after removal from humidity. |

Complete specifications on every connector in this catalog are available from the factory.

TNC Connectors

9009

Straight male cable

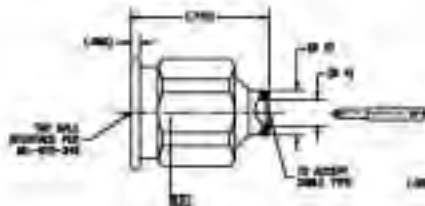


Figure 1

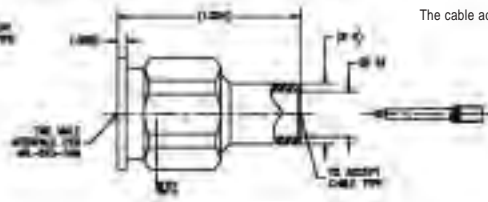


Figure 2

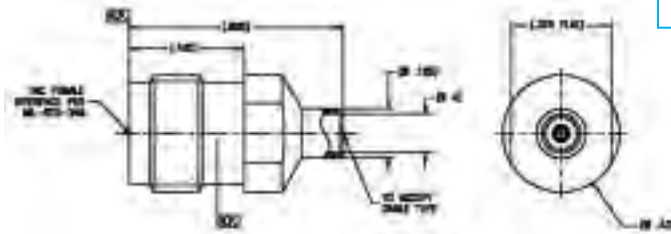
| Tensolite Part Number | "A" | Semi-Rigid Cable Type | Fig. |
|-----------------------|-----------|-----------------------|------|
| 9009-1SF | .143 min. | .141 | 1 |
| 9009-2SF | .088 min. | .085 | 1 |
| 9009-3SF | .143 min. | .141* | 1 |
| 9009-4SF | .253 min. | .250 | 2 |

*Microporous
Standard units have stainless steel finish.
The cable adapter section is gold plated for solderability.

Consult factory for Assembly Instructions

9010

Straight cable female



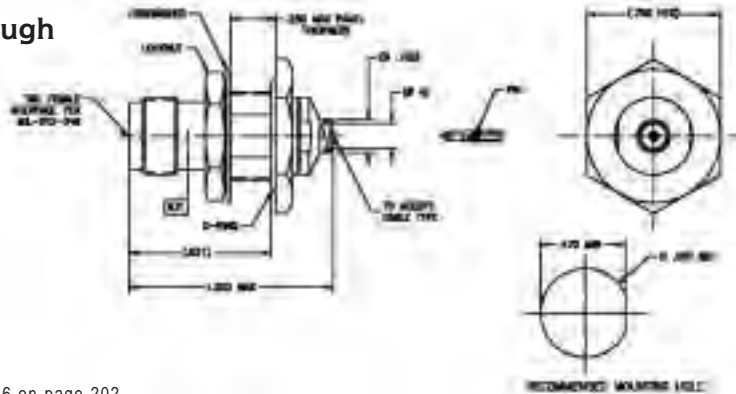
| Tensolite Part Number | "A" | Semi-Rigid Cable Type |
|-----------------------|-----------|-----------------------|
| 9010-1 | .143 min. | .141 |
| 9010-2 | .088 min. | .085 |
| 9010-3 | .143 min. | .141* |

*Microporous
Standard units are gold plated.

Consult factory for Assembly Instructions

9011

Bulkhead feedthrough cable female



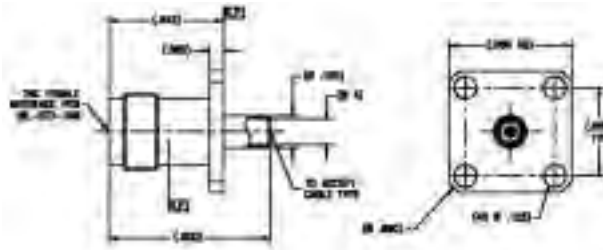
| Tensolite Part Number | "A" | Semi-Rigid Cable Type |
|-----------------------|-----------|-----------------------|
| 9011-1SF | .143 min. | .141 |
| 9011-2SF | .088 min. | .085 |
| 9011-3SF | .143 min. | .141* |

*Microporous
Standard units have stainless steel finish.
The cable adapter section is gold plated for solderability.

Refer to Assembly Instruction 136 on page 202

9012

Flange mount cable female



| Tensolite Part Number | "A" | Semi-Rigid Cable Type |
|-----------------------|-----------|-----------------------|
| 9012-1 | .143 min. | .141 |
| 9012-2 | .088 min. | .085 |
| 9012-3 | .143 min. | .141* |

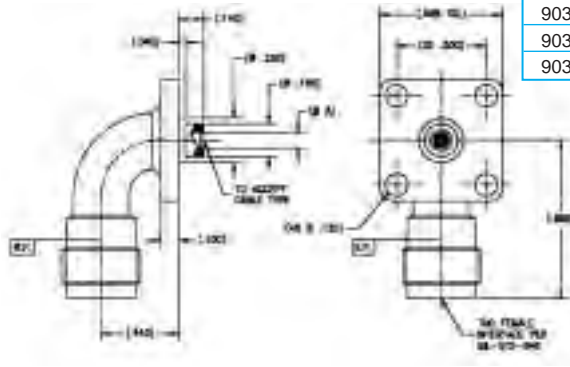
*Microporous
Standard units are gold plated.

Refer to Assembly Instruction 159 on page 203

TNC Connectors

9031

Radius right angle
flange mount cable
female (.141 Semi-Rigid)



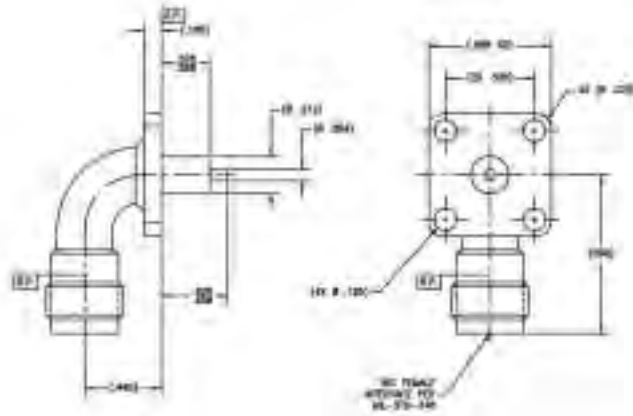
| Tensolite Part Number | "A" | Semi-Rigid Cable Type | Max. VSWR DC - 18.0 GHz |
|-----------------------|-----------|-----------------------|-------------------------|
| 9031-1CC | .143 min. | .141 | 1.07 + .01 fGHz |
| 9031-2CC | .088 min. | .085 | 1.07 + .01 fGHz |
| 9031-3CC | .143 min. | .141* | 1.07 + .01 fGHz |

*Microporous
.185 and "A" diameters will be gold plated on SF units for solderability.
Center conductor is captivated.
Standard units are gold plated. Add suffix SF to Part No. for stainless steel finish.

Refer to Assembly Instruction 117 on page 192

9030SF

Radius right angle
flange mount female

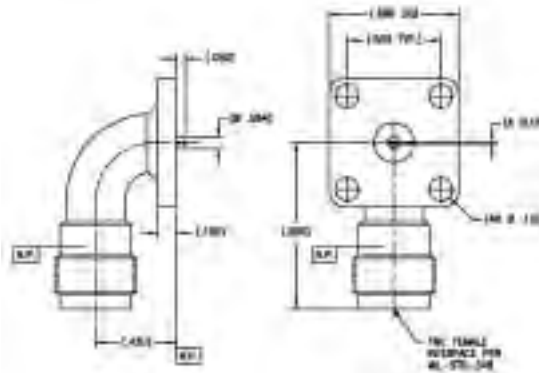


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 9030SF | 1.07 + .01 fGHz |

Add suffix CC to Part No. for captivated contact.
Standard units have stainless steel finish.

9032

Radius right angle
flange mount female

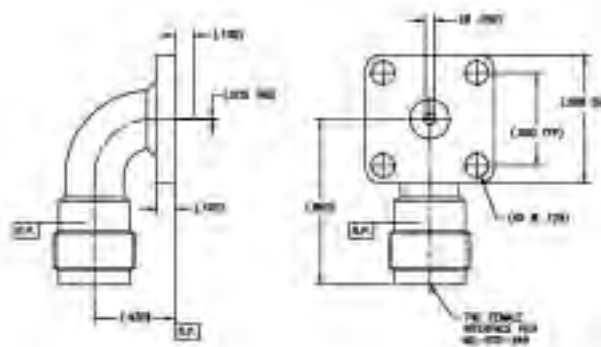


| Tensolite Part Number | "A" +.003/-001 | Slot Position | Max. VSWR DC - 18.0 GHz |
|-----------------------|----------------|---------------|-------------------------|
| 9032-1SF | .02 | Horizontal | 1.07 + .01 fGHz |
| 9032-2SF | .018 | Horizontal | 1.07 + .01 fGHz |
| 9032-3SF | .028 | Horizontal | 1.07 + .01 fGHz |
| 9032-1SF | .02 | Vertical | 1.07 + .01 fGHz |
| 9032-2SF | .018 | Vertical | 1.07 + .01 fGHz |
| 9032-3SF | .028 | Vertical | 1.07 + .01 fGHz |
| 9032-4SF | .036 | Vertical | 1.07 + .01 fGHz |

Add suffix CC to Part No. for captivated contact.
Standard units have stainless steel finish.

9034

Radius right angle
flange mount female



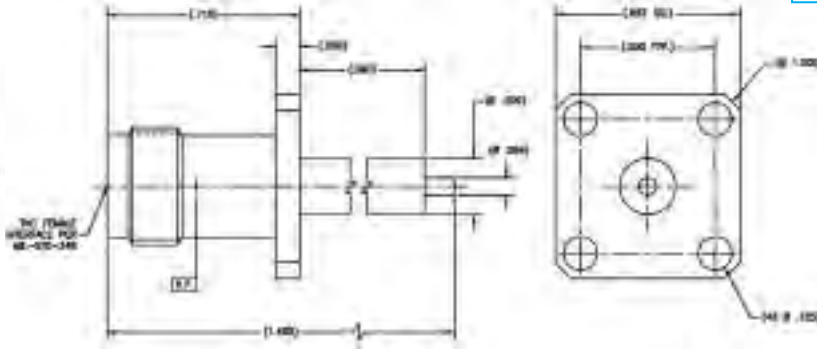
| Tensolite Part Number | "A" | Semi-Rigid Cable Type |
|-----------------------|-----------|-----------------------|
| 9034-1 | .143 min. | .141 |
| 9034-2 | .088 min. | .085 |
| 9034-3 | .143 min. | .141* |

*Microporous
Standard units are gold plated.
Add suffix CC to Part No. for captivated contact.

TNC Connectors

9028

Straight termination
panel mount female

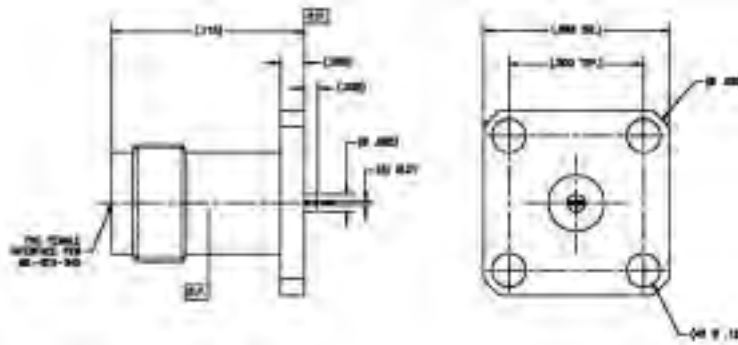


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|----------------------------|
| 9028CCSF | 1.25:1 |

Center conductor is captivated.
Standard finish is passivated.

9045

Slot termination
flange mount female

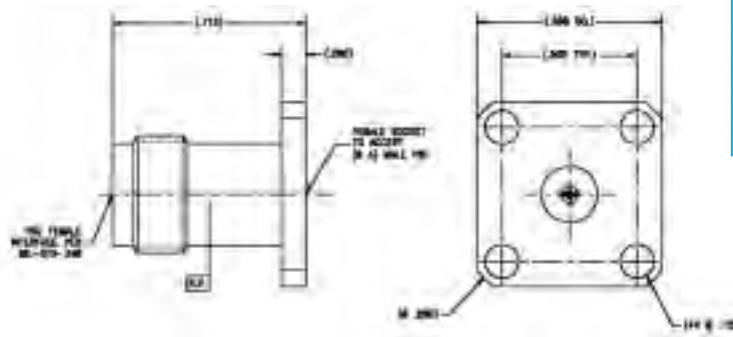


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz 1.25:1 "A" Slot, +.003/-0.001 |
|-----------------------|---|
| 9045-1CCSF | .012 |
| 9045-2CCSF | .018 |
| 9045-3CCSF | .028 |
| 9045-4CCSF | .038 |

Center conductor is captivated.
Standard finish is passivated.

9080

Female contact
termination panel mount female

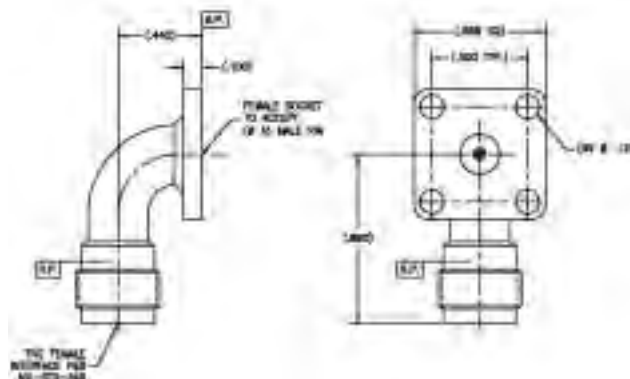


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz 1.25:1 "A" Dia. ± .0005 |
|-----------------------|---|
| 9080-1CCSF | .036 |
| 9080-2CCSF | .020 |
| 9080-3CCSF | .010 |
| 9080-4CCSF | .012 |
| 9080-5CCSF | .015 |
| 9080-6CCSF | .018 |

Center conductor is captivated.
Standard finish is passivated.

9042

Radius right angle
flange mount female



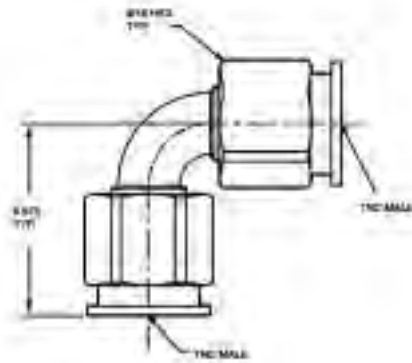
| Tensolite Part Number | Max. VSWR DC - 18.0 GHz 1.25:1 "A" Dia. ± .0005 |
|-----------------------|---|
| 9042-1CCSF | .036 |
| 9042-2CCSF | .020 |
| 9042-3CCSF | .010 |
| 9042-4CCSF | .012 |
| 9042-5CCSF | .015 |
| 9042-6CCSF | .018 |

Center conductor is captivated.
Standard finish is passivated.

TNC Connectors In-Series Adapters

9052CCSF

Radius right angle
male to male adapter

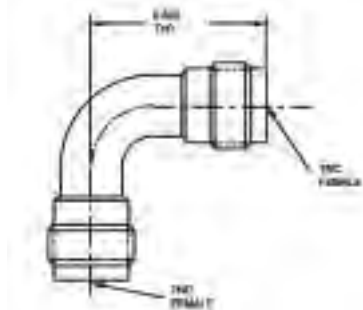


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 9052CCSF | 1.08 + .009 fGHz |

Center conductor is captivated.
Standard finish is passivated.

9051CCSF

Radius right angle
female to female adapter

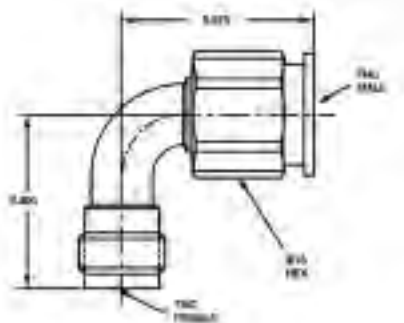


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 9051CCSF | 1.08 + .009 fGHz |

Center conductor is captivated.
Standard finish is passivated.

9050CCSF

Radius right angle
female to male adapter



| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 9050CCSF | 1.08 + .009 fGHz |

Center conductor is captivated.
Standard finish is passivated.

ADAPTERS

Adapters SMA

5191CC

Female to female adapter

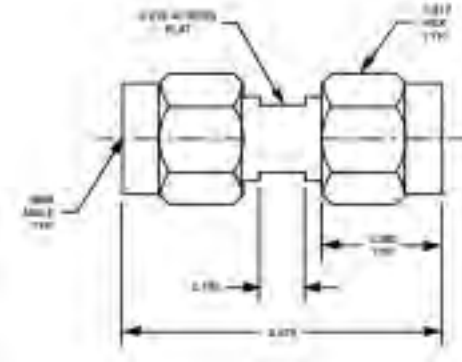


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5191CC | 1.05 + .005 fGHz |

Center conductor is captivated.
Standard units are gold finish.

5390CC

Male to male adapter

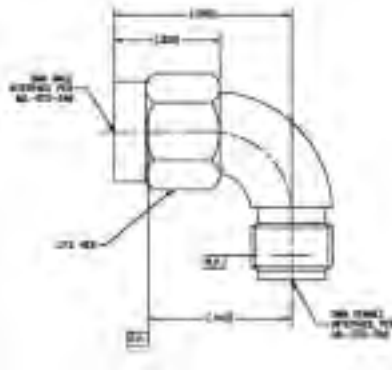


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5390CC | 1.05 + .005 fGHz |

Center conductor is captivated.
Standard units are gold finish.

5490

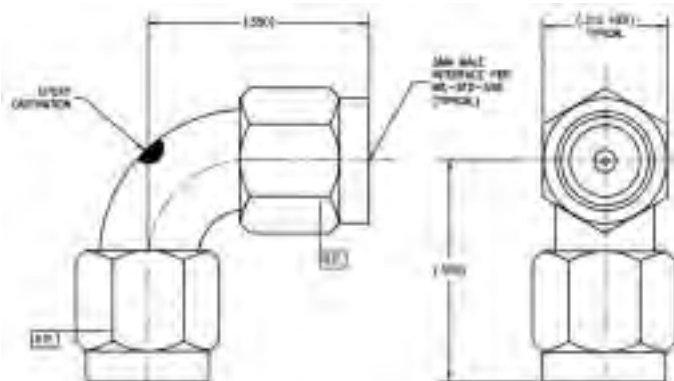
Radius right angle male to female adapter



Standard units are gold finish.
Add suffix CC to Part No. for captivated contact.

5065

Male to female adapter (Connector Saver)



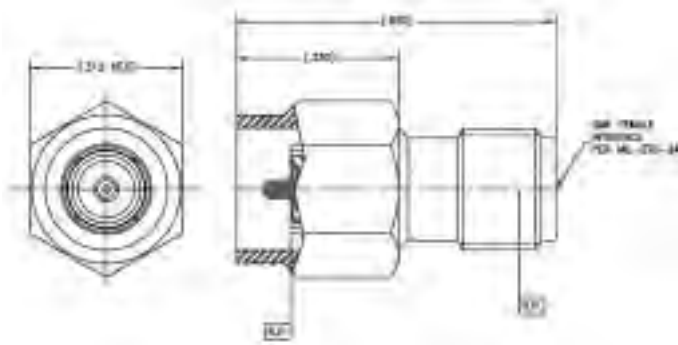
Standard units are gold finish.
Add suffix CC to Part No. for captivated contact.

SMA Adapters

Adapters SMA

5299CC

Male to female adapter (Connector Saver)



| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5299CC | 1.05 + .005 fGHz |

Center conductor is captivated. Standard units are gold finish.

5299-0-1CCSF

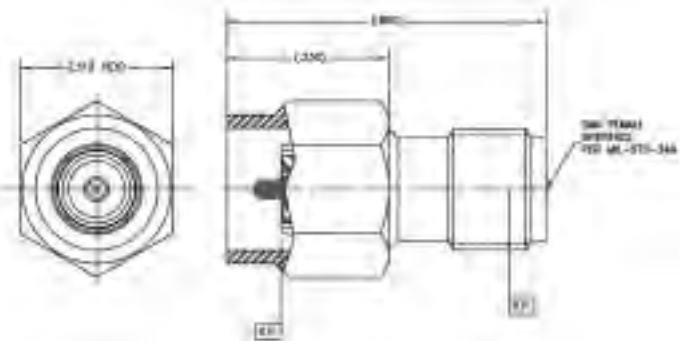
Male to female adapter (Connector Saver)

Frequency Range: DC to 26.5 GHz
Voltage Standing Wave Ratio: 1.06+.005 fGHz



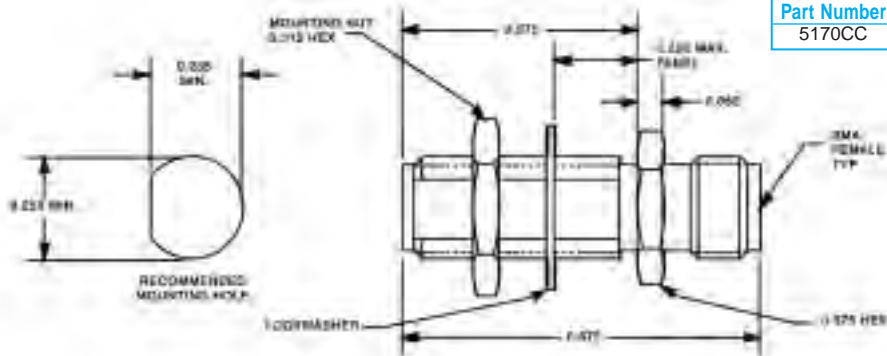
The Push-On "Connector Saver" was developed to eliminate the time consuming tightening, torquing and loosening of SMA connectors during test.

The standard SMA female end engages the SMA male of the cable assembly, while the Push-On end of the adapter slides directly on to any SMA female, allowing quick connection and disconnect.



5170CC

Female to female adapter bulkhead feedthrough

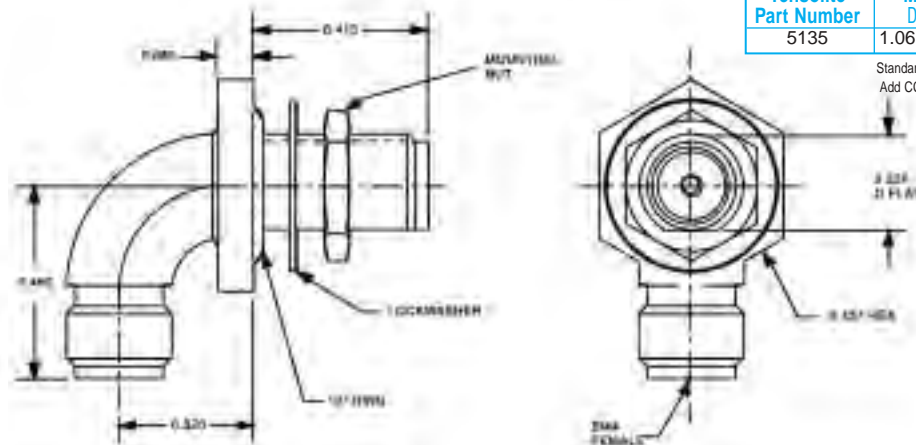


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5170CC | 1.05 + .005 fGHz |

Center conductor is captivated. Standard units are gold finish.

5135

Radius right angle female to female adapter bulkhead feedthrough



| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5135 | 1.06 + .005 fGHz |

Standard units are gold finish. Add CC for captivated contact

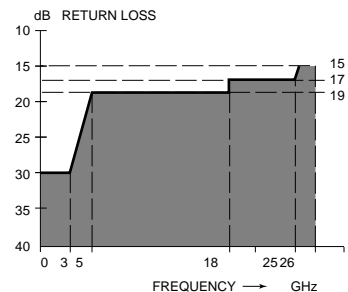
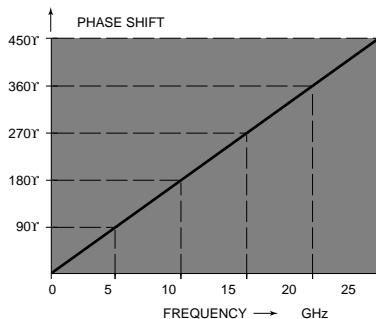
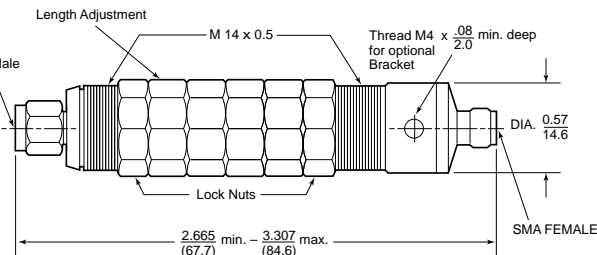
Adapters SMA

5018CCSF

Female to male phase adjustable adapter



The Tensolite Model 5018CCSF is a coaxial phase shift adapter, inserted in an SMA^{MA}-Male terminated line to electrically separate the other components. These bi-directional "line stretchers" travel length is 0.6 in. (15.3 mm) electrically and mechanically. Lock nuts retain the calibrated phase adjustment, and 50 ohms impedance is maintained over the range.

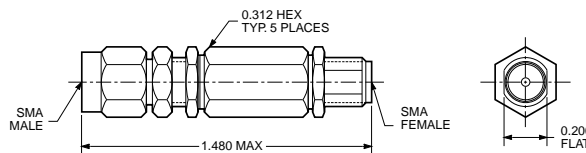


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5018CCSF | See graph below |

Center conductor is captivated.
Standard finish is passivated.

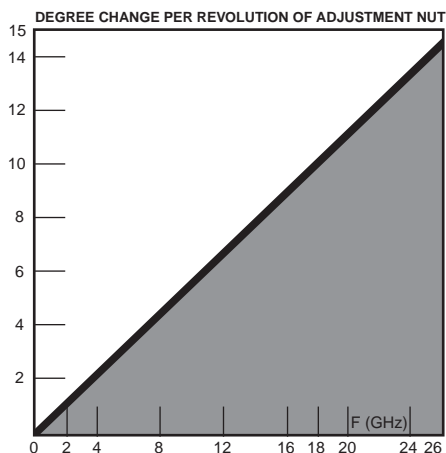
5998CCSF

Female to Male Phase Adjustable Adapter

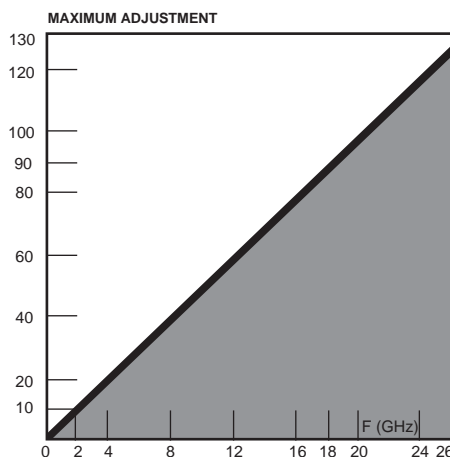


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5998CCSF | 1.05 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.



Physical length change per revolution of adjustment nut: .018 inch
Electrical length change per revolution of adjustment nut: .0127



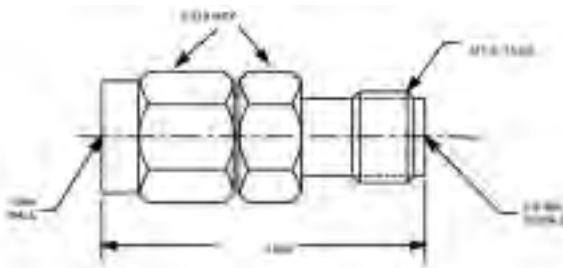
Max. change in physical length: .160 .010 inch of air.
Max. change in electrical length: .113 .007 inch of PTFE.

The Tensolite Model 5998 coaxial phase shift adapter mates in-series with SMA Male and Female connectors, and allows resettable phase adjustments (up to 126 deg. @ 26 GHz) to alter the electrical distance between other components in cable/connector RF lines. Insertion loss is $.05 \times \sqrt{F}$ (GHz), and 50 ohms impedance is maintained over the adjustment range. The 5998 incorporates a positive locking mechanism for calibration accuracy.

Adapters SMA

5016CCSF

SMA male to 2.4 mm female adapter
frequency: DC-24.0 GHz

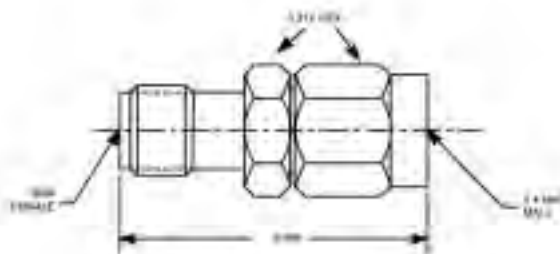


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5016CCSF | 1.12:1 |

Center conductor is captivated.
Standard finish is passivated.

5014CCSF

SMA female to 2.4 mm male adapter
frequency: DC-24.0 GHz

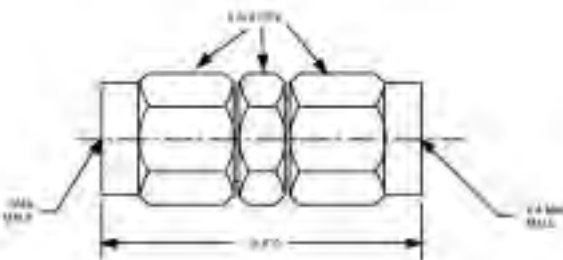


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5014CCSF | 1.12:1 |

Center conductor is captivated.
Standard finish is passivated.

5015CCSF

SMA male to 2.4 mm male adapter
frequency: DC-24.0 GHz

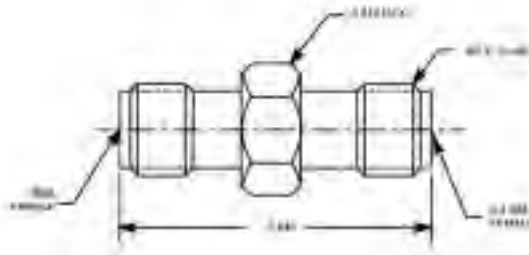


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5015CCSF | 1.12:1 |

Center conductor is captivated.
Standard finish is passivated.

5017CCSF

SMA female to 2.4 mm female adapter
frequency: DC-24.0 GHz



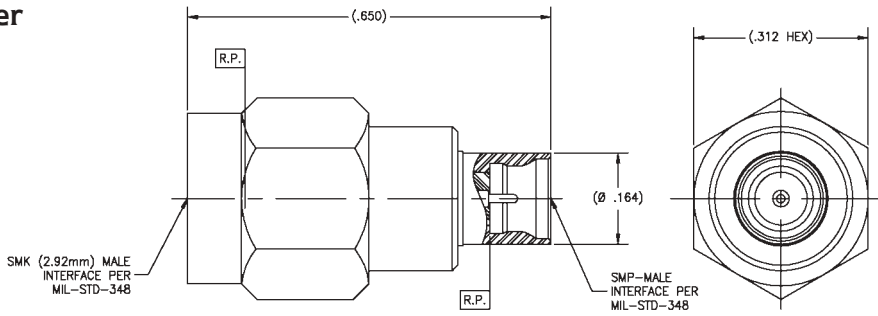
| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 5017CCSF | 1.12:1 |

Center conductor is captivated.
Standard finish is passivated.

Adapters SMP

P902

SMP male to SMK (2.92 mm) male straight adapter

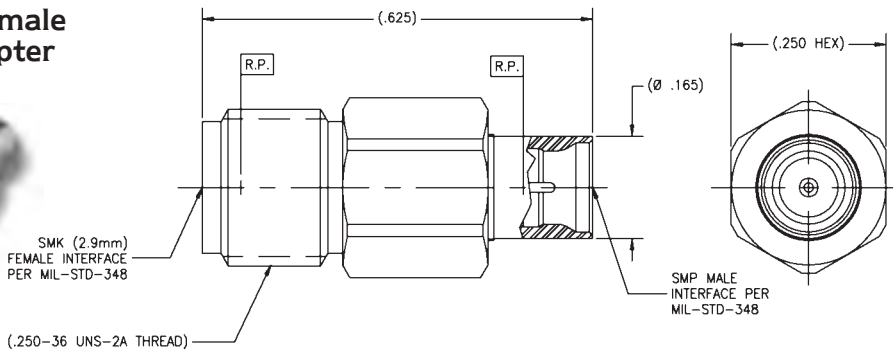


| Tensolite Part Number | Interface |
|-----------------------|----------------|
| P902-1CCSF | Limited Detent |
| P902-2CCSF | Smooth Bore |
| P902-3CCSF | Full Detent |

Center conductor is captivated.
Standard finish is passivated.

P903

SMP male to SMK (2.92mm) female straight adapter

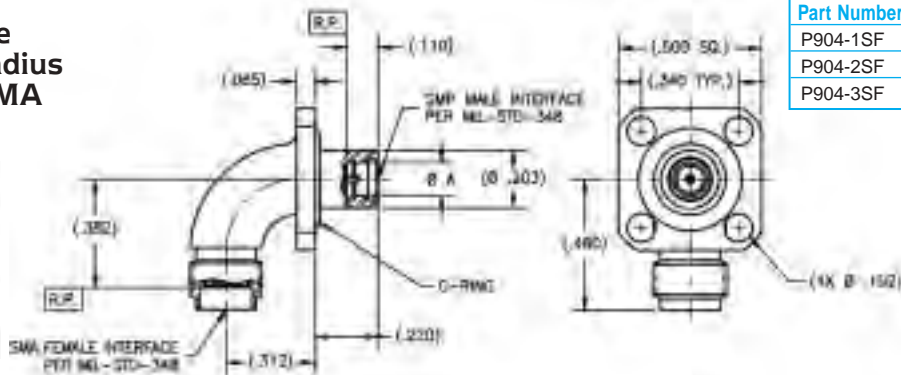


| Tensolite Part Number | Interface |
|-----------------------|----------------|
| P903-1CCSF | Limited Detent |
| P903-2CCSF | Smooth Bore |
| P903-3CCSF | Full Detent |

Center conductor is captivated.
Standard finish is passivated.

P904

SMP male 4 hole flange mount right angle to SMA female adapter

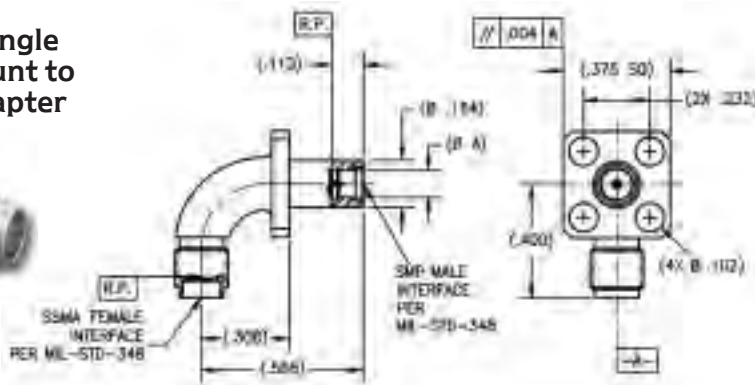


| Tensolite Part Number | (ØA) | Interface |
|-----------------------|--------|----------------|
| P904-1SF | (.116) | Full Detent |
| P904-2SF | (.120) | Limited Detent |
| P904-3SF | (.125) | Smooth Bore |

Standard finish is passivated.

P905

SMP male right angle 4 hole flange mount to SSMA female adapter



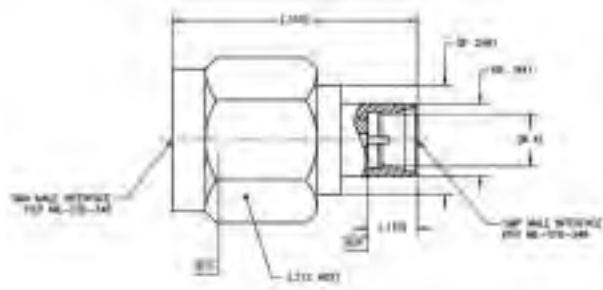
| Tensolite Part Number | (ØA) | Interface |
|-----------------------|--------|----------------|
| P905-1SF | (.116) | Full Detent |
| P905-2SF | (.120) | Limited Detent |
| P905-3SF | (.125) | Smooth Bore |

Standard finish is passivated.

Adapters SMP

P906

SMP male to SMA male straight adapter

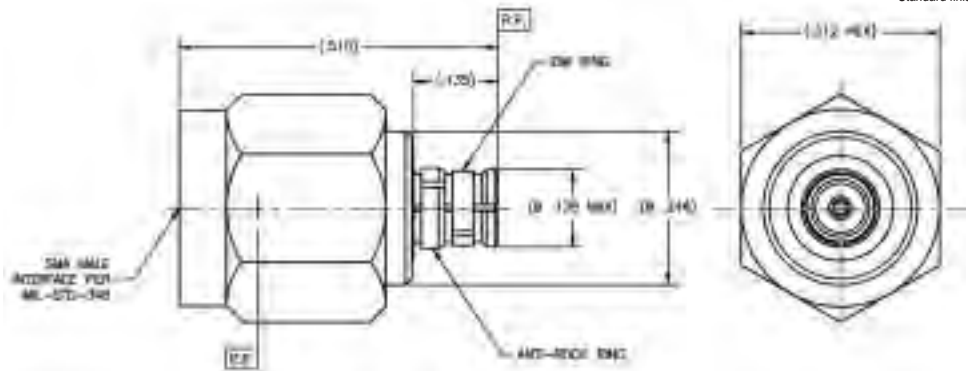


| Tensolite Part Number | (ØA) | Interface |
|-----------------------|--------|----------------|
| P906-1CCSF | (.120) | Limited Detent |
| P906-2CCSF | (.125) | Smooth Bore |
| P906-3CCSF | (.116) | Full Detent |

Center conductor is captivated.
Standard finish is passivated.

P907-1CCSF

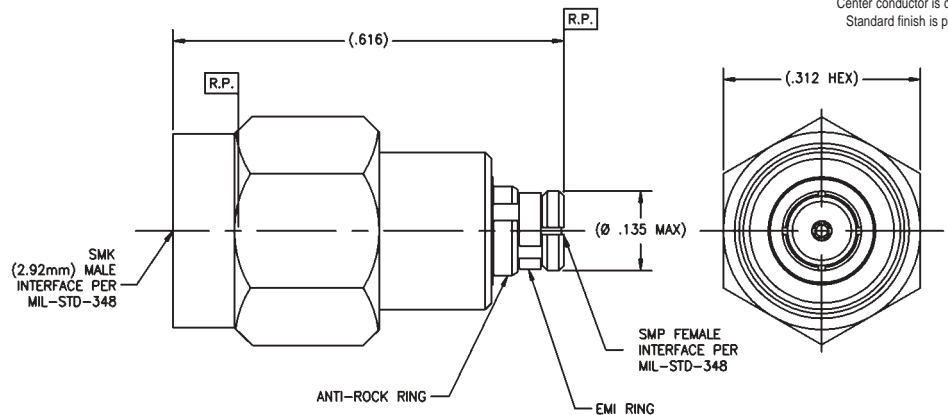
SMP female to SMA male straight adapter



Center conductor is captivated.
Standard finish is passivated.

P908-1CCSF

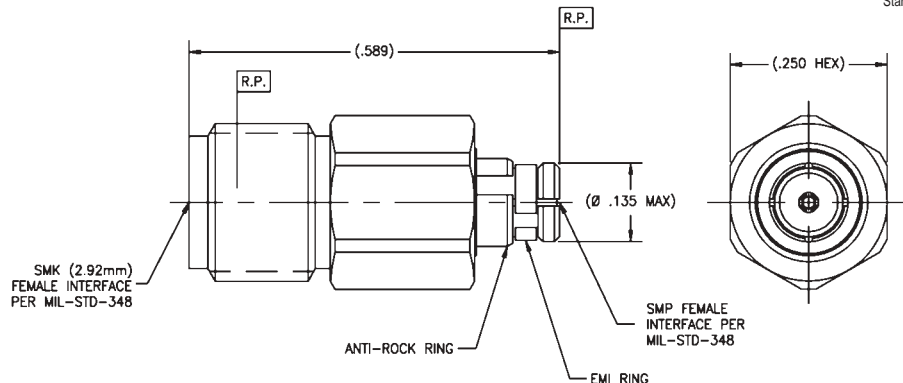
SMP female to SMK (2.92mm) male straight adapter



Center conductor is captivated.
Standard finish is passivated.

P909-1CCSF

SMP female to SMK (2.92mm) female straight adapter

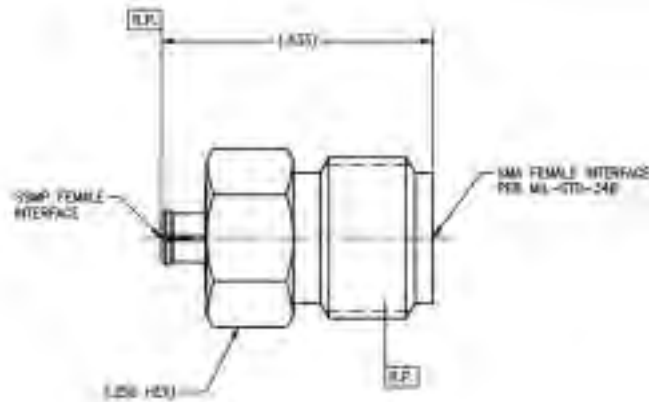


Center conductor is captivated.
Standard finish is passivated.

Adapters SSMP

PI27-1CCSF

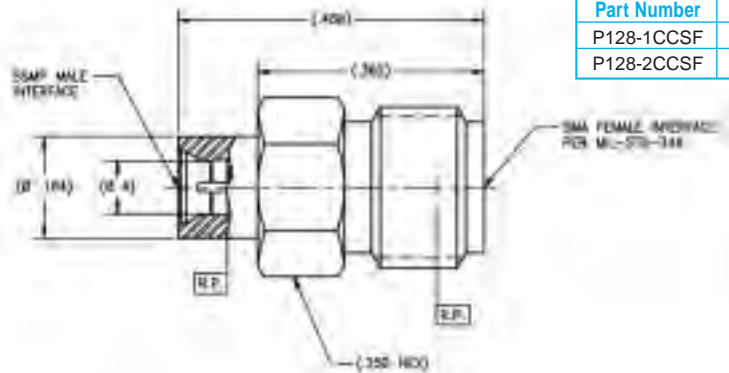
SSMP female to SMA female straight adapter



Center conductor is captivated.
Standard finish is passivated.

PI28

SSMP male to SMA female straight adapter

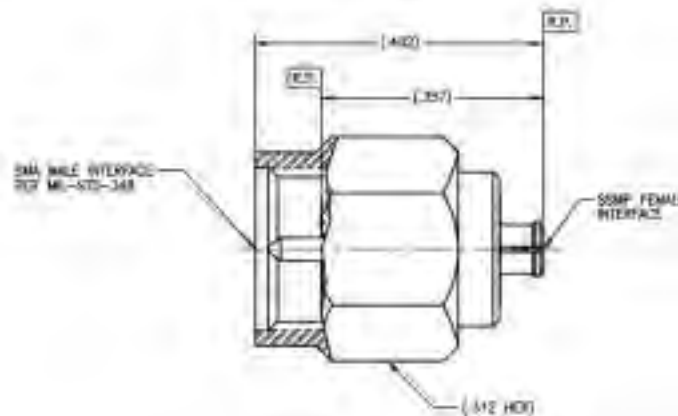


| Tensolite Part Number | (ØA) | Interface |
|-----------------------|--------|------------|
| P128-1CCSF | (.085) | Detent |
| P128-2CCSF | (.088) | Non-detent |

Center conductor is captivated.
Standard finish is passivated.

PI29-1CCSF

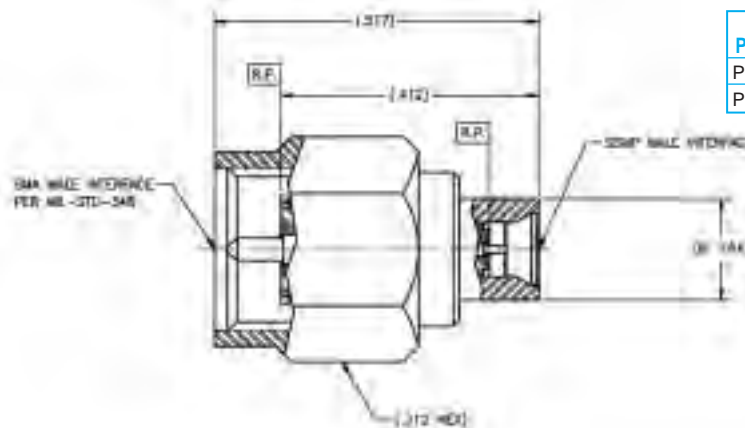
SSMP female to SMA male straight adapter



Center conductor is captivated.
Standard finish is passivated.

PI30

SSMP male to SMA male straight adapter



| Tensolite Part Number | Interface |
|-----------------------|------------|
| P130-1CCSF | Detent |
| P130-2CCSF | Non-detent |

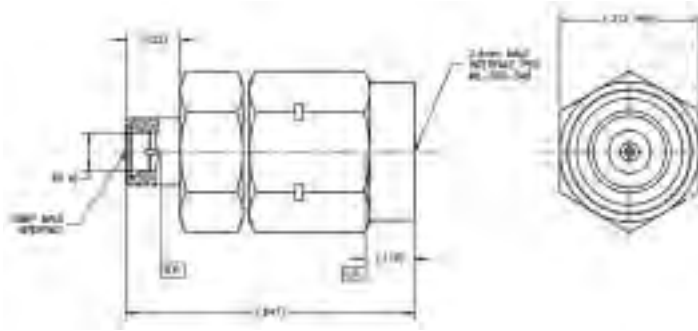
Center conductor is captivated.
Standard finish is passivated.

Adapters SSMP

SSMP Adapters

P139

SSMP male to 2.4mm male straight adapter

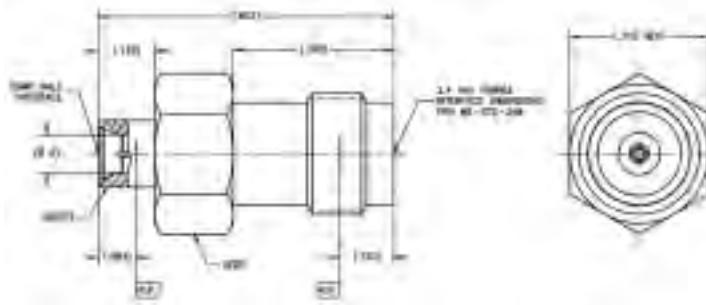


| Tensolite Part Number | (ØA) | Interface |
|-----------------------|------|-------------|
| P139-1CC | .085 | Detent |
| P139-1CCSF | .085 | Detent |
| P139-2CC | .085 | Smooth Bore |
| P139-2CCSF | .085 | Smooth Bore |

SF designates passivated finish.
Standard units are gold finish.

P141

SSMP male to 2.4 mm female straight adapter



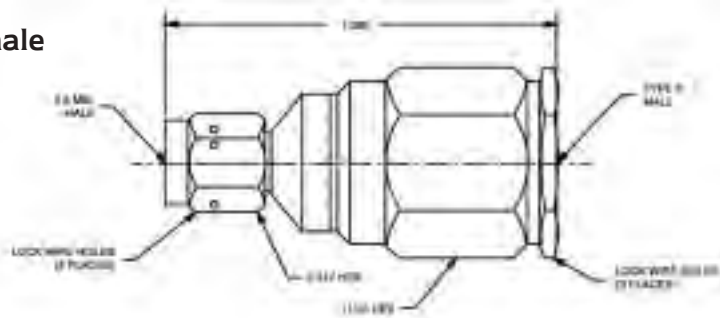
| Tensolite Part Number | (ØA) | Interface |
|-----------------------|------|------------|
| P141-1CC | .085 | Detent |
| P141-1CCSF | .085 | Detent |
| P141-2CC | .088 | Non-detent |
| P141-2CCSF | .088 | Non-detent |

SF designates passivated finish.
Standard units are gold finish.

Adapters Type N Between Series - 3.5 mm, SMA, TNC

5029CCSF

N male to 3.5 mm male adapter

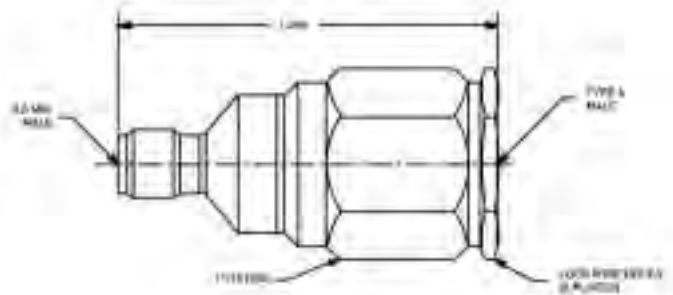


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5029CCSF | 1.08 + .007 GHz |

Center conductor is captivated.
Standard finish is passivated.

5030CCSF

N male to 3.5 mm female adapter

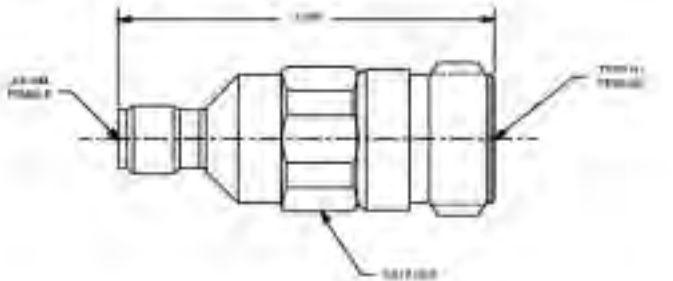


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5030CCSF | 1.08 + .007 GHz |

Center conductor is captivated.
Standard finish is passivated.

5027CCSF

N female to 3.5 mm female adapter

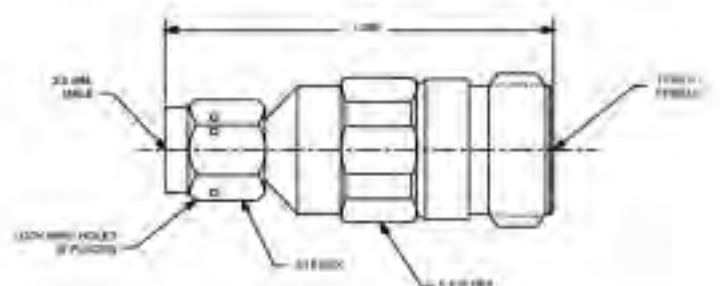


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5027CCSF | 1.08 + .007 GHz |

Center conductor is captivated.
Standard finish is passivated.

5028CCSF

N female to 3.5 mm male adapter



| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5028CCSF | 1.08 + .007 GHz |

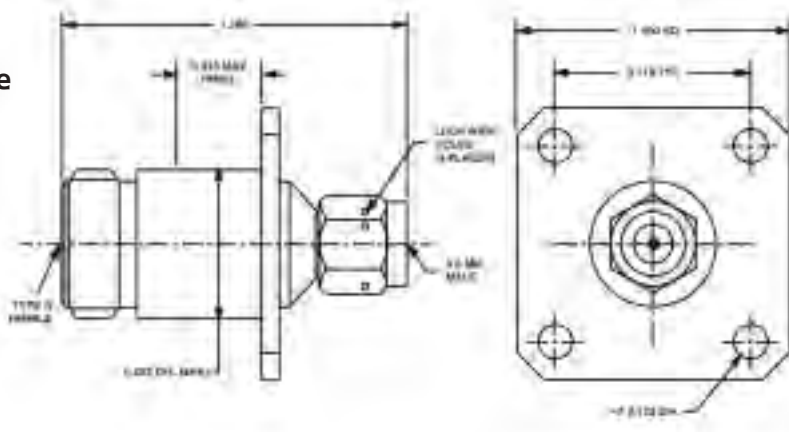
Center conductor is captivated.
Standard finish is passivated.

Type N Between Series Adapters

Adapters Type N Between Series - 3.5 mm, SMA, TNC

5039CCSF

N female to 3.5 mm male adapter, flange mount

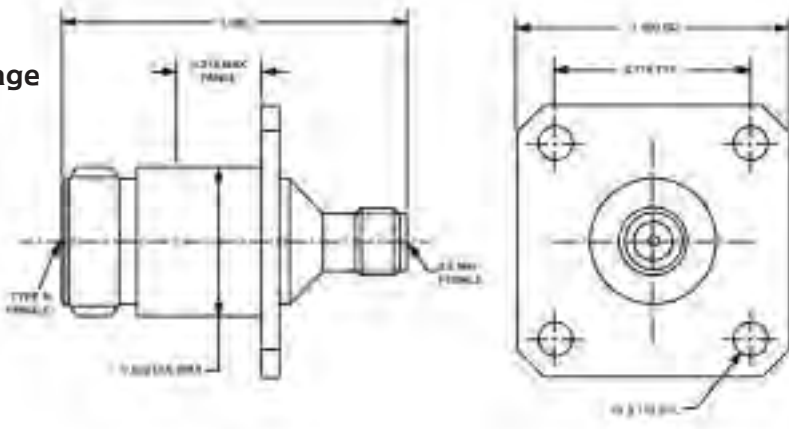


| Tensolite Part Number | Max. VSWR DC-18.0 fGHz |
|-----------------------|------------------------|
| 5039CCSF | 1.08 + .007 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5040CCSF

N female to 3.5 mm female adapter, flange mount

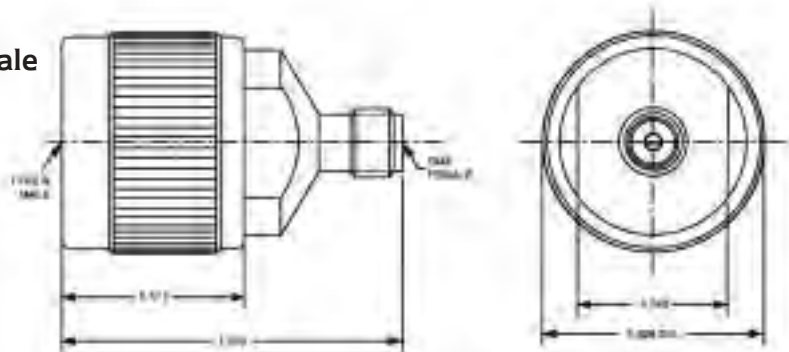


| Tensolite Part Number | Max. VSWR DC-18.0 fGHz |
|-----------------------|------------------------|
| 5040CCSF | 1.08 + .007 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5004CCSF

N male to SMA female adapter

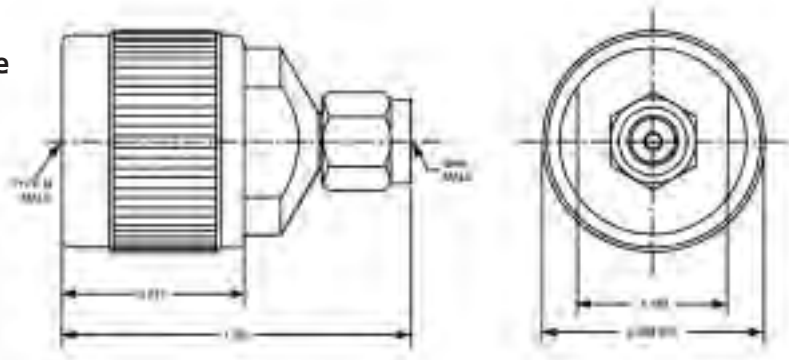


| Tensolite Part Number | Max. VSWR DC-18.0 fGHz |
|-----------------------|------------------------|
| 5004CCSF | 1.06 + .005 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5006CCSF

N male to SMA male adapter



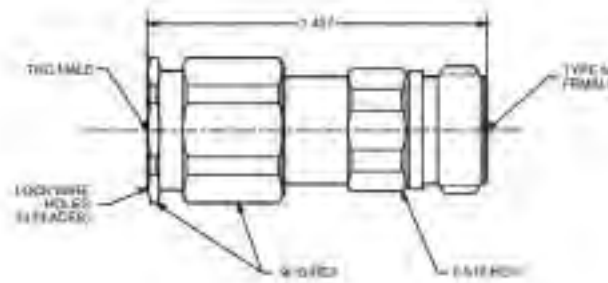
| Tensolite Part Number | Max. VSWR DC-18.0 fGHz |
|-----------------------|------------------------|
| 5006CCSF | 1.06 + .005 fGHz |

Center conductor is captivated.
Standard finish is passivated.

Adapters Type N Between Series - 3.5 mm, SMA, TNC

5013CCSF

TNC male to type N female adapter

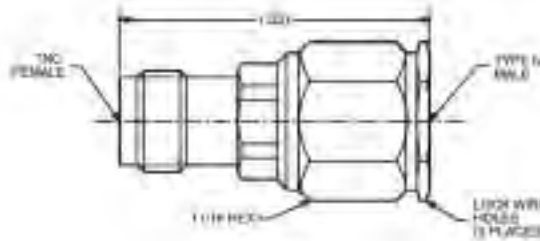


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5013CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5034CCSF

TNC female to type N male adapter

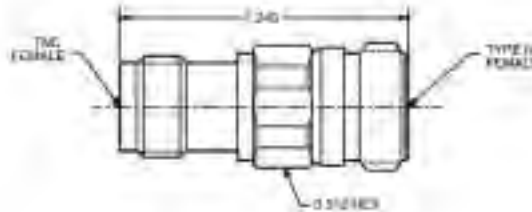


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5034CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5035CCSF

TNC female to type N female adapter

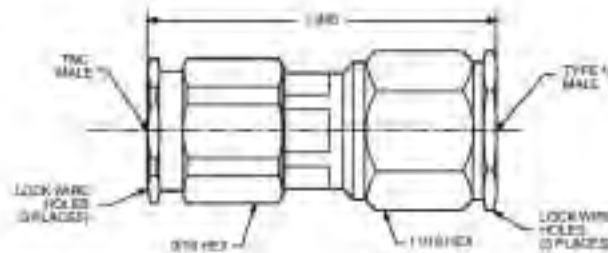


| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5035CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

5033CCSF

N male to TNC male adapter



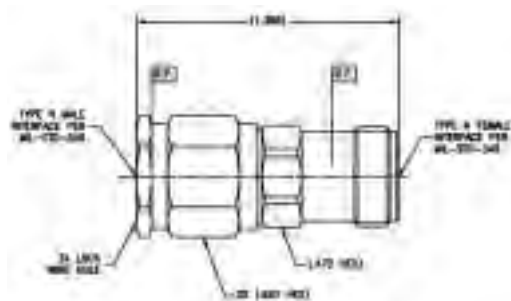
| Tensolite Part Number | Max. VSWR DC-18.0 GHz |
|-----------------------|-----------------------|
| 5033CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

Adapters Type N In-Series Adapters

8036CCSF

N Male to female adapter

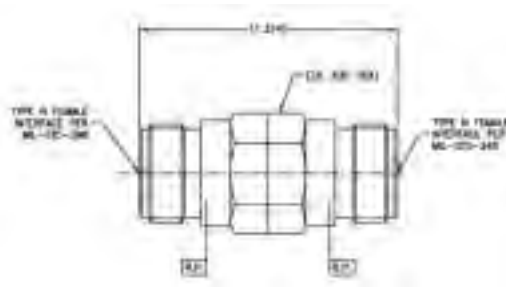


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8036CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

8037CCSF

N Female to female adapter

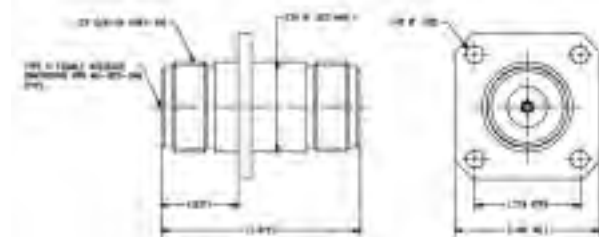


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8037CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

8038CCSF

N Female to female adapter, flange mount

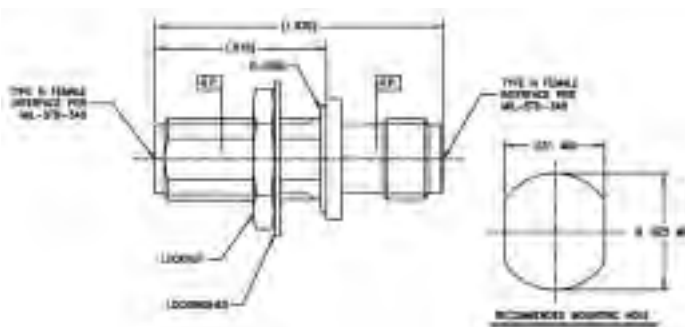


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8038CCSF | 1.09 + .008 fGHz |

Center conductor is captivated.
Standard finish is passivated.

8020CCSF

N Female to female adapter, bulkhead feedthrough



| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8020CCSF | 1.25:1 |

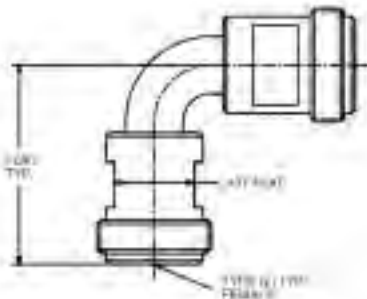
Center conductor is captivated.
Standard finish is passivated.

Type N In-Series Adapters

Adapters Type N In-Series Adapters

8029CCSF

Right Angle, FE/FE
In-Series Adapter

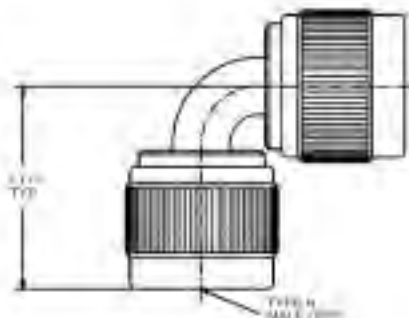


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8029CCSF | 1.20:1 |

Center conductor is captivated.
Standard finish is passivated.

8028CCSF

Right Angle, MA/MA
In-Series Adapter

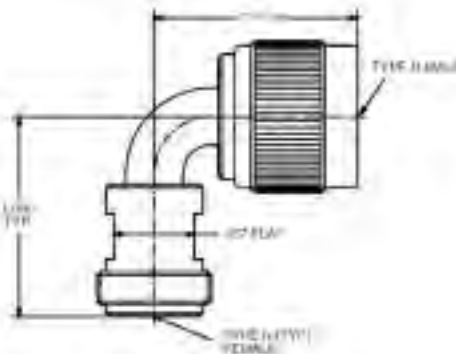


| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8028CCSF | 1.20:1 |

Center conductor is captivated.
Standard finish is passivated.

8030CCSF

Right Angle,
MA/FE In-Series Adapter



| Tensolite Part Number | Max. VSWR DC - 18.0 GHz |
|-----------------------|-------------------------|
| 8030CCSF | 1.20:1 |

Center conductor is captivated.
Standard finish is passivated.



QBC Quality Blind Mate Connectors

QBC Quality Blind Mate Connectors

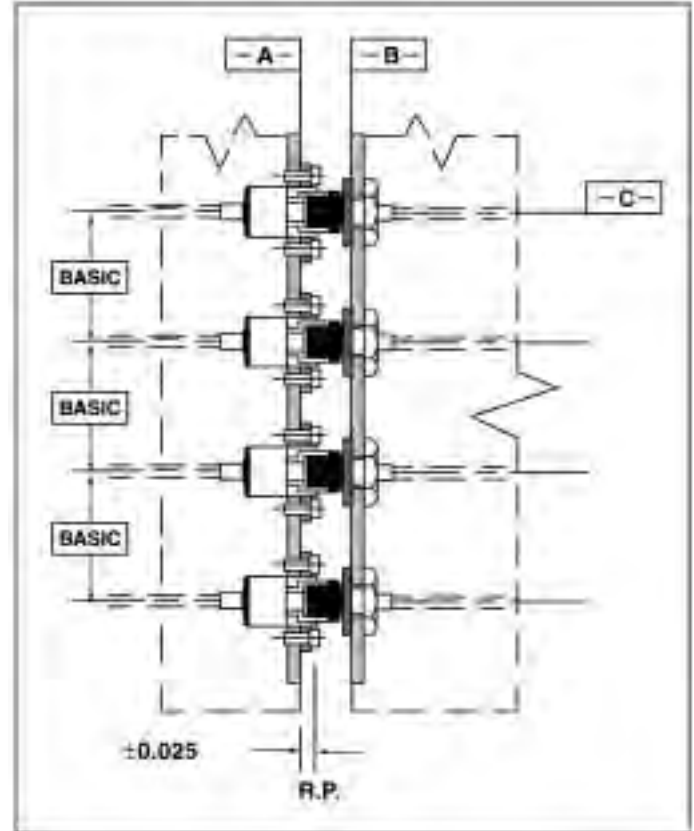
Tensolite's QBC™ product line is a Connector Series providing blind mate solutions for Industry Standard Connectors.

The QBC Quality Blind Mate Connector is an independently mountable, self aligning, radial capture, coaxial cable termination, matable directly to Mil-Std-348A coaxial connectors.

SMA, SMB, SMC, Type N, Type F, BNC and TNC are all compatible with Tensolite's QBC™ System.

Consistent with Mil-Std-348A series applications, the QBC™ is a uniquely designed blind mate interface solution. Providing a low-cost and "ease-of-use" solution, the QBC™ system allows for .025" radial misalignments and .060" axial displacement.

Tensolite's QBC™ Series is ideal for use in both end product and production test applications. Tensolite offers the QBC™ in

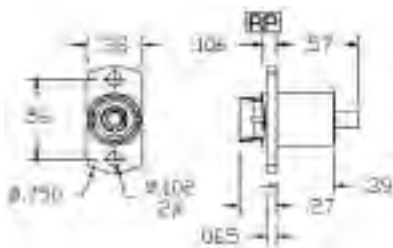


two mounting configurations and is available in both 50- and 75-Ohm interfaces.

Structural stiffness of mating arrays -A- and -B- must support QBC reference plane relationship. Each termination location exerts a longitudinal force of less than 4.0 lbs. between arrays -A- and -B-. Mating arrays -A- and -B- have matched basic mounting hole locations for terminations. Tolerances suggest preferred flange to reference plane relationship within a group of front flange mounts. All termination mounting features are positioned Basic to users datum's.

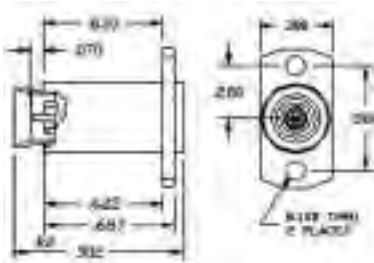
Tested Interconnect Frequencies

| | | |
|------------|---|--------|
| QBC-SMA | @ | 18 Ghz |
| QBC-SMB | @ | 4 Ghz |
| QBC-SMC | @ | 10 Ghz |
| QBC-Type N | @ | 12 Ghz |
| QBC-Type F | @ | 3 Ghz |
| QBC-BNC | @ | 4 Ghz |
| QBC-TNC | @ | 12 Ghz |



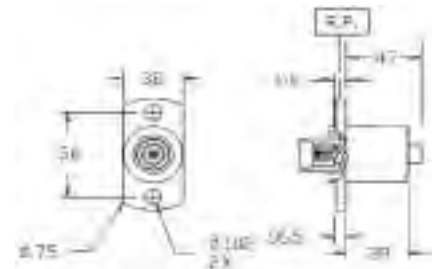
Connector Selection Code 63
SMA Plug QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | 303 Stainless | Passivate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



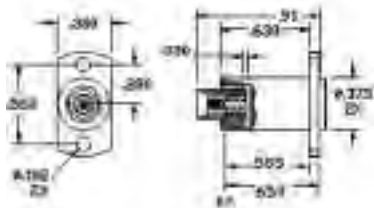
Connector Selection Code 64
SMA Reverse Flange QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|--------------|
| Housing | Brass | Nickel Plate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



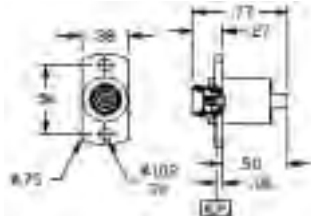
Connector Selection Code B1
SMB Plug QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | 303 Stainless | Passivate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



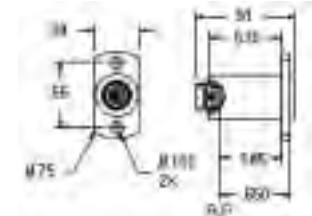
Connector Selection Code B5
SMB Reverse Flange QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|--------------|
| Housing | Brass | Nickel Plate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



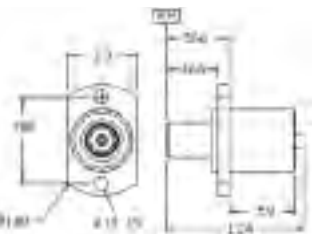
Connector Selection Code J0
SMC Plug QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | 303 Stainless | Passivate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



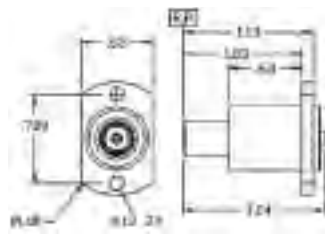
Connector Selection Code J4
SMC Reverse Flange QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|--------------|
| Housing | Brass | Nickel Plate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



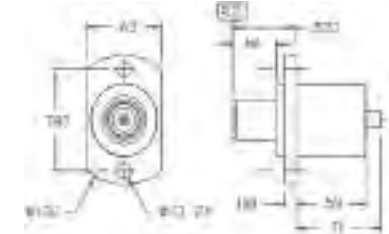
Connector Selection Code E1
Type N Plug QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | 303 Stainless | Passivate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



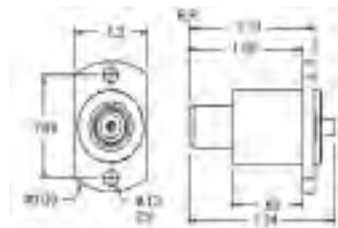
Connector Selection Code E3
Type N Reverse flange QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|--------------|
| Housing | Brass | Nickel Plate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



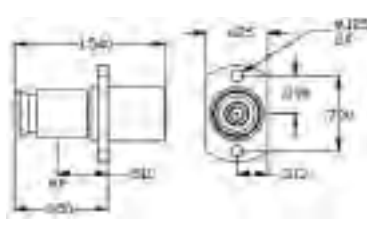
Connector Selection Code F1
BNC/TNC Plug QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | 303 Stainless | Passivate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



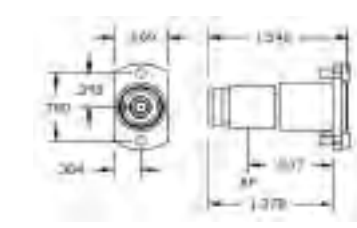
Connector Selection Code F3
BNC/TNC Reverse flange QBC – 50 OHM

| Item | Materials | Finishes |
|-----------|------------------|--------------|
| Housing | Brass | Nickel Plate |
| Shell | Brass | Gold Plate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |



Connector Selection Code L2
Type F Plug QBC – 75 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | Brass | Gold Plate |
| Shell | 303 Stainless | Passivate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |

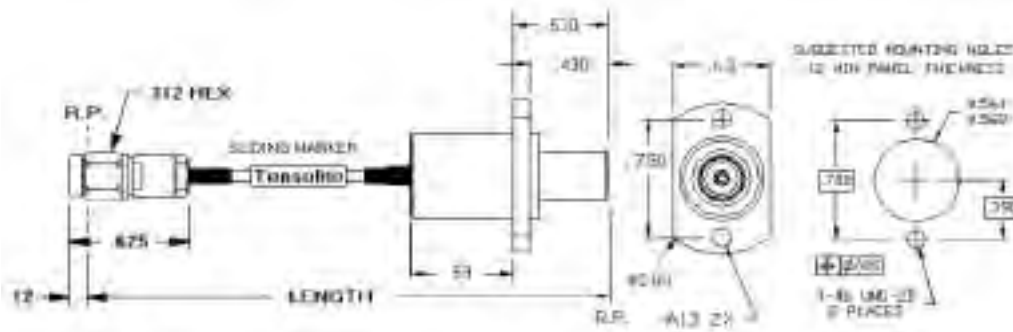


Connector Selection Code L1
Type F Reverse Flange QBC – 75 OHM

| Item | Materials | Finishes |
|-----------|------------------|------------|
| Housing | Brass | Gold Plate |
| Shell | 303 Stainless | Passivate |
| Insulator | PTFE | None |
| Contact | Copper Beryllium | Gold Plate |

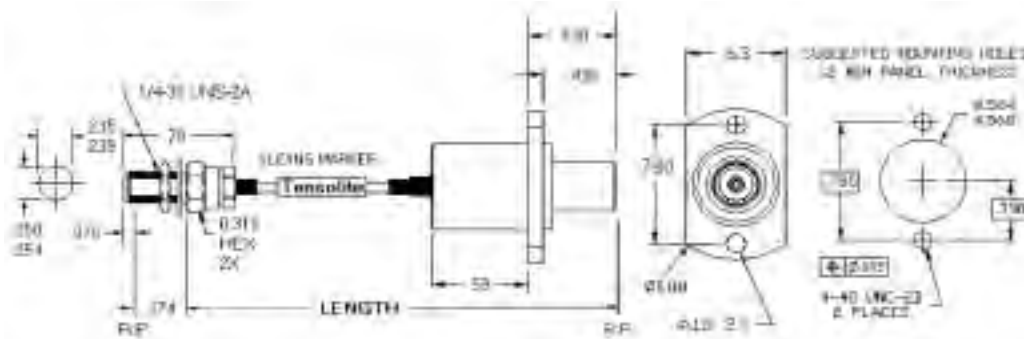
QBC Quality Blind Mate Connectors

SMA MALE TO QBC BNC / TNC PLUG ON 561 Q-FLEX® PLUS CABLE.



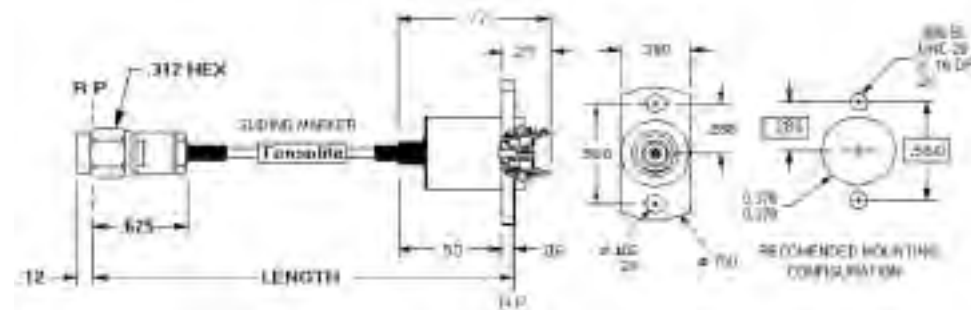
| PART NUMBER | LENGTH (INCHES) | ± LENGTH | WEIGHT (OUNCES) |
|----------------|-----------------|----------|-----------------|
| 1-36T-561-3208 | 5 | 0.0 | 0.4 |
| 1-36T-561-3212 | 5 | 12.0 | 0.6 |
| 1-36T-561-3216 | 5 | 18.0 | 0.8 |
| 1-36T-561-3220 | 5 | 24.0 | 1.0 |
| 1-36T-561-3224 | 5 | 30.0 | 1.2 |
| 1-36T-561-3228 | 5 | 36.0 | 1.4 |
| 1-36T-561-3232 | 5 | 42.0 | 1.6 |
| 1-36T-561-3236 | 5 | 48.0 | 1.8 |
| 1-36T-561-3240 | 5 | 54.0 | 2.0 |
| 1-36T-561-3244 | 5 | 60.0 | 2.2 |
| 1-36T-561-3248 | 5 | 66.0 | 2.4 |
| 1-36T-561-3252 | 5 | 72.0 | 2.6 |
| 1-36T-561-3256 | 5 | 78.0 | 2.8 |

SMA FEMALE BULKHEAD TO QBC BNC / TNC PLUG ON 561 Q-FLEX® PLUS CABLE.



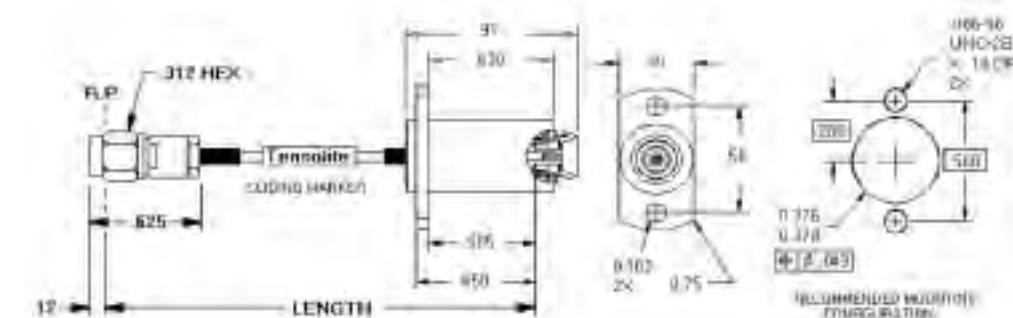
| PART NUMBER | LENGTH (INCHES) | ± LENGTH | WEIGHT (OUNCES) |
|----------------|-----------------|----------|-----------------|
| 1-36F-561-3208 | 5 | 0.0 | 0.4 |
| 1-36F-561-3212 | 5 | 12.0 | 0.6 |
| 1-36F-561-3216 | 5 | 18.0 | 0.8 |
| 1-36F-561-3224 | 5 | 24.0 | 1.0 |
| 1-36F-561-3228 | 5 | 30.0 | 1.2 |
| 1-36F-561-3236 | 5 | 36.0 | 1.4 |
| 1-36F-561-3248 | 5 | 48.0 | 1.8 |
| 1-36F-561-3252 | 5 | 60.0 | 2.2 |
| 1-36F-561-3272 | 5 | 72.0 | 2.6 |
| 1-36F-561-3284 | 5 | 84.0 | 3.0 |

SMA MALE TO QBC SMC PLUG ON 561 Q-FLEX® PLUS CABLE.



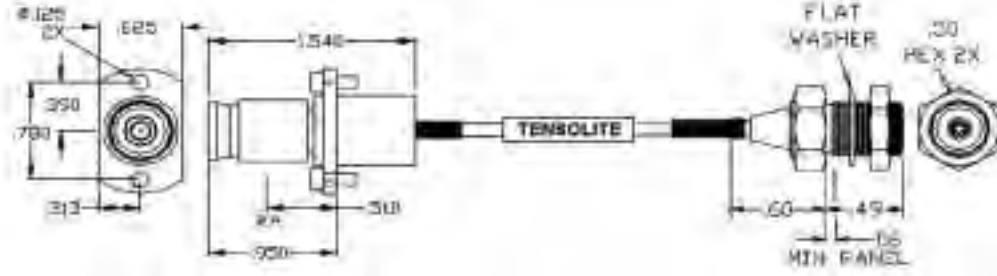
| PART NUMBER | LENGTH (INCHES) | ± LENGTH | WEIGHT (OUNCES) |
|----------------|-----------------|----------|-----------------|
| 1-36M-561-3208 | 5 | 0.0 | 0.4 |
| 1-36M-561-3212 | 5 | 12.0 | 0.6 |
| 1-36M-561-3216 | 5 | 18.0 | 0.8 |
| 1-36M-561-3224 | 5 | 24.0 | 1.0 |
| 1-36M-561-3228 | 5 | 30.0 | 1.2 |
| 1-36M-561-3236 | 5 | 36.0 | 1.4 |
| 1-36M-561-3248 | 5 | 48.0 | 1.8 |
| 1-36M-561-3252 | 5 | 60.0 | 2.2 |
| 1-36M-561-3272 | 5 | 72.0 | 2.6 |
| 1-36M-561-3284 | 5 | 84.0 | 3.0 |

SMA MALE TO QBC SMC REVERSE FLANGE PLUG ON 561 Q-FLEX® PLUS CABLE.



| PART NUMBER | LENGTH (INCHES) | ± LENGTH | WEIGHT (OUNCES) |
|----------------|-----------------|----------|-----------------|
| 1-36M-561-3208 | 5 | 0.0 | 0.4 |
| 1-36M-561-3212 | 5 | 12.0 | 0.6 |
| 1-36M-561-3216 | 5 | 18.0 | 0.8 |
| 1-36M-561-3224 | 5 | 24.0 | 1.0 |
| 1-36M-561-3228 | 5 | 30.0 | 1.2 |
| 1-36M-561-3236 | 5 | 36.0 | 1.4 |
| 1-36M-561-3248 | 5 | 48.0 | 1.8 |
| 1-36M-561-3252 | 5 | 60.0 | 2.2 |
| 1-36M-561-3272 | 5 | 72.0 | 2.6 |
| 1-36M-561-3284 | 5 | 84.0 | 3.0 |

**75 OHM QBC F MALE TO TYPE F B'HD ON
837 Q-FLEX® PLUS CABLE.**



| PART NUMBER | LENGTH (FOOT) | W. (INCH) | HEIGHT (INCH) | |
|-----------------|---------------|-----------|---------------|-----|
| 1.FFL2-837-3208 | 8 | 0.0 | 0.25 | 0.6 |
| 1.FFL2-837-3212 | 8 | 12.0 | 0.25 | 0.7 |
| 1.FFL2-837-3218 | 8 | 18.0 | 0.25 | 0.0 |
| 1.FFL2-837-3224 | 8 | 24.0 | 0.25 | 1.0 |
| 1.FFL2-837-3230 | 8 | 30.0 | 0.25 | 1.2 |
| 1.FFL2-837-3236 | 8 | 36.0 | 0.25 | 1.3 |
| 1.FFL2-837-3248 | 8 | 48.0 | 0.25 | 1.0 |
| 1.FFL2-837-3260 | 8 | 60.0 | 0.25 | 1.0 |
| 1.FFL2-837-3272 | 8 | 72.0 | 0.25 | 2.2 |
| 1.FFL2-837-3284 | 8 | 84.0 | 0.25 | 2.5 |

How to Order:

Designate the desired assembly by choosing from the available cables and connectors from the matrix to the far right. Insert the codes at the appropriate location as noted in the example. **Connector codes should be listed in increasing numerical sequence.**

Contact Tensolite for cables and connectors not shown.

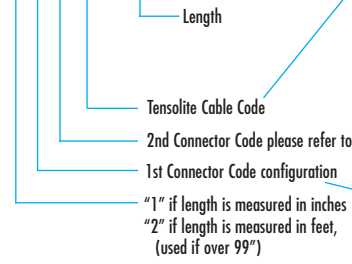
ABBREVIATIONS
FEPFluorinated ethylene propylene
PURPolyurethane

HOW TO USE THIS GUIDE

- 1 Choose your cable**
- 2 Choose your connectors**
- 3 Build your part number**
- 4 Call Tensolite: 800-362-3539
Fax: 978-475-1583**

QBC Quality Blind Mate Connectors

3 ALL OTHER ASSEMBLIES
X-XXXX-XXX-32 XX



1

| Tensolite Cable Code | Description | Cable Diameter | Frequency Range | Jacket Material |
|----------------------|------------------|----------------|-----------------|-----------------|
| 561 | Q-Flex Plus® | .115 | 18 & 26.5 | PUR |
| 837 | Q-Flex Plus® 0hm | .115 | 18 & 26.5 | PUR |

CONNECTOR CODES

| SERIES | BNC | TNC | TYPE N | SMA | TYPE F |
|-----------------------|-----|-----|--------|------|--------|
| Max Frequency in GHz4 | 4 | 18 | 18 | 26.5 | 3 |
| CONFIGURATION | | | | | |
| Plug | 24 | 30 | 18 | 36 | - |
| Jack | - | - | - | - | - |
| Bulkhead Jack | - | - | - | 40 | FO |

RF Microwave Standard Assemblies



RF Microwave Standard Assemblies

Q-Flex® Series Specifications

Q-Flex® assemblies are a unique ALTERNATIVE to custom designed flexible coaxial cables. Traditionally custom specified, these cables are now available in various lengths and deliverable in 24 hours.

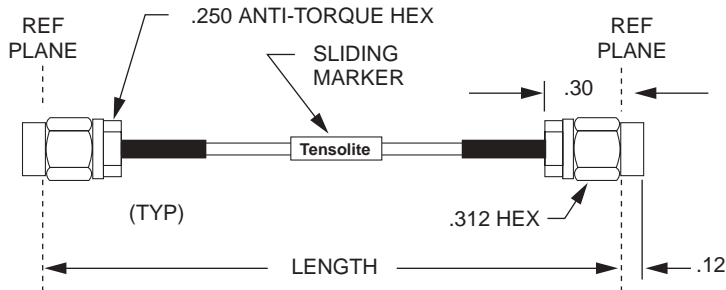
There is less than .05dB insertion loss with flexure, so your requirements for a stable cable are easily maintained.

Q-Flex® utilizes Tensolite's anti-torque SMA, SMP or a connector of your choice, thus extending the cable's useful life.

| Assembly Cable Code | Bulk Cable P/N | OD |
|---------------------|----------------|-------|
| 461 | LLF-1087 | .105" |
| 794 | HFF-1087 | .105" |
| 463 | LLF-1141 | .163" |
| 465 | LLF-1250 | .270" |

Flexible Alternatives to RG 405, 402 and 401 with improved attenuation

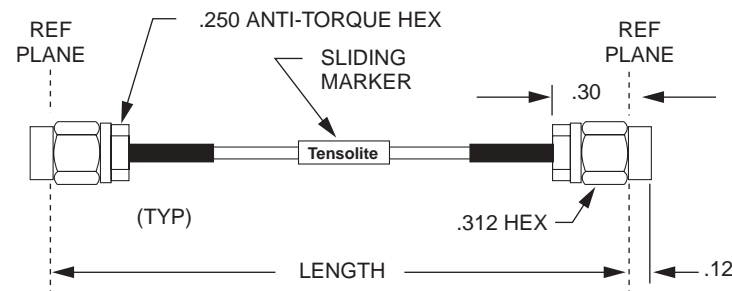
18 GHz SMA Male to SMA Male on 461 Q-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-461-5204 | 4.00 | 0.25 | 0.3 |
| 1-3636-461-5205 | 5.00 | 0.25 | 0.3 |
| 1-3636-461-5206 | 6.00 | 0.25 | 0.3 |
| 1-3636-461-5208 | 8.00 | 0.25 | 0.3 |
| 1-3636-461-5212 | 12.00 | 0.25 | 0.3 |
| 1-3636-461-5218 | 18.00 | 0.25 | 0.5 |
| 1-3636-461-5224 | 24.00 | 0.25 | 0.7 |
| 1-3636-461-5236 | 36.00 | 0.36 | 0.9 |
| 1-3636-461-5248 | 48.00 | 0.48 | 1.2 |

1-3636-461-52XX
Your Length

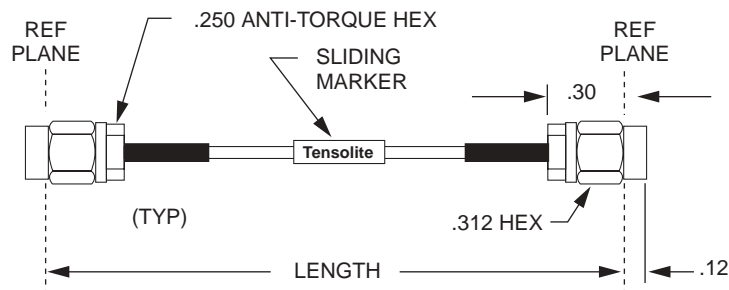
18 GHz SMA Male to SMA Male on 463 Q-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-463-5204 | 4.00 | 0.25 | 0.5 |
| 1-3636-463-5205 | 5.00 | 0.25 | 0.5 |
| 1-3636-463-5206 | 6.00 | 0.25 | 0.6 |
| 1-3636-463-5208 | 8.00 | 0.25 | 0.7 |
| 1-3636-463-5212 | 12.00 | 0.25 | 0.9 |
| 1-3636-463-5218 | 18.00 | 0.25 | 1.2 |
| 1-3636-463-5224 | 24.00 | 0.25 | 1.6 |
| 1-3636-463-5236 | 36.00 | 0.36 | 2.2 |
| 1-3636-463-5248 | 48.00 | 0.48 | 2.9 |

1-3636-463-52XX
Your Length

18 GHz SMA Male to SMA Male on 465 Q-Flex® Cable



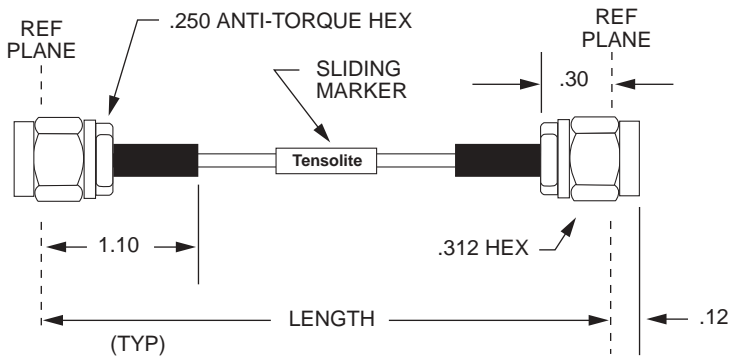
| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-465-5204 | 4.00 | 0.25 | 0.7 |
| 1-3636-465-5205 | 5.00 | 0.25 | 0.8 |
| 1-3636-465-5206 | 6.00 | 0.25 | 0.9 |
| 1-3636-465-5208 | 8.00 | 0.25 | 1.1 |
| 1-3636-465-5212 | 12.00 | 0.25 | 1.6 |
| 1-3636-465-5218 | 18.00 | 0.25 | 2.2 |
| 1-3636-465-5224 | 24.00 | 0.25 | 2.9 |
| 1-3636-465-5236 | 36.00 | 0.36 | 4.2 |
| 1-3636-465-5248 | 48.00 | 0.48 | 5.5 |

1-3636-465-52XX
Your Length

RF Microwave Q-Flex®

Q-Flex® Series Specifications

40 GHz smK Male to smK Male on 794 Q-Flex® Cable

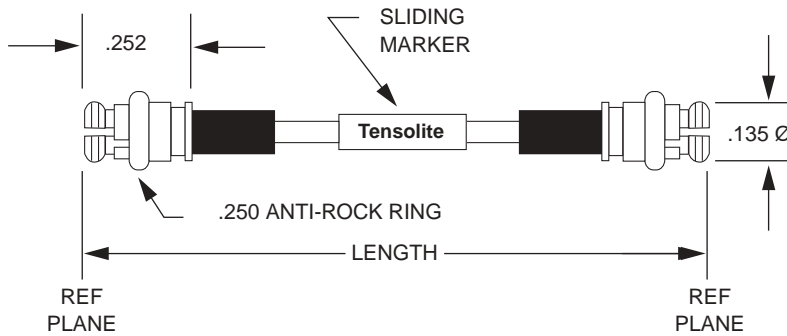


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-K6K6-794-5304 | 4.00 | 0.25 | 0.3 |
| 1-K6K6-794-5305 | 5.00 | 0.25 | 0.3 |
| 1-K6K6-794-5306 | 6.00 | 0.25 | 0.3 |
| 1-K6K6-794-5308 | 8.00 | 0.25 | 0.3 |
| 1-K6K6-794-5312 | 12.00 | 0.25 | 0.4 |
| 1-K6K6-794-5318 | 18.00 | 0.25 | 0.5 |
| 1-K6K6-794-5324 | 24.00 | 0.25 | 0.7 |
| 1-K6K6-794-5336 | 36.00 | 0.36 | 0.9 |
| 1-K6K6-794-5348 | 48.00 | 0.48 | 1.2 |

1-K6K6-794-53XX

Your Length

40 GHz SMP Plug to SMP Plug on 794 Q-Flex® Cable

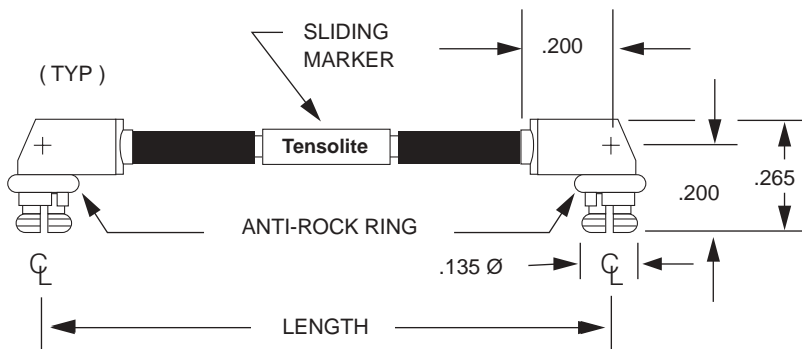


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-G6G6-794-3304 | 4.00 | 0.25 | 0.3 |
| 1-G6G6-794-3305 | 5.00 | 0.25 | 0.3 |
| 1-G6G6-794-3306 | 6.00 | 0.25 | 0.3 |
| 1-G6G6-794-3308 | 8.00 | 0.25 | 0.3 |
| 1-G6G6-794-3312 | 12.00 | 0.25 | 0.4 |
| 1-G6G6-794-3318 | 18.00 | 0.25 | 0.5 |
| 1-G6G6-794-3324 | 24.00 | 0.25 | 0.7 |
| 1-G6G6-794-3336 | 36.00 | 0.36 | 0.9 |
| 1-G6G6-794-3348 | 48.00 | 0.48 | 1.2 |

1-G6G6-794-33XX

Your Length

26 GHz SMP Right Angle Plug to SMP Right Angle Plug on 794 Q-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-G7G7-794-3304 | 4.00 | 0.25 | 0.3 |
| 1-G7G7-794-3305 | 5.00 | 0.25 | 0.3 |
| 1-G7G7-794-3306 | 6.00 | 0.25 | 0.3 |
| 1-G7G7-794-3308 | 8.00 | 0.25 | 0.3 |
| 1-G7G7-794-3312 | 12.00 | 0.25 | 0.4 |
| 1-G7G7-794-3318 | 18.00 | 0.25 | 0.5 |
| 1-G7G7-794-3324 | 24.00 | 0.25 | 0.7 |
| 1-G7G7-794-3336 | 36.00 | 0.36 | 0.9 |
| 1-G7G7-794-3348 | 48.00 | 0.48 | 1.2 |

1-G7G7-794-33XX

Your Length

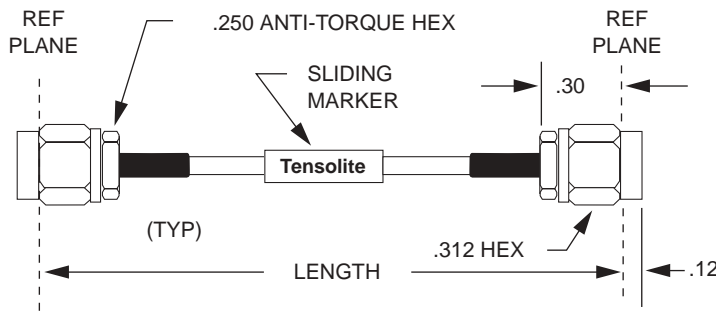
Q-Flex® Plus Specifications

Q-Flex® Plus assemblies offer even greater flexibility for Semi-Rigid equivalent flexible coax cables. The coax is very flexible, allowing you to bend it in a tight radius with nominal spring back. As an example, Q-Flex® Plus 561 bend force and spring back properties are only half the amount of standard flexible 405 cable. This makes it great for applications such as missile gimbals and test and measurement devices that are in tight locations.

| Assembly Cable Code | Bulk Cable P/N | OD |
|---------------------|----------------|-------|
| 561 | LLFP-1087 | .115" |
| 563 | LLFP-1141 | .180" |
| 565 | LLFP-1250 | .290" |

Flexible Alternatives to RG 405, 402 and 401 with improved attenuation

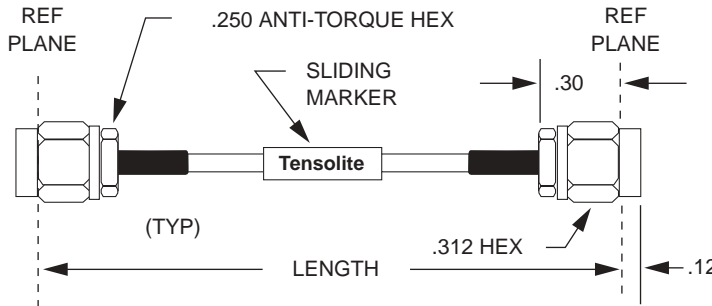
18 GHz SMA Male to SMA Male on 561 Q-Flex® Plus Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-561-5204 | 4.00 | 0.25 | 0.3 |
| 1-3636-561-5205 | 5.00 | 0.25 | 0.3 |
| 1-3636-561-5206 | 6.00 | 0.25 | 0.3 |
| 1-3636-561-5208 | 8.00 | 0.25 | 0.3 |
| 1-3636-561-5212 | 12.00 | 0.25 | 0.4 |
| 1-3636-561-5218 | 18.00 | 0.25 | 0.5 |
| 1-3636-561-5224 | 24.00 | 0.25 | 0.7 |
| 1-3636-561-5236 | 36.00 | 0.36 | 0.9 |
| 1-3636-561-5248 | 48.00 | 0.48 | 1.2 |

1-3636-561-52XX
Your Length

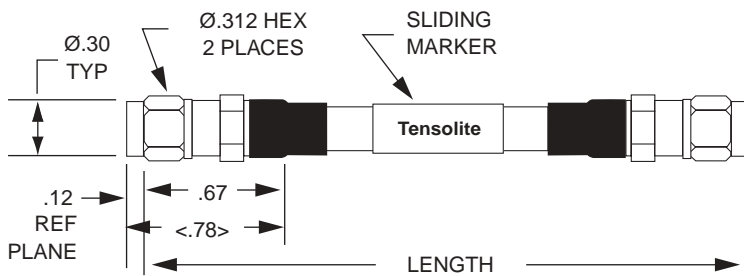
18 GHz SMA Male to SMA Male on 563 Q-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-563-3204 | 4.00 | 0.3 | 0.5 |
| 1-3636-563-3205 | 5.00 | 0.3 | 0.5 |
| 1-3636-563-3206 | 6.00 | 0.25 | 0.6 |
| 1-3636-563-3207 | 7.00 | 0.25 | 0.6 |
| 1-3636-563-3208 | 8.00 | 0.25 | 0.7 |
| 1-3636-563-3210 | 10.00 | 0.25 | 0.8 |
| 1-3636-563-3212 | 12.00 | 0.25 | 0.9 |
| 1-3636-563-3218 | 18.00 | 0.25 | 1.2 |
| 1-3636-563-3224 | 24.00 | 0.25 | 1.6 |
| 1-3636-563-3236 | 36.00 | 0.36 | 2.2 |
| 1-3636-563-3248 | 48.00 | 0.48 | 2.9 |

1-3636-563-32XX
Your Length

SMA Male to SMA Male on 565 Q-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-565-5105 | 5.00 | 0.05 | 0.8 |
| 1-3636-565-5106 | 6.00 | 0.05 | 0.9 |
| 1-3636-565-5107 | 7.00 | 0.10 | 1.0 |
| 1-3636-565-5108 | 8.00 | 0.10 | 1.2 |
| 1-3636-565-5112 | 12.00 | 0.10 | 1.6 |
| 1-3636-565-5118 | 18.00 | 0.15 | 2.4 |
| 1-3636-565-5124 | 24.00 | 0.20 | 3.1 |
| 1-3636-565-5137 | 37.00 | 0.20 | 4.7 |
| 1-3636-565-5148 | 48.00 | 0.25 | 6.0 |

1-3636-565-51XX
Your Length

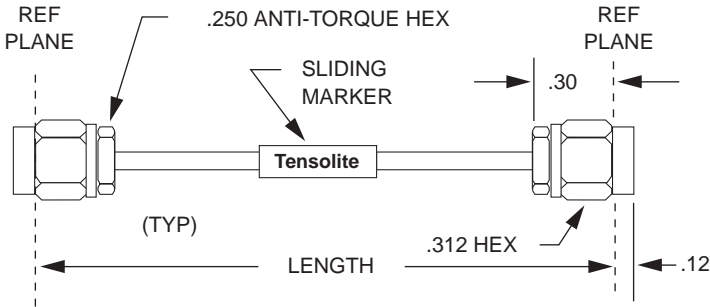
Semi-Flex® Series

SEMI-FLEX® is a unique ALTERNATIVE to the use of Semi-Rigid coax. A tin-filled wire braid outer conductor allows easy flexing and re-bending by hand. A solid copper secondary outer conductor and Semi-Rigid style core ensure electrical performance comparable to Semi-Rigid.

No significant electrical degradation occurs when SEMI-FLEX® is formed! The cable retains its shape, making installations simple.

| Assembly Cable Code | Bulk Cable P/N | OD |
|---------------------|----------------|-------|
| 604 | 7-1114-604-18 | .047" |
| 600 | 7-1114-600-18 | .086" |
| 601 | 7-1114-601-18 | .141" |
| 606 | 7-1114-606-18 | .250" |

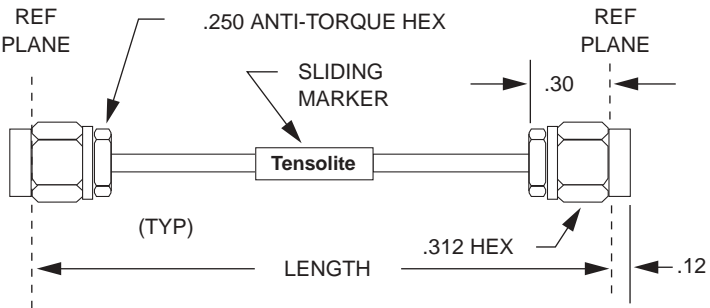
18 GHz SMA Male to SMA Male on 604 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-604-5206 | 6.00 | 0.10 | 0.2 |
| 1-3636-604-5209 | 9.00 | 0.10 | 0.2 |
| 1-3636-604-5212 | 12.00 | 0.15 | 0.3 |
| 1-3636-604-5218 | 18.00 | 0.15 | 0.3 |
| 1-3636-604-5224 | 24.00 | 0.15 | 0.3 |
| 1-3636-604-5236 | 36.00 | 0.20 | 0.4 |
| 1-3636-604-5248 | 48.00 | 0.20 | 0.4 |
| 1-3636-604-5260 | 60.00 | 0.20 | 0.5 |
| 1-3636-604-5272 | 72.00 | 0.20 | 0.5 |

1-3636-604-52XX
Your Length

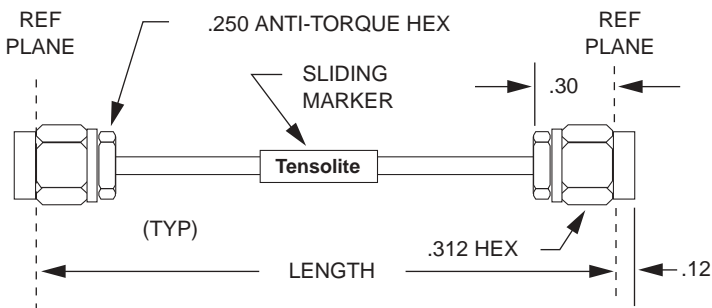
18 GHz SMA Male to SMA Male on 600 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-600-5204 | 4.00 | 0.05 | 0.2 |
| 1-3636-600-5205 | 5.00 | 0.10 | 0.3 |
| 1-3636-600-5206 | 6.00 | 0.10 | 0.3 |
| 1-3636-600-5208 | 8.00 | 0.10 | 0.3 |
| 1-3636-600-5212 | 12.00 | 0.15 | 0.4 |
| 1-3636-600-5218 | 18.00 | 0.15 | 0.5 |
| 1-3636-600-5224 | 24.00 | 0.15 | 0.6 |
| 1-3636-600-5236 | 36.00 | 0.20 | 0.8 |
| 1-3636-600-5248 | 48.00 | 0.25 | 1.0 |

1-3636-600-52XX
Your Length

18 GHz SMA Male to SMA Male on 601 Semi-Flex® Cable

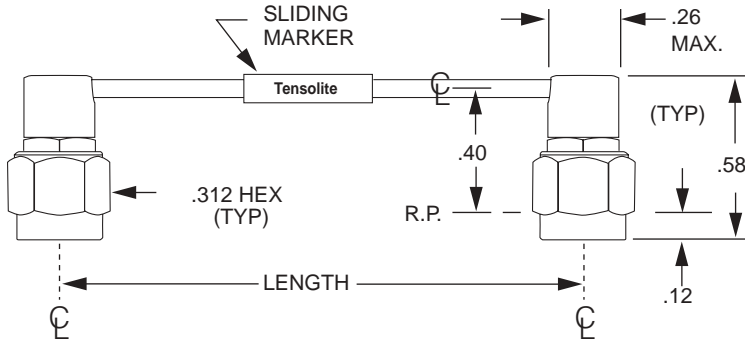


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-601-5204 | 4.00 | 0.05 | 0.3 |
| 1-3636-601-5205 | 5.00 | 0.10 | 0.3 |
| 1-3636-601-5206 | 6.00 | 0.10 | 0.4 |
| 1-3636-601-5208 | 8.00 | 0.10 | 0.4 |
| 1-3636-601-5212 | 12.00 | 0.15 | 0.6 |
| 1-3636-601-5218 | 18.00 | 0.15 | 0.8 |
| 1-3636-601-5224 | 24.00 | 0.15 | 0.9 |
| 1-3636-601-5236 | 36.00 | 0.20 | 1.3 |
| 1-3636-601-5248 | 48.00 | 0.25 | 1.7 |

1-3636-601-52XX
Your Length

Semi-Flex® Series Specifications

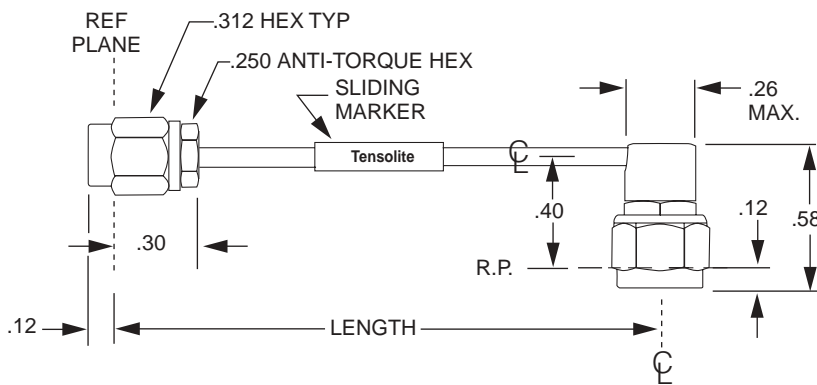
18 GHz SMA Male Right Angle to Right Angle on 600 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3737-600-3204 | 4.00 | 0.05 | 0.3 |
| 1-3737-600-3205 | 5.00 | 0.05 | 0.4 |
| 1-3737-600-3206 | 6.00 | 0.05 | 0.4 |
| 1-3737-600-3208 | 8.00 | 0.10 | 0.4 |
| 1-3737-600-3212 | 12.00 | 0.10 | 0.5 |
| 1-3737-600-3218 | 18.00 | 0.15 | 0.5 |
| 1-3737-600-3224 | 24.00 | 0.15 | 0.6 |
| 1-3737-600-3236 | 36.00 | 0.15 | 0.8 |
| 1-3737-600-3248 | 48.00 | 0.20 | 1.0 |

1-3737-600-52XX
Your Length

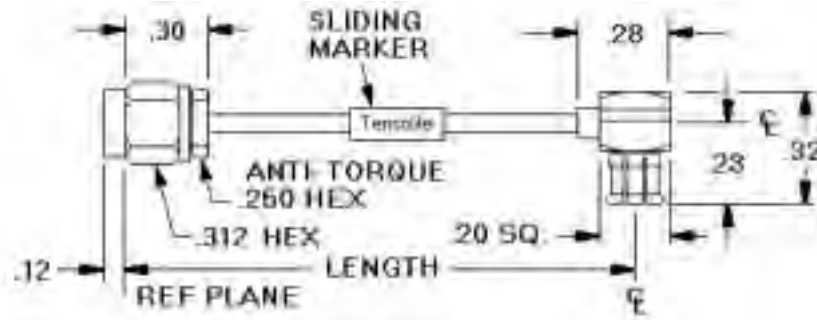
18 GHz SMA Male to SMA Male Right Angle on 600 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3637-600-5204 | 4.00 | 0.05 | 0.2 |
| 1-3637-600-5205 | 5.00 | 0.10 | 0.3 |
| 1-3637-600-5206 | 6.00 | 0.10 | 0.3 |
| 1-3637-600-5208 | 8.00 | 0.10 | 0.3 |
| 1-3637-600-5212 | 12.00 | 0.15 | 0.4 |
| 1-3637-600-5218 | 18.00 | 0.15 | 0.4 |
| 1-3637-600-5224 | 24.00 | 0.15 | 0.5 |
| 1-3637-600-5236 | 36.00 | 0.20 | 0.7 |
| 1-3637-600-5248 | 48.00 | 0.25 | 0.9 |

1-3637-600-52XX
Your Length

6 GHz SMA Male to MCX Male Right Angle on 600 Semi-Flex® Cable

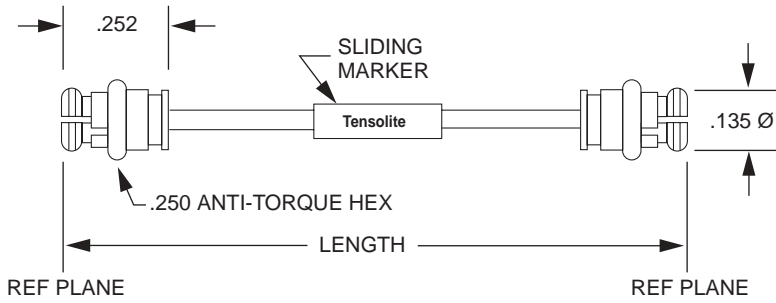


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-36M7-600-5204 | 4.00 | 0.25 | 0.3 |
| 1-36M7-600-5205 | 5.00 | 0.25 | 0.3 |
| 1-36M7-600-5206 | 6.00 | 0.25 | 0.3 |
| 1-36M7-600-5208 | 8.00 | 0.25 | 0.3 |
| 1-36M7-600-5212 | 12.00 | 0.25 | 0.4 |
| 1-36M7-600-5218 | 18.00 | 0.25 | 0.5 |
| 1-36M7-600-5224 | 24.00 | 0.24 | 0.6 |
| 1-36M7-600-5236 | 36.00 | 0.36 | 0.8 |
| 1-36M7-600-5248 | 48.00 | 0.48 | 0.9 |

1-36M7-600-52XX
Your Length

Semi-Flex® Series Specifications

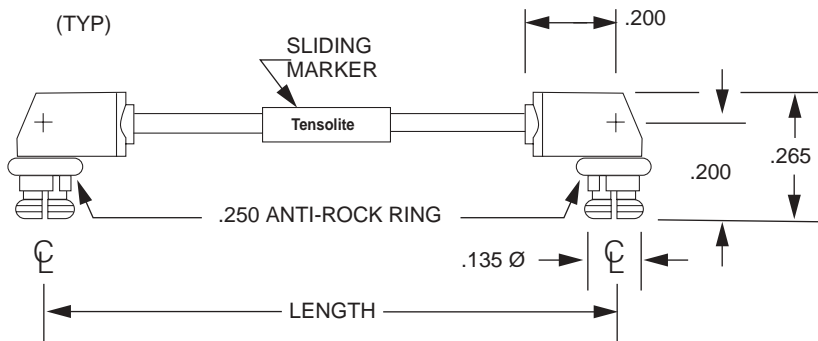
40 GHz SMP Plug to SMP Plug on 600 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-G6G6-600-3404 | 4.00 | 0.05 | 0.2 |
| 1-G6G6-600-3405 | 5.00 | 0.10 | 0.3 |
| 1-G6G6-600-3406 | 6.00 | 0.10 | 0.3 |
| 1-G6G6-600-3408 | 8.00 | 0.10 | 0.3 |
| 1-G6G6-600-3412 | 12.00 | 0.15 | 0.4 |
| 1-G6G6-600-3418 | 18.00 | 0.15 | 0.5 |
| 1-G6G6-600-3424 | 24.00 | 0.15 | 0.6 |
| 1-G6G6-600-3436 | 36.00 | 0.20 | 0.8 |
| 1-G6G6-600-3448 | 48.00 | 0.25 | 1.0 |

1-G6G6-600-34XX
Your Length →

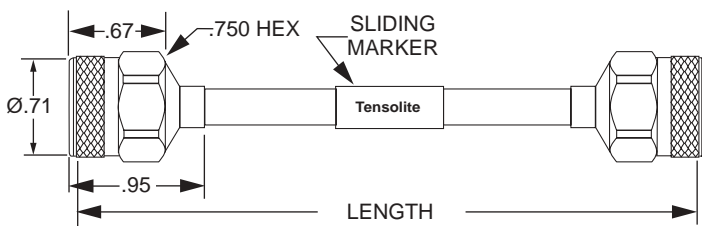
26.5 GHz SMP Right Angle Plug to SMP Right Angle Plug on 600 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-G7G7-600-3304 | 4.00 | 0.05 | 0.2 |
| 1-G7G7-600-3305 | 5.00 | 0.10 | 0.3 |
| 1-G7G7-600-3306 | 6.00 | 0.10 | 0.3 |
| 1-G7G7-600-3308 | 8.00 | 0.10 | 0.3 |
| 1-G7G7-600-3312 | 12.00 | 0.15 | 0.4 |
| 1-G7G7-600-3318 | 18.00 | 0.15 | 0.5 |
| 1-G7G7-600-3324 | 24.00 | 0.15 | 0.6 |
| 1-G7G7-600-3336 | 36.00 | 0.20 | 0.8 |
| 1-G7G7-600-3348 | 48.00 | 0.25 | 1.0 |

1-G7G7-600-33XX
Your Length →

18 GHz Type N Male to Type N Male on 606 Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1818-606-3204 | 4.00 | 0.10 | 2.56 |
| 1-1818-606-3205 | 5.00 | 0.10 | 2.68 |
| 1-1818-606-3206 | 6.00 | 0.10 | 2.80 |
| 1-1818-606-3208 | 8.00 | 0.10 | 3.05 |
| 1-1818-606-3212 | 12.00 | 0.10 | 3.53 |
| 1-1818-606-3218 | 18.00 | 0.15 | 4.26 |
| 1-1818-606-3224 | 24.00 | 0.15 | 4.99 |
| 1-1818-606-3236 | 36.00 | 0.15 | 6.44 |
| 1-1818-606-3248 | 48.00 | 0.20 | 7.90 |

1-1818-606-32XX
Your Length →

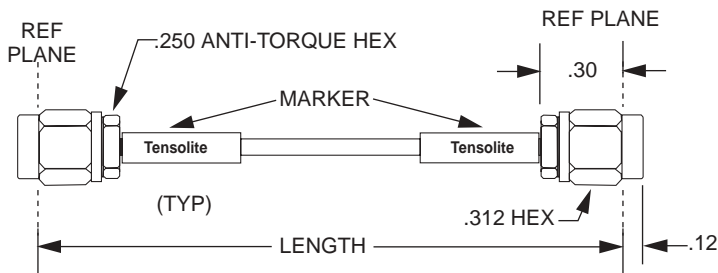
Semi-Flex® Plus Series

Semi-Flex® Plus allows the user to have the advantages of a hand formable cable and a flexible cable all in one. Semi-Flex® Plus enhances Tensolite's Semi-Flex® by using a clear polyurethane jacket over a tin-filled wire braid outer conductor. A solid secondary outer conductor and Semi-Rigid style core ensure electrical performance comparable to Semi-Rigid. If your application calls for High Temperature, use our Semi-Flex® Plus "High Temperature" 650 or 651 Series (-50 to 200° C) by adding our FEP jacket.

Assembly Cable Code OD

| | |
|-----|-------|
| 620 | .112" |
| 621 | .180" |
| 650 | .100" |

18 GHz SMA Male to SMA Male on 620 Jacketed Semi-Flex® Cable

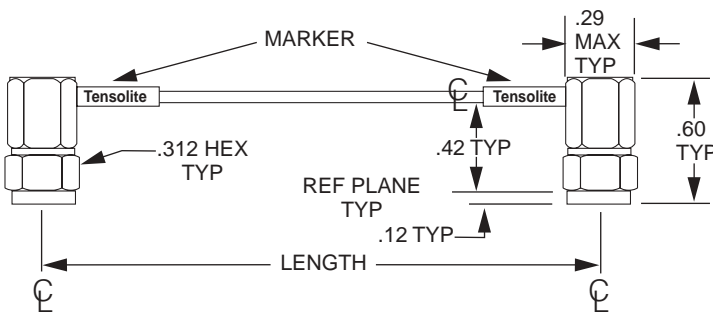


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-620-5204 | 4.00 | 0.05 | 0.3 |
| 1-3636-620-5205 | 5.00 | 0.05 | 0.3 |
| 1-3636-620-5206 | 6.00 | 0.10 | 0.3 |
| 1-3636-620-5208 | 8.00 | 0.10 | 0.3 |
| 1-3636-620-5212 | 12.00 | 0.15 | 0.4 |
| 1-3636-620-5218 | 18.00 | 0.15 | 0.5 |
| 1-3636-620-5224 | 24.00 | 0.15 | 0.7 |
| 1-3636-620-5236 | 36.00 | 0.15 | 0.9 |
| 1-3636-620-5248 | 48.00 | 0.20 | 1.1 |

1-3636-620-52XX

Your Length

18 GHz SMA Male Right Angles on 620 Semi-Flex® Plus Cable

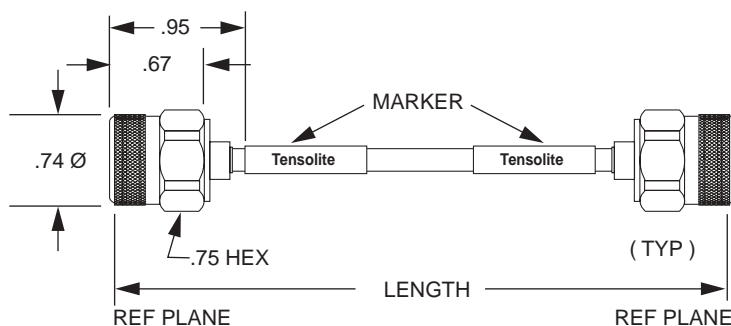


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3737-620-3204 | 4.00 | 0.05 | 0.4 |
| 1-3737-620-3205 | 5.00 | 0.05 | 0.4 |
| 1-3737-620-3206 | 6.00 | 0.10 | 0.4 |
| 1-3737-620-3208 | 8.00 | 0.10 | 0.4 |
| 1-3737-620-3212 | 12.00 | 0.15 | 0.5 |
| 1-3737-620-3218 | 18.00 | 0.15 | 0.6 |
| 1-3737-620-3224 | 24.00 | 0.15 | 0.8 |
| 1-3737-620-3236 | 36.00 | 0.15 | 1.0 |
| 1-3737-620-3248 | 48.00 | 0.20 | 1.2 |

1-3737-620-32XX

Your Length

18 GHz type N Male to Type N Male on 621 Jacketed Semi-Flex® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1818-621-3204 | 4.00 | 0.05 | 2.2 |
| 1-1818-621-3205 | 5.00 | 0.05 | 2.2 |
| 1-1818-621-3206 | 6.00 | 0.05 | 2.3 |
| 1-1818-621-3208 | 8.00 | 0.10 | 2.4 |
| 1-1818-621-3212 | 12.00 | 0.10 | 2.5 |
| 1-1818-621-3218 | 18.00 | 0.15 | 2.7 |
| 1-1818-621-3224 | 24.00 | 0.15 | 2.9 |
| 1-1818-621-3236 | 36.00 | 0.15 | 3.3 |
| 1-1818-621-3248 | 48.00 | 0.20 | 3.7 |

1-1818-621-32XX

Your Length

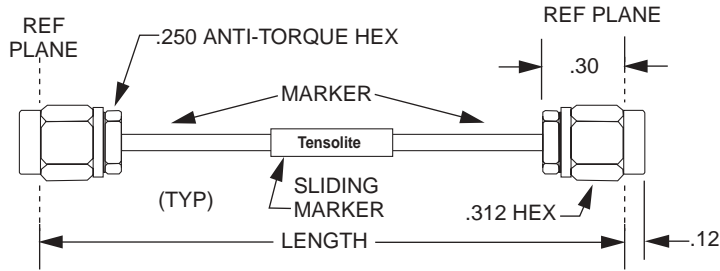
Semi-Flex® II Series Specifications

Semi-Flex® II is a thin walled, soft aluminum jacketed Semi-Rigid cable. The more pliable outer conductor allows easier forming than copper jacketed cable while retaining much of the same electrical performance.

Semi-Flex® II, along with original, high performance Semi-Flex®, rounds out the designer's options for alternatives to traditional Semi-Rigid cable assemblies.

| Assembly Cable Code | OD |
|---------------------|-------|
| 617 | .086" |
| 618 | .141" |

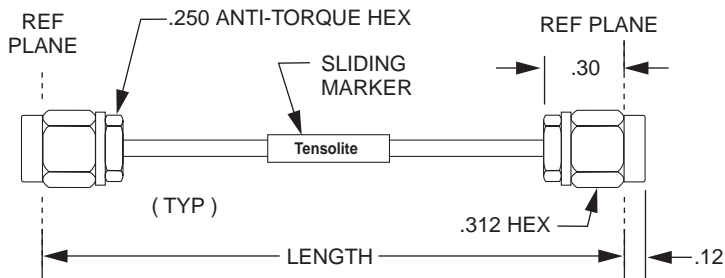
18 GHz SMA Male to SMA Male on 617 Semi-Flex® II Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-617-5204 | 4.00 | 0.05 | 0.2 |
| 1-3636-617-5205 | 5.00 | 0.10 | 0.2 |
| 1-3636-617-5206 | 6.00 | 0.10 | 0.2 |
| 1-3636-617-5208 | 8.00 | 0.10 | 0.3 |
| 1-3636-617-5212 | 12.00 | 0.15 | 0.3 |
| 1-3636-617-5218 | 18.00 | 0.15 | 0.4 |
| 1-3636-617-5224 | 24.00 | 0.15 | 0.4 |
| 1-3636-617-5236 | 36.00 | 0.20 | 0.6 |
| 1-3636-617-5248 | 48.00 | 0.25 | 0.7 |

1-3636-617-52XX
Your Length

18 GHz SMA Male to SMA Male on 618 Semi-Flex® II Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-618-5204 | 4.00 | 0.05 | 1.1 |
| 1-3636-618-5205 | 5.00 | 0.10 | 1.3 |
| 1-3636-618-5206 | 6.00 | 0.10 | 1.5 |
| 1-3636-618-5208 | 8.00 | 0.10 | 2.0 |
| 1-3636-618-5212 | 12.00 | 0.15 | 2.9 |
| 1-3636-618-5218 | 18.00 | 0.15 | 4.3 |
| 1-3636-618-5224 | 24.00 | 0.15 | 5.7 |
| 1-3636-618-5236 | 36.00 | 0.20 | 8.4 |
| 1-3636-618-5248 | 48.00 | 0.25 | 11.1 |

1-3636-618-52XX
Your Length

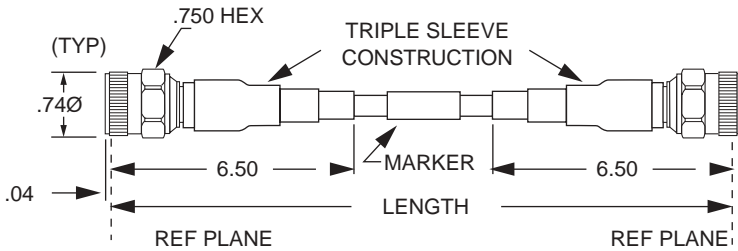
The Workhorse® Family is the result of Tensolite's years of assembly experience coupled with the demand for lower cost products. The Workhorse® assembly uses the time proven "504" cable, the Workhorse® Plus utilizes the "524" cable that provides better flexibility, and the Low Loss Workhorse® uses Tensolite's 301 Low Loss cable. All Workhorse® assemblies utilize our most rugged stainless steel connectors and a new extremely durable, yet cost effective attachment method.

18 and 26.5 GHz Cable Assemblies

Features:

- Extremely durable and long lasting connector attachment method
- Excellent high frequency response
- Phase stable with flexure
- Standard lengths in stock

Type N Male to Type N Male on Workhorse® Cable

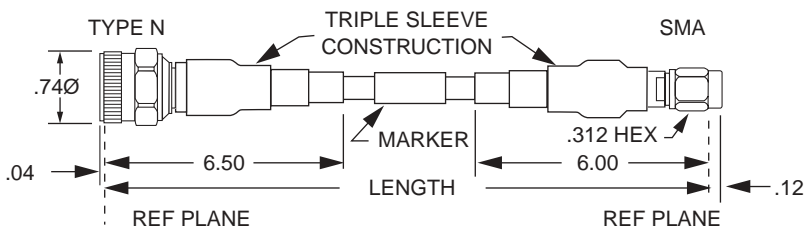


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHU18-1818-024 | 24.00 | 0.25 | 5.3 |
| WHU18-1818-030 | 30.00 | 0.30 | 5.6 |
| WHU18-1818-036 | 36.00 | 0.36 | 5.9 |
| WHU18-1818-042 | 42.00 | 0.42 | 6.3 |
| WHU18-1818-048 | 48.00 | 0.48 | 6.6 |
| WHU18-1818-072 | 72.00 | 0.72 | 8.0 |
| WHU18-1818-120 | 120.00 | 1.20 | 10.8 |

WHU18-1818-XXX

Your Length

Type N to SMA Male on Workhorse® Cable

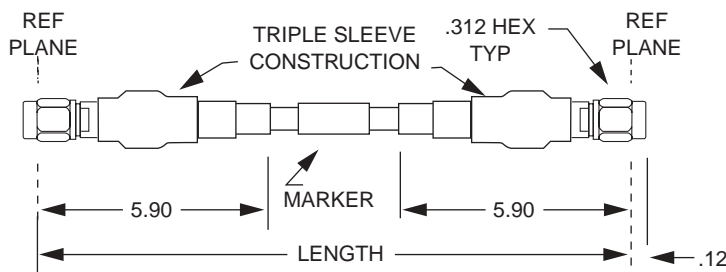


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHU18-1836-024 | 24.00 | 0.25 | 4.8 |
| WHU18-1836-030 | 30.00 | 0.30 | 5.1 |
| WHU18-1836-036 | 36.00 | 0.36 | 5.4 |
| WHU18-1836-042 | 42.00 | 0.42 | 5.8 |
| WHU18-1836-048 | 48.00 | 0.48 | 6.1 |
| WHU18-1836-072 | 72.00 | 0.72 | 7.5 |
| WHU18-1836-120 | 120.00 | 1.20 | 10.3 |

WHU18-1836-XXX

Your Length

SMA Males on Workhorse® Cable

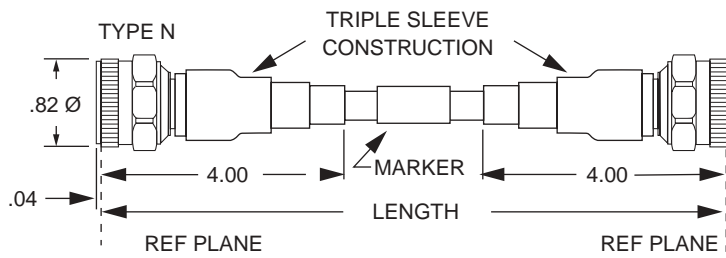


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHU18-3636-024 | 24.00 | 0.25 | 3.7 |
| WHU18-3636-030 | 30.00 | 0.30 | 4.0 |
| WHU18-3636-036 | 36.00 | 0.36 | 4.3 |
| WHU18-3636-042 | 42.00 | 0.42 | 4.7 |
| WHU18-3636-048 | 48.00 | 0.48 | 5.0 |
| WHU18-3636-072 | 72.00 | 0.72 | 6.4 |
| WHU18-3636-120 | 120.00 | 1.20 | 9.2 |

WHU18-3636-XXX

Your Length

Type N Male to N Male on Workhorse® Plus Cable

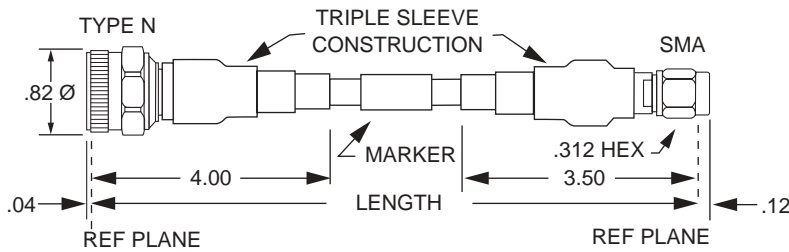


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1818-524-WH 24 | 24.00 | 0.25 | 5.4 |
| 1-1818-524-WH 30 | 30.00 | 0.30 | 5.8 |
| 1-1818-524-WH 36 | 36.00 | 0.36 | 6.1 |
| 1-1818-524-WH 39 | 39.4 | 0.39 | 6.3 |
| 1-1818-524-WH 48 | 48.00 | 0.48 | 6.9 |
| 1-1818-524-WH 72 | 72.00 | 0.72 | 8.4 |
| 2-1818-524-WH 10 | 120.00 | 1.20 | 11.4 |

1-1818-524-WH XX

Your Length →

Type N Male to Hybrid SMA Male on Workhorse® Plus Cable

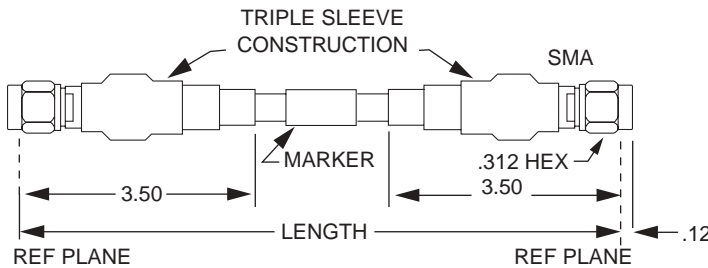


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1836-524-WH 24 | 24.00 | 0.25 | 5.4 |
| 1-1836-524-WH 30 | 30.00 | 0.30 | 5.8 |
| 1-1836-524-WH 36 | 36.00 | 0.36 | 6.1 |
| 1-1836-524-WH 42 | 39.00 | 0.39 | 6.3 |
| 1-1836-524-WH 48 | 48.00 | 0.48 | 6.9 |
| 1-1836-524-WH 72 | 72.00 | 0.72 | 8.4 |
| 2-1836-524-WH 10 | 120.00 | 1.20 | 11.4 |

1-1836-524-WH XX

Your Length →

Hybrid SMA Male to SMA Male on Workhorse® Plus Cable



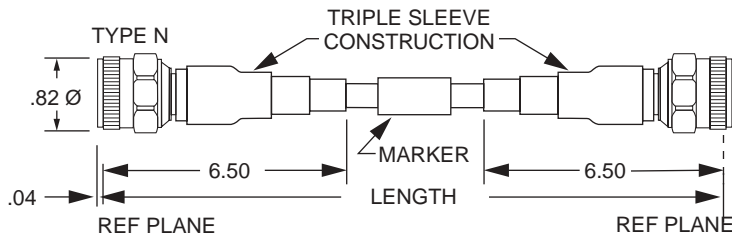
| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-524-WH 24 | 24.00 | 0.25 | 5.4 |
| 1-3636-524-WH 30 | 30.00 | 0.25 | 5.8 |
| 1-3636-524-WH 36 | 36.00 | 0.36 | 6.1 |
| 1-3636-524-WH 42 | 42.00 | 0.42 | 6.5 |
| 1-3636-524-WH 48 | 48.00 | 0.48 | 6.9 |
| 1-3636-524-WH 72 | 72.00 | 0.72 | 8.4 |
| 2-3636-524-WH 10 | 120.00 | 1.20 | 11.4 |

1-3636-524-WH XX

Your Length →

Low Loss Workhorse®

Type N Males on Low Loss Workhorse® Cable

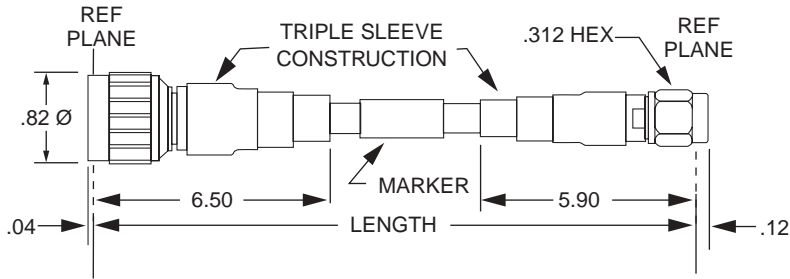


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WLU18-1818-024 | 24.00 | 0.25 | 4.6 |
| WLU18-1818-030 | 30.00 | 0.30 | 4.9 |
| WLU18-1818-036 | 36.00 | 0.36 | 5.2 |
| WLU18-1818-042 | 42.00 | 0.42 | 5.4 |
| WLU18-1818-048 | 48.00 | 0.48 | 5.7 |
| WLU18-1818-072 | 72.00 | 0.72 | 6.8 |
| WLU18-1818-120 | 120.00 | 1.20 | 9.1 |

WLU18-1818-XXX

Your Length

Type N and SMA Males on Low Loss Workhorse® Cable

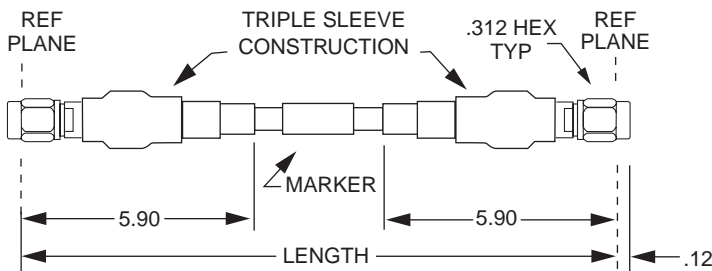


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WLU18-1836-024 | 24.00 | 0.25 | 4.5 |
| WLU18-1836-030 | 30.00 | 0.30 | 4.8 |
| WLU18-1836-036 | 36.00 | 0.36 | 5.1 |
| WLU18-1836-042 | 42.00 | 0.42 | 5.3 |
| WLU18-1836-048 | 48.00 | 0.48 | 5.6 |
| WLU18-1836-072 | 72.00 | 0.72 | 6.7 |
| WLU18-1836-120 | 120.00 | 1.20 | 9.0 |

WLU18-1836-XXX

Your Length

SMA Males on Low Loss Workhorse® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WLU18-3636-024 | 24.00 | 0.25 | 3.4 |
| WLU18-3636-030 | 30.00 | 0.30 | 3.7 |
| WLU18-3636-036 | 36.00 | 0.36 | 4.0 |
| WLU18-3636-042 | 42.00 | 0.42 | 4.2 |
| WLU18-3636-048 | 48.00 | 0.48 | 4.5 |
| WLU18-3636-072 | 72.00 | 0.72 | 5.6 |
| WLU18-3636-120 | 120.00 | 1.20 | 7.9 |

WLU18-3636-XXX

Your Length

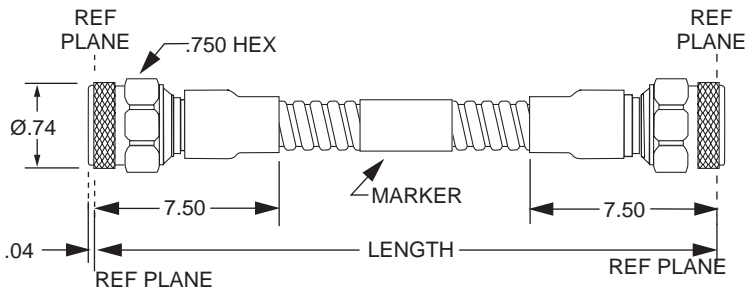
The Armored Workhorse®

The Armored Workhorse® features a stainless steel, crush-proof jacket that protects the Tensolite "504" cable from everyday wear and tear associated with a lab environment. Combined with our rugged stainless steel connector series, this provides an extremely durable test cable for high temperature testing and very high volume production lines.

Features:

- "Armored" for even greater protection
- Excellent high frequency response
- Phase stable with flexure
- Standard lengths in stock

Type N Males on Armored Workhorse® Cable

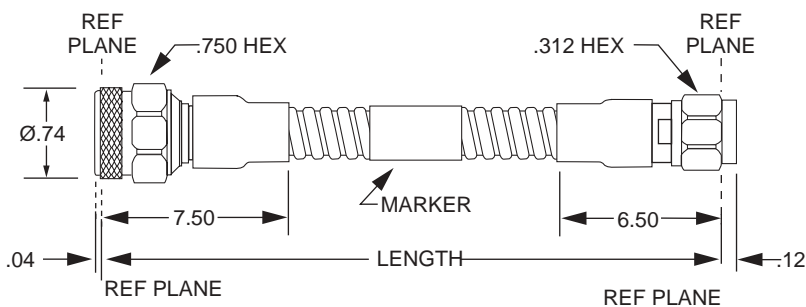


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHA18-1818-024 | 24.00 | 0.25 | 7.1 |
| WHA18-1818-030 | 30.00 | 0.30 | 7.8 |
| WHA18-1818-036 | 36.00 | 0.36 | 8.6 |
| WHA18-1818-042 | 42.00 | 0.42 | 9.4 |
| WHA18-1818-048 | 48.00 | 0.48 | 10.2 |
| WHA18-1818-072 | 72.00 | 0.72 | 13.4 |
| WHA18-1818-120 | 120.00 | 1.20 | 19.8 |

WHA18-1818-XXX

Your Length →

Type N Male to SMA Male on Armored Workhorse® Cable

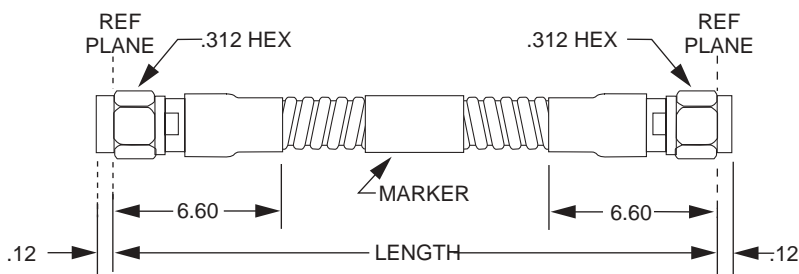


| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHA18-1836-024 | 24.00 | 0.25 | 6.6 |
| WHA18-1836-030 | 30.00 | 0.30 | 7.3 |
| WHA18-1836-036 | 36.00 | 0.36 | 8.1 |
| WHA18-1836-042 | 42.00 | 0.42 | 8.9 |
| WHA18-1836-048 | 48.00 | 0.48 | 9.7 |
| WHA18-1836-072 | 72.00 | 0.72 | 12.9 |
| WHA18-1836-120 | 120.00 | 1.20 | 19.3 |

WHA1818-1836-XXX

Your Length →

SMA Males on Armored Workhorse® Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| WHA18-3636-024 | 24.00 | 0.25 | 6.2 |
| WHA18-3636-030 | 30.00 | 0.30 | 6.9 |
| WHA18-3636-036 | 36.00 | 0.36 | 7.7 |
| WHA18-3636-042 | 42.00 | 0.42 | 8.5 |
| WHA18-3636-048 | 48.00 | 0.48 | 9.3 |
| WHA18-3636-072 | 72.00 | 0.72 | 12.5 |
| WHA18-3636-120 | 120.00 | 1.20 | 18.9 |

WHA18-3636-XXX

Your Length →

Low Cost, Low Loss 18GHz 301 Cable Assemblies

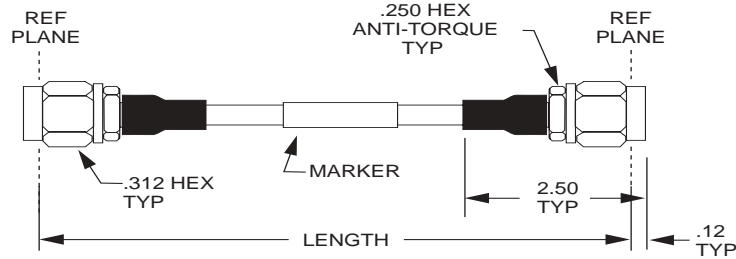
Tensolite's newly developed LOW COST, LOW LOSS "301" cable ends the 3-way compromise users face when defining insertion loss for higher frequency, flexible cable assemblies. Historically, low loss meant high price or reduced flexibility. "301" cable is a microporous PTFE design in .200" diameter that offers all three advantages: low loss, low price and excellent flexibility.

"301" LOW COST, LOW LOSS assemblies help the designer achieve system performance goals while retaining the flexibility of braided cables. Alternatively, "301" cables may be used to replace .141" diameter Semi-Rigid or .250" diameter corrugated copper cables.

Features:

- Low insertion loss
- Microporous PTFE dielectric
- Increased flexibility
- Standard lengths in stock

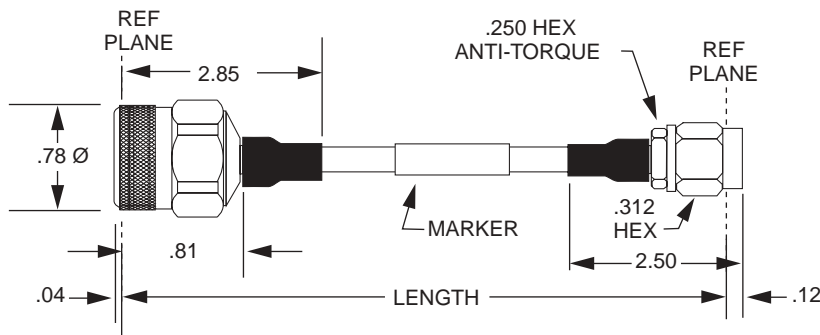
SMA Male to SMA Male on 301 Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3636-301-3206 | 6.00 | 0.25 | 1.5 |
| 1-3636-301-3212 | 12.00 | 0.25 | 1.8 |
| 1-3636-301-3218 | 18.00 | 0.25 | 2.2 |
| 1-3636-301-3224 | 24.00 | 0.25 | 2.5 |
| 1-3636-301-3248 | 48.00 | 0.48 | 3.8 |

1-3636-301-32XX
Your Length

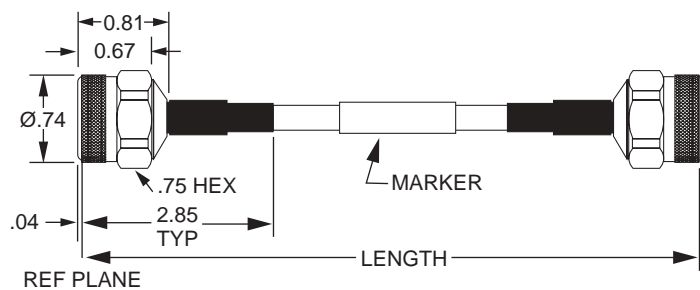
Type N Male to SMA Male on 301 Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1836-301-3206 | 6.00 | 0.25 | 1.5 |
| 1-1836-301-3212 | 12.00 | 0.25 | 1.8 |
| 1-1836-301-3218 | 18.00 | 0.25 | 2.2 |
| 1-1836-301-3224 | 24.00 | 0.25 | 2.5 |
| 1-1836-301-3236 | 36.00 | 0.36 | 3.1 |
| 1-1836-301-3248 | 48.00 | 0.48 | 3.8 |

1-1836-301-32XX
Your Length

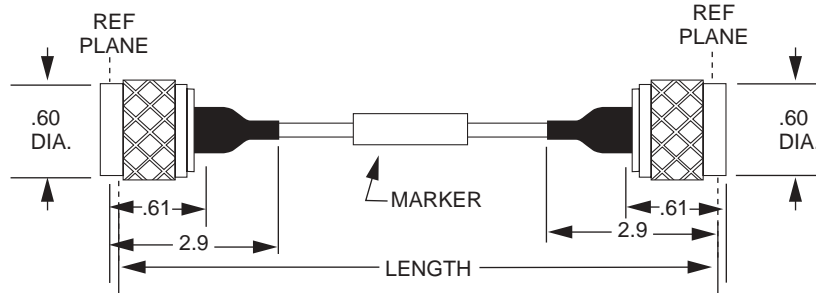
Type N Male to Type N Male on 301 Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-1818-301-3206 | 6.00 | 0.25 | 2.4 |
| 1-1818-301-3212 | 12.00 | 0.25 | 2.8 |
| 1-1818-301-3218 | 18.00 | 0.25 | 3.1 |
| 1-1818-301-3224 | 24.00 | 0.25 | 3.5 |
| 1-1818-301-3236 | 36.00 | 0.36 | 4.2 |
| 1-1818-301-3248 | 48.00 | 0.48 | 4.9 |

1-1818-301-32XX
Your Length

TNC Male to TNC Male on 301 Cable



| Tensolite Part Number | Length Inches | + - Inches | Weight Ounces |
|-----------------------|---------------|------------|---------------|
| 1-3030-301-3206 | 6.00 | 0.05 | 2.4 |
| 1-3030-301-3212 | 12.00 | 0.10 | 2.7 |
| 1-3030-301-3218 | 18.00 | 0.15 | 3.0 |
| 1-3030-301-3224 | 24.00 | 0.15 | 3.4 |
| 1-3030-301-3236 | 36.00 | 0.15 | 4.0 |
| 1-3030-301-3248 | 48.00 | 0.20 | 4.6 |

1-3030-301-32XX
Your Length

Workhorse® 40 Armored Cable

The Tensolite "Workhorse 40" Armored Cable Assembly is designed to perform in high volume, strenuous test environments. Its rugged design provides protection from wear and tear reducing the need for costly replacement test cables.

Tensolite's years of assembly experience combined with a demand for lower cost production solutions resulted in the development of the "Workhorse 40".

The "Workhorse 40" utilizes a new Tensolite cable encased in a stainless steel, crush resistant armor. The cable provides low loss and low VSWR, while maintaining phase stability.

Tensolite designed "SMK"(2.92) tough stainless steel connectors combined with the cable deliver more tests with maximum accuracy and repeatability.

The "Workhorse 40" Armored assembly will stand the test of time!

Typical VSWR 1.35:1 @ 40 GHz
 Typical Loss 2dB per foot,
 Assembly Temperature Rating -
 50°C to +105°C

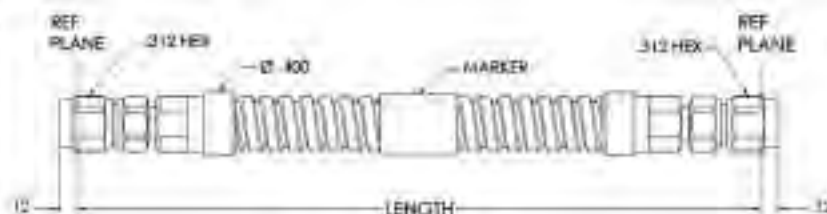
Intended Applications:

- High Volume Test Lab
- Vector Network Analyzer
- Calibration
- Antenna Range
- Custom Applications

2.92MM males on 40GHz Workhorse® Cable

| ELECTRICAL SPECIFICATIONS | |
|---------------------------------|------------------|
| IMPEDANCE NOMINAL | 50 OHMS |
| CAPACITANCE NOMINAL | 28.0 pF/FOOT |
| VELOCITY OF PROPAGATION NOMINAL | 70.0 % |
| RELATIVE SHIELDING | >100.0 dB/MIN |
| INSULATION RESISTANCE | 1000 MEGOHMS MIN |
| DIELECTRIC WITHSTANDING VOLTAGE | 1000 V RMS MAX |
| ELECTRICAL DELAY NOMINAL | 3.66 ns/FOOT |
| ELECTRICAL DELAY TOLERANCE | ±0.05 ns/FOOT |
| F IN (GHz) | 7 8 10 15 20 40 |
| MAX CW WATTS | 54 30 20 15 12 8 |

| MECHANICAL SPECIFICATIONS | |
|---------------------------|-----------------------|
| CABLE MAX. DIAMETER | 0.364 INCHES |
| MINIMUM BEND RADIUS | 3 INCHES |
| CONNECTOR RETENTION | 80 POUNDS MIN |
| TEMPERATURE RANGE | -54 to +105 DEGREES C |
| MATING TORQUE | 7.70 INCH POUNDS |
| CONNECTOR INTERFACE | SEE STD-20 |



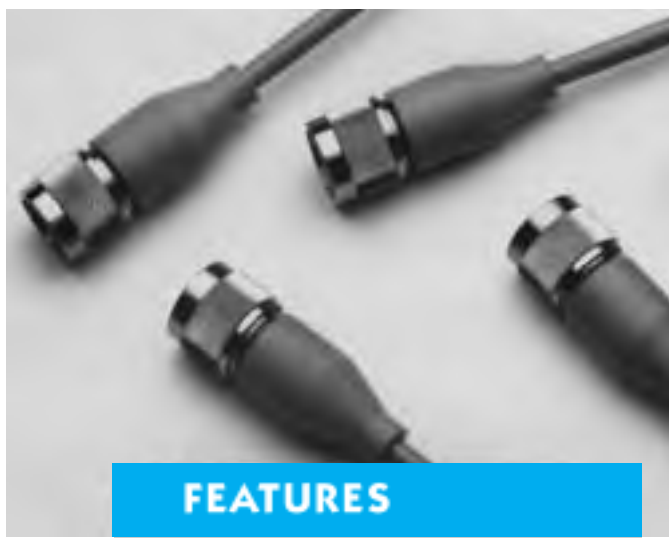
| MATERIALS AND FINISHES | | |
|------------------------|--------------------------------------|--------------------------|
| DESCRIPTION | MATERIAL | FINISH OR COLOR |
| ARMOR | STAINLESS STEEL STRIP | NONE |
| CONTACTS | ASTM-B199 316L C113 | ASTM-B-494 (BOLT PLATED) |
| BEAD | NONE | NONE |
| BODY CABLE ENTRY | ASTM-A-302 304 STAINLESS STEEL | ASTM-A-987 PASSIVATED |
| BODY | ASTM-A-302 304 STAINLESS STEEL | ASTM-A-987 PASSIVATED |
| NUT | ASTM-A-302 304 STAINLESS STEEL | ASTM-A-987 PASSIVATED |
| RETAINING RING | ASTM-B199 316L C113 | NONE |
| AVAILABLE GASKET | CEP-705 SILICONE RUBBER | RED |
| SOLVENTS | NO OZONE DEPLETING SOLVENTS ARE USED | |

| PART NUMBER | LENGTH (FEET) | LENGTH (INCHES) | WEIGHT (OUNCES) | MAXIMUM VSWR (1 AT FREQUENCY (IN GHz)) | | | | | | | | MAXIMUM INSERTION LOSS (dB AT FREQ. (IN GHz)) | | | | | | | | LENGTH (CM) |
|-----------------|---------------|-----------------|-----------------|--|--------|---------|----------|----------|----------|---------|--------|---|----------|----------|----------|-------|-------|--|--|-------------|
| | | | | UP TO 2 | 2 TO 8 | 8 TO 12 | 12 TO 18 | 18 TO 28 | 28 TO 40 | UP TO 2 | 2 TO 8 | 8 TO 12 | 12 TO 18 | 18 TO 28 | 28 TO 40 | | | | | |
| WHA40-KBK5-0 24 | S | 24.0 | 0.25 | 4.5 | 1.08 | 1.12 | 1.20 | 1.25 | 1.32 | 1.35 | 0.76 | 1.35 | 2.01 | 2.57 | 3.22 | 4.30 | 61.0 | | | |
| WHA40-KBK5-0 30 | | 30.0 | 0.30 | 4.6 | 1.08 | 1.12 | 1.20 | 1.25 | 1.32 | 1.35 | 0.91 | 1.65 | 2.45 | 3.14 | 3.94 | 5.33 | 76.2 | | | |
| WHA40-KBK5-0 36 | S | 36.0 | 0.36 | 4.8 | 1.08 | 1.12 | 1.20 | 1.25 | 1.32 | 1.35 | 1.07 | 1.95 | 2.90 | 3.71 | 4.65 | 6.28 | 91.4 | | | |
| WHA40-KBK5-0 42 | | 42.0 | 0.42 | 4.9 | 1.08 | 1.12 | 1.20 | 1.25 | 1.32 | 1.35 | 1.23 | 2.25 | 3.35 | 4.28 | 5.37 | 7.22 | 106.7 | | | |
| WHA40-KBK5-0 48 | S | 48.0 | 0.48 | 5.1 | 1.08 | 1.12 | 1.20 | 1.25 | 1.32 | 1.35 | 1.39 | 2.55 | 3.79 | 4.68 | 6.00 | 8.10 | 121.9 | | | |
| WHA40-KBK5-0 54 | | 54.0 | 0.54 | 5.2 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 1.60 | 2.84 | 4.24 | 5.42 | 6.80 | 9.11 | 137.2 | | | |
| WHA40-KBK5-0 60 | | 60.0 | 0.60 | 5.4 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 1.72 | 3.14 | 4.69 | 5.99 | 7.52 | 10.05 | 152.4 | | | |
| WHA40-KBK5-0 66 | | 66.0 | 0.66 | 5.5 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 1.88 | 3.44 | 5.13 | 6.56 | 8.23 | 10.99 | 167.6 | | | |
| WHA40-KBK5-0 72 | | 72.0 | 0.72 | 5.7 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 2.04 | 3.74 | 5.56 | 7.13 | 9.05 | 11.94 | 182.9 | | | |
| WHA40-KBK5-0 78 | | 78.0 | 0.78 | 5.9 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 2.20 | 4.04 | 6.03 | 7.70 | 9.87 | 12.86 | 198.1 | | | |
| WHA40-KBK5-0 84 | | 84.0 | 0.84 | 6.0 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 2.36 | 4.33 | 6.47 | 8.27 | 10.39 | 13.82 | 213.4 | | | |
| WHA40-KBK5-0 90 | | 90.0 | 0.90 | 6.2 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 2.53 | 4.63 | 6.92 | 8.84 | 11.10 | 14.77 | 228.6 | | | |
| WHA40-KBK5-0 96 | | 96.0 | 0.96 | 6.3 | 1.12 | 1.15 | 1.23 | 1.28 | 1.33 | 1.38 | 2.68 | 4.93 | 7.36 | 9.41 | 11.81 | 15.71 | 243.8 | | | |
| WHA40-KBK5-1 20 | | 120.0 | 1.20 | 6.9 | 1.13 | 1.18 | 1.25 | 1.31 | 1.36 | 1.41 | 3.33 | 6.12 | 9.15 | 11.69 | 14.69 | 19.48 | 304.8 | | | |

S = STANDARD ITEM. MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING MEASURING SYSTEM UNCERTAINTY.
 NOTE: PRODUCT SPECIFICATIONS ARE VERIFIED AT 75 DEG F, SEA LEVEL AND 50% RELATIVE HUMIDITY.
 PRODUCT SPECIFICATIONS APPLY AT 3 TO 95% (NON-CONDENSING) RELATIVE HUMIDITY. CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.
 WORKHORSE IS A REGISTERED TRADEMARK OF TENSOLITE CO.
 VISIT OUR WEB SITE AT <http://www.tensolite.com>

TSI818 and TS7878 Series

Test Equipment Replacement Cables



FEATURES

DESCRIPTION

The TS series of flexible cable assemblies is equivalent to the cables that Tensolite supplies to the test and measurement industry.

They offer the same reliable construction and repeatable performance as the original test cables. The TS series is built and tested under rigid quality controlled conditions to meet testing standards.

Cables may be purchased in sets or individually. Phase matching is maintained because all cables are matched to a laboratory standard in accordance with the OEM specification.

- DC to 6.0 GHz
6 to 18.0 GHz
- OEM design equivalent
- Phase matched to a laboratory standard
- Available as sets or individually
- 24-hour delivery
- May be used with other manufacturers test equipment

Tensolite Cable Assembly Technical Data

ELECTRICAL SPECIFICATIONS

| | | |
|---|--------|--------------|
| IMPEDANCE, NOMINAL: | 50 | OHMS |
| CAPACITANCE NOMINAL: | 29.4 | pf/FOOT |
| VELOCITY OF PROPAGATION, NOMINAL: | 70.7 | % |
| RELATIVE SHIELDING PARALLEL TOUCHING 24 IN: | -100.0 | dB MIN. |
| INSULATION RESISTANCE: | 1000 | MEGOHMS MIN. |
| DIELECTRIC WITHSTANDING VOLTAGE: | 1000 | VRMS MIN. |
| ELECTRICAL DELAY NOMINAL: | 1.44 | ns /FOOT |
| ELECTRICAL DELAY NOMINAL: | 120 | ps /INCH |
| PULSE RF POWER: | 1250 | WATTS MAX. |

(INTO A 50 OHM SYSTEM, WITH DUTY CYCLE LESS THAN CW RATING)

| | | | | | | |
|----------------------|------|------|------|-------|------|------|
| F (IN GHz)→ | 1 | 2 | 4 | 6 | 12 | 18 |
| MAX. CW WATTS → | 50 | 35 | 22 | 17 | 6 | 4 |
| PHASE STABILITY DEG. | 0.3 | 0.6 | 1.2 | 1.8 | 3.6 | 5.4 |
| LOSS STABILITY dB→ | 0.01 | 0.01 | 0.01 | 0.015 | 0.03 | 0.05 |

CABLE FORMED AND STRAIGHTENED 90 DEGREES ON A 4" RADIUS

Cables are manufactured as matched sets or matched to laboratory standards.

Cables maintain network analyzer compatible characteristics during product life

when formed up to 180 degrees at a 4 inch (2.5 inch for TS1818-07) or greater radius.

MECHANICAL SPECIFICATIONS:

| | | |
|----------------------------|----------------|----------------|
| CABLE MAX. DIAMETER: | 0.220 | INCHES |
| MIN. ONE TIME BEND RADIUS: | 1.50 | INCHES |
| FLEXED BEND RADIUS: | 4.00 | INCHES |
| CONNECTOR RETENTION: | 100 | POUNDS MIN. |
| TEMPERATURE RANGE: | -13 TO +33 | DEGREES C |
| MATING TORQUE: | 7-10 | INCH POUNDS |
| CONNECTOR INTERFACES: | MIL-STD-348(N) | IEEE 287 (7MM) |

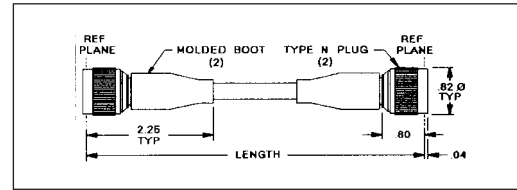
MATERIALS AND FINISHES

| DESCRIPTION | MATERIAL | FINISH OR COLOR |
|---------------------|--------------------------------|-------------------------|
| CABLE JACKET: | PVC | GRAY |
| MARKING: | - | BLACK |
| BOOTS: | RUBBER COMPOUND | GRAY |
| SOLDER: | QQ-S-571 | NONE |
| FLUX: | MIL-F-14256, RMA | NONE |
| CONTACTS: | ASTM B196 BeCu | MIL-G-45204 GOLD PLATED |
| N INSULATORS: | ASTM D1457 PTFE | NONE |
| 7 MM INSULATORS | PTFE COMPOSITE | NONE |
| N CONNECTOR BODY | ASTM A 582 303 STAINLESS STEEL | QQ-P-35 PASSIVATED |
| 7 MM CONNECTOR BODY | ASTM B196 BeCu | MIL-G-45204 GOLD PLATED |
| NUTS: | ASTM A 582 303 STAINLESS STEEL | QQ-P-35 PASSIVATED |
| AVAILABLE GASKET: | ZZ-R-765 SILICON RUBBER | RED |

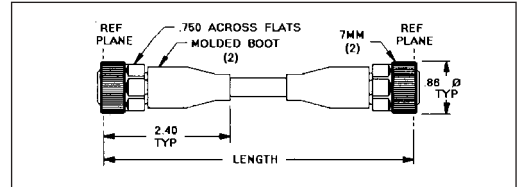
THIS TYPE N CONNECTOR DOES NOT HAVE A WEATHER SEALING GASKET.
A USER INSTALLED TYPE N GASKET IS AVAILABLE.
ORDER GASKET, PART NUMBER 5-1368-100-17.

SOLVENTS: NO OZONE DEPLETING MATERIALS USED

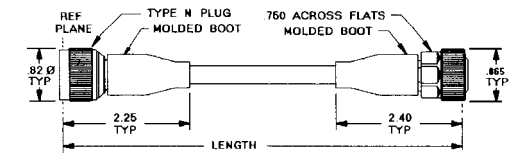
TS SERIES CABLE ASSEMBLIES



TS1818 CONFIGURATION



TS7878 CONFIGURATION



TS1878 CONFIGURATION

OTHER AVAILABLE CONFIGURATIONS:

| CONN. 1 | CONN. 2 | LENGTH | PART NUMBER | PRODUCT SPECIFICATIONS |
|---------|---------|--------|-------------|------------------------|
| N MALE | 7MM | 24 | TS1878-24 | SEE TS1818-24 ABOVE |
| N MALE | 7MM | 34 | TS1878-34 | SEE TS1818-34 ABOVE |
| 7MM | 7MM | 34 | TS7878-34 | SEE TS1818-34 ABOVE |

| PART NUMBER | CONN | LENGTH INCHES | + - LENGTH | MAX.WEIGHT OUNCES | MAXIMUM VSWR :1 AT FREQUENCY (IN GHz.) | | | | | | | | MAXIMUM INSERTION LOSS IN dB AT FREQ. (IN GHz.) | | | | | | LENGTH CM |
|-------------|------|---------------------------|------------|-------------------|--|--------|--------|--------|--------------|---------------|---------|--------|---|--------|--------------|---------------|------|--|-----------|
| | | | | | UP TO 1 | 1 TO 2 | 2 TO 3 | 3 TO 6 | 6 TO 12 REF. | 12 TO 18 REF. | UP TO 1 | 1 TO 2 | 2 TO 3 | 3 TO 6 | 6 TO 12 REF. | 12 TO 18 REF. | | | |
| TS1818-07 | N | 7.5 | 0.38 | 4.3 | 1.07 | 1.10 | 1.13 | 1.18 | 1.25 | - | 0.16 | 0.21 | 0.27 | 0.38 | 0.55 | - | 19.1 | | |
| TS1818-07S | N | 4-7.5 INCH CABLES | | | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| TS1818-24 | N | 24.0 | 1.20 | 5.3 | 1.07 | 1.10 | 1.13 | 1.18 | 1.25 | - | 0.32 | 0.46 | 0.58 | 0.85 | 1.28 | - | 61.0 | | |
| TSA1818-34 | N | 24 | 1.20 | 5.3 | 1.06 | 1.06 | 1.06 | | | | 0.32 | 0.46 | 0.58 | 0.85 | 1.28 | - | 61.0 | | |
| TS1818-34 | N | 34.0 | 1.70 | 5.8 | 1.07 | 1.10 | 1.13 | 1.18 | 1.25 | - | 0.43 | 0.61 | 0.77 | 1.13 | 1.71 | - | 86.4 | | |
| TS1818-STR | SET | 3-24 AND 1-34 INCH CABLES | | | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| TS7878-24 | 7MM | 24.0 | 1.20 | 5.3 | 1.07 | 1.10 | 1.12 | 1.16 | 1.22 | 1.30 | 0.32 | 0.46 | 0.58 | 0.85 | 1.28 | 1.66 | 61.0 | | |
| TS7878-ST5 | 7MM | 2-24 INCH CABLES | | | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

MAXIMUM SPECIFICATIONS ARE PRODUCT MAXIMUM INCLUDING MEASURING SYSTEM UNCERTAINTY. SPECIFICATIONS FROM 6 THRU 18 GHz ARE NOT VERIFIED AND ARE FOR REFERENCE ONLY.

| CONN | LENGTH | ORDER TENSOLITE PART NUMBER |
|------|--------|--------------------------------|
| N | 24,34 | TS1818-STR (SET OF 3-24, 1-34) |
| 7MM | 24 | TS7878-ST5 (SET OF 2-7MM) |
| 7MM | 24 | TS7878-24 |
| N | 34 | TS1818-34 |
| N | 24 | TS1818-24 |
| N | 8 | TS1818-07 |
| N | 7.5 | TS1818-07S (SET OF 4-7.5) |
| N | 24 | TSA1818-24V |

TS1818-STR IS A SET OF 3-24 INCH AND 1-34 INCH TYPE N CABLES USED TO INTERCONNECT TRANSMISSION REFLECTION TEST SETS AND POWER SPLITTERS
TS7878-ST5 IS A SET OF 2 MATCHED 24 INCH 7MM CABLES USED AS TEST PORT EXTENSION CABLES ON TRANSMISSION REFLECTION AND S PARAMETER TEST SETS.
TSA1818-24V IS A LOW VSWR (<-30 dB return loss) 24 INCH TYPE N CABLE
PRODUCT SPECIFICATIONS APPLY AT 5 TO 99% (NON CONDENSING) RELATIVE HUMIDITY, CONSULT FACTORY FOR PRODUCT CHARACTERISTICS AT OTHER CONDITIONS.
PRODUCT INFORMATION AVAILABLE ON OUR WEB PAGE @ <http://www.tensolite.com>

Semi-Rigid Cable Assemblies

Tensolite's Semi-Rigid cable assemblies are among the highest quality assemblies available today. We custom build these cables to meet your specifications.

Tensolite uses only the highest quality MIL-spec Semi-Rigid cable ranging from .034" to .250" in diameter, and a wide variety of commercial, QPL, and custom connectors including Tensolite's own line of high performance connectors ranging from SMP's, SSMP's, SMA's, smk's, BMA's, TNC's and Type N's.

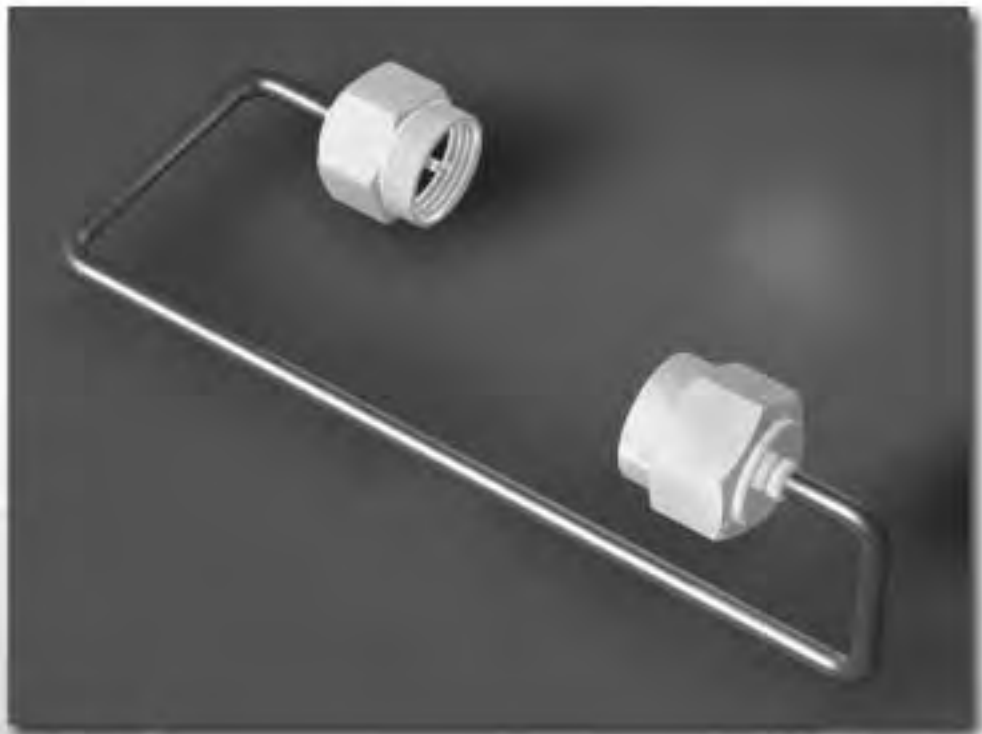
All soldering is done in a MIL-STD-2000 environment by certified assemblers. We maintain a MIL-I-45208A inspection system with the calibration, sampling procedures and documentation to meet your most demanding requirements.

Applications:

- Military or commercial O.E.M.
- Test equipment
- High shielding environments
- Low cost RF transmission needs

Features:

- Computerized forming equipment
- In-house test capability through 65 GHz
- Tight phase matching capability
- Custom marking
- Rapid delivery



Delay Lines

Passive coax delay lines are an excellent means for providing short delays in RF and Microwave systems. Our engineers will work with you to configure a delay line solution that meets your specific electrical and packaging requirements.

Tensolite uses the highest quality Semi-Rigid and Semi-Flex[®] cable in sizes ranging from .035" to .250" in diameter as well as a variety of flexible coax cables. A wide variety of terminations are available including stripped ends for direct PCB termination.

Applications

- Land mobile radio
- Test equipment
- Cellular base stations

Features:

- Delay and skew tolerances to less than 15 ps
- Excellent phase stability
- Multiple delays in one package
- Low loss and VSWR



Delay Lines

Peltola Interconnect System

Peltola, a reliable, proven interconnect system

The Tensolite Peltola connector system uses the coaxial cable's center conductor for direct insertion into a receptacle. A press-fit action captures the cable shield, thus eliminating the need for any soldering or special crimping. Each interconnect assembly includes a close tolerance coaxial cable terminated to a male Peltola connector.

The Peltola receptacle is a direct fit replacement for typical SMB-type circuit board mounted receptacles.

The resultant interconnection provides excellent electrical characteristics with a significant cost advantage over typical SMB-type installations.

The Peltola RF interconnect system, designed by Tektronix, Inc., has been proven in the manufacture of its oscilloscopes and other instruments. Tensolite maintains the close-tolerance RF coaxial cable used in PELTOLA assemblies, plus the automated termination equipment for applying the connector.

The PELTOLA assemblies are available in both 50 Ω and 75 Ω impedance versions. PELTOLA cables are available in four standard versions, As shown in Table 1. The PELTOLA connector is available with a machined eyelet that seals the end of the cable, further improving the VSWR of the connection.

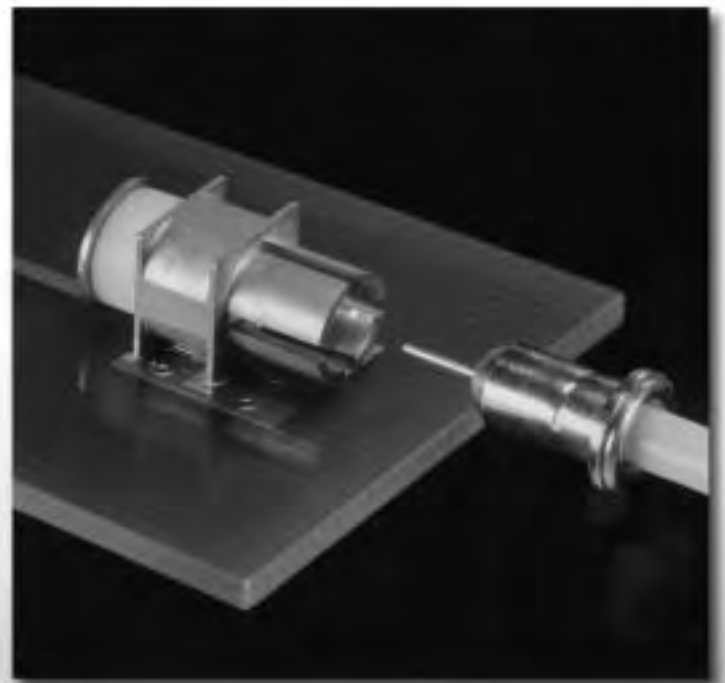
There are two PELTOLA receptacle choices, through-hole vertical mount and our NEW SMT right angle receptacle.

PELTOLA to panel-mount BNC is available.

In addition to assemblies with PELTOLA connectors on both ends, Tensolite's production facility can custom manufacture cable assemblies with a PELTOLA connector on one end, and the connector of your choice on the other.

Features:

- Offers a significant price advantage over typical assemblies
- VSWR compares very favorably with typical cable connectors
- Solderless connecting system, with 50 - 75 Ohm options
- SMT Right Angle Receptacle

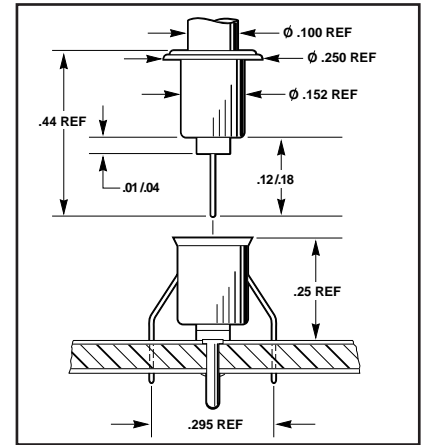


Peltola Interconnect System Data/Specifications

The PELTOLA RF Interconnect System from Tensolite is a proven, low-cost, electrically clean, reliable way to make RF cable connections between circuit boards or to the back side panels.

Electrical

| | |
|-----------------------------------|--|
| Frequency: | DC - 3 Ghz |
| Nominal Impedance: Impedance: | 50±5 Ohms 75±7.5 Ohms |
| VSWR Structural Return Loss | 1.22:1 Maximum to 3 GHz >20 dB to 3 GHz |
| TDR | 50 Ohm: 2.7 rho-picoseconds 75 Ohm: 2.2 rho-picoseconds |



Standard PELTOLA Cable

| CABLE PART NO. & CENTER COND. | AWG & O/D (in.) | DIELECTRIC & O/D (Inches) | SHIELD & PCT. of COVERAGE | JACKET & NOM. O/D (INCHES) | NOM. CAP. PF/FT. | IMPEDANCE (Ohms) | CABLE RATING |
|---|-----------------|-------------------------------|-----------------------------------|----------------------------|------------------|------------------|--------------------|
| 178-1179-66 Solid, Silver coated, copper covered steel | 25 .018 | Solid Polyethylene .058 | 100% Al Polyester 86% TC Braid | Black PP.100 | 30.8 | 50±2 | -15/+105°C 300V |
| 175-1202-00 Solid, Silver coated, copper covered steel | 25 .018 | Solid Polyethylene .058 | Tin-Coated Copper 88% | PVC .100 | 30.8 | 50±1 | -15/+80°C 300V |
| 816-0198-00 Solid, Silver coated, copper covered steel | 25 .018 | FEP PTFE .055 | Tin-Coated Copper 88% | FEP PTFE .100 | 28.4 | 50±2 | 15/+150°C 300 V |
| 174-4390-66 Solid, silver coated, Copper Covered Steel | 27 .0142 | Cellular Polyethylene .061 | Tin-coated Copper 88% | PVC .100 | 17.4 | 75±3 | -15/+80°C 90V |

Material

| | |
|---------------|-------|
| Inner Contact | Brass |
| Outer Contact | Brass |
| Receptacle | Brass |
| SMT | Brass |

Finishes

| | |
|---------------|-------------------|
| Inner Contact | Nickel/Gold Plate |
| Outer Contact | Nickel/Gold Plate |
| Receptacle | Nickel/Gold Plate |
| Receptacle | Nickel/Gold Plate |

Mechanical

| | |
|--|---|
| Contact Resistance Center Conductor Shield | MIL-STD-202F Method 307 1.5 milliohms 1.5 milliohms |
| Insertion Force Withdrawal Force | MIL-STD-1344A Method 2013.1 Initial 5 lbs. Initial 3 lbs. |

Electrical

| | |
|--|-------------------------------------|
| VSWR | Dependent upon length of the cable. |
| Typical VSWR for standard PELTOLA connector with 18" 50 ohm coax | Max 1.4 to 1 at 2 GHz |
| Typical VSWR for machined PELTOLA connector with 18" 50 ohm coax | Max 1.3 to 1 at 2 GHz |

Environmental

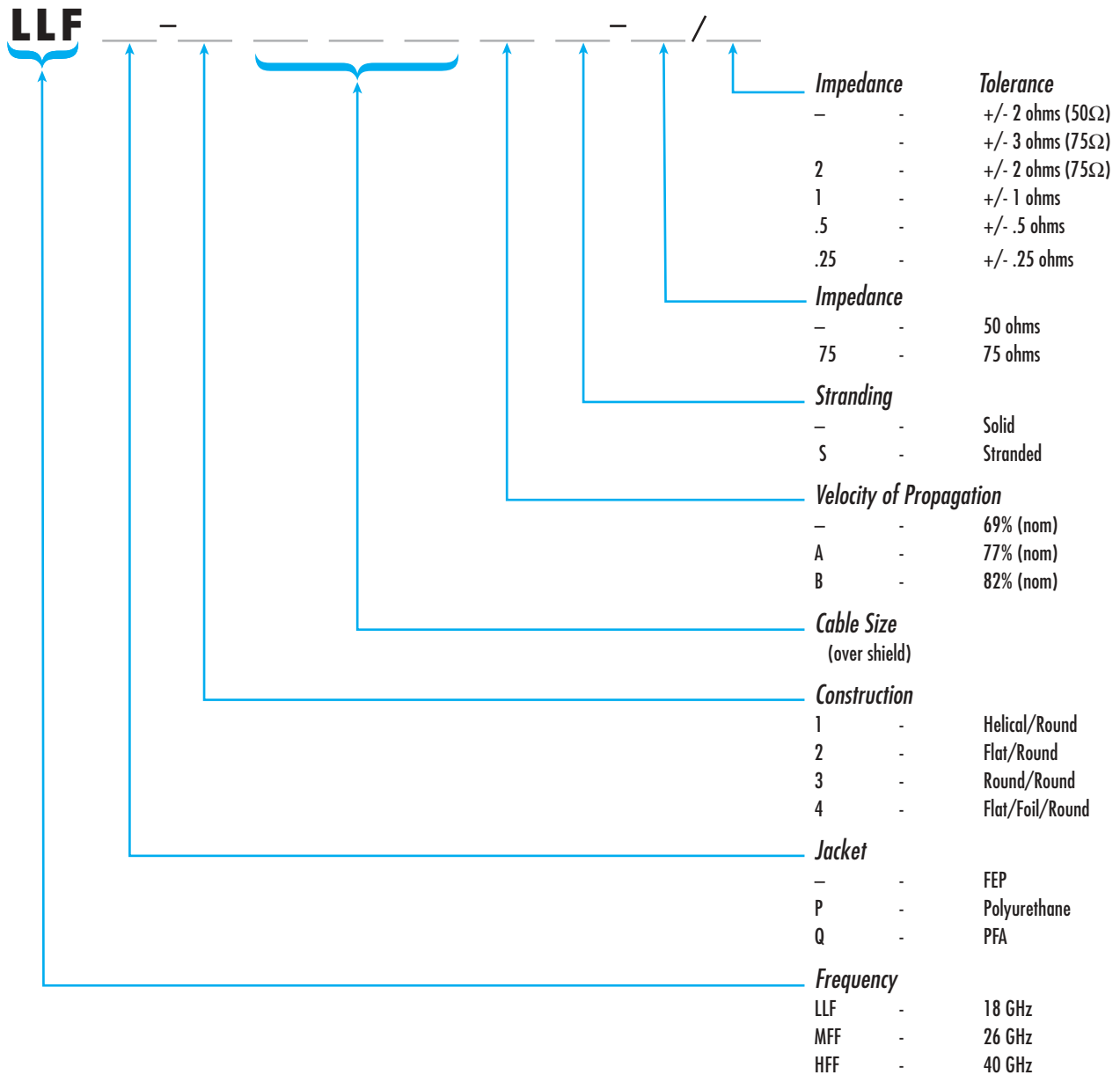
| | |
|---|--|
| Temperature Cycling 55 to +75°C | MIL-STD-810D Method 501.2, 502.2 (combination) |
| Temperature Storage 85°C/30 day | MIL-STD-202 Method 108A |
| Humidity Test | MIL-STD-202F Method 106E |
| Humidity Sulfide | Connectors were subjected to 24 hours of Hydrogen Sulfide at concentration of 5-10 PPM |
| Vibration 0.05" displacement/ 10 to 55 Hz | MIL-STD-202F Method 201A |
| Shock 100 gs | MIL-STD-202 Method 202D |

Low-Loss Flexible (LLF) Series Cable Summary

Features & Benefits:

- Greater than 90 dB/ft shielding effectiveness
- VSWR less than 1.15:1 to 5GHz and 1.20:1 from 5 to 26GHz, and 1.50:1 from 26 to 40 GHz.
- Excellent attenuation with flex stability
- Superior phase with flex performance
- Excellent vibration performance

Part Numbering System



Low-Loss Flexible (LLF) Series Cable

| Cable P/N: | LLF-1087 | LLF-1141 | LLF-1260 | LLF-1087-75 | LLF-1087S | LLFP-1141B | LLFP-1260S | HFF-1087 |
|-------------------------------------|------------|------------|----------|-------------|---------------|---------------------|--------------|------------|
| Cable Code: | 481 | 483 | 485 | 837 | 561 | 563 | 565 | 794 |
| Conductor Construction: | Solid SCCS | Solid SCCS | Solid SC | Solid SCCS | Stranded SCCS | Stranded SC | Stranded SC | Solid SCCS |
| Conductor Diameter: | 0.020" | 0.037" | 0.064" | 0.011" | 0.021" | 0.038" | 0.068" | 0.020" |
| Dielectric Material: | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE |
| Dielectric Diameter: | 0.064" | 0.118" | 0.211" | 0.065" | 0.063" | 0.116" | 0.211" | 0.064" |
| Shield Type(s): | | | | | | SC Strip + SC Braid | | |
| Shield Diameter: | 0.086" | 0.142" | 0.252" | 0.087" | 0.086" | 0.140" | 0.252" | 0.086" |
| Jacket Material: | FEP | FEP | FEP | FEP | Polyurethane | Polyurethane | Polyurethane | FEP |
| Jacket Diameter: | 0.105" | 0.163" | 0.270" | 0.105" | 0.115" | 0.185" | 0.290" | 0.105" |
| Weight(lb/ft): | 0.013 | 0.030 | 0.090 | 0.013 | 0.013 | 0.029 | 0.085 | 0.013 |
| Minimum Bend Radius(inches): | 0.5 | 0.8 | 1.4 | 0.5 | 0.6 | 0.9 | 1.5 | 0.5 |

SCCS: Silver-coated Copper-covered

ELECTRICAL CHARACTERISTICS:

| | | | | | | | | |
|--|-------|-------|-------|------|-------|-------|-------|-------|
| Impedance(ohms): | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Capacitance(pF/ft): | 29 | 29 | 29 | 20 | 29 | 29 | 29 | 29 |
| Velocity of Propagation(%): | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Max. Operating Voltage(Vrms): | 1,500 | 1,900 | 3,000 | 900 | 1,500 | 1,900 | 3,000 | 1500 |
| Max. Operating Frequency(GHz): | 18 | 18 | 18 | 3 | 18 | 18 | 18 | 40 |
| Shielding Effectiveness(dB/ft): | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Attenuation(dB/100') @ 0.4 GHz: | 13.7 | 7.2 | 4.2 | 13.7 | 14.6 | 7.7 | 4.2 | 13.7 |
| @ 1.0 GHz: | 22.2 | 11.6 | 7.2 | 22.2 | 23.4 | 12.6 | 7.6 | 22.2 |
| @ 3.0 GHz: | 38.9 | 21.2 | 13.9 | 38.9 | 41.6 | 22.6 | 15.2 | 38.9 |
| @ 5.0 GHz: | 51.0 | 28.3 | 18.9 | | 54.6 | 30.5 | 24.8 | 51.0 |
| @ 10.0 GHz: | 74.9 | 43.0 | 29.6 | | 79.6 | 45.8 | 34.4 | 74.9 |
| @ 18.0 GHz: | 104.3 | 61.5 | 44.3 | | 110.6 | 65.3 | 47.5 | 104.3 |
| @ 26.5 GHz: | | | | | | | | 128.7 |
| @ 40.0 GHz: | | | | | | | | 176.5 |

Low-Loss Flexible (LLF) Series Cable

| | | | | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------------|------------|----------|-----------|
| Cable P/N: | LLFQ-1079A | LLFC-1082AS | LLF-1105BS | LLF-1168BS | LLF-1170BS | LLF-2075AS | LLF-2170SB | LLF-4164 | MFF-4181B |
| Cable Code: | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 504 | 311 |

| | | | | | | | | | |
|------------------------------|------------|-------------|-------------|----------|-------------|-------------|-------------|------------|----------|
| Conductor Construction: | Solid SCCS | Stranded SC | Stranded SC | Solid SC | Stranded SC | Stranded SC | Stranded SC | Solid SCCS | Solid SC |
| Conductor Diameter: | 0.020" | 0.024" | 0.030" | 0.030" | 0.054" | 0.054" | 0.054" | 0.037" | 0.051" |
| Dielectric Material: | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE |
| Dielectric Diameter: | 0.061" | 0.066" | 0.080" | 0.083" | 0.142" | 0.142" | 0.144" | 0.118" | 0.145" |
| Shield Diameter: | 0.078" | 0.082" | 0.105" | 0.108" | 0.170" | 0.170" | 0.170" | 0.154" | 0.177" |
| Jacket Material: | PFA | PFA | FEP | FEP | FEP | FEP | FEP | FEP | FEP |
| Jacket Diameter: | 0.095" | 0.097" | 0.118" | 0.120" | 0.187" | 0.187" | 0.190" | 0.195" | 0.195" |
| Weight(oz/ft) | 0.010 | 0.010 | 0.016 | 0.016 | 0.038 | 0.038 | 0.035 | 0.040 | 0.037 |
| Minimum Bend Radius(Inches): | 0.5 | 0.5 | 0.6 | 0.6 | 0.9 | 0.9 | 1.0 | 1.0 | 1.0 |

MECHANICAL CHARACTERISTICS:

| | | | | | | | | | |
|---------------------------------|------|------|------|------|-------|------|-------|-------|-------|
| Impedance(ohms): | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Capacitance(pF/ft): | 27 | 27 | 25 | 25 | 25 | 27 | 25 | 29 | 25 |
| Velocity of Propagation(%): | 77 | 77 | 82 | 82 | 82 | 77 | 82 | 70 | 82 |
| Max. Operating Voltage(Vrms): | 800 | 800 | 800 | 800 | 1,000 | 700 | 1,000 | 1,400 | 1,000 |
| Max. Operating Frequency(GHz): | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 26.5 |
| Shielding Effectiveness(dB/y): | 90 | 90 | 90 | 90 | 90 | 75 | 75 | 90 | 4.7 |
| Attenuation(dB/100') @ 0.4 GHz: | 12.4 | 12.8 | 11.5 | 8.5 | 5.3 | 19.1 | 6.3 | 7.5 | 7.6 |
| @ 1.0 GHz: | 19.5 | 20.2 | 18.5 | 13.1 | 8.5 | 32.2 | 10.3 | 12.4 | 13.4 |
| @ 3.0 GHz: | 34.5 | 35.7 | 33.5 | 22.9 | 15.0 | 59.0 | 18.9 | 22.5 | 17.5 |
| @ 5.0 GHz: | 45.1 | 46.6 | 43.6 | 29.9 | 19.6 | 77.7 | 25.2 | 31.0 | 26.9 |
| @ 10.0 GHz: | | | | | | | | 46.8 | 36.2 |
| @ 18.0 GHz: | | | | | | | | 68.6 | 46.6 |
| @ 20.5 GHz: | | | | | | | | | |

ELECTRICAL CHARACTERISTICS:

MIL-C-17 Flexible Coaxial Cables

| Spec Reference: | M1709-R330 | M1709-R342 | M1705-R350-1 | M1706-R322S | M1705-R3170 | M1711-R3303 | M1713-R3316 | M1712-R3393 | M1713-R3400 | M1712-00001 | |
|------------------------------------|--------------|-------------|--------------|--------------|---------------|-------------|---------------|-------------|-------------|---------------|--|
| Cable Code: | 115 | 132 | 162 | 174 | 140 | N/A | 187 | N/A | 190 | 195 | |
| MECHANICAL CHARACTERISTICS: | | | | | | | | | | | |
| Conductor Construction: | Stranded TC | Solid SCCS | Stranded SC | Solid SC | Stranded SCCS | Solid SCCS | Stranded SCCS | Stranded SC | Stranded SC | Stranded SCCS | |
| Conductor Diameter: | 0.036" | 0.037" | 0.089" | 0.035" | 0.012" | 0.037" | 0.020" | 0.094" | 0.038" | 0.020" | |
| Dielectric Material: | Polyethylene | PTFE | Polyethylene | Polyethylene | PTFE | PTFE | PTFE | PTFE | PTFE | PTFE | |
| Dielectric Diameter: | 0.116" | 0.116" | 0.285" | 0.116" | 0.033" | 0.116" | 0.060" | 0.285" | 0.116" | 0.060" | |
| Shield Type(s): | 1 TC Braid | 2 SC Braids | 2 SC Braids | 2 SC Braids | 1 SC Braid | 1 SC Braid | 1 SC Braid | 2 SC Braids | 2 SC Braids | 2 SC Braids | |
| Shield Diameter: | 0.138" | 0.160" | 0.341" | 0.160" | 0.051" | 0.138" | 0.078" | 0.341" | 0.162" | 0.096" | |
| Jacket Material: | PVC | FEP | PVC | PVC | FEP | FEP | FEP | FEP | FEP | FEP | |
| Jacket Diameter: | 0.195" | 0.195" | 0.425" | 0.212" | 0.071" | 0.170" | 0.068" | 0.390" | 0.195" | 0.114" | |
| Weight(lb/ft): | 0.026 | 0.043 | 0.134 | 0.037 | 0.006 | 0.030 | 0.010 | 0.160 | 0.042 | 0.015 | |
| Minimum Bend Radius(inches): | 1.0 | 1.0 | 2.1 | 1.1 | 0.4 | 0.7 | 0.5 | 2.0 | 1.0 | 0.6 | |

SCCS: Silver-plated Copper-covered Steel; SC: Silver-plated Copper; TC: Tin-coated Copper

ELECTRICAL CHARACTERISTICS:

| | | | | | | | | | | |
|---------------------------------|-------|-------|-------|-------|------|-------|------|-------|-------|------|
| Impedance(ohms): | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Capacitance(pF/ft): | 31 | 29 | 31 | 31 | 29 | 29 | 29 | 29 | 29 | 29 |
| Velocity of Propagation(%): | 66 | 70 | 66 | 66 | 70 | 70 | 70 | 70 | 70 | 70 |
| Max. Operating Voltage(Vrms): | 1,400 | 1,400 | 3,700 | 1,400 | 750 | 1,400 | 900 | 1,875 | 1,400 | 900 |
| Max. Operating Frequency(GHz): | 1 | 8 | 11 | 12 | 3 | 3 | 3 | 11 | 12.4 | 12.4 |
| Shielding Effectiveness(dB/ft): | 40 | 60 | 60 | 60 | 40 | 40 | 40 | 60 | 60 | 60 |
| Attenuation(dB/100') @ 0.4 GHz: | 9.7 | 9.0 | 5.0 | 9.3 | 30.4 | 8.5 | 16.1 | 5.0 | 8.6 | 15.9 |
| @ 1.0 GHz: | 17.1 | 15.3 | 8.7 | 15.6 | 49.8 | 14.1 | 26.8 | 15.4 | 14.5 | 25.7 |
| @ 3.0 GHz: | | 29.2 | 18.8 | 29.7 | 93.2 | 27.0 | 51.5 | 17.8 | 27.1 | 47.1 |
| @ 5.0 GHz: | | 40.3 | 27.7 | 40.9 | | | | 25.1 | 36.8 | 62.4 |
| @ 10.0 GHz: | | | 48.0 | 69.3 | | | | 41.1 | 56.8 | 92.4 |

MIL-C-17 Semi-Rigid Coaxial Cables

MECHANICAL AND ELECTRICAL SPECIFICATIONS OF POPULAR MIL-C-17 SEMI-RIGID CABLES ■ AMBIENT

| MIL# or other# | Nom. O.D. (Inches) | Operating Frequency | | Power Handling @Max MIL Spec Freq. (Watts) | Maximum Attenuation (dB/100 FT) | | | | | | Dielectric Material | Jacket Material | Center Conductor Material | Minimum Inside Bend Radius (Inches) | Continuous Working Voltage | Withstanding Voltage (RMS) | Operating Temp. Range (°C) | |
|--------------------------|--------------------|---------------------|-------------|--|---------------------------------|-----|----|----|-----|-----|---------------------|-----------------|---------------------------|-------------------------------------|----------------------------|----------------------------|----------------------------|-------------|
| | | MIL Spec. Max. | 90% Cut Off | | 500 MHz | 1 | 3 | 5 | 10 | 18 | | | | | | | | 20 |
| | | 20 | 109 | | 28 | 40 | 70 | 80 | 130 | 180 | | | | | | | | 190 |
| /151-00001 | .047 | 20 | 109 | 6.5 | 28 | 40 | 70 | 80 | 130 | 180 | 190 | PTFE | COPPER | SPCW* | .125 | 1000 | 2000 | -40 to +100 |
| | | 20 | 109 | 6.5 | 28 | 40 | 70 | 80 | 130 | 180 | 190 | | | | | | | |
| /133-RG405 & /133-00006* | .065 | 20 | 61 | 20 | 15 | 22 | 38 | 50 | 80 | 122 | 130 | PTFE | COPPER | SPCW* | .125 | 1500 | 5000 | -40 to +125 |
| | | 20 | 61 | 20 | 15 | 22 | 38 | 50 | 80 | 122 | 130 | | | | | | | |
| /133-00002 & /133-00008/ | .085 | 20 | 61 | 20 | 15 | 22 | 38 | 50 | 80 | 122 | 130 | PTFE | COPPER | SPC** | .250 | 1900 | 5000 | -40 to +125 |
| | | 20 | 61 | 20 | 15 | 22 | 38 | 50 | 80 | 122 | 130 | | | | | | | |
| /130-RG402 & /130-00004* | .141 | 20 | 34 | 70 | 9 | 12 | 21 | 29 | 45 | 62 | 70 | PTFE | COPPER | SPCW* | .250 | 1900 | 5000 | -40 to +125 |
| | | 20 | 34 | 70 | 9 | 12 | 21 | 29 | 45 | 62 | 70 | | | | | | | |
| /129-RG401 | .250 | 18 | 19 | 200 | 5.1 | 7.5 | 11 | 16 | 33 | 48 | | PTFE | COPPER | SPC** | .375 | 3000 | 7500 | -40 to +80 |
| | | 18 | 19 | 200 | 5.1 | 7.5 | 11 | 16 | 33 | 48 | PTFE | | | | | | | |

Follow these guidelines for the best performing lowest cost and shortest lead time assemblies:

- A. DIMENSIONS**
Drawing layout should be in absolute XYZ format with one connector interface reference plane the 0,0,0 point from which all subsequent measurements are made. This eliminates a build up of tolerances.
- B. TOLERANCES**
0-4" lengths: ±0.03
4-12" lengths: ±0.06
>12" lengths: ±(0.05) * (length)
Example: A cable with two bends and three legs 3", 5", and 10" long would have leg tolerances of ±.05", ±.05", and ±.08" respectively. The furthest end of the 10" leg length is 15" from the 0,0,0 point.
- C. BENDS**
For best performance do not exceed the minimum radius bend radii specified in the table above. To allow optimum use of computerized forming equipment and eliminate tooling:
1. Use the same radius dimension within a given assembly.
2. Do not specify a radius greater than 0.5" between bends.
3. Allow a minimum .150" of straight cable between bends.
- D. MARKERS**
Use commonly available MIL spec or commercial shrink marker material in high contrast black with white characters. Two lines/mark maximum. Wrap markers are less costly on small quantity, quick delivery orders. Avoid serialization and one-of-a-kind markers.
-Silver plated copper clad steel
-Silver plated copper.
- E. CONNECTORS**
Specify SMA plugs whenever possible. Tensolite's SMA's easily out perform most SMA's available today. Avoid unusual connector designs as well as unpopular items such as bulkheads or panel mounts. Allow "equivalents" to increase the probability of availability or lower costs.
- F. CABLE**
Semi-rigid cable is available in standard as well as soft copper outer jackets. One may choose from a wide assortment of jacket and center conductor platings. A selection of the more popular options are listed above. If no requirement other than O.D. is specified, Tensolite uses soft jacketed, steel center conductor cable.
- G. DRAWINGS**
Ensure drawings are complete with all dimensions, views, materials, tolerances, proper scale, electrical and environmental requirements. Obtain from Tensolite a special part number uniquely assigned to your print before releasing the final document.
- H. PACKAGING**
Unless otherwise specified cables are individually sealed in plastic bags, wrapped in wadding and sealed in heavy duty outer containers to prevent damage during shipping.
Remember, these are just guidelines. If you must deviate from Tensolite's Tensolite for more information.

*With other dimensions and values listed please visit Carlsle Company for more information.
†Soft annealed copper (100%)

Acculite UT (Ultra Thin)

Miniaturized, lightweight PTFE insulated lead wire

Tensolite ACCULITE - UT wire is a series of lightweight, smaller diameter lead wire for applications requiring thinner wall thickness and smaller conductor sizes. Standard wall thickness range from .0015 inches to .0040 inches.

Typical Applications for ACCULITE - UT are:

- * Subminiature Thermocouple leads
- * Test Equipment Wiring
- * Miniature slip ring and gyroscope
- * Miniature brush block assemblies
- * Strain gauge and transducer leads
- * Medical Equipment
- * Tone arm and hearing aid wire
- * Micro component interconnect wiring
- * Radio and Television circuitry
- * Telemetering equipment
- * Aerospace and Missile Instrumentation

| TENSOLITE PRODUCT CODE | AWG Silver Plated Copper | Dielectric Material | Nominal wall Thickness | Finished Diameter Min/Max | Max D.C. Resistance Ohms/ 1000ft. @ 20 °C | Nominal Weight/ 1000 ft |
|------------------------|--------------------------|---------------------|------------------------|---------------------------|---|-------------------------|
| S26UT | 26 (1/26) | PTFE | .0040 | .022 / .025 | 42.1 | 1.000 |
| S28UT | 28 (1/28) | PTFE | .0035 | .018 / .021 | 66.4 | 0.650 |
| S736UT | 28 (7/36) | PTFE | .0040 | .021 / .025 | 62.0 | 0.768 |
| S30UT | 30 (1/30) | PTFE | .0030 | .015 / .017 | 102.0 | 0.430 |
| S738UT | 30 (7/38) | PTFE | .0040 | .018 / .022 | 97.8 | 0.573 |
| S32UT | 32 (1/32) | PTFE | .0030 | .013 / .015 | 166.0 | 0.290 |
| S740UT | 32 (7/40) | PTFE | .0040 | .015 / .020 | 166.0 | 0.379 |
| S34UT | 34 (1/34) | PTFE | .0025 | .010 / .012 | 270.0 | 0.190 |
| S742UT | 34 (7/42) | PTFE | .0035 | .014 / .016 | 258.0 | 0.261 |
| S36UT * | 36 (1/36) | PTFE | .0015 | .007 / .009 | 850.0 | 0.105 |
| S744UT * | 36 (7/44) | PTFE | .0035 | .012 / .015 | 630.0 | 0.200 |

*Manufactured with silver-plated copper alloy conductor

UT Performance:

Operating Voltage: 100 Vrms, 60 Hz, or 300 Vdc Max

Operating Temperature: -90 °C to 200 °C

Colors Available: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White

***NOTE: ACCULITE IS A TRADE NAME OF THE TENSOLITE COMPANY.**

Assembly Instructions

CONDUCTOR

Conductor over cable
and seat firmly
using gauge and solder.

TO HOUSING

onto cable, place
fixing fixture, then
to seat firmly


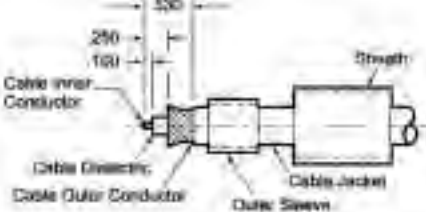
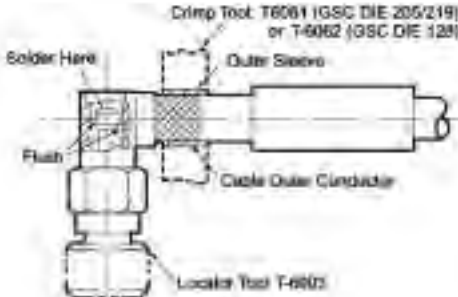
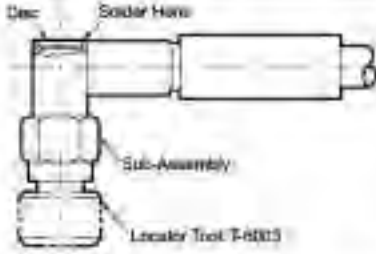
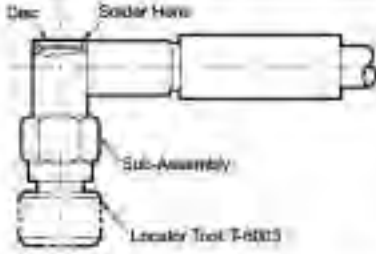
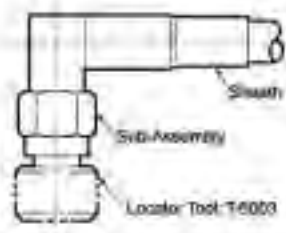
over nose of locator
place.



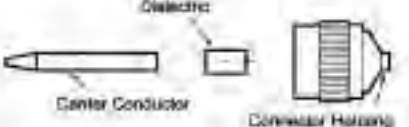
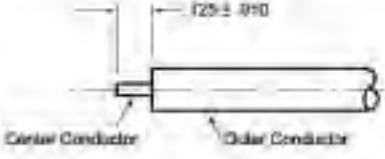
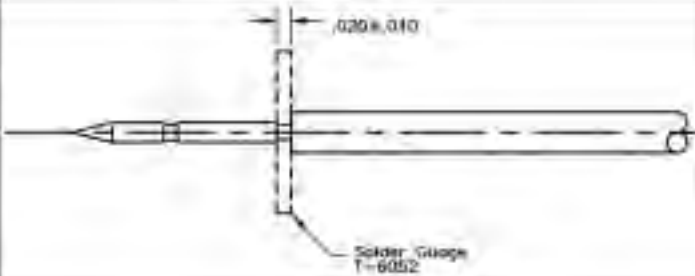
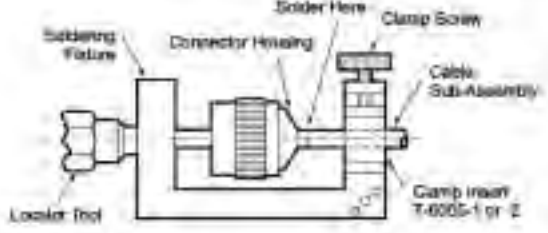
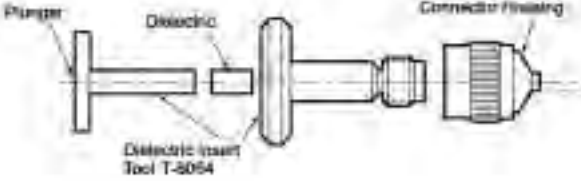
Assembly Instructions

| Part Number | Connector Type | Assy Inst. No. (AI) | Page |
|---------------------------|---|---------------------|----------|
| 5161 | SMA female radius right angle cable solder | AI-103 & AI-104 | 178, 179 |
| 5225,5224 | SMA female, two or four hole flange solder | AI-120 | 195 |
| 5228,5229 | SMA female straight direct solder -5CC | AI-132 | 201 |
| 5235-1 | SMA female radius right angle solder | AI-118 | 193 |
| 5235-2 | SMA female radius right angle cable solder | AI-122 | 197 |
| 5236 | SMA male radius right angle cable solder | AI-105 & AI-106 | 180, 181 |
| 5285 | SMA male straight connector solder | AI-111 | 186 |
| 5228,5229 | SMA female straight direct solder | AI-113 | 188 |
| 5286,5289 | | | |
| 5317 | SMA straight male connector direct solder | AI-222 | 206 |
| 5319 | SMA straight male connector direct solder | AI-123 | 198 |
| 5720 | SMA female straight connector solder or crimp | AI-109 | 184 |
| 5721 | SMA female straight connector solder or crimp | AI-110 | 185 |
| 5730 | SMA male straight connector solder or crimp | AI-107 & AI-108 | 182, 183 |
| 5750 | SMA male radius right angle crimp or solder | AI-116 | 191 |
| 5752 | SMA female radius right angle cable clamp | AI-121 | 196 |
| 5785, 5787 | SMA connector receptacle 2 hole flange | AI-224 | 208 |
| 5790, 5794 | SMA connector receptacle 2 hole flange | AI-224 | 208 |
| 5810, 5824 | SMA connector receptacle 4 hole flange | AI-224 | 208 |
| 5850 | SMA male miter right angle connector solder | AI-124 | 199 |
| 5851 | SMA male miter right angle crimp or solder | AI-101 | 176 |
| 5999 | SMA male straight Phase adjustable | AI-178 & 179 | 204, 205 |
| 8009 | Type N male straight solder | AI-102 | 177 |
| 8009 | Type N male connector solder | AI-125 | 200 |
| 8010 | Type N female direct solder | AI-114 | 189 |
| 8011 | Type N female bulkhead feedthrough direct solder | AI-115 | 190 |
| 8012 | Type N female flange mount direct solder | AI-112 | 187 |
| 8041 | Type N male straight solder or crimp | AI-119 | 194 |
| 9011 | TNC female bulkhead feedthrough | AI-136 | 202 |
| 9012 | TNC female flange mount | AI-136 | 202 |
| 9031 | TNC female radius right angle direct solder | AI-117 | 192 |
| P651 | SMP female straight solder on contact | AI-292 | 210 |
| P651 | SMP female straight solder on contact | AI-300 | 213 |
| P652 | SMP female right angle captivated contact | AI-291 | 209 |
| P652 | SMP female right angle captivated contact | AI-301 | 214 |
| P655 | SMP male straight captivated contact | AI-311 | 223 |
| P655 | SMP male straight captivated contact | AI-312 | 224 |
| P657 | SMP female straight to flex cable | AI-365 | 234 |
| P658 | SMP female float mount to flex cable | AI-297 | 212 |
| P659 | SMA female radius right angle captivated contact solder | AI-307 | 219 |
| P659 | SMP female right angle captivated contact | AI-308 | 220 |
| P660 | SMP male straight captivated contact | AI-309 | 221 |
| P660 | SMP male straight captivated contact | AI-310 | 222 |
| P661 | SMP male straight to flex cable | AI-334 | 231 |
| P662 | SMP female straight solder on contact | AI-313 | 225, 226 |
| P662 | SMP male straight solder on contact | AI-314 | 220, 221 |
| P664 | SMP male straight 2 hole flange solder on | AI-315 | 229 |
| P664 | SMP male straight 2 hole flange solder on | AI-316 | 230 |
| P666 | SMP female float mount solder on | AI-364 | 233 |
| P670, P671, P672, P673 | Shroud installation | AI-305 | 217 |
| P674 | SMP male captivated contact thread-in | AI-359 | 232 |
| P676 | Thread in attachment | AI-306 | 218 |
| P680 | SMP male hermetic | AI-293 | 211 |
| P681 | SMP male hermetic | AI-302 | 215 |
| P682 | SMP male hermetic | AI-303 | 216 |
| P794 | SMP male hermetic | AI-367 | 235 |

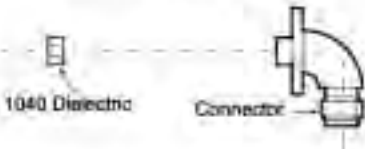
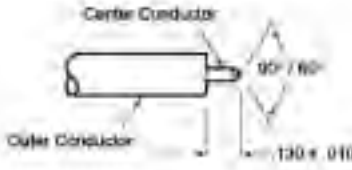
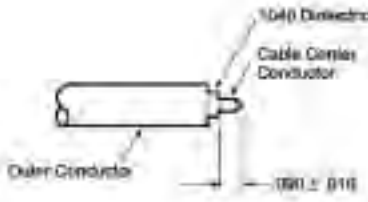
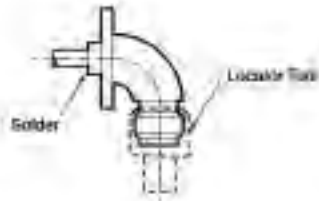
Assembly Instructions AI-101

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|---|---|--|--|
| SMA male miter right angle crimp or solder attachment | -1 RG 55, 58, 141, 142, 223, 303, 400 -2 RG 174, 188, 316, 179, 187 |  | Locator Tool: Tensolite-T-6003 Crimp Tool: Tensolite-T-6061 (GSC DIE 205/219) FOR-1 or Tensolite-T-6062 (GSC DIE 128) FOR-2 | Tensolite-5851-1CC Tensolite-5851-1CCSF Tensolite-5851-2CC Tensolite-5851-2CCSF |
| Procedure 1 | Prepare Coaxial Cable 1. Trim cable jacket, outer conductor and dielectric to dimensions shown. 2. Place sheath and outer sleeve on cable. 3. Flare outer conductor. |  | | |
| Procedure 2 | Attach Cable Center Conductor to Housing 1. Attach locator tool to housing. 2. Place housing in a vise. 3. Insert cable into housing and position center conductor and dielectric of cable as shown. 4. Place soldering iron on tip of housing center conductor and solder. |  | | |
| Procedure 3 | Attach Cable Outer Conductor to Housing 1. Slide outer sleeve over flared outer conductor. 2. Crimp or solder outer sleeve. |  | | |
| Procedure 4 | Seal Opening in Housing 1. Press disc into opening in rear of housing sub-assembly. Option 1: Tin perimeter of opening and press disc into position, apply heat to cap, do not allow solder to penetrate housing. Option 2: Disc may be epoxied into place, Do not allow epoxy to penetrate inside housing. |  | | |
| Procedure 5 | Shrink Sheath to Cable 1. Position sheath over outer sleeve as shown. 2. Apply indirect heat with thermo gun to shrink sheath. 3. Remove locator tool. |  | | |


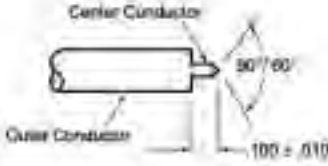
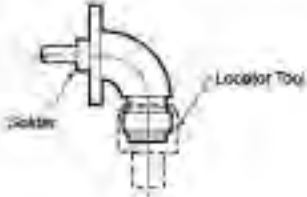
Assembly Instructions AI-102

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|--|---|---|---|
| <p>Type N male straight solder attachment</p> | <p>- 1 141 semi-rigid - 2 .065 semi-rigid - 3 141 micro-porous</p> |  | <p>Locator Tool: Tensolite-T-6056 Soldering Fixture: Tensolite-T-8053 Clamp Inserts: Tensolite-T-6055-1 or -2 Soldering Gauge: Tensolite-T-8052</p> | <p>Tensolite-8009-1SF Tensolite-8009-2SF Tensolite-8009-3SF</p> |
| <p>Procedure 1</p> | <p>Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown.</p> | |  | |
| <p>Procedure 2</p> | <p>Attach Center Conductor to Cable 1. Slide center conductor over center conductor of cable and seal firmly against soldering gauge and solder.</p> | |  | |
| <p>Procedure 3</p> | <p>Solder of Connector Housing to Cable 1. Place connector housing on end of cable. 2. Place house assembly in solder fixture as shown. 3. Slide housing over locator tool. 4. Maintain position of housing firmly against locator tool and solder.</p> | |  | |
| <p>Procedure 4</p> | <p>Insert Dielectric 1. Attach dielectric insert tool to connector. 2. Insert dielectric and push firmly with plunger until flange bottoms on tool shoulder.</p> | |  | |


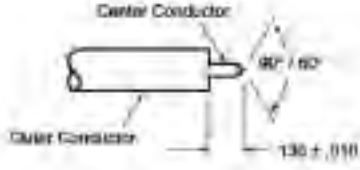
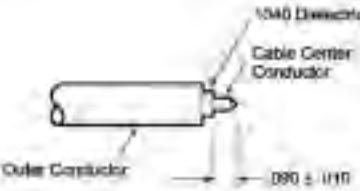

Assembly Instructions AI-103

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|---|--|--|
| <p>SMA female radius right angle cable solder attachment</p> | <p>141 semi-rigid</p> |  | <p>Locator Tool Tensolite-T-8002-2</p> | <p>Tensolite-5161-1 Tensolite-5161-18F Tensolite-5161-1CC Tensolite-5161-1CC8F</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor as shown. |  | | |
| <p>Procedure</p> <p>2</p> | <p>Install 1040 Dielectric</p> <ol style="list-style-type: none"> 1. Slide 1040 dielectric over conductor flush against cable. |  | | |
| <p>Procedure</p> <p>3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. |  | | |

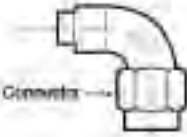
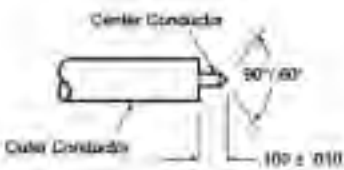
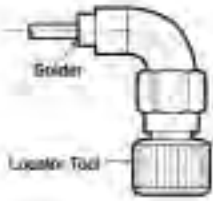
Assembly Instructions AI-104

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|---|---|--|
| <p>SMA female radius right angle cable solder attachment</p> | <p>.085 semi-rigid</p> |  | <p>Locator Tool, Tensolite-T-8002-2</p> | <p>Tensolite-5161-Q Tensolite-5161-2SF Tensolite-5161-2CC Tensolite-5161-2CCSF</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor as shown. |  | | |
| <p>Procedure</p> <p>2</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. |  | | |

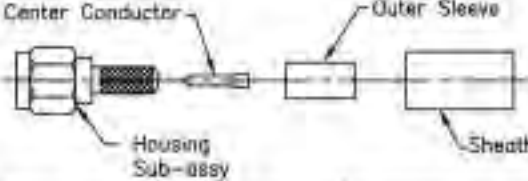
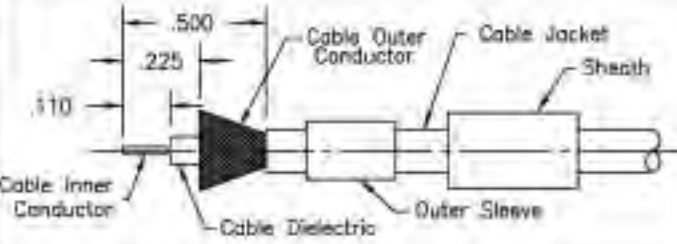
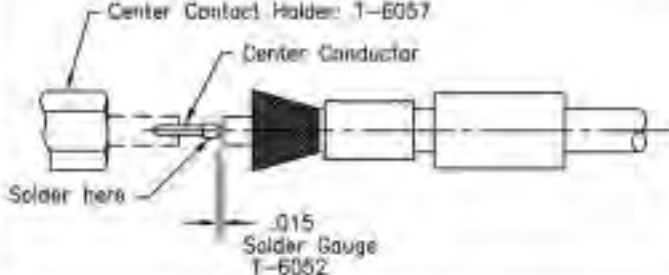
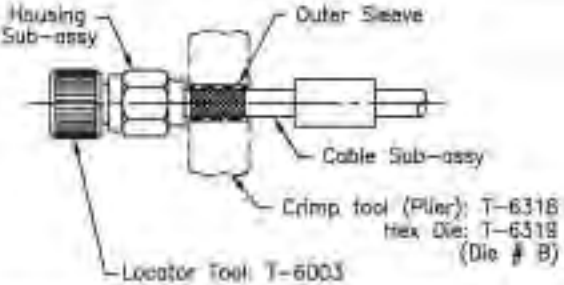
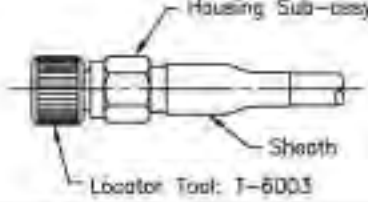
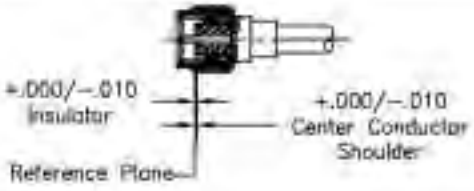
Assembly Instructions AI-105

| Connector Type SMA male radius right angle cable solder attachment | Cable Type 141 semi-rigid | Connector Components  | Tools Required Locator Tool: Tensolite-T-6003 | Connector P/N Tensolite-5236-1 Tensolite-5236-1CC Tensolite-5236-1SF Tensolite-5236-1CCSF |
|--|---|--|---|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor as shown. |  | | |
| Procedure 2 | Install 1040 Dielectric 1. Slide 1040 insulator over conductor flush against cable. |  | | |
| Procedure 3 | Attach Cable to Connector 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. |  | | |

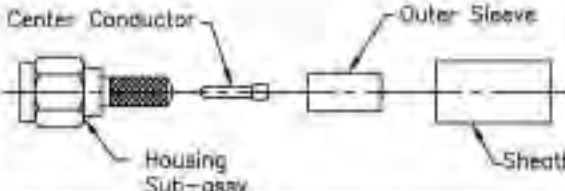
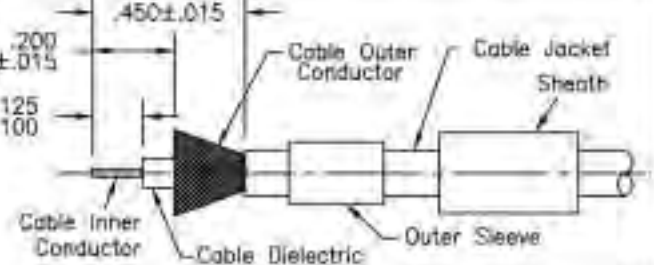
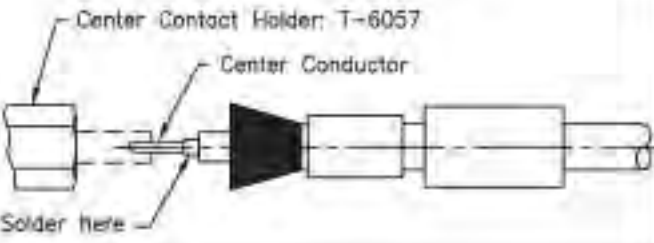
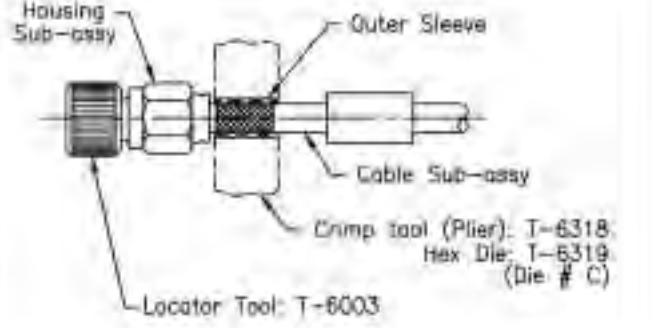
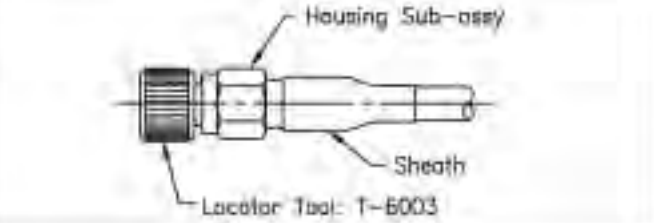
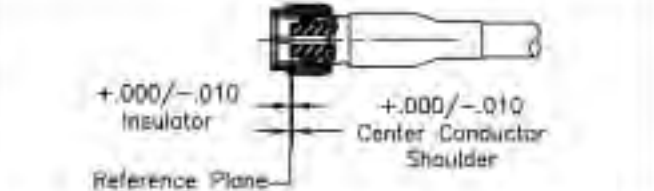
Assembly Instructions AI-106

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|--|--|--|
| <p>SMA male radius right angle cable solder attachment</p> | <p>385 semi-rigid</p> |  <p>Connector</p> | <p>Locator Tool: Tensolite-T-6003</p> | <p>Tensolite-5236-2 Tensolite-5236-2CC Tensolite-5236-2SF Tensolite-5236-2CCSF</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric to dimension shown 2. Point center conductor as shown | |  <p>Center Conductor</p> <p>90°/60°</p> <p>Outer Conductor</p> <p>100 ± 0.10</p> | |
| <p>Procedure</p> <p>2</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. | |  <p>Solder</p> <p>Locator Tool</p> | |

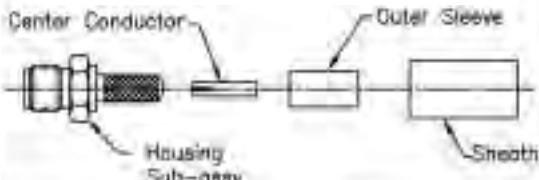
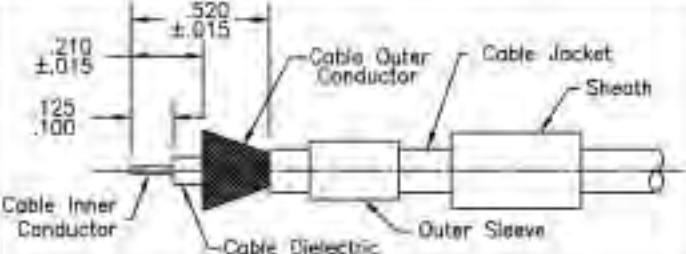
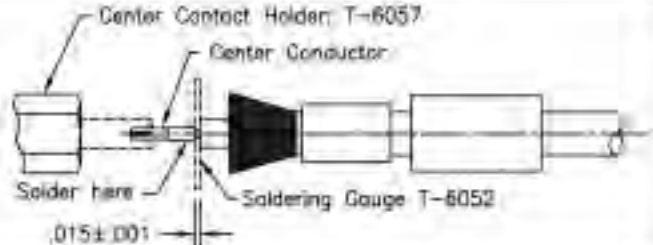
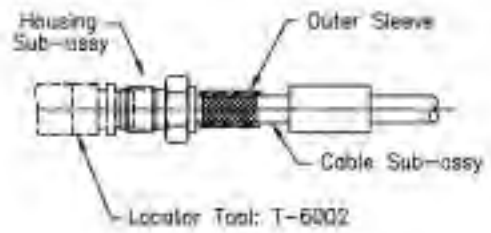
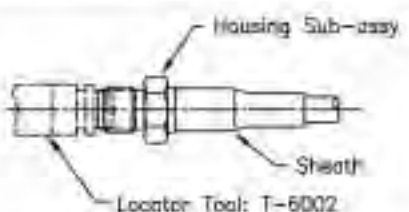
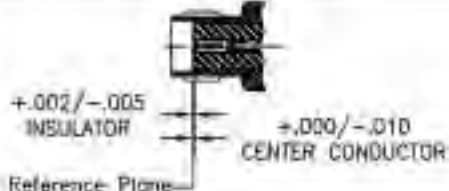
Assembly Instructions AI-107

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|---|--|--|--|--------------------|
| SMA Male straight connector solder and crimp attachment | 141, 142, 223, 303, 400 |  | C/C Holder: Crimp Tool (Plier): Locator Tool: Solder Gauge: Hex Die: Die Change Tool: | T-6057 T-6318 T-6003 T-6052 T-6319 T-6320 | 5730-1 5730-1SF |
| <p>Procedure 1</p> | <p>Prepare Coaxial Cable End</p> <ol style="list-style-type: none"> Trim cable jacket, outer conductor and dielectric to dimensions shown. Place sheath and outer sleeve on cable. Flare outer conductor. |  | | | |
| <p>Procedure 2</p> | <p>Solder Center Contact to Cable Inner Conductor</p> <ol style="list-style-type: none"> Tin inner conductor. Place center contact in holder. Heat center contact with soldering iron and carefully push it over inner conductor to rest firmly against soldering gauge. Remove excess solder or splatter. |  | | | |
| <p>Procedure 3</p> | <p>Attach Cable to Housing Sub-Assy</p> <ol style="list-style-type: none"> Attach locator tool to housing. Place housing in a vise. Insert cable into housing and seat firmly. Slide outer sleeve over outer conductor and crimp on solder in place. |  | | | |
| <p>Procedure 4</p> | <p>Shrink Sheath to Cable</p> <ol style="list-style-type: none"> Position sheath over outer sleeve as shown. Apply indirect heat with thermo gun to shrink sheath. Remove locator tool. |  | | | |
| <p>Procedure 5</p> | <p>Inspect Completed Assembly</p> <ol style="list-style-type: none"> Adherence to assembly steps given should yield tolerances shown. |  | | | |


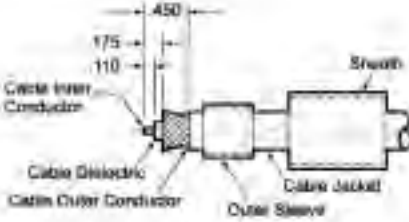

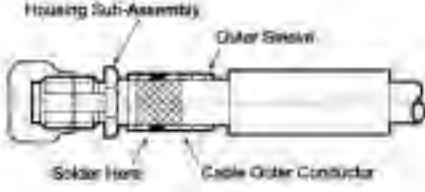
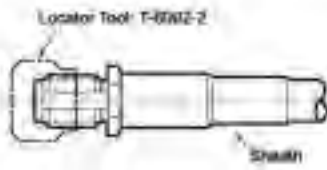
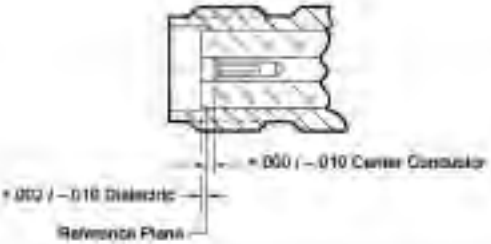
Assembly Instructions AI-108

| Connector Type SMA Male straight connector solder and crimp attachment | Cable Type RG-174, 179, 187, 188, 316 | Connector Components  | Tools Required C/C Holder: Crimp Tool (Plier): Locator Tool: Hex Die: Die Change Tool: | P/N T-6057 T-6318 T-6003 T-6319 T-6320 | Connector P/N 5730-2 5730-2SF |
|--|---|---|--|--|--|
| Procedure 1 | Prepare Coaxial Cable End 1. Place sheath and outer sleeve on cable. 2. Remove end portion of cable jacket to expose cable outer conductor. 3. Trim outer conductor to length. 4. Trim cable dielectric to length. 5. Trim inner conductor to length. 6. Flare outer conductor. |  | | | |
| Procedure 2 | Solder Center Contact to Cable Inner Conductor 1. Tin inner conductor. 2. Place center contact in holder. 3. Heat center contact with soldering iron and carefully push it over inner conductor to rest firmly against cable dielectric. 4. Remove excess solder or splatter. |  | | | |
| Procedure 3 | Crimp Cable to Inner Sleeve 1. Secure locator tool to threads of housing sub-assembly. 2. Position and secure housing sub-assembly in a small bench vise. 3. Insert cable into housing sub-assembly and seal firmly. 4. Slide outer sleeve over flared portion of outer conductor. 5. Hold cable firmly seated and crimp outer sleeve in place. 6. Trim and remove excess outer conductor strands. |  | | | |
| Procedure 4 | Shrink Sheath to Cable 1. Position sheath over outer sleeve as shown. 2. Apply indirect heat with thermo gun to shrink sheath. 3. Remove locator tool. |  | | | |
| Procedure 5 | Inspect Completed Assembly 1. Adherence to assembly steps given should yield tolerances shown. |  | | | |

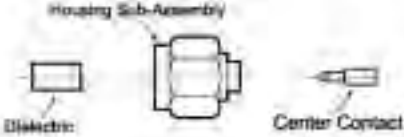
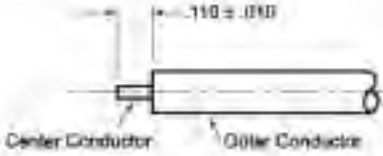
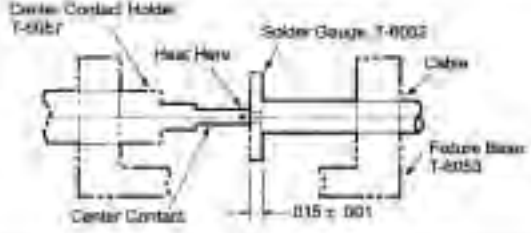
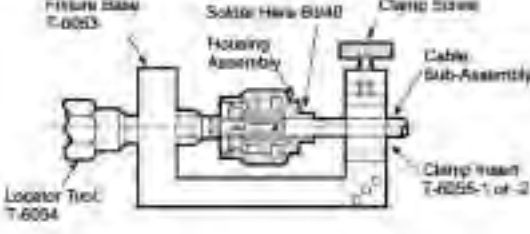
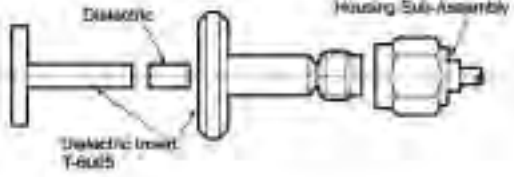
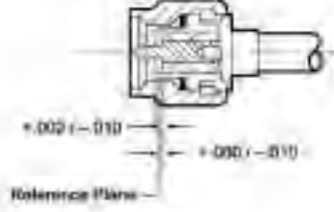
Assembly Instructions AI-109

| Connector Type SMA Female straight connector solder or crimp attachment | Cable Type -1RG: 55/U, 56, 141, 142, 223, 303, 400 -2RG: 174, 179, 187, 188, 316 | Connector Components  | Tools Required D/C Holder: Solder Gauge: Locator Tool: | P/N T-6057 T-6052 T-6002-2 | Connector P/N 5720-1 5720-1SF 5720-2 5720-2SF |
|---|---|--|--|--|--|
| Procedure 1 | Prepare Coaxial Cable End 1. Place sheath and outer sleeve on cable. 2. Remove end portion of cable jacket to expose cable outer conductor. 3. Trim outer conductor to length. 4. Trim cable dielectric to length. 5. Trim inner conductor to length. 6. Flare outer conductor. |  | | | |
| Procedure 2 | Solder Center Contact to Cable Inner Conductor 1. Tin inner conductor. 2. Place center contact in holder. 3. Heat center contact with soldering iron and carefully push it over inner conductor to rest firmly against soldering gauge. 4. Remove excess solder on spatter. |  | | | |
| Procedure 3 | Crimp Cable to Inner Sleeve 1. Secure locator tool to threads of housing sub-assembly. 2. Position and secure housing sub-assembly in a small bench vise. 3. Insert cable into housing sub-assembly and seat firmly. 4. Slide outer sleeve over flared portion of outer conductor. 5. Hold cable firmly seated and crimp outer sleeve in place. 6. Trim and remove excess outer conductor strands. |  | | | |
| Procedure 4 | Shrink Sheath to Cable 1. Position sheath over outer sleeve as shown. 2. Apply indirect heat with thermo gun to shrink sheath. 3. Remove locator tool. |  | | | |
| Procedure 5 | Inspect Completed Assembly 1. Adherence to assembly steps given should yield tolerances shown. |  | | | |

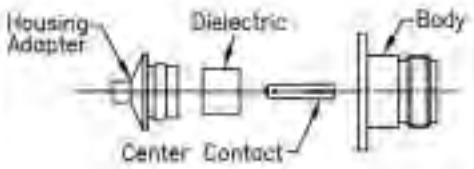
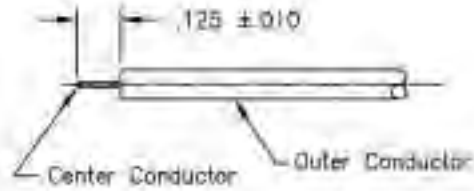
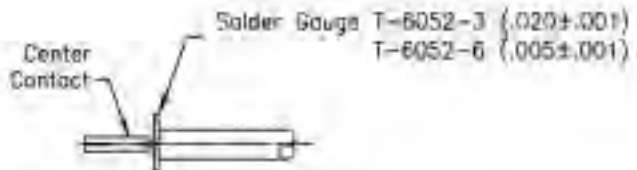
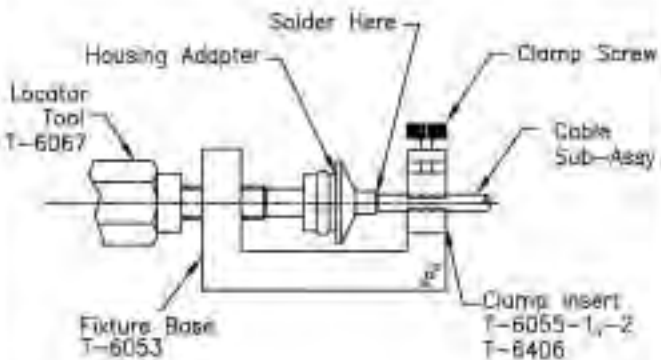
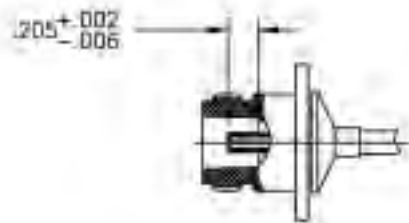
Assembly Instructions AI-110

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|---|---|--|
| <p>SMA female straight connector solder or crimp attachment.</p> | <p>-1 RG 55/U, 58, 141, 142, 223, 303, 400 -2 RG 174, 179, 187, 188 & 316.</p> |  | <p>Center Contact Holder: T-6057 Solder Gauge: T-6052 Locator Tool: Tensolite-T-6002-2</p> | <p>Tensolite-5721-1SF Tensolite-5721-1 Tensolite-5721-2SF Tensolite-5721-2</p> |
| <p>Procedure 1</p> | <p>Prepare Coaxial Cable</p> <ol style="list-style-type: none"> Trim cable jacket, outer conductor and dielectric to dimensions shown. Place sheath and outer sleeve on cable. Flare outer conductor. |  |  | |
| <p>Procedure 2</p> | <p>Solder Center Contact to Cable Inner Conductor</p> <ol style="list-style-type: none"> Trim inner conductor. Place center contact in holder. Heat center contact with soldering iron and carefully push it over inner conductor to rest firmly against soldering gauge. Remove excess solder or spatter. |  |  | |
| <p>Procedure 3</p> | <p>Attach Cable to Housing Sub-Assembly</p> <ol style="list-style-type: none"> Attach locator tool to housing. Place housing in a vise. Insert cable into housing and seat firmly. Slide outer sleeve over conductor and crimp or solder in place. | <p>Shrink Sheath to Cable</p> <ol style="list-style-type: none"> Position sheath over outer sleeve as shown. Apply indirect heat with thermo gun to shrink sheath. Remove locator tool. | <p>Inspect Completed Assembly</p> <ol style="list-style-type: none"> Adherence to assembly steps given should yield tolerances shown. |  |
| <p>Procedure 4</p> | | | | |
| <p>Procedure 5</p> | | | | |

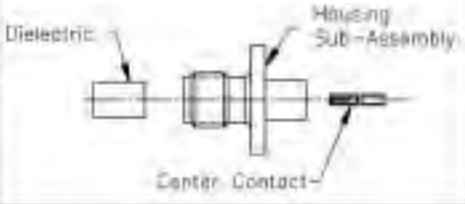
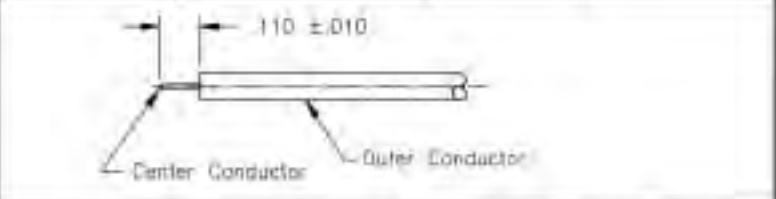
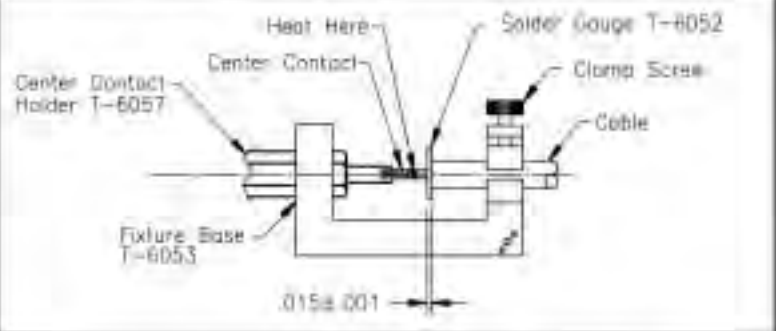
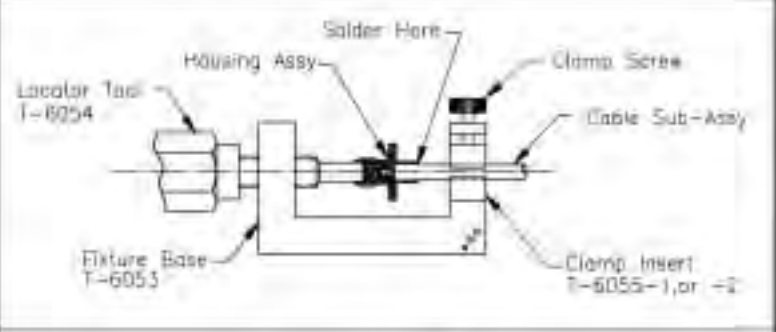
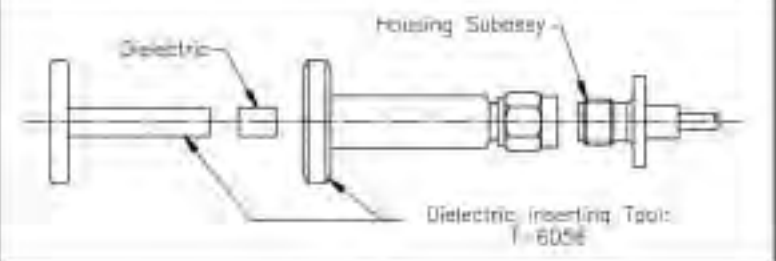
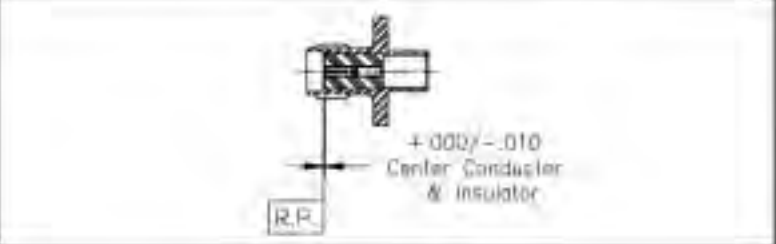
Assembly Instructions AI-111

| Connector Type | Cable Type | Connector Components | Tools Required | Connector PIN |
|---|--|--|---|---|
| SMA male connector straight solder attachment | -1 .141 semi-rigid -2 .085 semi-rigid -3 .141 micro-porous |  | Fixture Base: Tensolite-T-6053 Clamp Inserts: Tensolite-T-6055-1 or -2 Center Contact Holder: Tensolite-T-6057 Soldering Gauge: Tensolite-T-6052 | Tensolite-5285-1 Tensolite-5285-2 Tensolite-5285-3 And SF Models |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge and solder. |  | | |
| Procedure 3 | Attach Cable to Housing 1. Place housing onto cable and place cable into soldering fixture and tighten locator to seat firmly against cable. 2. Slide housing over nose of locator and solder in place. |  | | |
| Procedure 4 | Installing Dielectric into Housing 1. Attach insert tool to housing. 2. Insert dielectric into tool and press into place. 3. Remove insert tool. |  | | |
| Procedure 5 | Inspection of Completed Connector Assembly 1. Adherence to assembly steps given will yield tolerances shown. |  | | |

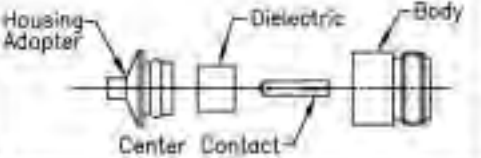
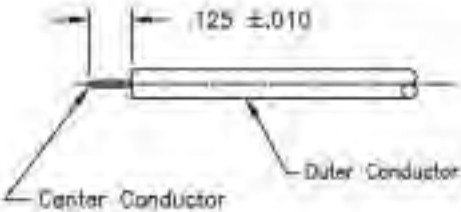
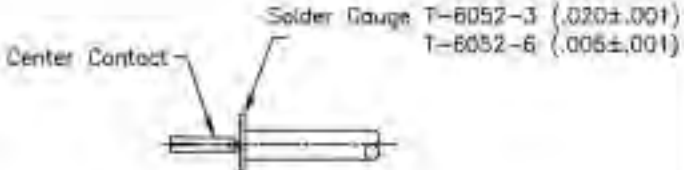
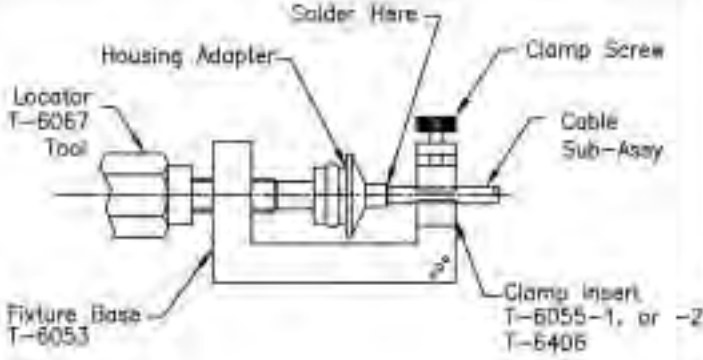
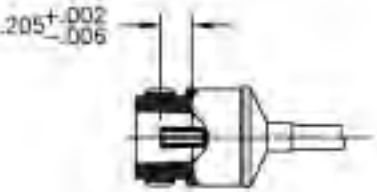
Assembly Instructions AI-112

| Connector Type "N" Female Flange mount, Direct solder Attachment. | Cable Type -15F Ø .141 5/R -35F Ø .141 5/R Micro-Porous -25F Ø .085 5/R -45F Ø .250 5/R | Connector Components  | Tools Required Locator Tool: Fixture Base: Clamp Insert: Clamp Insert: Soldering Gauge: | P/N T-6067 T-6053 T-6055-1,-2 T-8406 T-6052-3,-6 | Connector P/N 8012-15F 8012-25F 8012-35F 8012-45F | | | | | | | |
|---|---|--|---|--|--|------|----------|------|----------|------|----------|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | | | | | | | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge and solder. <table border="1" data-bbox="386 850 722 982"> <thead> <tr> <th>CONNECTOR</th> <th>TOOL (GAUGE)</th> </tr> </thead> <tbody> <tr> <td>-15F</td> <td>T-6052-3</td> </tr> <tr> <td>-25F</td> <td>T-6052-6</td> </tr> <tr> <td>-35F</td> <td>T-6052-3</td> </tr> <tr> <td>-45F</td> <td>T-6052-3</td> </tr> </tbody> </table> | CONNECTOR | TOOL (GAUGE) | -15F | T-6052-3 | -25F | T-6052-6 | -35F | T-6052-3 | -45F | T-6052-3 |  |
| CONNECTOR | TOOL (GAUGE) | | | | | | | | | | | |
| -15F | T-6052-3 | | | | | | | | | | | |
| -25F | T-6052-6 | | | | | | | | | | | |
| -35F | T-6052-3 | | | | | | | | | | | |
| -45F | T-6052-3 | | | | | | | | | | | |
| Procedure 3 | Attach Cable to Housing 1. Place housing onto cable, place cable into soldering fixture, then tighten locator to seat firmly against cable. 2. Slide housing over nose of locator and solder in place. |  | | | | | | | | | | |
| Procedure 4 | Attach Body to Housing 1. Insert the dielectric, counter bore toward front over the center conductor into the housing. 2. Apply locator tool to the housing adapter threads. 3. Engage threads of housing adapter and body, and torque to 45 inch pounds. |  | | | | | | | | | | |

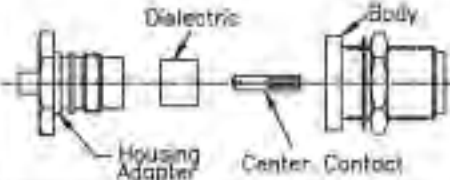
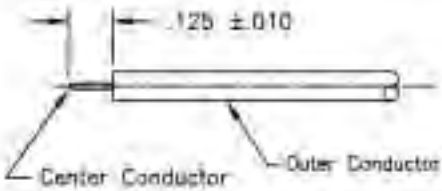
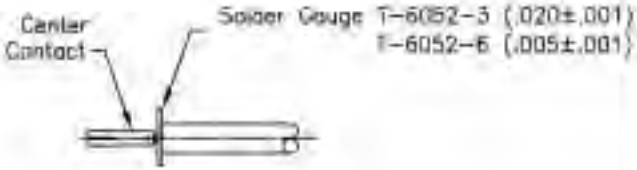
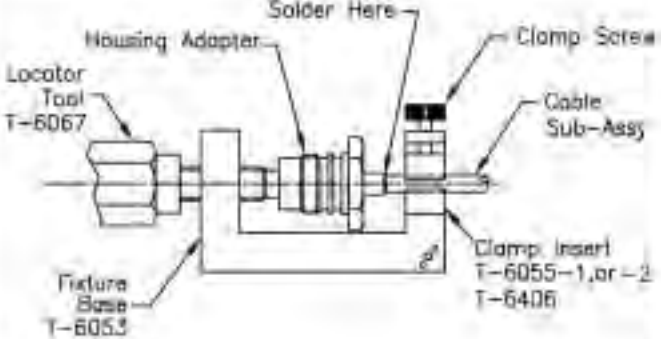
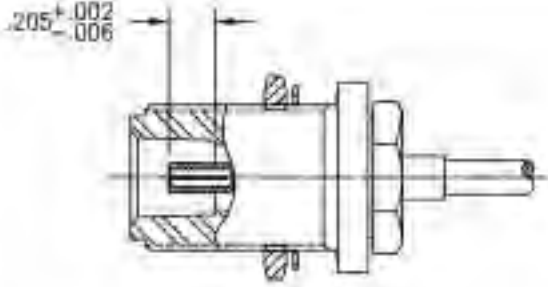
Assembly Instructions AI-113

| Connector Type SMA Female Straight direct Solder- Attachment | Cable Type -1 Ø .141 S/R -2 Ø .085 S/R -3 Ø .141 M/P | Connector Components  | Tools Required Fixture Base Clamp Inserts Center Contact Holder Solder Gauge Locator Tool Dielectric Inserting Tool | P/N T-6053 T-6050-1,-2 T-6057 T-6052 T-6054 T-6056 | Connector P/N 5228-1,-2,-3 5229-1,-2,-3 5286-1,-2,-3 5289-1,-2,-3 and SF Models |
|--|---|---|---|--|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seal firmly against soldering gauge and solder. |  | | | |
| Procedure 3 | Attach Cable to Housing 1. Place housing onto cable, place cable into soldering fixture, then tighten locator to seat firmly against cable. 2. Slide housing over nose of locator and solder in place. |  | | | |
| Procedure 4 | Attach Body to Housing 1. Attach insert tool to housing. 2. Insert dielectric into tool and press into place. 3. Remove insert tool. |  | | | |
| Procedure 5 | Inspection of Completed Connector Assembly 1. Adherence to the steps will yield tolerances shown. |  | | | |

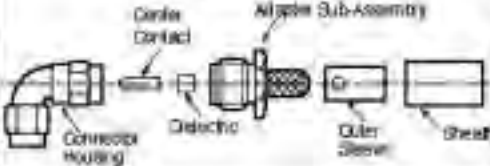
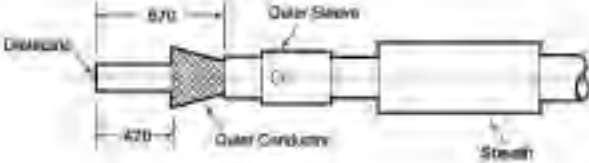
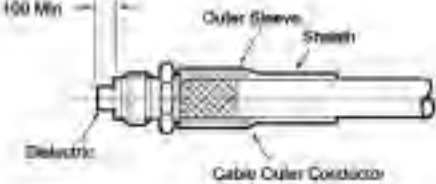
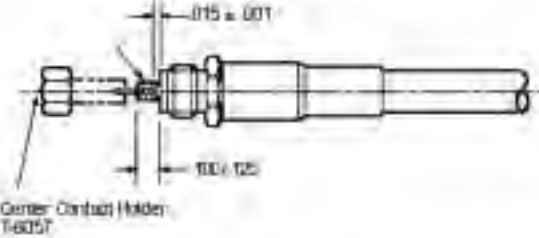
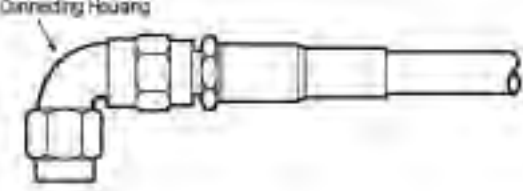
Assembly Instructions AI-114

| Connector Type "N" Female Direct solder Attachment | Cable Type -1 Ø .141 5/R -3 Ø .141 M/P Micro-Focus -2 Ø .085 5/R -4 Ø .250 5/R | Connector Components  | Tools Required Locator Tool: Fixture Base: Clamp Insert: Clamp Insert: Soldering Gauge: | P/N T-6067 T-6053 T-6055-1,-2 T-6406 T-6052 | Connector P/N 8010-1SF 8010-2SF 8010-3SF 8010-4SF | | | | | | | |
|--|---|---|---|---|--|----------|------|----------|------|----------|------|----------|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | | | | | | | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge and solder. |  <table border="1" data-bbox="370 877 704 1008"> <thead> <tr> <th>CONNECTOR</th> <th>TOOL (GAUGE)</th> </tr> </thead> <tbody> <tr> <td>-1SF</td> <td>T-6052-3</td> </tr> <tr> <td>-2SF</td> <td>T-6052-6</td> </tr> <tr> <td>-3SF</td> <td>T-6052-3</td> </tr> <tr> <td>-4SF</td> <td>T-6052-3</td> </tr> </tbody> </table> | CONNECTOR | TOOL (GAUGE) | -1SF | T-6052-3 | -2SF | T-6052-6 | -3SF | T-6052-3 | -4SF | T-6052-3 |
| CONNECTOR | TOOL (GAUGE) | | | | | | | | | | | |
| -1SF | T-6052-3 | | | | | | | | | | | |
| -2SF | T-6052-6 | | | | | | | | | | | |
| -3SF | T-6052-3 | | | | | | | | | | | |
| -4SF | T-6052-3 | | | | | | | | | | | |
| Procedure 3 | Attach Cable to Housing 1. Place housing onto cable, place cable into soldering fixture, then tighten locator to seat firmly against cable. 2. Slide housing over nose of locator and solder in place. |  | | | | | | | | | | |
| Procedure 4 | Attach Body to Housing 1. Insert the dielectric, counter bore toward front over the center conductor into the housing. 2. Apply locator tool to the housing adapter threads. 3. Engage threads of housing adapter and body, and torque to 45 inch pounds. |  | | | | | | | | | | |

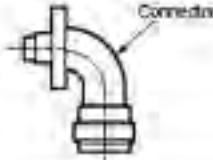
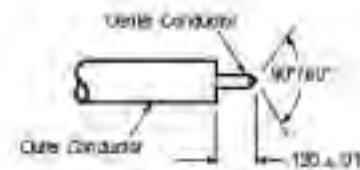
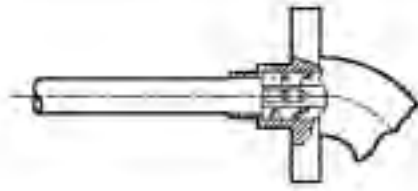
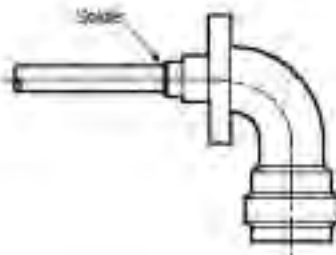
Assembly Instructions AI-115

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N | | | | | | | |
|--|--|---|--|--|--|----------|------|----------|------|----------|------|----------|
| N ^T Female Direct solder Attachment | -15F Ø .141 S/R -35F Ø .141 S/R Micro porous -25F Ø .085 S/R -45F Ø .250 S/R |  | Locator Tool: Fixture Base: Clamp Insert: Soldering Gauge: Clamp Insert: | T-6067 T-6053 T-6055-1,-2 T-6052-3,-6 T-6406 | 8011-15F 8011-25F 8011-35F 8011-45F | | | | | | | |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | | | | | | | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge and solder. |  <table border="1" data-bbox="365 903 698 1029"> <thead> <tr> <th>CONNECTOR</th> <th>TOOL (GAUGE)</th> </tr> </thead> <tbody> <tr> <td>-15F</td> <td>T-6052-3</td> </tr> <tr> <td>-25F</td> <td>T-6052-6</td> </tr> <tr> <td>-35F</td> <td>T-6052-3</td> </tr> <tr> <td>-45F</td> <td>T-6052-3</td> </tr> </tbody> </table> | CONNECTOR | TOOL (GAUGE) | -15F | T-6052-3 | -25F | T-6052-6 | -35F | T-6052-3 | -45F | T-6052-3 |
| CONNECTOR | TOOL (GAUGE) | | | | | | | | | | | |
| -15F | T-6052-3 | | | | | | | | | | | |
| -25F | T-6052-6 | | | | | | | | | | | |
| -35F | T-6052-3 | | | | | | | | | | | |
| -45F | T-6052-3 | | | | | | | | | | | |
| Procedure 3 | Attach Cable to Housing 1. Place housing onto cable, place cable into soldering fixture, then tighten locator to seat firmly against cable. 2. Slide housing over nose of locator and solder in place. |  | | | | | | | | | | |
| Procedure 4 | Attach Body to Housing 1. Insert the dielectric counter bore toward front over the center conductor into the housing. 2. Apply locator tool to the housing adapter threads. 3. Engage threads of housing adapter and body, and torque to 45 inch-pounds. |  | | | | | | | | | | |

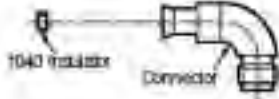
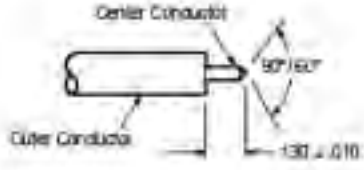
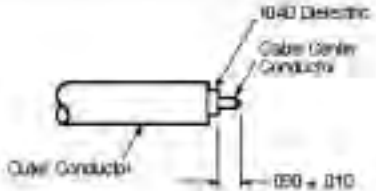
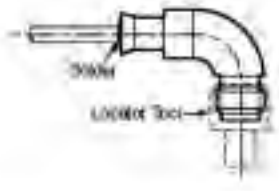
Assembly Instructions AI-116

| Connector Type SMA male radius right angle crimp or solder attachment | Cable Type 1 RG 55, 58, 141, 142, 223, 303, and 400 2 RG 174, 179, 188, 187, and 316 | Connector Components  | Tools Required Center Contact Holder: Tensolite-T-8057 Solder Gauge: Tensolite-T-8052 Crimp Tool: Tensolite-T-8061-1 (GSC DIE 205/219) FOR-1 and Tensolite-T-8061-2 (GSC DIE 128) FOR-2 | Connector P/N Tensolite-5750-1CC Tensolite-5750-1CCSF Tensolite-5750-2CC Tensolite-5750-2CCSF |
|---|---|--|---|--|
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">1</div> | Prepare Coaxial Cable End 1. Place sheath and outer sleeve on cable. 2. Remove portion of cable jacket to expose cable conductor. 3. Trim outer conductor to length. 4. Flare outer conductor. |  | | |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">2</div> | Attaching Adapter Sub-Assembly to Cable 1. Insert cable into adapter sub-assembly and seat firmly. Note: Cable dielectric should extend 100 min. beyond the end of the adapter sub-assembly. 2. Slide outer sleeve over cable outer conductor. 3. Crimp outer sleeve in place, or solder. 4. Trim and remove excess outer conductors. 5. Position sheath over outer sleeve and heat with thermo gun to shrink. |  | | |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">3</div> | Attaching Center Conductor to Cable Center Conductor 1. Trim cable dielectric flush with adapter sub-assembly. 2. Trim cable center conductor to .100/.125 and fin. 3. Place center conductor in holder. 4. Heat center contact with soldering iron and carefully push it over inner conductor to rest firmly against soldering gauge. 5. Remove excess solder or spatter. 6. Install dielectric over soldered center conductor. |  | | |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">4</div> | Attaching Connector Housing to Adapter Sub-Assembly 1. Insert adapter-cable assembly into connector housing. 2. Apply Loctite to threads and torque to 30 inch pounds. |  | | |

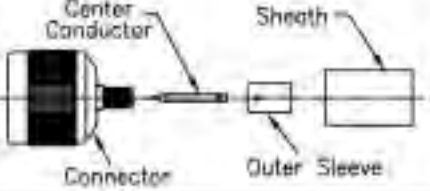
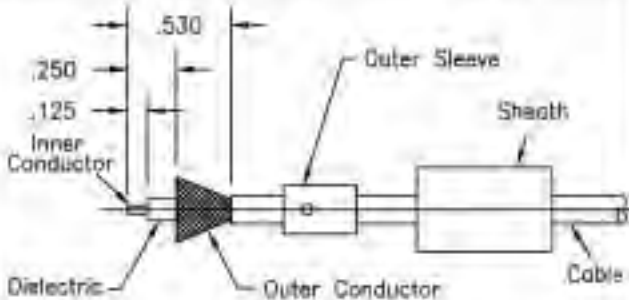
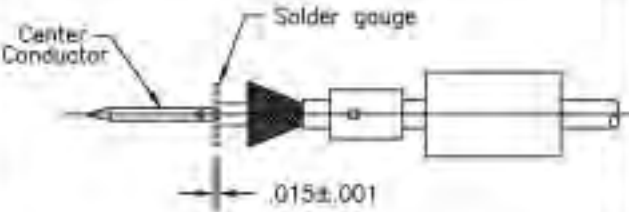
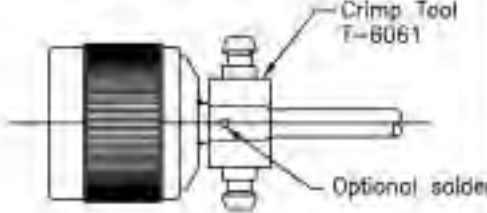
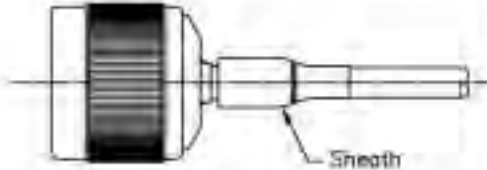
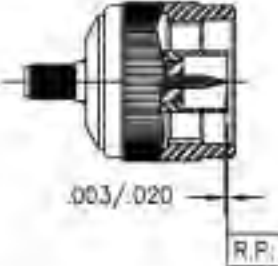
Assembly Instructions AI-117

| Connector Type TNC female radius right angle direct solder attachment | Cable Type 141 semi-rigid | Connector Components  | Tools Required None | Connector P/N Tensolite-5031-1 |
|---|---|--|-----------------------------------|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | |
| Procedure 2 | Attach Cable to Connector 1. Plug cable into connector and bottom. |  | | |
| Procedure 3 | Soldering Cable to Connector 1. Maintain position of cable firmly against the connector and solder. |  | | |

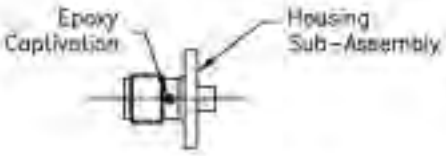
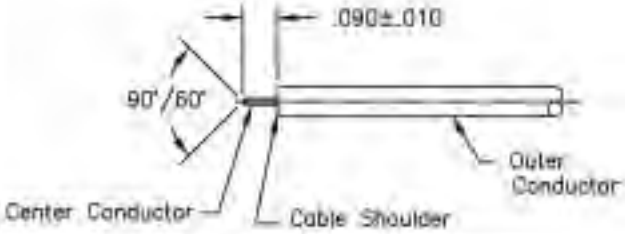
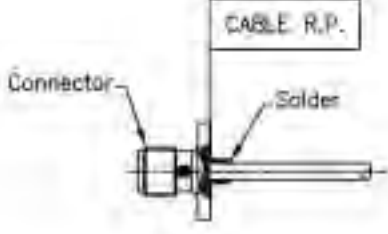
Assembly Instructions AI-118

| Connector Type SMA female radius right angle, solder attachment | Cable Type 141 semi-rigid RG 402 | Connector Components  | Tools Required Locator Tool: Tensolite-T-6002-2 | Connector P/N Tensolite-5235-1 Tensolite-5235-1CC Tensolite-5235-1SF Tensolite-5235-1CCSF |
|---|---|--|---|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor as shown. |  | | |
| Procedure 2 | Install 1040 Insulator 1. Slide 1040 insulator over conductor flush against cable. |  | | |
| Procedure 3 | Attach Cable to Connector 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. |  | | |

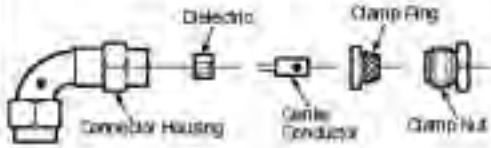
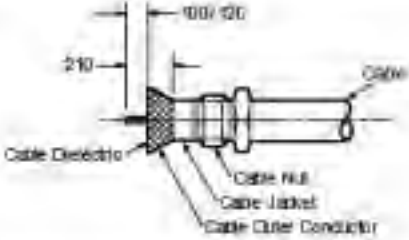
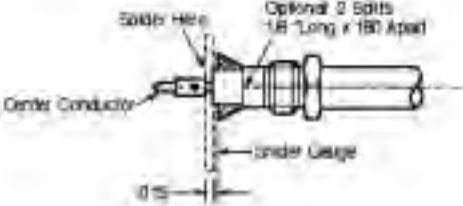
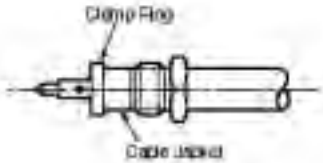
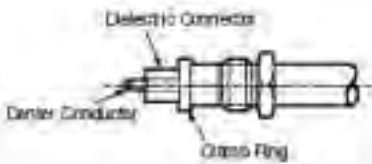
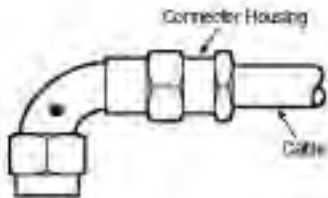
Assembly Instructions AI-119

| Connector Type Type "N" Male Connector Crimp or Solder Attachment | Cable Type RG- 55, 58, 141, 142, 223, 303, & 400 | Connector Components  | Tools Required Crimp tool: Solder gauge: | P/N T-6061 (650 DE) 205/719 T-6052 | Connector P/N 8041-15F |
|--|--|--|---|--|----------------------------------|
| Procedure 1 | Preparation Coaxial Cable 1. Place sheath and outer sleeve on cable. 2. Remove end portion of cable jacket to expose cable outer conductor. 3. Trim outer conductor to length. 4. Trim cable dielectric to length. 5. Trim inner conductor to length. 6. Flare outer conductor. |  | | | |
| Procedure 2 | Solder Center Contact to Cable 1. Tin inner conductor. 2. Place center conductor onto inner conductor to rest against solder gauge. 3. Solder in place. 4. Remove excess solder. |  | | | |
| Procedure 3 | Attach Cable to Connector Body 1. Insert cable into body seat firmly. 2. Slide outer sleeve over flared position of outer conductor. 3. Hold cable firmly seated and crimp outer sleeve in place. 4. Optional: Heat outer sleeve and apply solder through solder hole in sleeve. |  | | | |
| Procedure 4 | Shrink Sheath to Cable 1. Position sheath over outer sleeve. 2. Apply indirect heat with thermo gun to shrink sheath. |  | | | |
| Procedure 5 | Inspection of Completed Connector Assembly 1. Adherence to assembly steps should yield |  | | | |

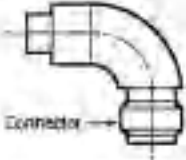
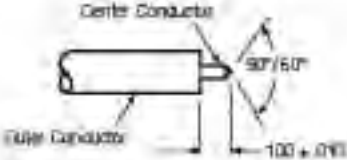
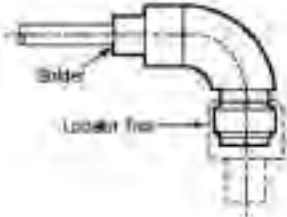
Assembly Instructions AI-120

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|---|-----------------------|--|
| <p>SMA Ferrule Four or Two Hole Flange Solder Attachment</p> | <p>Ø .085-5/R</p> |  <p>Epoxy Captivation Housing Sub-Assembly</p> | <p>No tools req'd</p> | <p>5225-20C 5224-20C 5225-20CSF 5224-20CSF</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation Coaxial Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric to dimension as shown. 2. Paint center conductor as shown. |  <p>Center Conductor Cable Shoulder Outer Conductor</p> | | |
| <p>Procedure</p> <p>2</p> | <p>Solder Center Contact to Cable</p> <ol style="list-style-type: none"> 1. Insert cable into body until cable shoulder is flush w/ cable ref. plane. 2. Solder. |  <p>Connector Solder CABLE R.P.</p> | | |

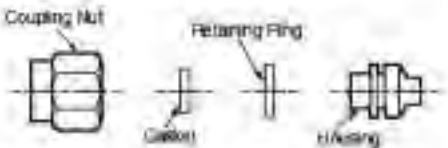
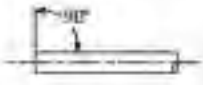
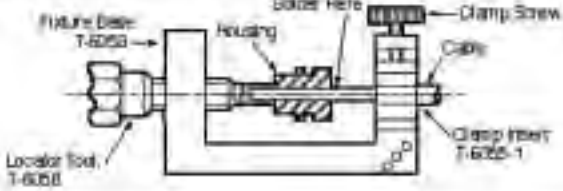
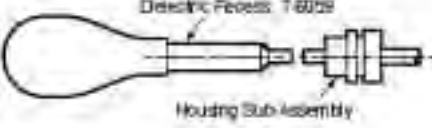
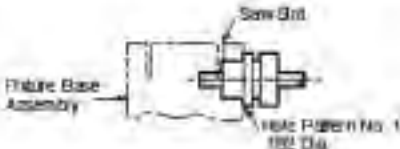
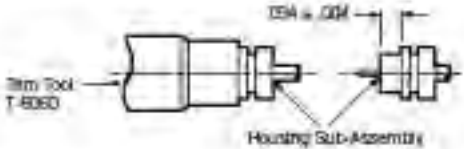


Assembly Instructions AI-121

| Connector Type SMA female radius right angle cable clamp attachment | Cable Type 1 RG 55, 58, 141, 142, 223, 305, 400 2 RG 174, 179, 187, 198, 316 | Connector Components  | Tools Required Soldering Gauge: Tensolite-T-6052 | Connector P/N Tensolite-5752-1CC Tensolite-5752- 1CCSF Tensolite-5752-2CC Tensolite-5752- 2CCSF |
|--|--|--|---|--|
| Procedure 1 | Preparation of Cable 1. Place clamp nut onto cable. 2. Trim outer conductor and cable inner conductor to length shown. 3. Flare outer conductor. |  | | |
| Procedure 2 | Solder on Center Conductor 1. Slide center conductor of connector on center conductor of cable and position with solder gauge. 2. Solder. |  | | |
| Procedure 3 | Install Clamp Ring 1. Slide on clamp ring over dielectric to be positioned flush (as shown). |  | | |
| Procedure 4 | Install Dielectric Connector 1. Slide on dielectric connector over center conductor flush with clamp ring. |  | | |
| Procedure 5 | Insert Cable into Body 1. Housing and torque clamp nut to 25 inch pounds. |  | | |


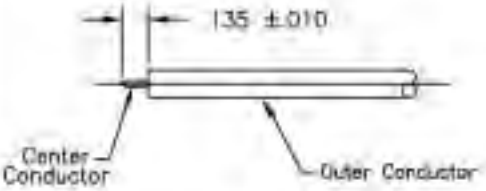
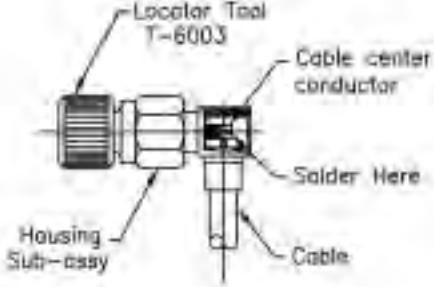
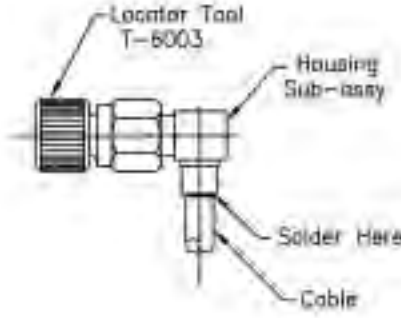
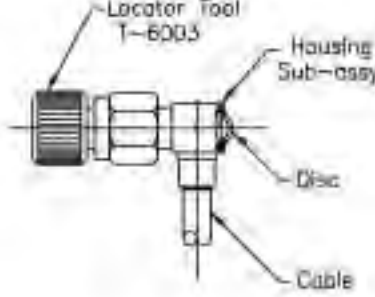
Assembly Instructions AI-122

| Connector Type SMA female radius right angle cable solder attachment | Cable Type .085 semi-rigid | Connector Components  | Tools Required Locator Tool, Tensolite-T-6002-2 | Connector P/N Tensolite-5235-2 Tensolite-5235-2CC Tensolite-5235-2SF Tensolite-5235-2CCSF |
|--|---|--|--|--|
| Procedure <div style="font-size: 48pt; font-weight: bold; text-align: center;">1</div> | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor as shown. | |  | |
| Procedure <div style="font-size: 48pt; font-weight: bold; text-align: center;">2</div> | Attach Cable to Conductor 1. Screw on locator tool to connector. 2. Plug cable into connector and bottom. 3. Solder. 4. Remove locator tool. | |  | |

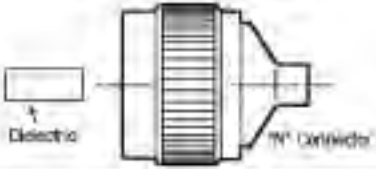
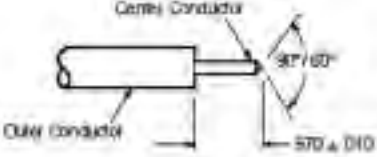
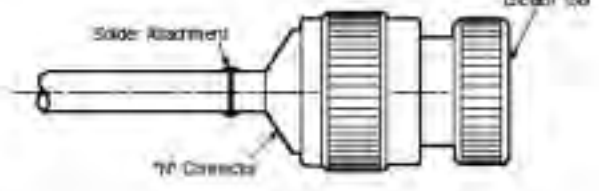
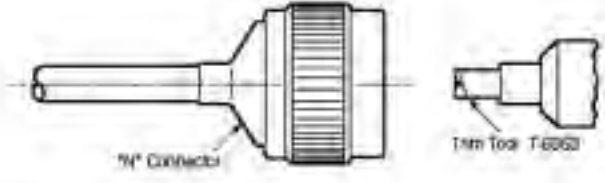
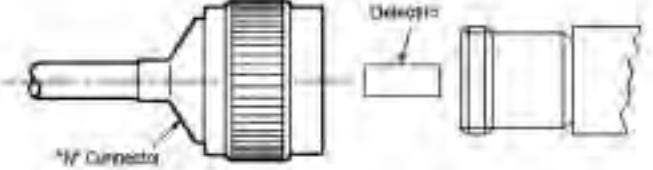
Assembly Instructions AI-123

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|---|---|---|
| SMA straight male connector direct solder attachment | 14 (semi-rigid |  | Fixture Base: Tensolite-T-6053 Clamp Insert: Tensolite-T-6055-1 Locator Tool, Tensolite-T-6058 Dielectric Recess Tool: Tensolite-T-6059 Trim Tool (Optional): Tensolite-T-6060. | Tensolite-5319 Tensolite-5319-1 Tensolite-5319-SF Tensolite-5319-1BF |
| Procedure 1 | Preparation of Cable 1. Trim cable end square and de-burr |  | | |
| Procedure 2 | Attaching Cable to Housing 1. Place housing on cable and the cable into the fixture as shown 2. Tighten clamp screw and locator tool firmly against the end of the cable. 3. Slide housing against locator tool and solder in place |  | | |
| Procedure 3 | Compress Expanded Dielectric 1. Trim extended or exposed dielectric flush with end of the cable outer conductor. 2. Place dielectric recess tool on dielectric and push to recess dielectric within cable outer conductor. |  | | |
| Procedure 4 | Remove Outer Conductor and Dielectric 1. Insert housing into fixture base hole pattern #1. 2. Saw through outer conductor and into dielectric while rotating cable. 3. Remove cable and cut through dielectric with knife. 4. Remove outer conductor and dielectric. |  | | |
| Procedure 5 | Trim End of Housing Sub-Assembly (Optional) 1. Place trim tool over center conductor projection and rotate to face off front face. 2. Inspect for dimensional tolerance $.094 \pm .004$. |  | | |
| Procedure 6 | Shape Center Conductor 1. Trim to length as shown. 2. File blunt end of center conductor to a 75° - 90° cone. |  | | |
| Procedure 7 | Secure Coupling Nut to Housing 1. Place retaining ring and gasket on housing. 2. Compress retaining ring with retaining ring pliers. 3. Push coupling nut onto housing and over retaining ring. 4. Coupling nut should rotate freely. |  | | |

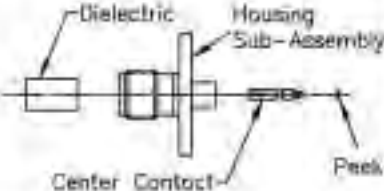
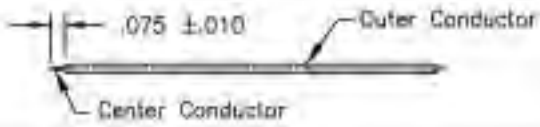
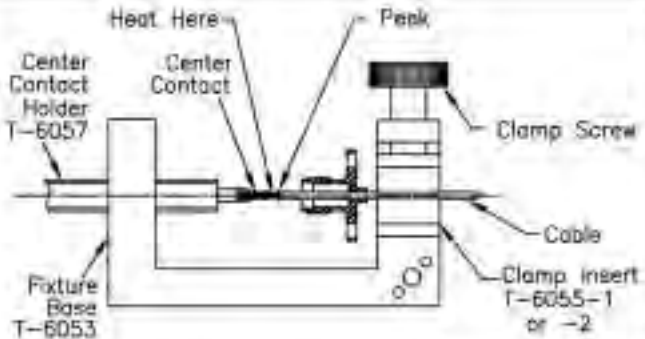
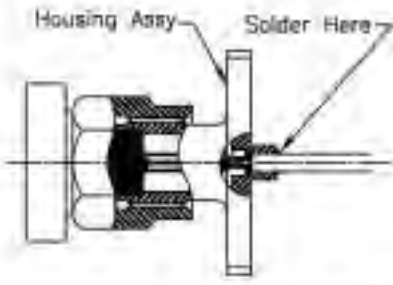
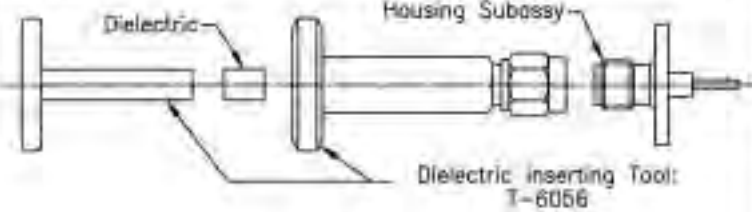
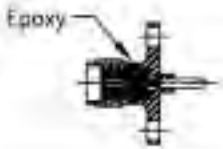
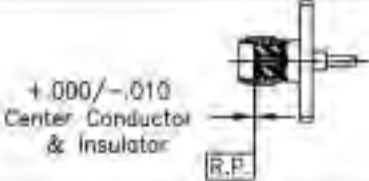
Assembly Instructions AI-124

| Connector Type SMA Male Miter R/A Connector Solder Attachment | Cable Type -1 Ø .141 S/R -2 Ø .085 S/R -3 Ø .141 S/R Micro Porous | Connector Components  | Tools Required Locator Tool: | P/N T-6003 | Connector P/N 5850-1CC 5850-1CCSF 5850-2CC 5850-2CCSF 5850-3CC 5850-3CCSF |
|---|---|--|--|----------------------|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Soldering of Center Contact to Cable Center Conductor 1. Secure locator tool to threads of coupling nut. 2. Tin center conductor of cable.* 3. Position cable center conductor in center conductor slot. 4. Place pre-heated soldering iron on tip of contact and solder as shown. * For micro-porous cable, do not use flux or solvent in cable dielectric area. |  | | | |
| Procedure 3 | Soldering of Housing Sub-Assembly to Cable 1. Solder housing sub-assembly to cable as shown. |  | | | |
| Procedure 4 | Seal Opening in Housing 1. Position disc as shown in housing sub-assembly. 2. Apply and solder in place. (Do not allow solder to penetrate housing). Option: Disc may be epoxied into place. Do not allow epoxy to penetrate inside housing. |  | | | |

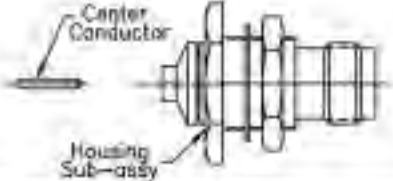
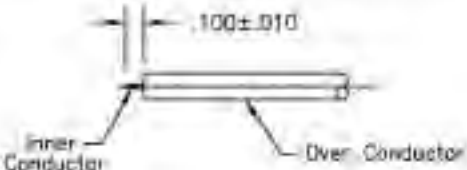
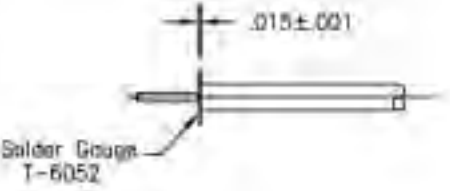
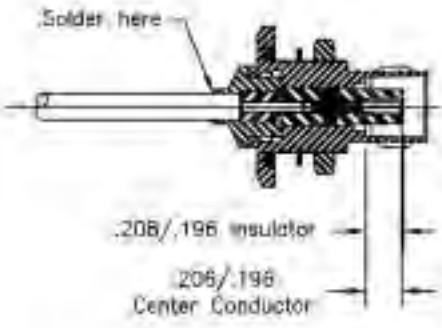
Assembly Instructions AI-125

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|--|---|--|
| <p>N male connector solder attachment</p> | <p>.250 semi-rigid</p> |  | <p>Trim Tool: Tensolite-T-6063 Dielectric Tool: Tensolite-T-6064 Locator Tool: Tensolite-T-6086</p> | <p>Tensolite-8009-4 Tensolite-8009-48F</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric as shown. 2. Peel center conductor as shown. |  | | |
| <p>Procedure</p> <p>2</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> 1. Attach locator tool to connector. 2. Insert cable into connector as shown. 3. Solder in place as shown. 4. Remove locator tool. |  | | |
| <p>Procedure</p> <p>3</p> | <p>Trim Teflon</p> <ol style="list-style-type: none"> 1. Trim dielectric of cable using a trimming tool, Tensolite-T-6063. |  | | |
| <p>Procedure</p> <p>4</p> | <p>Insert Dielectric</p> <ol style="list-style-type: none"> 1. Insert dielectric using a dielectric loading tool, Tensolite-T-6064. |  | | |

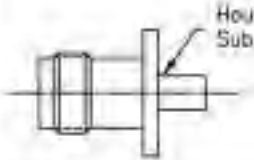
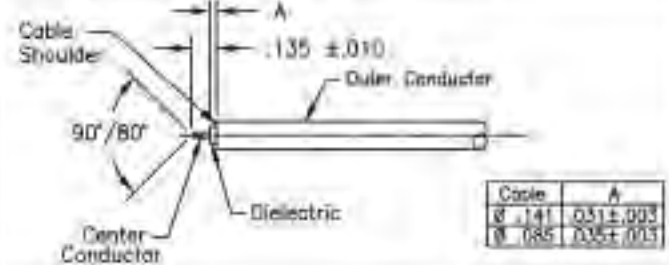
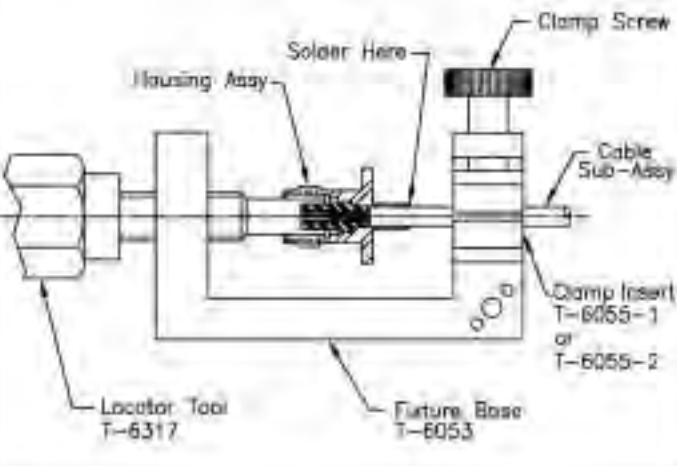
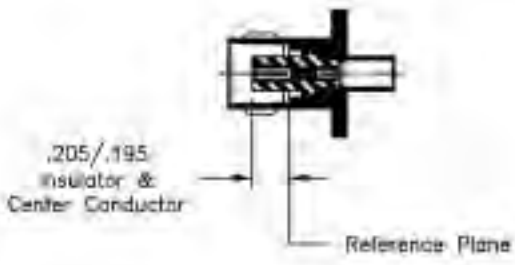
Assembly Instructions AI-132

| Connector Type SMA Female Straight Direct Solder Attachment | Cable Type Ø .047 SEM-RIGID | Connector Components  | Tools Required Fixture Base: T-6053 Center Contact Holder: T-6057 Locator Tool: T-6054 Dielec. Inserting Tool: T-6056 | P/N T-6053 T-6055-1,-2 T-6057 T-6054 T-6056 | Connector P/N 5228-5CC 5228-5CCSF 5229-5CC 5229-5CCSF |
|---|---|---|---|--|---|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown | |  | | |
| Procedure 2 | Soldering of Center Conductor to Cable Inner Conductor 1. Slide housing over cable. 2. Tin inner conductor of cable. 3. Place (peek) insulator on inner conductor flush with end of outer conductor. 4. Place center contact in holder heat center contact & push it over inner conductor of cable to rest firmly against insulator. 5. Remove excess solder or splatter. | |  | | |
| Procedure 3 | Attach Cable to Housing 1. Slide connector housing over center conductor until it stops. 2. Secure end stop to threads of housing. 3. Solder cable to housing as shown. | |  | | |
| Procedure 4 | Installing Dielectric into Housing 1. Attach insert tool to housing. 2. Insert dielectric into tool and press into place. 3. Remove insert tool. | |  | | |
| Procedure 5 | Captive Center Conductor 1. Epoxy connector with Sigma VF type HV. 2. Allow epoxy to cure for 24 hrs. at 75°F min. before using. | |  | | |
| Procedure 6 | Inspection of Completed Connector Assembly 1. Adherence to the steps will yield tolerances shown. | |  | | |

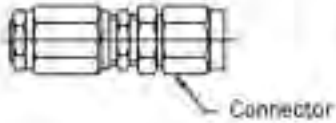
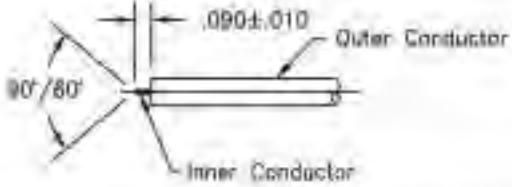
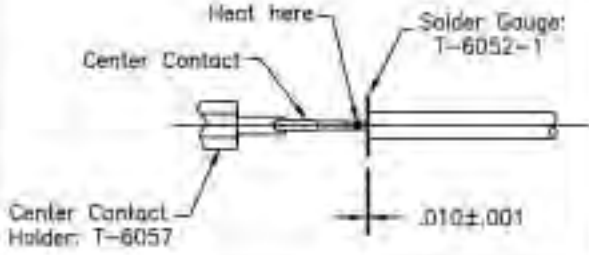
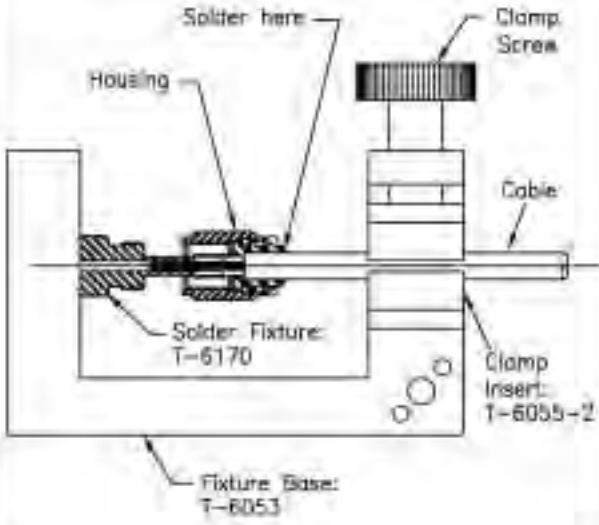

Assembly Instructions AI-136

| Connector Type TNC Female Bulkhead Feedthrough Cable | Cable Type -1SF Ø .141 5/R -2SF Ø .085 5/R -3SF Ø .141 5/R Micro Porous | Connector Components  | Tools Required Soldering Gauge: | P/N T-6052 | Connector P/N B011-1SF B011-2SF B011-3SF |
|--|---|--|---|----------------------|--|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Attach Center Conductor to Cable 2. Slide center conductor in place as shown over inner conductor of cable & seat firmly against solder gauge & solder. |  | | | |
| Procedure 3 | Attach Cable to Housing Sub-Assembly 1. Insert inner conductor through adapter to housing center conductor & seat firmly as shown and solder. |  | | | |
| | | | | | |

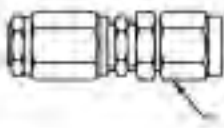
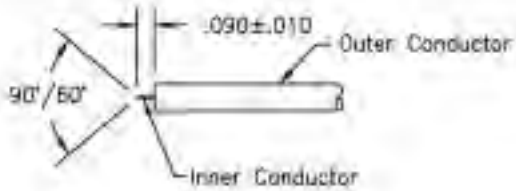
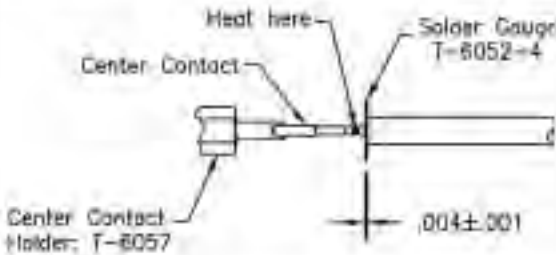
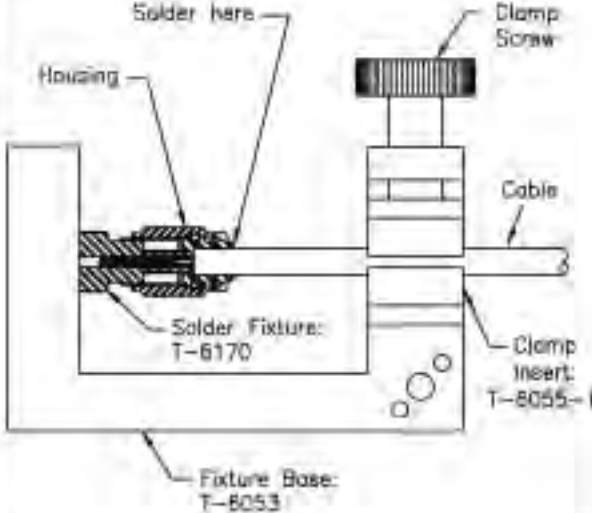

Assembly Instructions AI-159

| Connector Type TNC Female Straight Cable Jack Direct Solder Attachment | Cable Type -1 Ø .141 S/R -2 Ø .085 S/R -3 Ø .141 S/R Micro Perfor | Connector Components  Housing Sub-Assembly | Tools Required Fixture Base: Locator Tool: Clamp Inserts: | P/N T-6053 T-6317 T-6055-1 or -2 | Connector P/N 9012-1 & -1SF 9012-2 & -2SF 9012-3 & -3SF | | | | | | |
|--|---|---|---|--|---|---------|---|------|-------------|------|-------------|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  <table border="1" data-bbox="1291 567 1469 640"> <thead> <tr> <th>Cable Ø</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>.141</td> <td>0.51 ± .003</td> </tr> <tr> <td>.085</td> <td>0.35 ± .013</td> </tr> </tbody> </table> | | | | Cable Ø | A | .141 | 0.51 ± .003 | .085 | 0.35 ± .013 |
| Cable Ø | A | | | | | | | | | | |
| .141 | 0.51 ± .003 | | | | | | | | | | |
| .085 | 0.35 ± .013 | | | | | | | | | | |
| Procedure 2 | Attach Cable to Connector 1. Attach locator tool to housing. 2. Plug cable into housing until cable shoulder is flushed to housing. 3. Place loose assembly in fixture base as shown. a. Tighten clamp screw to secure cable. b. Tighten locator tool to seat cable firmly against housing. 4. Solder cable to housing sub-assembly as shown. Note: Fixture should be clamped vertically in vise to keep housing seated against locator tool. |  | | | | | | | | | |
| Procedure 3 | Install Dielectric into Housing 1. Adherence to steps given will yield tolerances shown. |  | | | | | | | | | |

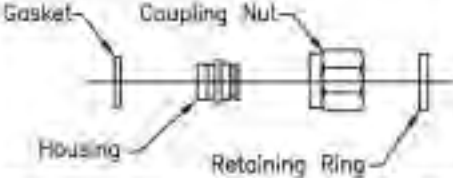
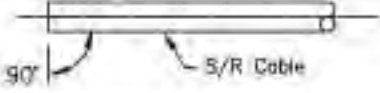
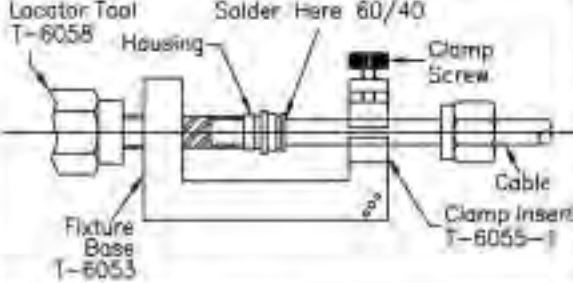

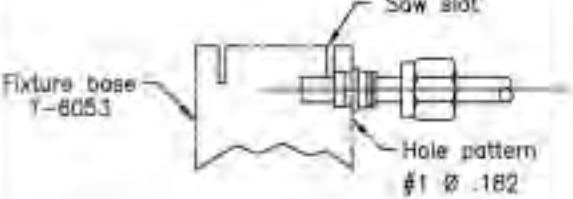
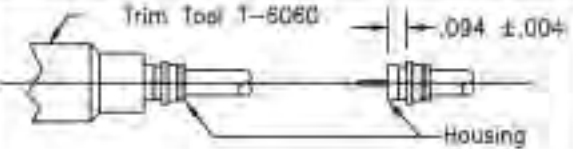
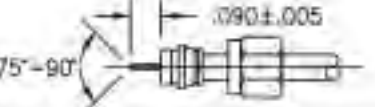
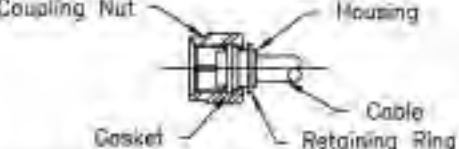
Assembly Instructions AI-178

| Connector Type SMA Male Phase Adjustable Connector Solder Attachment | Cable Type Ø .085 S/R | Connector Components  | Tools Required Fixture Base Clamp Insert Solder Gauge Solder Fixture Center Contact Holder | P/N T-6053 T-6055-2 T-6052-1 T-6170 T-6057 | Connector P/N 5999-200SF 5999-201-10CSF 5999-1175-100SF |
|---|--|--|--|--|---|
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimensions shown. | |  | | |
| Procedure 2 | Soldering of Center Contact to Cable Inner Conductor 1. Tin inner conductor of cable. 2. Place solder gauge on inner conductor flush with end of outer conductor. 3. Place center contact in holder, heat center contact and push it over inner conductor of cable to rest firmly against solder gauge. 4. Remove solder gauge and excess solder. | |  | | |
| Procedure 3 | Solder of Cable Sub-Assembly to Housing 1. Place connector housing on end of cable sub-assembly. 2. Place loose assembly in fixture base as shown. 3. Nest center contact in solder fixture and tighten it to seat cable firmly. 4. Tighten clamp screw to secure cable. 5. Maintain position of housing firmly against solder fixture. Note: Fixture should be clamped vertically in vise to keep housing seated against solder fixture. | |  | | |
| Procedure 4 | Attaching Connector to Cable Housing 1. Insert cable housing into connector and screw in up to two nut rotation, to have contact secure. | |  | | |


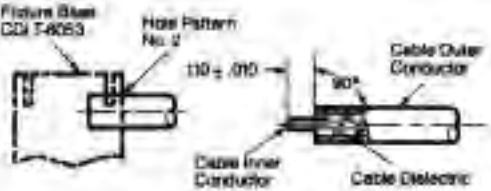
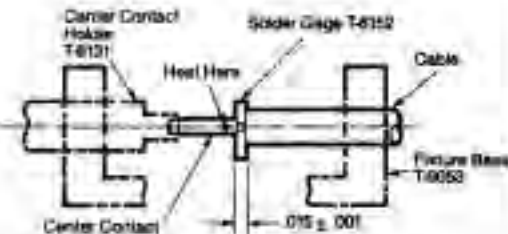
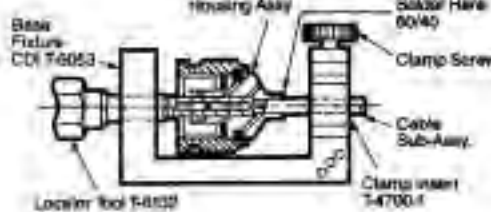
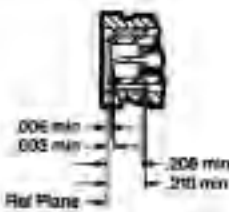
Assembly Instructions AI-179

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|--|--|---|--|---------------|
| SMA Male Phase Adjustable Connector Solder Attachment | Ø .141 S/R |  <p style="text-align: center;">Connector</p> | Fixture Base Clamp Insert: Solder Gauge: Solder Fixture: Center Contact Holder: | T-6053 T-6055-1 T-6052-4 T-6170 T-6057 | 5989-1CCSF |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimensions shown. |  | | | |
| Procedure 2 | Soldering of Center Contact to Cable Inner Conductor 1. Tin inner conductor of cable. 2. Place solder gauge on inner conductor flush with end of outer conductor. 3. Place center contact in holder, heat center contact and push it over inner conductor of cable to rest firmly against solder gauge. 4. Remove solder gauge and excess solder. |  | | | |
| Procedure 3 | Solder of Cable Sub-Assembly to Housing 1. Place connector housing on end of cable sub-assembly. 2. Place loose assembly in fixture base as shown. 3. Nest center contact in solder fixture and tighten it to seat cable firmly. 4. Tighten clamp screw to secure cable. 5. Maintain position of housing firmly against solder fixture. Note: Fixture should be clamped vertically in vise to keep housing seated against solder fixture. |  | | | |
| Procedure 4 | Attaching Connector to Cable Housing 1. Insert cable housing into connector and screw in up to two nut rotation, to have contact secure. |  | | | |

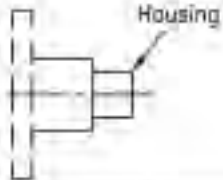
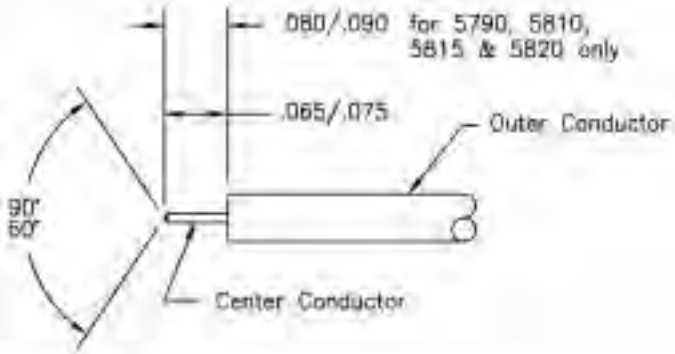
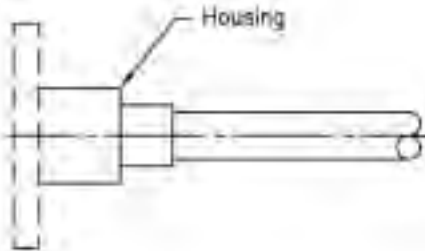
Assembly Instructions AI-222

| Connector Type SMA Male Straight Direct Solder Attachment | Cable Type Ø .141 SEMI-RIGID | Connector Components  | Tools Required Retaining Ring Pliers: T-6051 Fixture Base: T-6053 Clamp insert: T-6055-1 Locator Tool: T-6058 Dielectric Recess Tool: T-6059 Trim Tool (Optional): T-6060 | Connector P/N 53175F |
|--|--|--|--|--------------------------------|
| Procedure 1 | Preparation of Cable 1. Trim cable end square and deburr. | |  | |
| Procedure 2 | Attach Cable to Housing 1. Place connector housing on end of cable. 2. Place loose assembly in fixture base as shown: 2.1 Nest cable end in locator tool. 2.2 Tighten clampscrew to secure cable. 2.3 Tighten locator tool to seat cable firmly. 3. Slide housing against locator tool. 4. Maintain position of housing firmly against locator tool and solder. Note: Fixture should be clamped vertically in vise to keep housing seated against locator tool. | |  | |
| Procedure 3 | Compress Expanded Dielectric 1. Trim extended or exposed dielectric flush with end of the cable outer conductor. 2. Place dielectric recess tool on dielectric and push to recess dielectric within cable outer conductor. | |  | |
| Procedure 4 | Remove Outer Conductor and Dielectric 1. Insert squared end of cable into fixture base hole pattern #1. 2. Place saw in saw slot and cut through outer conductor and into dielectric while rotating the cable. 3. Remove cable from fixture and finish cutting dielectric with cutting blade. 4. Bare inner conductor by prying out outer conductor and dielectric from cable. | |  | |
| Procedure 5 | Trim End of Housing Sub-Assembly (Optional) 1. Place trim tool over inner conductor projection and rotate to face off front face. 2. Inspect for dimensional tolerance .094±.004. | |  | |
| Procedure 6 | Shape Inner Conductor 1. Trim to length as shown. 2. File blunt end of inner conductor to an 75°-90° cone. | |  | |
| Procedure 7 | Secure Coupling Nut to Housing 1. Place gasket on housing. 2. Slide coupling nut onto housing. 3. Snap retaining ring in housing groove just behind coupling nut. 4. Coupling nut should rotate freely. | |  | |


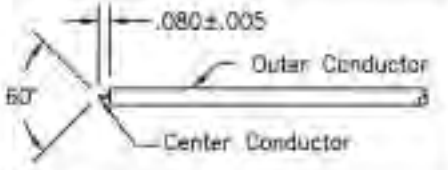
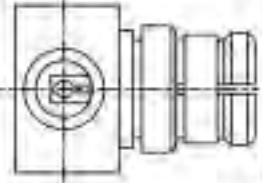
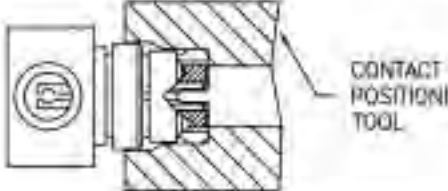
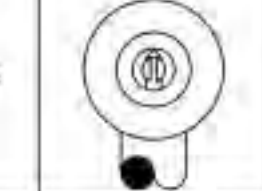
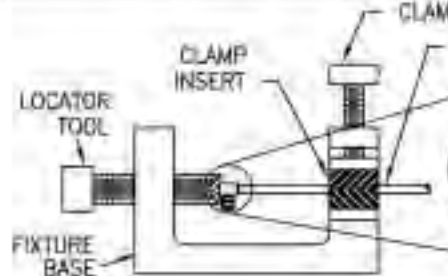

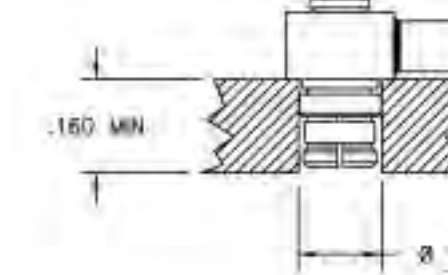

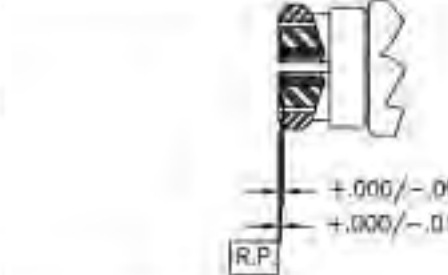

Assembly Instructions AI-223

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|---|---|---------------|
| <p>TNC male connector straight solder attachment</p> | <p>-1 .141 semi-rigid -2 .085 semi-rigid -3 .141 microporous</p> |  | <p>Fixture Base: T-6053 Clamp Insert: T-6055-1&-2 Center Contact Holder: T-6131 Solder Gauge: T-6152 Locator Tool: T-6132</p> | |
| <p>Procedure 1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Insert squared cable end into fixture base hole pattern #2. 2. Place saw in saw slot and cut through outer conductor and into dielectric while rotating cable. 3. Remove cable from fixture and finish cutting dielectric with cutting blade. 4. Bare inner conductor by prying out outer conductor and dielectric from cable. |  | | |
| <p>Procedure 2</p> | <p>Soldering of Center Contact to Cable Inner Conductor</p> <ol style="list-style-type: none"> 1. Tin inner conductor of cable. 2. Place solder gage on inner conductor, flush with end of outer conductor. 3. Place center contact in holder, heat center contact and push it over inner conductor of cable to rest firmly against solder gage. 4. Remove solder gage and excess solder. <p>*For microporous cable do not use flux or solvent in cable dielectric area</p> |  | | |
| <p>Procedure 3</p> | <p>Soldering of Cable Sub-Assembly to Housing</p> <ol style="list-style-type: none"> 1. Place connector housing on end of cable sub-assembly. 2. Place loose assembly in fixture base as shown. <ol style="list-style-type: none"> 2.1 Tighten clamp screw to secure cable. 2.2 Tighten locator tool to seat cable firmly against housing. 3. Solder cable to housing sub-assembly as shown. <p>Note: Fixture should be clamped vertically in vise to keep housing seated against locator tool.</p> |  | | |
| <p>Procedure 4</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> 1. Adherence to steps given will yield tolerances shown. |  | | |

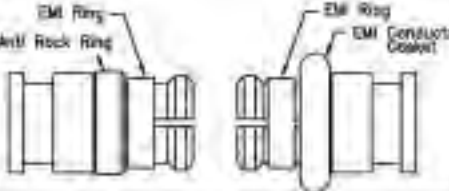
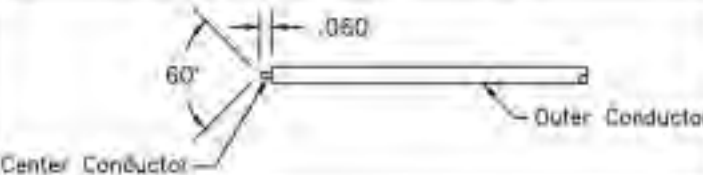
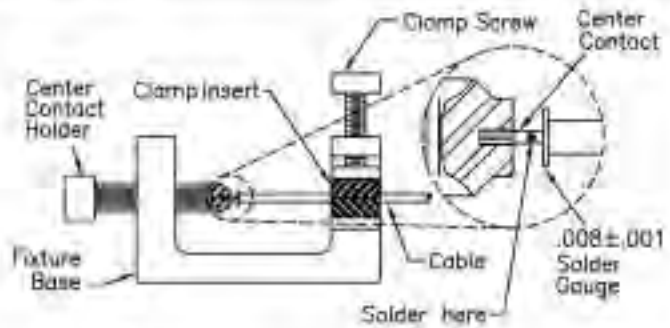
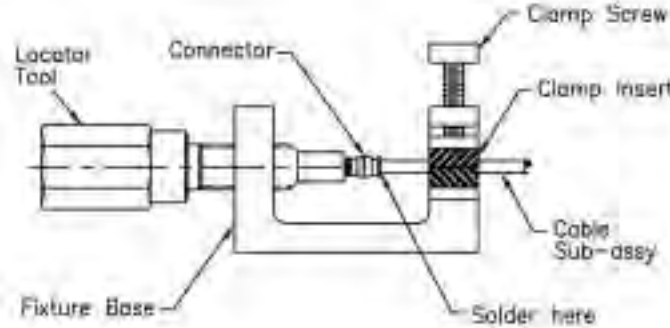
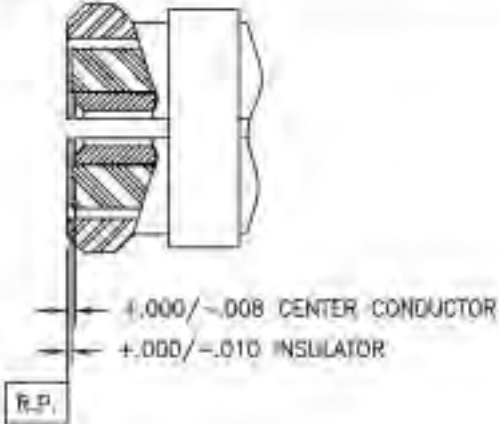
Assembly Instructions AI-224

| Connector Type Cable Receptacle | Cable Type Ø .141 Ø .066 Ø .047 Semi-Rigid Cables | Connector Components  | Tools Required No special tools required. | Connector P/N 5785 Thru 5787 5790 Thru 5794 5810 Thru 5824 |
|--|--|--|--|--|
| Procedure <div style="font-size: 2em; font-weight: bold; color: blue; text-align: center;">1</div> | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. 2. Point center conductor. |  | | |
| Procedure <div style="font-size: 2em; font-weight: bold; color: blue; text-align: center;">2</div> | Attach Cable to Housing 1. Plug cable into connector and bottom. 2. Maintain position of cable firmly against the connector and solder. |  | | |

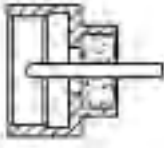
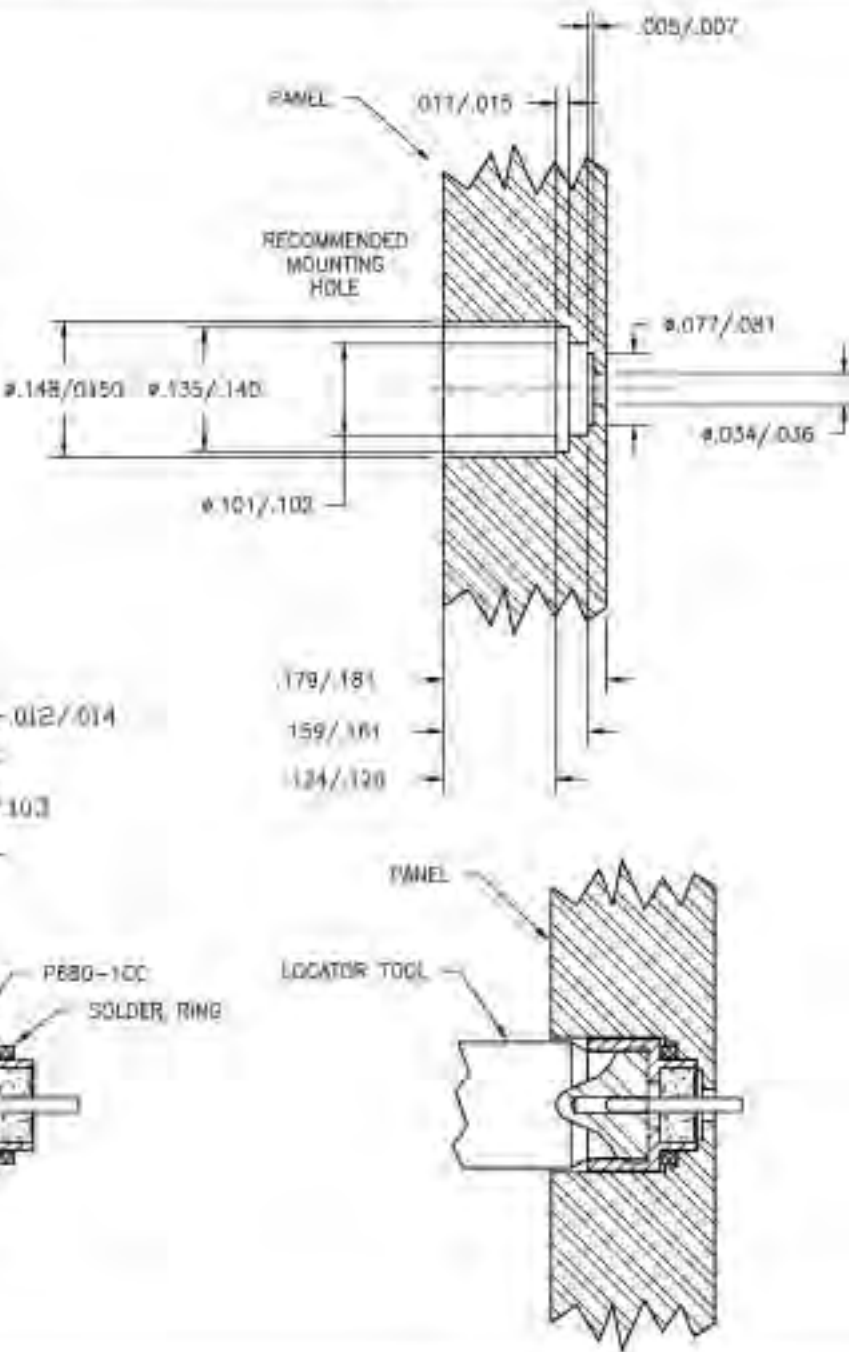
Assembly Instructions AI-291

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|--|--|--|---|
| <p>SMP FEMALE RIGHT ANGLE CAPTIVATED CONTACT</p> <p>Solder Attachment</p> | <p>S/R .086 & .086 LL</p> |  | <p>Fixture Base T-6053 Contact T-8290 Positioning Tool Locator Tool T-8292 Clamp Insert T-6055-2</p> | <p>P652-20C P652-40C P652-60C P652-80C</p> |
| <p>Procedure 1</p> | <p>Preparation of Components</p> <ol style="list-style-type: none"> Trim outer conductor and dielectric to dimension shown. Align cross hole in center contact with hole in connector by rotating contact from interface end. |  |  | |
| <p>Procedure 2</p> | <p>Attach Cable to Center Conductor</p> <ol style="list-style-type: none"> Install contact positioning tool on interface of connector. Insert cable into connector body. Cable center conductor must engage center contact of connector as shown. |  |  | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> Fixture as shown. Solder as shown. Temperature must not exceed 550°F. Allow to cool. Clean solder joint and remove excess flux. |  |  | |
| <p>Procedure 4</p> | <p>Install Cap</p> <ol style="list-style-type: none"> Insert cap with countersink going into connector body. Using fixture as shown. Press cap until seated. Cap should not protrude more than .001". |  |  | |
| <p>Procedure 5</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> Adherence to the above steps will yield tolerances shown. |  |  | |

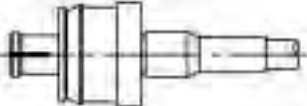
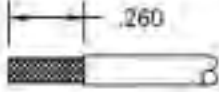
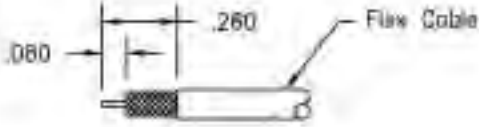
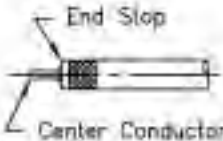
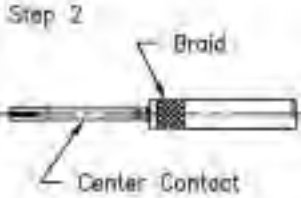
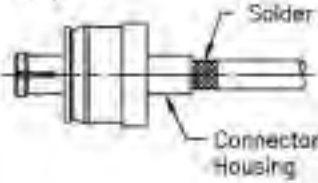
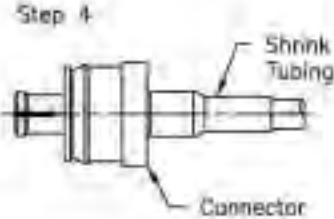
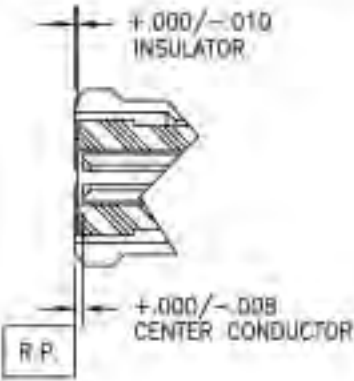
Assembly Instructions AI-292

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|--|--|---|---|--|
| <p>SMP Female Straight Solder on Contact</p> <p>Solder Attachment</p> | <p>5/R .085 & .086 LL</p> |  | <p>Soldering Gauge Fixture Base Center Contact Holder Locator Tool Clamp Insert</p> | <p>T-6052-7 T-6053 T-6057 T-6295-1 T-6055-2</p> | <p>P651-200 P651-400 P651-600 P651-800</p> |
| <p>Procedure 1</p> | <p>Preparation of Cable</p> <p>1. Trim outer conductor and dielectric to dimension shown,</p> |  | | | |
| <p>Procedure 2</p> | <p>Attach Center Conductor to Cable</p> <p>1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge.</p> <p>2. Locate contact as shown and Solder contact. Temperature should not exceed 550° F.</p> <p>3. Allow to cool. Remove excess solder.</p> |  | | | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <p>1. Install connector subassembly in locator tool.</p> <p>2. Locate on end of cable. Tighten locator tool gently to secure joint.</p> <p>3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F.</p> <p>4. Clean solder joint and remove excess flux.</p> |  | | | |
| <p>Procedure 4</p> | <p>Inspection of Completed Connector Assembly</p> <p>1. Adherence to the above steps will yield tolerances shown.</p> |  <p>+0.000/-0.008 CENTER CONDUCTOR +0.000/-0.010 INSULATOR</p> <p>R.P.</p> | | | |

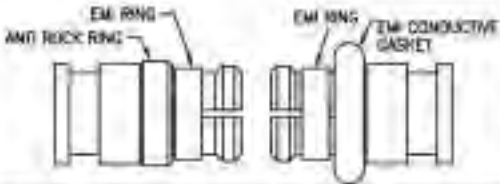
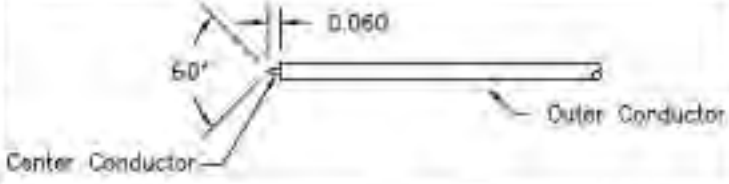
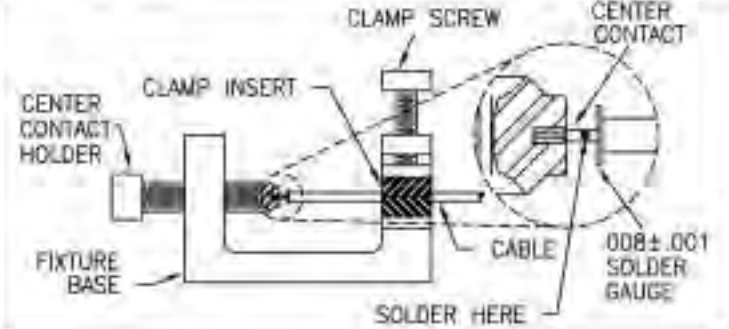
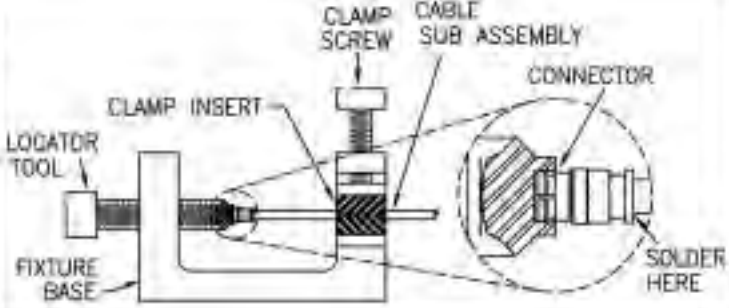
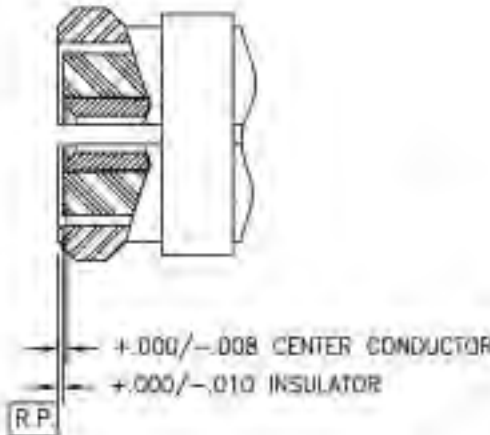
Assembly Instructions AI-293

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|------------|---|--|---|
| SMP MALE HERMETIC | |  | Locator Tool T-5296-1 T-5296-2 T-5296-3 | PART NUMBER P680-1 P680-2 P680-3 |
| <p>1 MOUNT P680 ON LOCATOR TOOL AS SHOWN</p> <p>2 INSTALL SOLDER RING ON P680 AS SHOWN</p> <p>3 INSERT LOCATOR TOOL WITH P680 AND SOLDER RING INTO PANEL AS SHOWN.</p> <p>4 SOLDER INTO PLACE.</p>  | | | | |


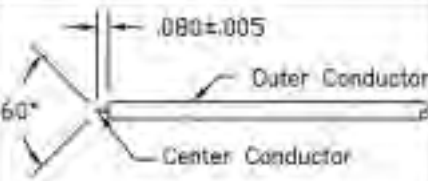
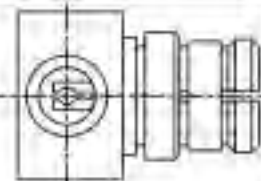
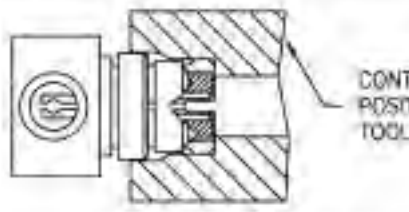
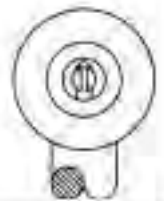
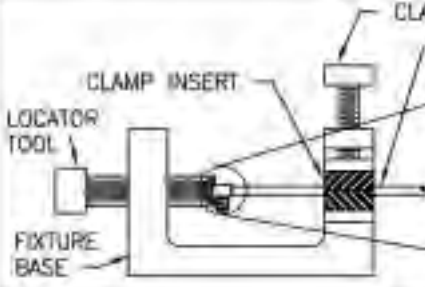
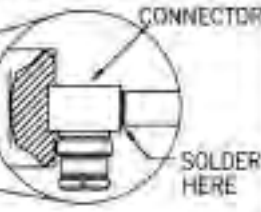
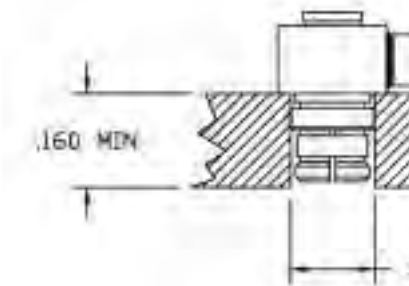
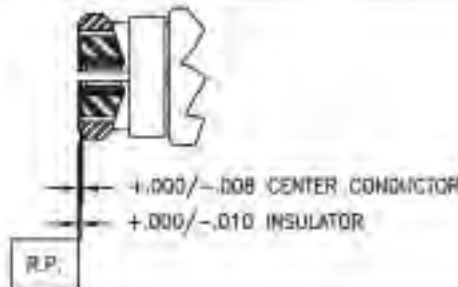
Assembly Instructions AI-297

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|-------------------------------------|---|---|----------------------------|----------------------|
| SMP Female Flat Mount to Flex Cable | <ol style="list-style-type: none"> Micro coax UFF D92A RG316/U |  | No special tools required. | P658-1CC P658-2CC |
| Procedure 1 | Preparation of Cable <ol style="list-style-type: none"> Prepare cable end as shown. Dip stripped end into solder pot for 3-5 seconds and allow solder to wet braid. Solder pot temp to be of 500°F. Trim dielectric and expose center conductor as shown. | <p>Step 1 & 2</p>  <p>Step 3</p>  | | |
| Procedure 2 | Attach Cable to Housing <ol style="list-style-type: none"> Install dielectric end stop over cable center conductor in the orientation shown. Place center contact over the center conductor of cable. Push flush to end stop. Solder in place. Insert cable into connector housing. Solder in place. Slide heat shrink tubing to back end of connector housing. Shrink into place. Ensure that strain relief does not impede connector's "float" movement. | <p>Step 1</p>  <p>Step 2</p>  <p>Step 3</p>  <p>Step 4</p>  | | |
| Procedure 3 | Inspection of Completed Connector Assembly <ol style="list-style-type: none"> Adherence to the above steps will yield tolerances shown. |  <p>+ .000 / - .010 INSULATOR</p> <p>+ .000 / - .008 CENTER CONDUCTOR</p> <p>R.P.</p> | | |

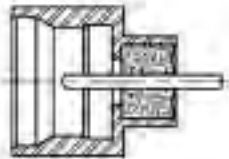
Assembly Instructions AI-300

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|---|--|--|--|
| SMP FEMALE STRAIGHT SOLDER ON CONTACT Solder Attachment | S/R .047 & .047 LL |  | Soldering Gauge T-8052-7 Fixture Base T-8053 Center Contact T-8057 Holder Locator Tool T-8295 Clamp Insert T-8055-3 | P651-1CC P651-3CC P651-5CC P651-7CC |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Slide center conductor over cable inner conductor and seat firmly against soldering gauge. 2. Locate contact as shown and solder contact. Temperature should not exceed 550° F. 3. Allow to cool. Remove excess solder. |  | | |
| Procedure 3 | Attach Cable to Connector 1. Install connector subassembly in locator tool. 2. Locate on end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | |
| Procedure 4 | Inspection of Completed Connector Assembly 1. Adherence to the above steps will yield tolerances shown. |  | | |

Assembly Instructions AI-301

| Connector Type SMP FEMALE RIGHT ANGLE CAPTIVATED CONTACT Solder Attachment | Cable Type S/R .047 & .047 LL | Connector Components  | Tools Required Fixture Base T-6053 Contact Positioning Tool T-6290 Locator Tool T-6292 Clamp Insert T-6055-3 | Connector P/N P652-1CC P652-3CC P652-5CC P652-7CC |
|---|--|--|---|--|
| Procedure 1 | Preparation of Components 1. Trim outer conductor and dielectric to dimension shown. 2. Align cross hole in center contact with hole in connector by rotating contact from interface end. |  |  | |
| Procedure 2 | Attach Cable to Center Conductor 1. Install contact positioning tool on interface of connector. 2. Insert cable into connector body. Cable center conductor must engage center contact of connector as shown. |  |  | |
| Procedure 3 | Attach Cable to Connector 1. Fixture as shown. 2. Solder as shown. Temperature must not exceed 550°F. 3. Allow to cool. Clean solder joint and remove excess flux. |  |  | |
| Procedure 4 | Install Cap 1. Insert cap with countersink going into connector body. 2. Using fixture as shown. Press cap until seated. Cap should not protrude more than .001". |  | | |
| Procedure 5 | Inspection of Completed Connector Assembly 1. Adherence to the above steps will yield tolerances shown. |  | | |

Assembly Instructions AI-302

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|------------|---|--|---|
| SMP MALE HERMETIC Solder Attachment | |  | Locator Tool T-6296-1 T-6296-2 T-6296-3 | PART NUMBER P6B1-1 P6B1-2 P6B1-3 |

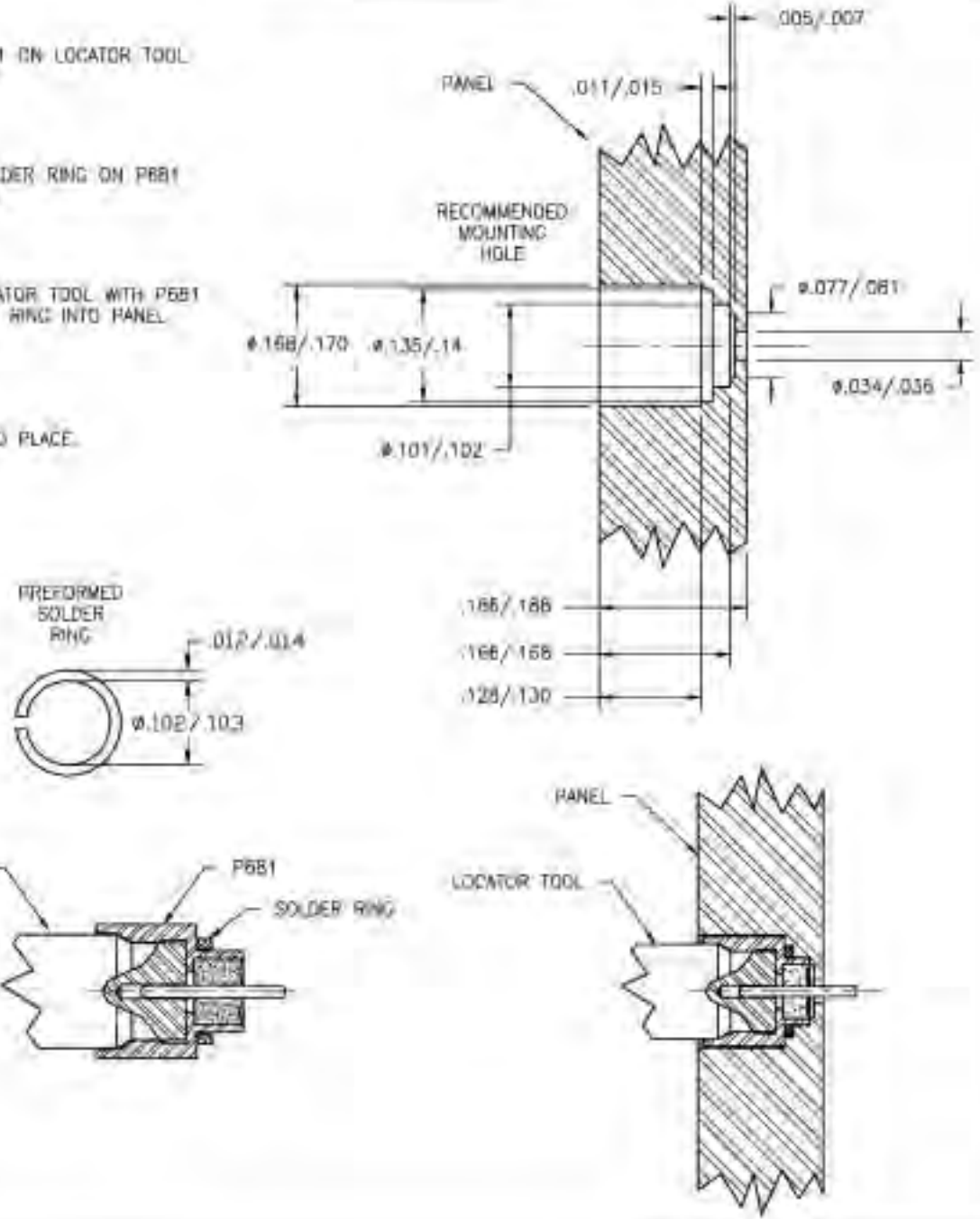
- 1
- 2
- 3
- 4

MOUNT P6B1 ON LOCATOR TOOL AS SHOWN

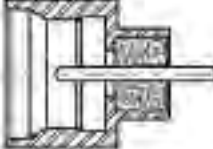
INSTALL SOLDER RING ON P6B1 AS SHOWN

INSERT LOCATOR TOOL WITH P6B1 AND SOLDER RING INTO PANEL AS SHOWN

SOLDER INTO PLACE



Assembly Instructions AI-303

| Connector Type SMP MALE HERMETIC Solder Attachment | Cable Type | Connector Components  | Tools Required Locator Tool T-6296-1 T-6296-2 T-6296-3 | Connector P/N PART NUMBER P682-1 P682-2 P682-3 |
|--|------------|---|--|--|
|--|------------|---|--|--|

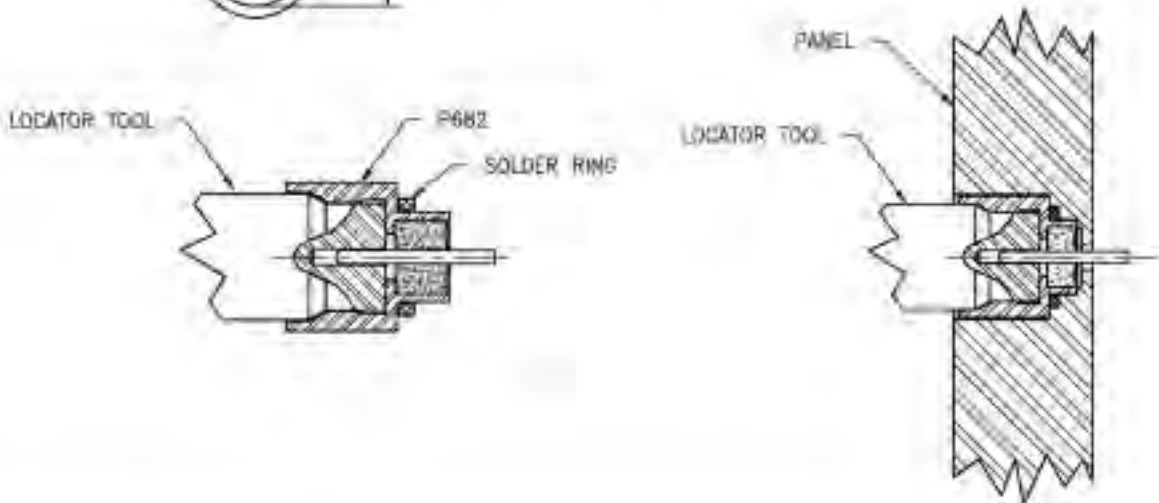
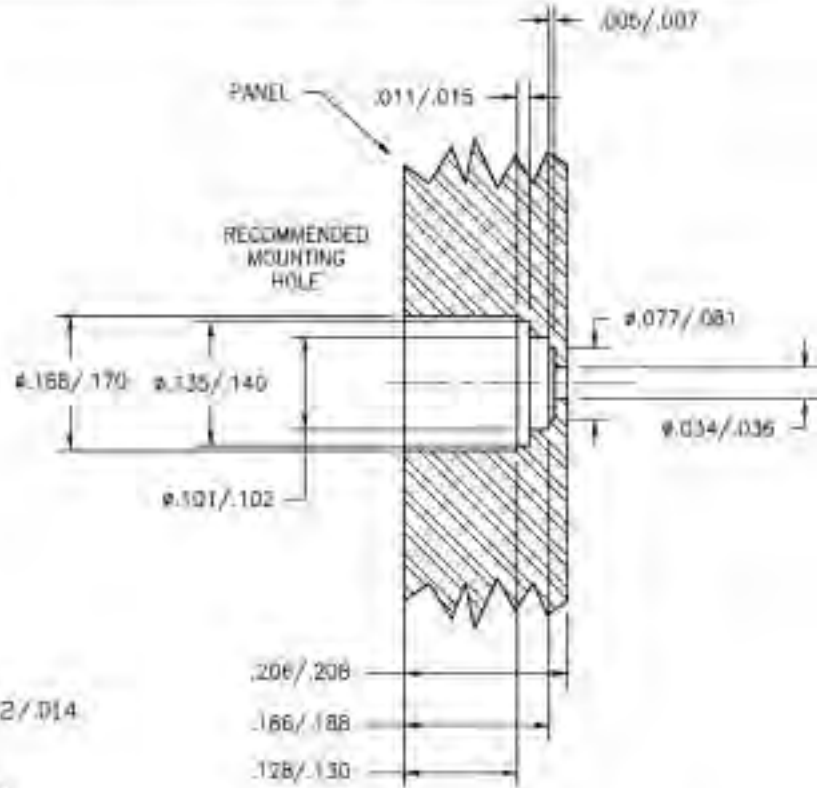
- 1
- 2
- 3
- 4

MOUNT P682 ON LOCATOR TOOL AS SHOWN

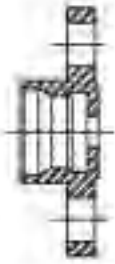
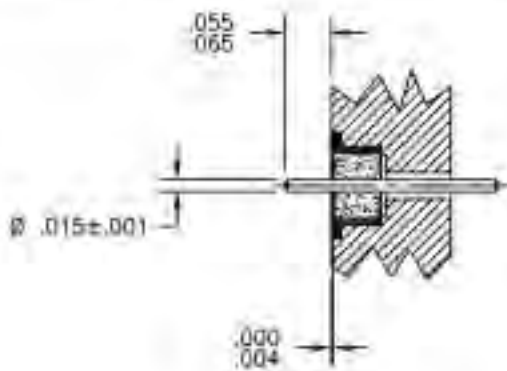
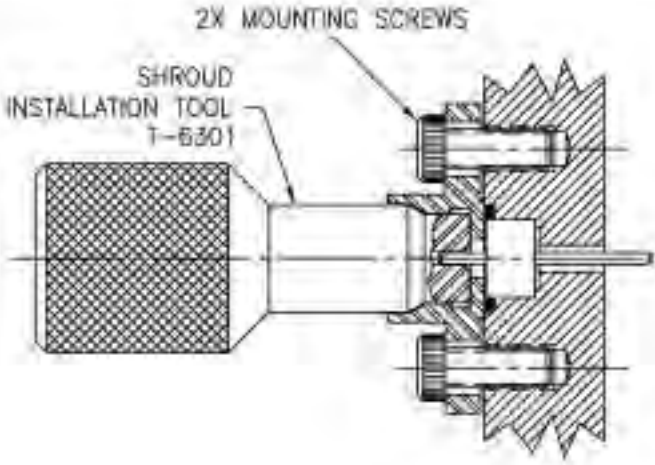
INSTALL SOLDER RING ON P682 AS SHOWN

INSERT LOCATOR TOOL WITH P682 AND SOLDER RING INTO PANEL AS SHOWN.

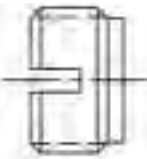
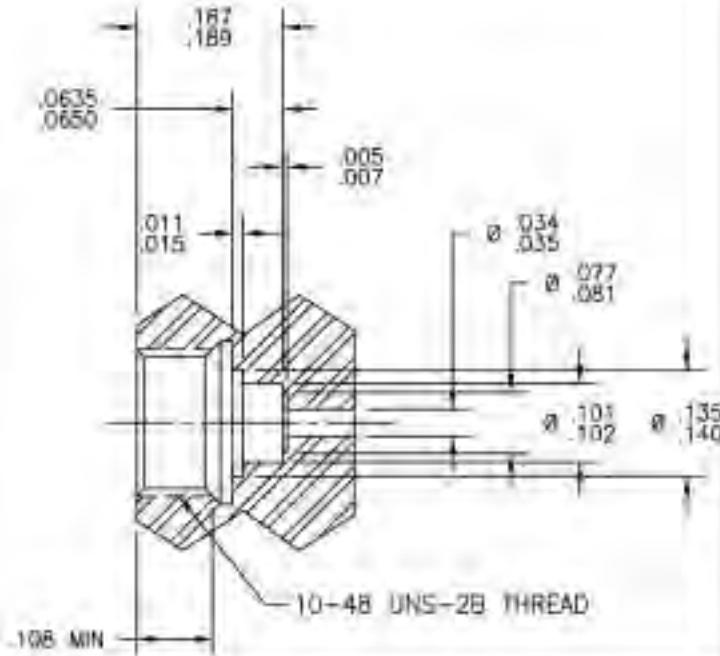
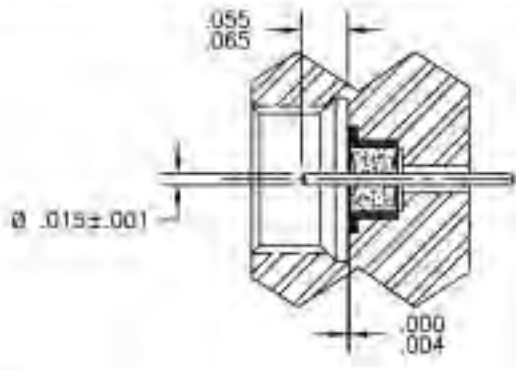
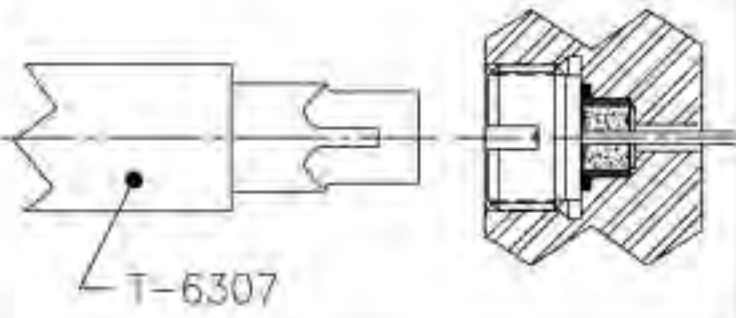
SOLDER INTO PLACE.




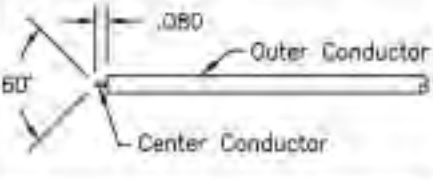
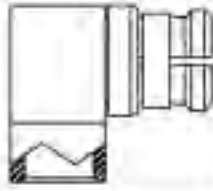
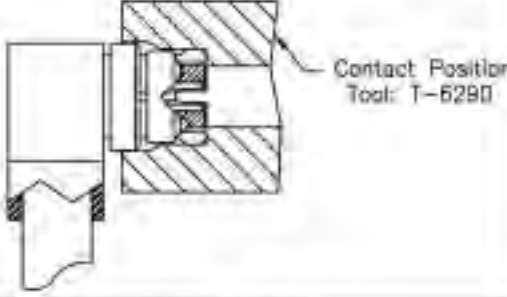
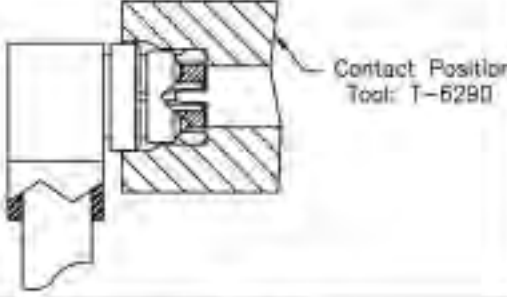
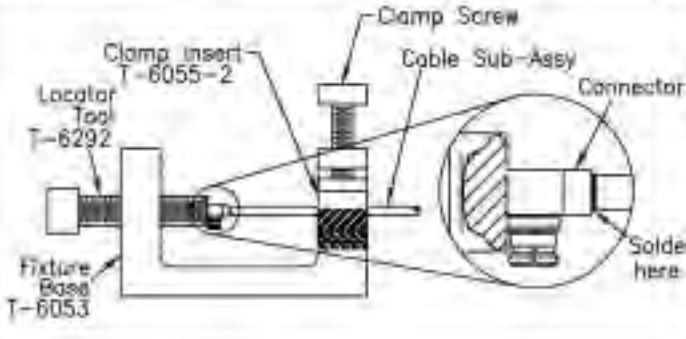
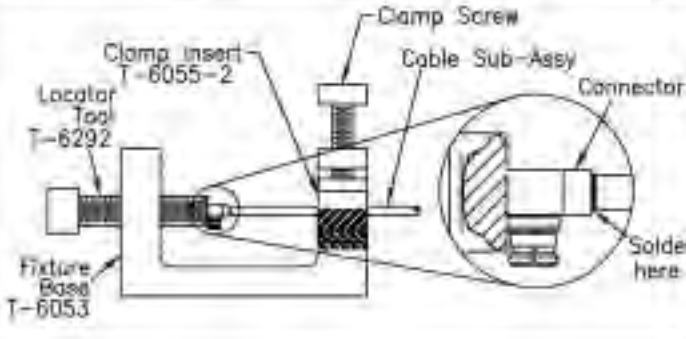
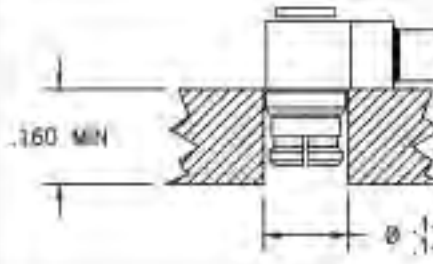
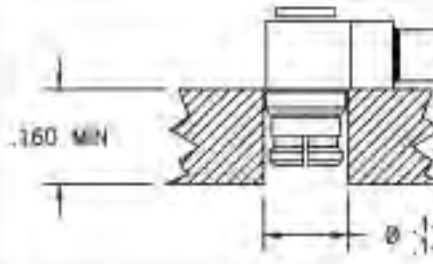
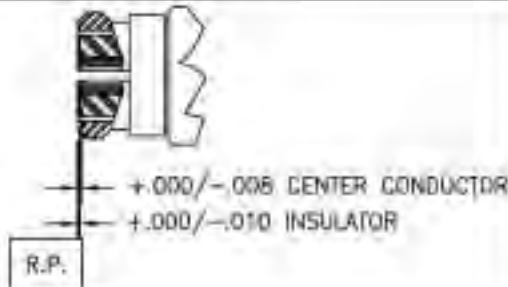
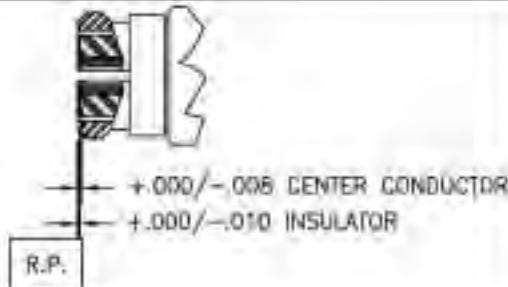
Assembly Instructions AI-305

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N | | | | | | | | | | |
|---|---|---|--|--|------|----------|------|----------|------|----------|------|----------|--|--|
| <p>SUP SHROUD</p> | |  | <p>INSTALLATION T-6301-1 TOOL T-6301-2 T-6301-3</p> | <p>P670 P671 P672 P673</p> | | | | | | | | | | |
| <p>Procedure</p> <p>1</p> | <p>Installation of 50 Ohm Seal</p> <p>1. Install (Tensolite 4004-9) into panel as per instruction AI-304</p> | |  | | | | | | | | | | | |
| <p>Procedure</p> <p>2</p> | <p>Installation of Shroud</p> <p>1. Install shroud onto seal using the installation tool as illustrated.</p> | <table border="1" data-bbox="386 1222 630 1474"> <thead> <tr> <th>P/N</th> <th>TOOL</th> </tr> </thead> <tbody> <tr> <td>P670</td> <td>T-6301-1</td> </tr> <tr> <td>P671</td> <td>T-6301-2</td> </tr> <tr> <td>P672</td> <td>T-6301-3</td> </tr> <tr> <td>P673</td> <td>T-6301-2</td> </tr> </tbody> </table> | P/N | TOOL | P670 | T-6301-1 | P671 | T-6301-2 | P672 | T-6301-3 | P673 | T-6301-2 |  | |
| P/N | TOOL | | | | | | | | | | | | | |
| P670 | T-6301-1 | | | | | | | | | | | | | |
| P671 | T-6301-2 | | | | | | | | | | | | | |
| P672 | T-6301-3 | | | | | | | | | | | | | |
| P673 | T-6301-2 | | | | | | | | | | | | | |

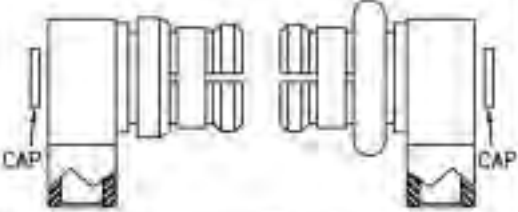
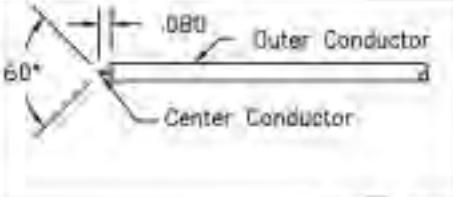
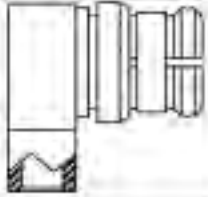

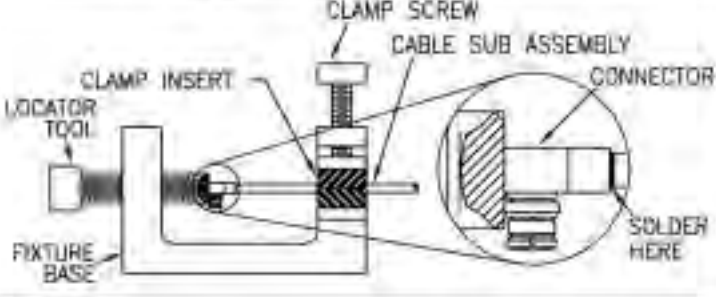
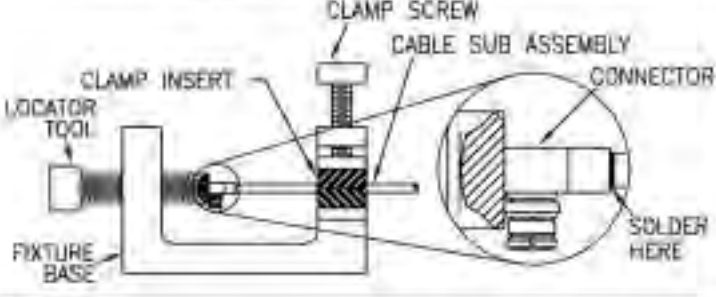
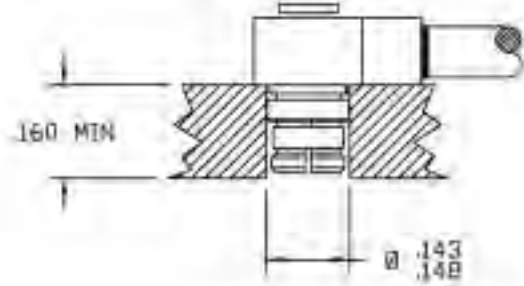
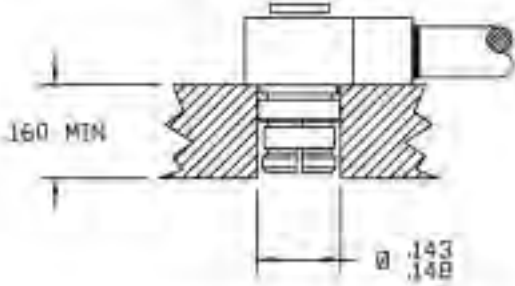
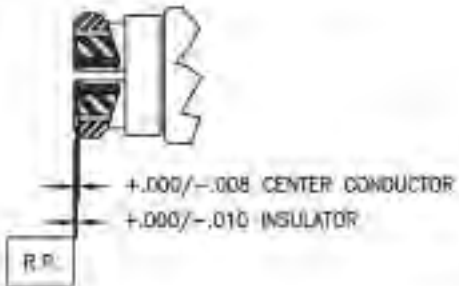
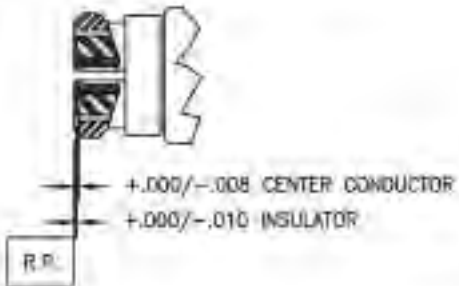
Assembly Instructions AI-306

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N | | | | | | | | |
|---|---|--|--|---|------|--------|----------|--------|----------|--------|----------|--|
| <p>THREAD-IN SMP SHROUD</p> | |  | <p>INSTALLATION TOOL T-6306 INSTALLATION TOOL T-6307-1 T-6307-2 T-6307-3</p> | <p>P676-1 P676-2 P676-3</p> | | | | | | | | |
| <p>Procedure</p> <p>1</p> | <p>Mounting Hole Configuration</p> |  | | | | | | | | | | |
| <p>Procedure</p> <p>2</p> | <p>Seal Installation</p> <p>1. Install seal per AI-304. Using Tensolite tool P/N T-6306</p> |  | | | | | | | | | | |
| <p>Procedure</p> <p>3</p> | <p>Shroud Installation</p> <p>1. Install shroud by threading into housing. 2. Use T-6307 to torque to 8-10 inch pounds.</p> |  | <table border="1" data-bbox="373 1638 649 1837"> <thead> <tr> <th>P/N</th> <th>TOOL</th> </tr> </thead> <tbody> <tr> <td>P676-1</td> <td>T-6307-1</td> </tr> <tr> <td>P676-2</td> <td>T-6307-2</td> </tr> <tr> <td>P676-3</td> <td>T-6307-3</td> </tr> </tbody> </table> | P/N | TOOL | P676-1 | T-6307-1 | P676-2 | T-6307-2 | P676-3 | T-6307-3 | |
| P/N | TOOL | | | | | | | | | | | |
| P676-1 | T-6307-1 | | | | | | | | | | | |
| P676-2 | T-6307-2 | | | | | | | | | | | |
| P676-3 | T-6307-3 | | | | | | | | | | | |

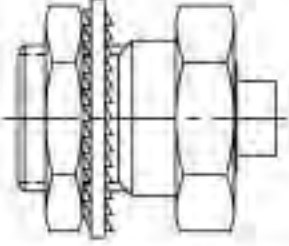
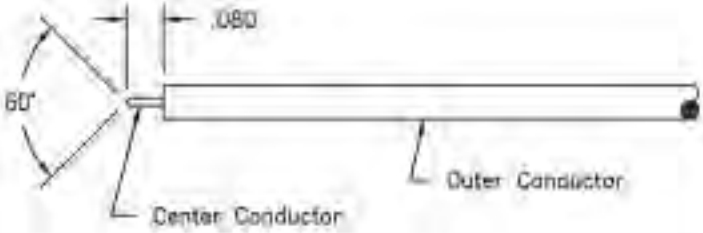
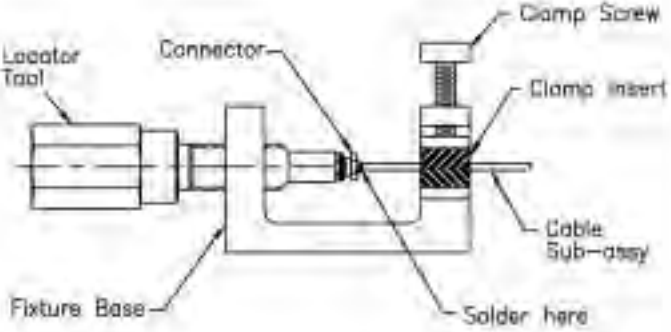
Assembly Instructions AI-307

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|---|--|--|--|--|
| <p>SMA Female Radius R/A Captivated Contact Solder Attachment</p> | <p>S/R .085 & .086 LL</p> |  | <p>Fixture Base: Contact Position Tool: Locator Tool: Clamp Insert:</p> | <p>T-6053 T-6290 T-6292 T-6055-2</p> | <p>P659-2CC P659-ACC P659-6CC P659-8CC</p> |
| <p>Procedure 1</p> | <p>Preparation of Components</p> <ol style="list-style-type: none"> Trim outer conductor and dielectric to dimension shown. Align cross hole in center contact with hole in connector by rotating contact from interface end. |  |  | | |
| <p>Procedure 2</p> | <p>Attach Cable to Center Conductor</p> <ol style="list-style-type: none"> Install contact-positioning tool on interface of connector. Insert cable into connector body. Cable center conductor must engage center contact of connector as shown. |  |  | | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> Remove contact position tool. Mount sub-assembly into fixture as shown. Solder as shown. Temperature must not exceed 550° F. Allow to cool. Clean solder joint and remove excess flux. |  |  | | |
| <p>Procedure 4</p> | <p>Install Cap</p> <ol style="list-style-type: none"> Using fixture as shown. Press cap until seated. Cap should not protrude more than .001". |  |  | | |
| <p>Procedure 5</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> Adherence to the above steps will yield tolerances shown. |  |  | | |

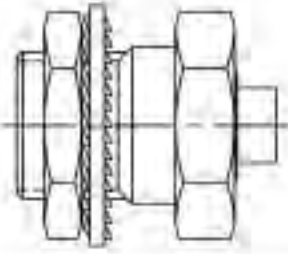
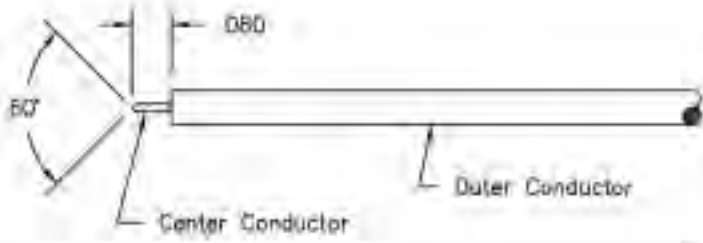
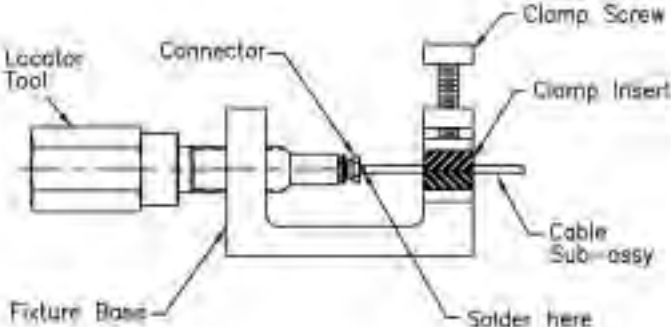
Assembly Instructions AI-308

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|--|--|---|---|
| <p>SMP FEMALE RIGHT ANGLE CAPTIVATED CONTACT</p> <p>Solder Attachment</p> | <p>Ø .047 SEMI-FLEX</p> <p>Ø .047 SEMI-RIGID</p> <p>Ø .047 LOW-LOSS</p> |  | <p>Fixture Base T-6053</p> <p>Contact T-6290</p> <p>Positioning Tool T-6292</p> <p>Locator Tool T-6292</p> <p>Clamp Insert T-6055-3</p> | <p>P659-10C</p> <p>P659-30C</p> <p>P659-50C</p> <p>P659-70C</p> |
| <p>Procedure 1</p> | <p>Preparation of Components</p> <ol style="list-style-type: none"> Trim outer conductor and dielectric to dimension shown. Align cross hole in center contact with hole in connector by rotating contact from interface end. |  |  | |
| <p>Procedure 2</p> | <p>Attach Cable to Center Conductor</p> <ol style="list-style-type: none"> Install contact positioning tool on interface of connector. Insert cable into connector body. Cable center conductor must engage center contact of connector as shown. |  |  | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> Fixture as shown. Solder as shown. Temperature must not exceed 550°F. Allow to cool. Clean solder joint and remove excess flux. |  |  | |
| <p>Procedure 4</p> | <p>Install Cap</p> <ol style="list-style-type: none"> Using fixture as shown. Press cap until seated. Cap should not protrude more than .001". |  |  | |
| <p>Procedure 5</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> Attendance to the above steps will yield tolerances shown. |  | <p>+0.00/-0.08 CENTER CONDUCTOR</p> <p>+0.00/-0.010 INSULATOR</p> | |

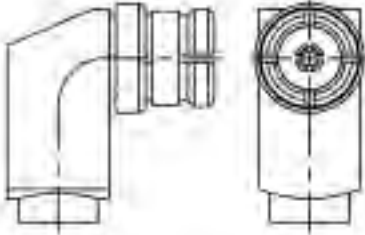
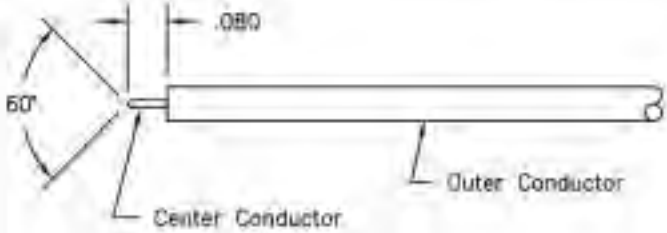
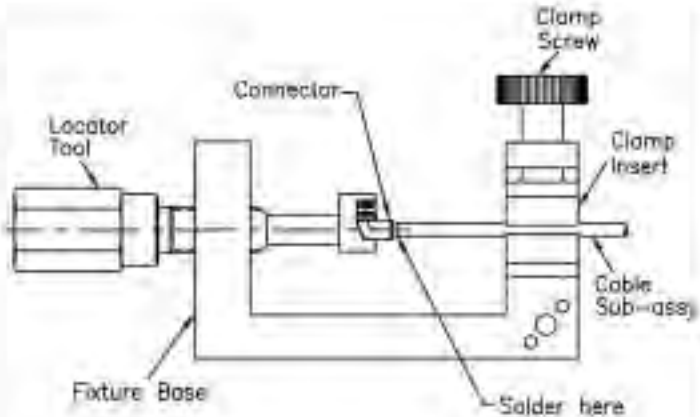
Assembly Instructions AI-309

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|---|---|--|--------------------------------|---|
| SMP Male Straight Captivated Contact Solder Attachment | S/R .086 & .086 LL |  | Fixture Base Locator Tool Clamp Insert | T-6053 T-6295-3 T-6055-2 | P660-40C P660-50C P660-60C P660-100C P660-110C P660-120C |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Attach Cable to Connector 1. Install connector subassembly in locator tool. 2. Locate on end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | | |

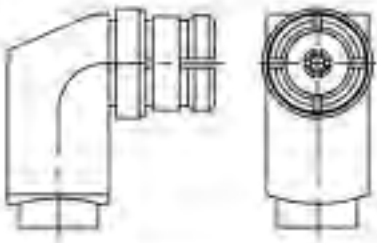
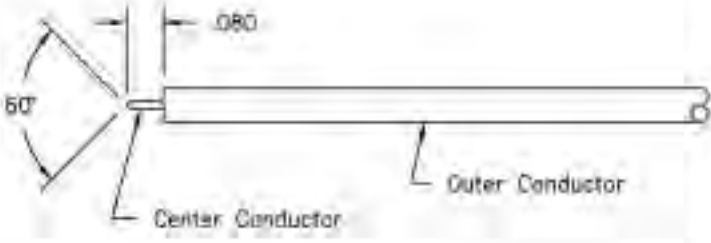
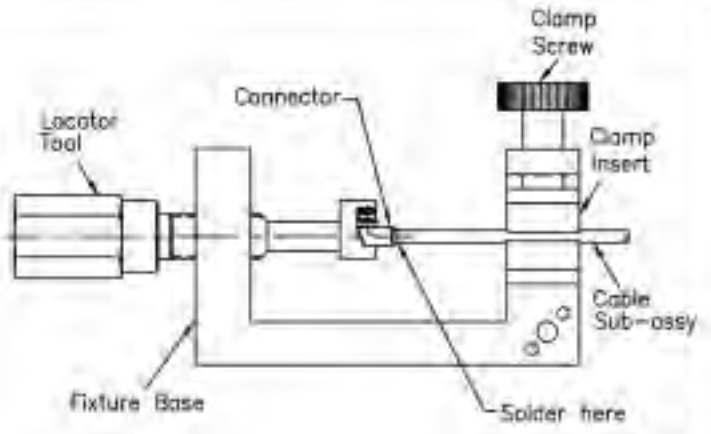
Assembly Instructions AI-310

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|---|---|--|--------------------------------|--|
| SMP Male Straight Captivated Contact Solder Attachment | S/R .047 & .047 LL |  | Fixture Base Locator Tool Clamp Insert | T-6053 T-6295-1 T-6055-3 | P660-10C P660-20C P660-30C P660-70C P660-80C P660-90C |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown |  | | | |
| Procedure 2 | Attach Cable to Connector 1. Install connector subassembly in locator tool. 2. Locate on end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | | |

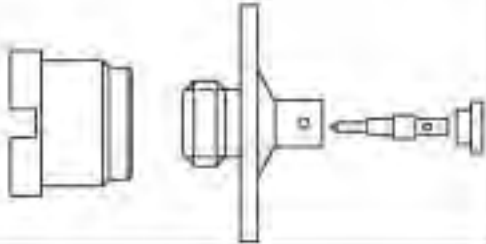
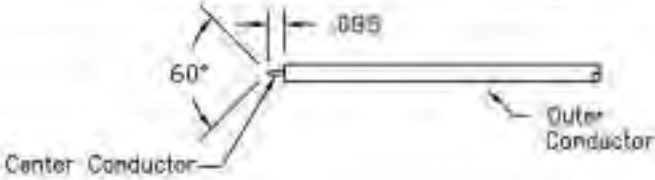
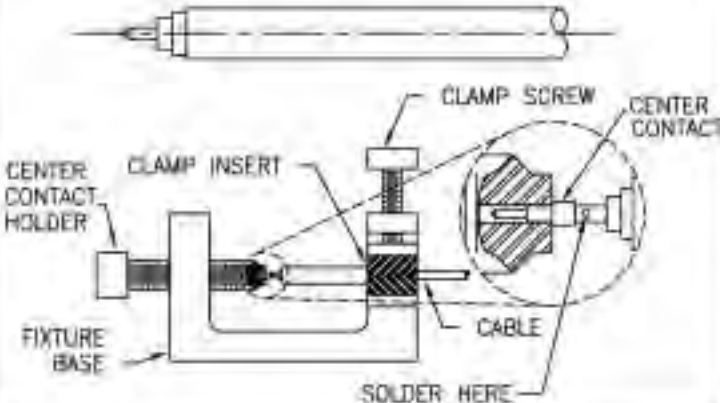
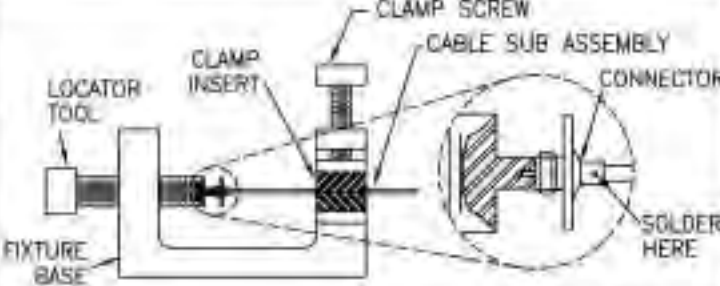
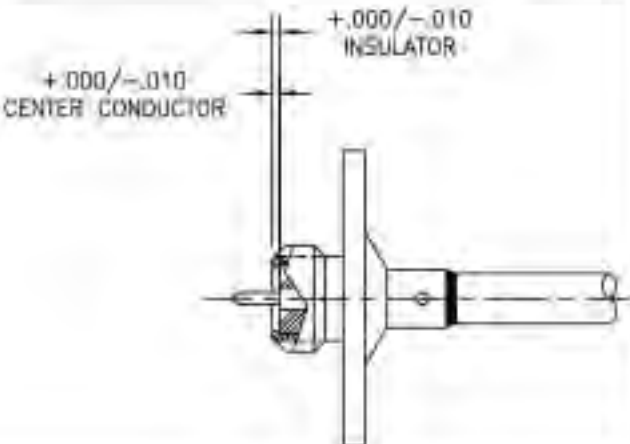
Assembly Instructions AI-311

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|--|---|--|------------------------------|--|
| SMP Male Straight Captivated Contact Solder Attachment | 5/8 .085 & .065 L/L |  | Fixture Base Locator Tool Clamp Insert | T-6053 T-6295 T-6055-2 | P655-2CC P655-4CC P655-6CC P655-8CC |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Attach Cable to Connector 1. Install connector sub-assembly in locator tool. 2. Locate on end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | | |

Assembly Instructions AI-312

| Connector Type | Cable Type | Connector Components | Tools Required | P/N | Connector P/N |
|---|--|---|--|------------------------------|--|
| SMP Male Straight Captivated Contact Solder Attachment | S/R .047 & .047 L/L |  | Fixture Base Locator Tool Clamp Insert | T-8053 T-6295 T-6055-2 | P655-1CC P655-3CC P655-5CC P655-7CC |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | | |
| Procedure 2 | Attach Cable to Connector 1. Install connector sub-assembly in locator tool. 2. Locate an end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | | |
| | | | | | |

Assembly Instructions AI-313 (1)

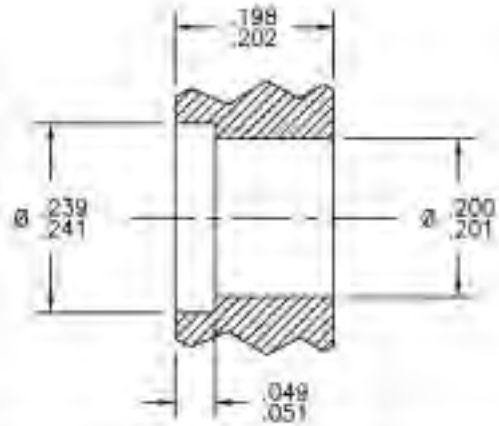
| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|--|---|--|
| SMP FEMALE STRAIGHT SOLDER ON CONTACT Solder Attachment | S/R .086 & .086 LL |  | Fixture Base T-6053 Center Contact Holder T-6307 Locator Tool T-6308 Clamp Insert T-6055-2 | P662-20C P662-40C P662-60C P662-80C |
| Procedure 1 | Preparation of Cable 1. Trim outer conductor and dielectric to dimension shown. |  | | |
| Procedure 2 | Attach Center Conductor to Cable 1. Install dielectric end stop over cable center conductor in the orientation shown. 2. Place center contact over in center conductor of cable push flush to end stop. Solder in place as shown. temperature should not exceed 550°F. 3. Allow to cool. Remove excess solder. |  | | |
| Procedure 3 | Attach Cable to Connector 1. Install connector subassembly in locator tool. 2. Locate an end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | |
| Procedure 4 | Inspection of Completed Connector Assembly 1. Adherence to the above steps will yield tolerances shown. |  | | |

Assembly Instructions AI-313 (2)

Procedure

5

Mounting Hole Dimensions

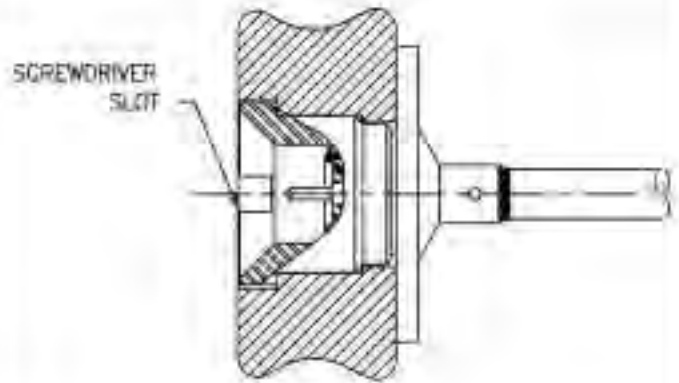


Procedure

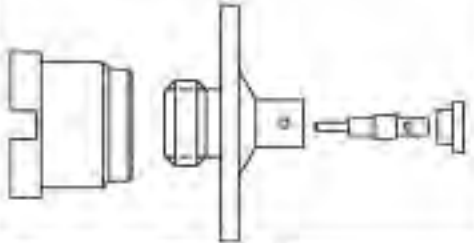
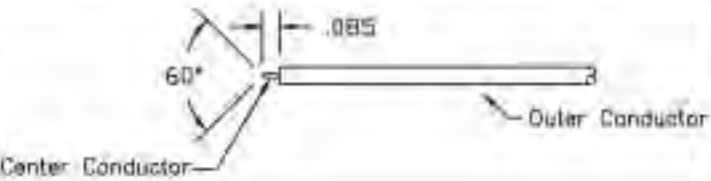
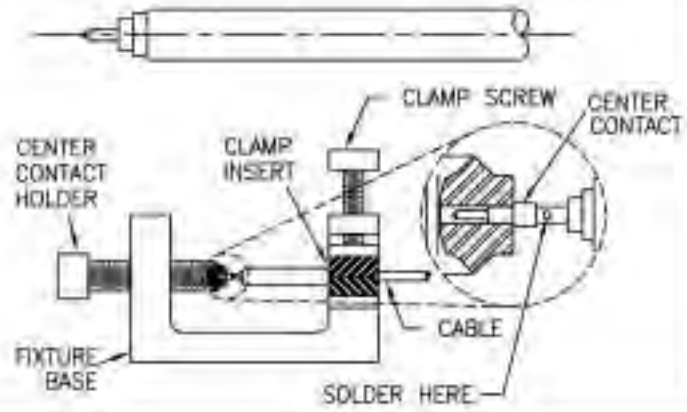
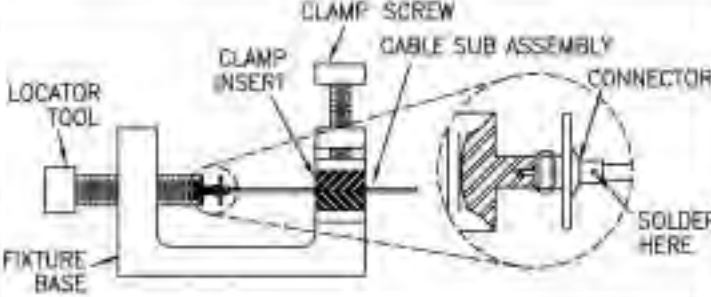
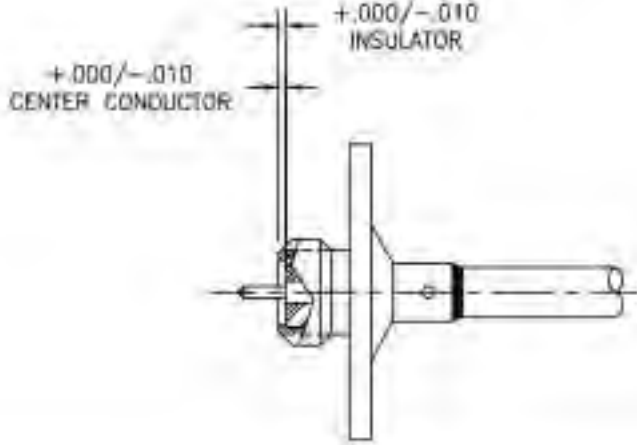
6

Installed Configuration

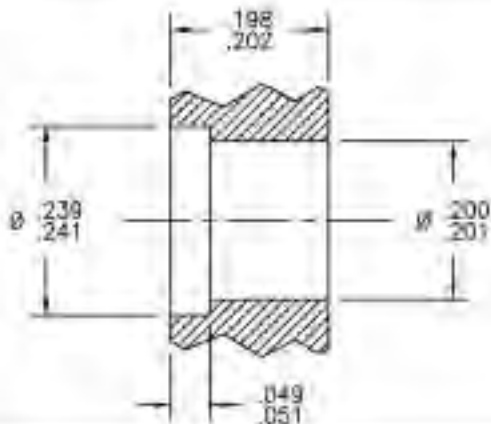
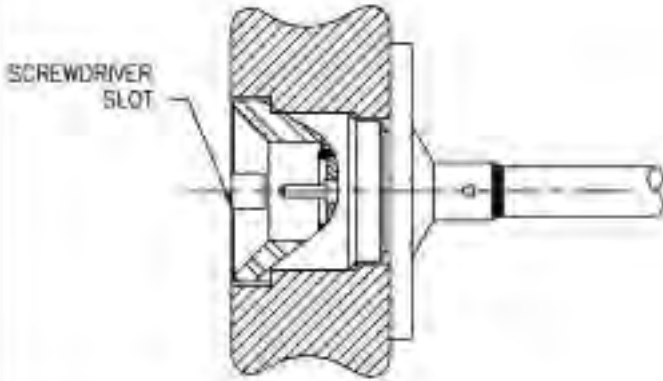
1. Install bulkhead mount as illustrated.
Torque 6-8 inch pounds.



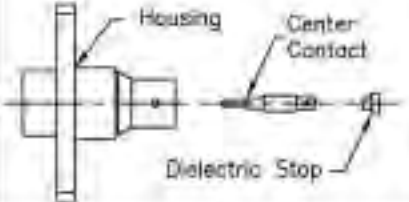
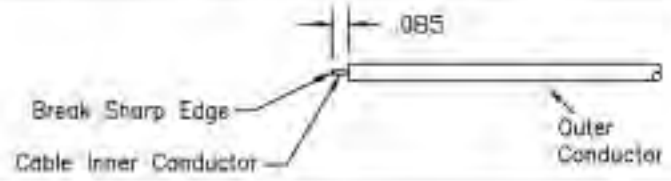
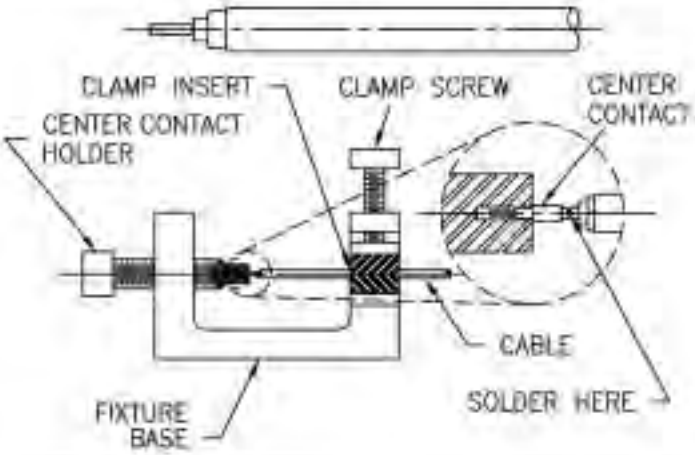
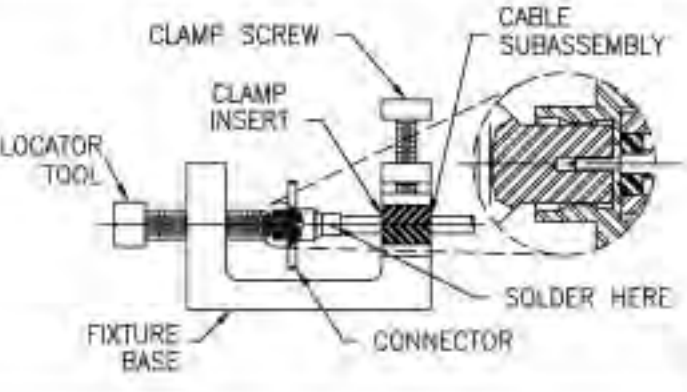
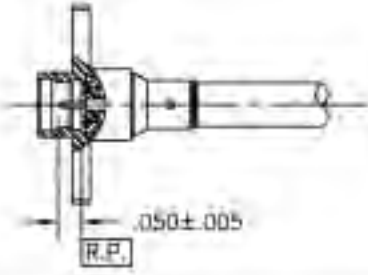
Assembly Instructions AI-314 (1)

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|---|--|---|--|
| <p>SMP MALE STRAIGHT SOLDER ON CONTACT</p> <p>Solder Attachment</p> | <p>S/R .047 & .047 LL</p> |  | <p>Fixture Base T-6053 Center Contact Holder T-6307 Locator Tool T-6308 Clamp Insert T-6055-3</p> | <p>P662-1CC P662-3CC P662-5CC P662-7CC</p> |
| <p>Procedure 1</p> | <p>Preparation of Cable</p> <p>1. Trim outer conductor and dielectric to dimension shown.</p> |  | | |
| <p>Procedure 2</p> | <p>Attach Center Conductor to Cable</p> <p>1. Install dielectric end stop over cable center conductor in the orientation shown.</p> <p>2. Place center contact over in center conductor of cable push flush to end stop. Solder in place as shown, temperature should not exceed 550°F.</p> <p>3. Allow to cool. Remove excess solder.</p> |  | | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <p>1. Install connector subassembly in locator tool.</p> <p>2. Locate an end of cable. Tighten locator tool gently to secure joint.</p> <p>3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F.</p> <p>4. Clean solder joint and remove excess flux.</p> |  | | |
| <p>Procedure 4</p> | <p>Inspection of Completed Connector Assembly</p> <p>1. Adherence to the above steps will yield tolerances shown.</p> |  | | |

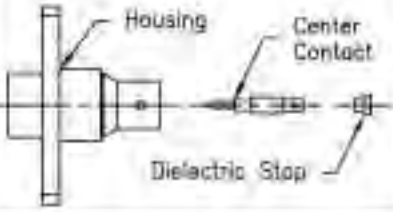
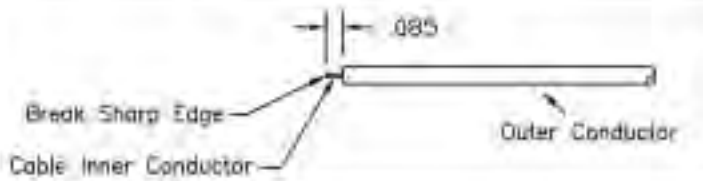
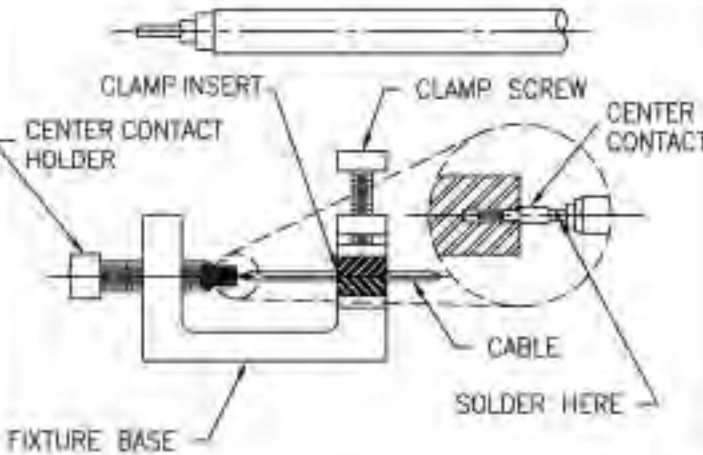
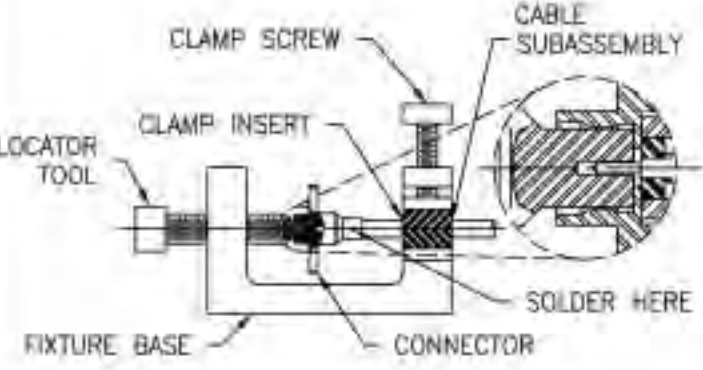
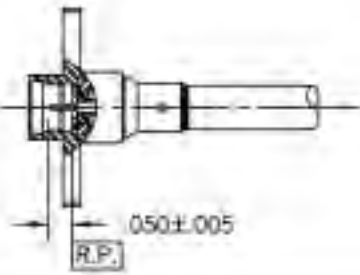
Assembly Instructions AI-314 (2)

| | | |
|---|--|--|
| <p>Procedure</p> <p>5</p> | <p>Mounting Hole Dimensions</p> |  <p>Technical drawing showing the dimensions of a mounting hole. The drawing is a cross-section of a hole in a material. The dimensions are: 198 (width of the top flange), .202 (thickness of the top flange), Ø 239 (outer diameter of the hole), .241 (total thickness of the hole), Ø 200 (inner diameter of the hole), .201 (thickness of the bottom flange), .049 (width of the bottom flange), and .051 (thickness of the bottom flange).</p> |
| <p>Procedure</p> <p>6</p> | <p>Installed Configuration</p> <p>1. Install bulkhead mount as illustrated. Torque 6-8 inch pounds.</p> |  <p>Technical drawing showing the installed configuration of the bulkhead mount. The drawing is a cross-section of the mount installed in a hole. A screwdriver is shown inserted into the mount. A label "SCREWDRIVER SLOT" points to the slot in the mount.</p> |
| | | |

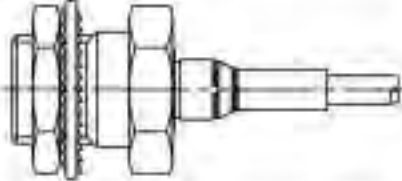
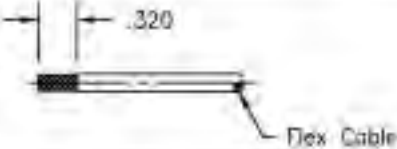

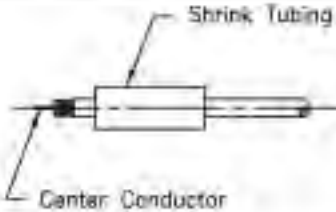
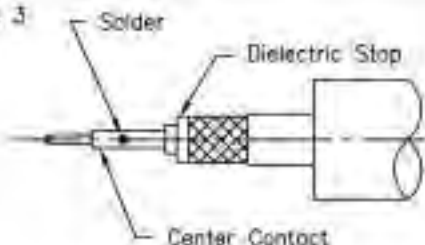
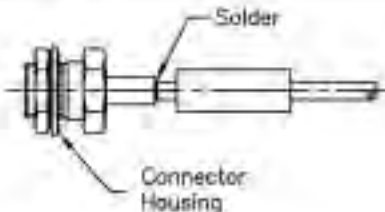
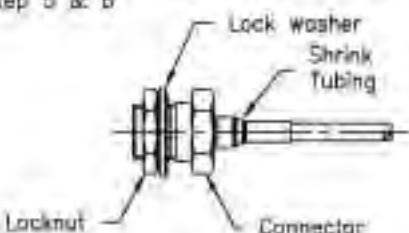
Assembly Instructions AI-315

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|--|--|--|
| <p>SMP Male Straight 2 Hole Flange. Mount With Solder On Contact.</p> <p>Solder Attachment</p> | <p>Ø .085 Semi-Rigid And Low Loss Cable.</p> |  | <p>Fixture Base: T-6053 Center Contact Holder And Locator Tool: T-6308-1 (-45F,-105F) T-6308-2 (-55F,-115F) T-6308-3 (-65F,-125F,-145F) Clamp Insert: T-6055-2</p> | <p>P664-45F, 55F,65F P664-105F, 11F,125F P664-145F</p> |
| <p>Procedure</p> <p>1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> Trim outer conductor and dielectric to dimension shown. |  | | |
| <p>Procedure</p> <p>2</p> | <p>Attach Center Conductor to Cable</p> <ol style="list-style-type: none"> Install dielectric stop over cable inner conductor in the orientation shown. Place center contact over center contact holder then slide over cable inner conductor until flush to dielectric stop. Solder in place as shown. Allow to cool. Remove excess solder. |  | | |
| <p>Procedure</p> <p>3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> Install connector subassembly in locator tool. Locate on end of cable. Tighten locator tool gently to secure joint. Solder connector to cable. Do not overheat. Clean solder joint and remove excess flux. |  | | |
| <p>Procedure</p> <p>4</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> Adherence to the above steps will yield tolerances shown. |  | | |


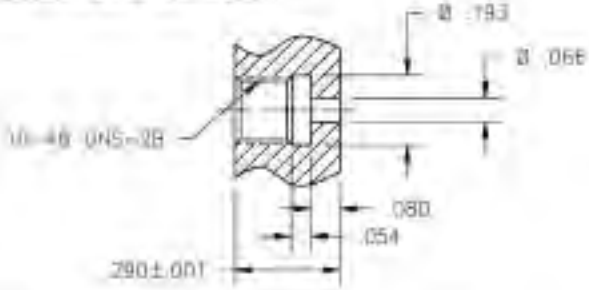
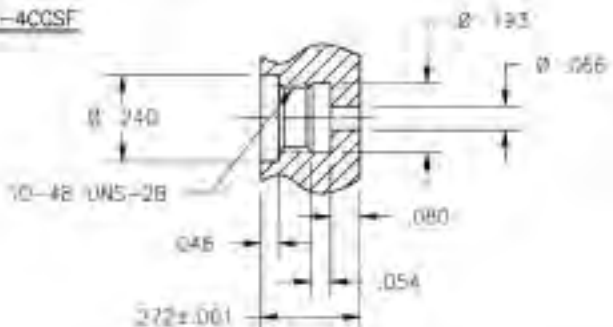
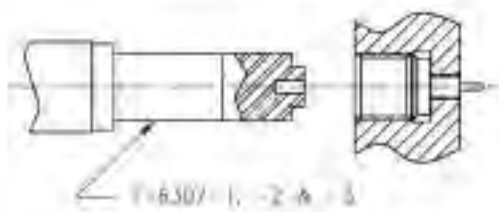
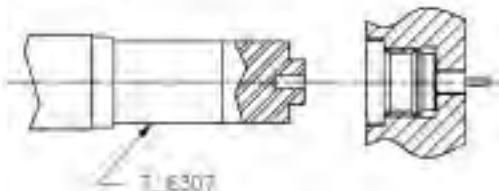
Assembly Instructions AI-316

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|--|---|--|
| <p>SMP Male Straight 2 Hole Flange Mount With Solder On Contact.</p> <p>Solder Attachment.</p> | <p>Ø .047 Semi-Rigid And Low Loss Cable.</p> |  | <p>Fixture Base: T-6053 Center Contact Holder And Locator Tool: T-6308-1 (-1SF, -7SF) T-6308-2 (-2SF, -8SF) T-6308-3 (-3SF, -9SF, -13SF) Clamp Insert: T-6055-3</p> | <p>P664-1SF, -2SF, -3SF P664-7SF, -8SF, -9SF P664-13SF</p> |
| <p>Procedure 1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Trim outer conductor and dielectric to dimension shown. |  | | |
| <p>Procedure 2</p> | <p>Attach Center Conductor to Cable</p> <ol style="list-style-type: none"> 1. Install dielectric stop over cable inner conductor in the orientation shown. 2. Place center contact over center contact holder then slide over cable inner conductor until flush to dielectric stop. Solder in place as shown. Temperature should not exceed 550°F. 3. Allow to cool. Remove excess solder. |  | | |
| <p>Procedure 3</p> | <p>Attach Cable to Connector</p> <ol style="list-style-type: none"> 1. Install connector subassembly in locator tool. 2. Locate on end of cable. Tighten locator tool gently to secure joint. 3. Solder connector to cable. Do not overheat. Temperature must not exceed 550° F. 4. Clean solder joint and remove excess flux. |  | | |
| <p>Procedure 4</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> 1. Adherence to the above steps will yield tolerances shown. |  | | |

Assembly Instructions AI-334

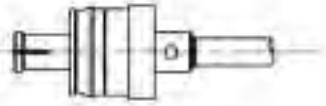
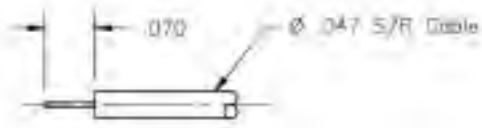
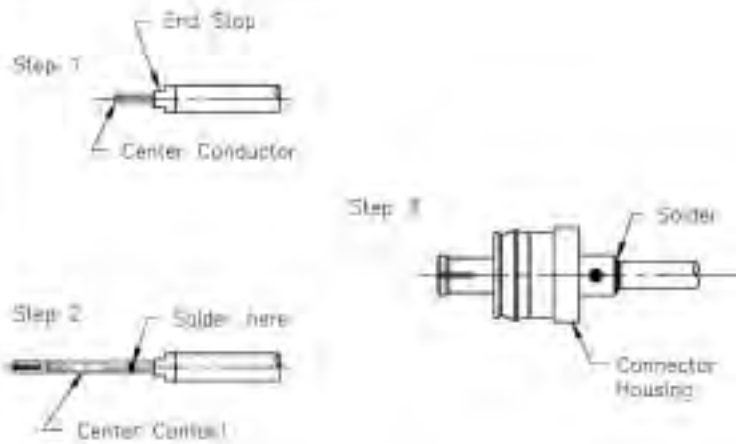
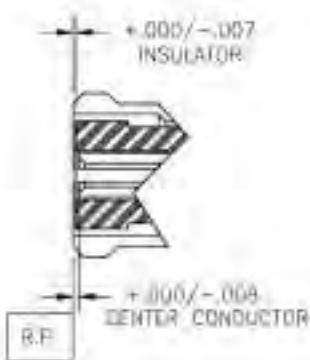
| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|---|--|---|------------------|---|
| SMP Male Straight to Flex Cable | RG17B RG316 RD17B RD316 |  | No Tool Required | P661-1CC P661-7CC P661-2CC P661-8CC P661-3CC P661-9CC P661-4CC P661-10CC P661-5CC P661-11CC P661-6CC P661-12CC |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">1</div> | Preparation of Cable 1. Prepare cable end as shown. 2. Dip stripped end into solder pot for 3-5 seconds and allow solder to wet braid. Solder pot temp to be at 500°F. 3. Trim dielectric cable braid and expose center conductor as shown. 4. Tin center conductor. | Step 1 & 2  Step 3  | | |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue; text-align: center;">2</div> | Attach Cable to Housing 1. Place shrink tubing over cable. 2. Install dielectric end stop over cable center conductor in the orientation shown. 3. Place center contact over the center conductor of cable. Push flush to dielectric stop. Solder in place. 4. Insert cable sub-assembly into connector housing. Solder in place. 5. Slide heat shrink tubing to back end of connector housing. Shrink into place. 6. Apply torque 30-40 Oz-in to locknut when mounting on panel. | Step 1  Step 2 & 3  Step 4  Step 5 & 6  | | |

Assembly Instructions AI-359


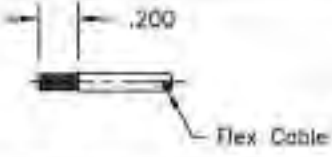
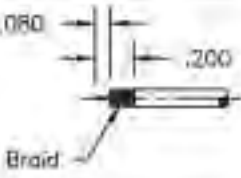
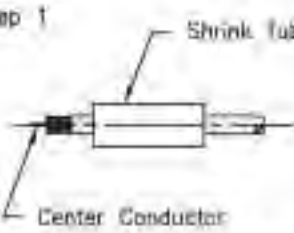
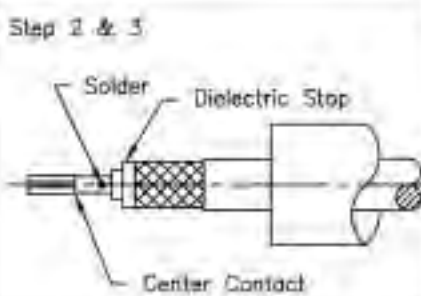
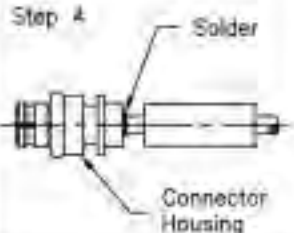
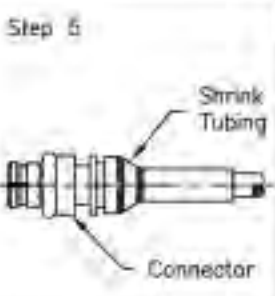
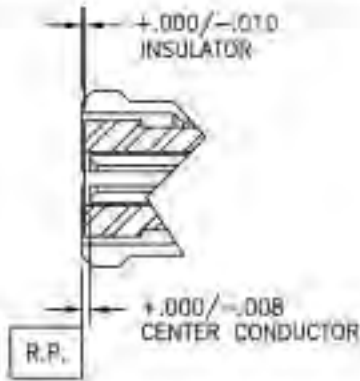
| Connector Type SMP Male Coaxial Contact Thread-In Attachment | Cable Type | Connector Components  | Tools Required Installation & Removal Tool | P/N T-6307 | Connector P/N P674-1CCSF P674-2CCSF P674-3CCSF P674-4CCSF |
|---|--|---|---|----------------------|--|
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue;">1</div> | Mounting Hole Configuration | <div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 20px;"> <p><u>P674-1CCSF, -2CCSF & -3CCSF</u></p>  </div> <div> <p><u>P674-4CCSF</u></p>  </div> </div> | | | |
| Procedure <div style="font-size: 48pt; font-weight: bold; color: blue;">2</div> | Shroud Installation 1. Install shroud by threading into housing. 2. Use tool to torque to 8-10 inch pounds. | <div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 20px;"> <p><u>P674-1CCSF, -2CCSF & -3CCSF</u></p>  </div> <div> <p><u>P674-4CCSF</u></p>  </div> </div> | | | |

| P/N | Tool No. |
|--------|----------|
| -1CCSF | T-6307-1 |
| -2CCSF | T-6307-2 |
| -3CCSF | T-6307-3 |
| -4CCSF | T-6307 |

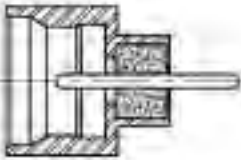
Assembly Instructions AI-364

| Connector Type SMP Female Flange Mount to S/R Cable | Cable Type Ø .047 S/R Micro-Paraxial | Connector Components  | Tools Required No special tools required. | Connector P/N P866-700 P866-800 |
|---|--|--|--|--|
| Procedure 1 | Preparation of Cable 1. Prepare cable end as shown. |  | | |
| Procedure 2 | Attach Cable to Housing 1. Install dielectric end stop over cable center conductor in the orientation shown. 2. Place center contact over the center conductor of cable. Push flush to end stop. Solder in place. 3. Insert cable into connector housing. Solder in place. |  | | |
| Procedure 3 | Inspection of Completed Connector Assembly 1. Adherence in the above steps will yield tolerances shown. |  | | |

Assembly Instructions AI-365

| Connector Type | Cable Type | Connector Components | Tools Required | Connector P/N |
|--|--|--|--|--|
| <p>SMP Female Straight to Flex Cable</p> | <p>RG178 RG316 RD178 RD316</p> |  | <p>No Tool Required</p> | <p>P657-1CC P657-9CC P657-2CC P657-10CC P657-3CC P657-4CC P657-5CC P657-6CC P657-7CC</p> |
| <p>Procedure 1</p> | <p>Preparation of Cable</p> <ol style="list-style-type: none"> 1. Prepare cable end as shown. 2. Dip stripped end into solder pot for 3-5 seconds and allow solder to wet braid. Solder pot temp to be at 500°F. 3. Trim dielectric cable braid and expose center conductor as shown. | <p>Step 1 & 2</p>  <p>Step 3</p>  | | |
| <p>Procedure 2</p> | <p>Attach Cable to Housing</p> <ol style="list-style-type: none"> 1. Place shrink tubing over cable. 2. Install dielectric end stop over cable center conductor in the orientation shown. 3. Place center contact over the center conductor of cable. Push flush to dielectric stop. Solder in place. 4. Insert cable sub-assembly into connector housing. Solder in place. 5. Slide heat shrink tubing to back end of connector housing. Shrink into place. | <p>Step 1</p>  <p>Step 2 & 3</p>  | <p>Step 4</p>  <p>Step 5</p>  | |
| <p>Procedure 3</p> | <p>Inspection of Completed Connector Assembly</p> <ol style="list-style-type: none"> 1. Adherence to the above steps will yield tolerances shown. |  <p>+ .000 / - .010 INSULATOR</p> <p>+ .000 / - .008 CENTER CONDUCTOR</p> <p>R.P.</p> | | |

Assembly Instructions AI-367

| Connector Type SMP MALE HERMETIC Solder Attachment | Cable Type | Connector Components  | Tools Required Locator Tool: T-8298-2 Collector P/N P794-100 |
|---|------------|---|---|
|---|------------|---|---|

- 1** MOUNT CONNECTOR ON LOCATOR TOOL AS SHOWN
- 2** INSTALL SOLDER RING ON CONNECTOR AS SHOWN
- 3** INSERT LOCATOR TOOL WITH CONNECTOR AND SOLDER RING INTO PANEL AS SHOWN
- 4** SOLDER INTO PLACE

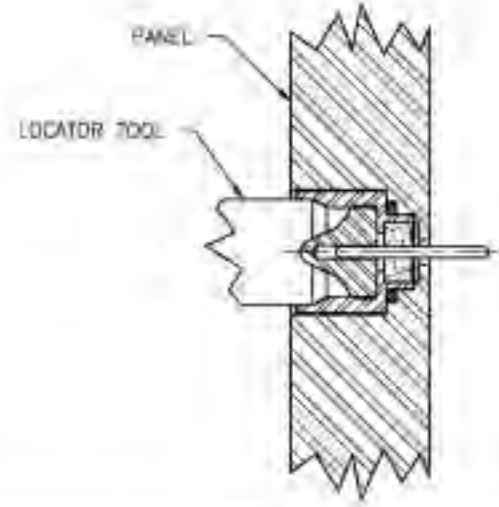
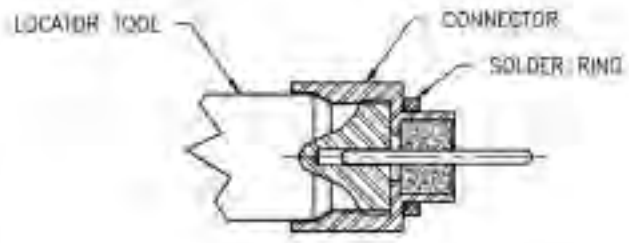
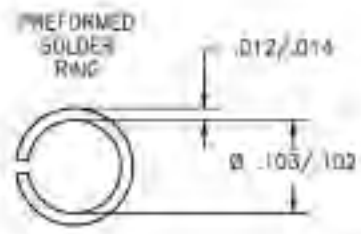
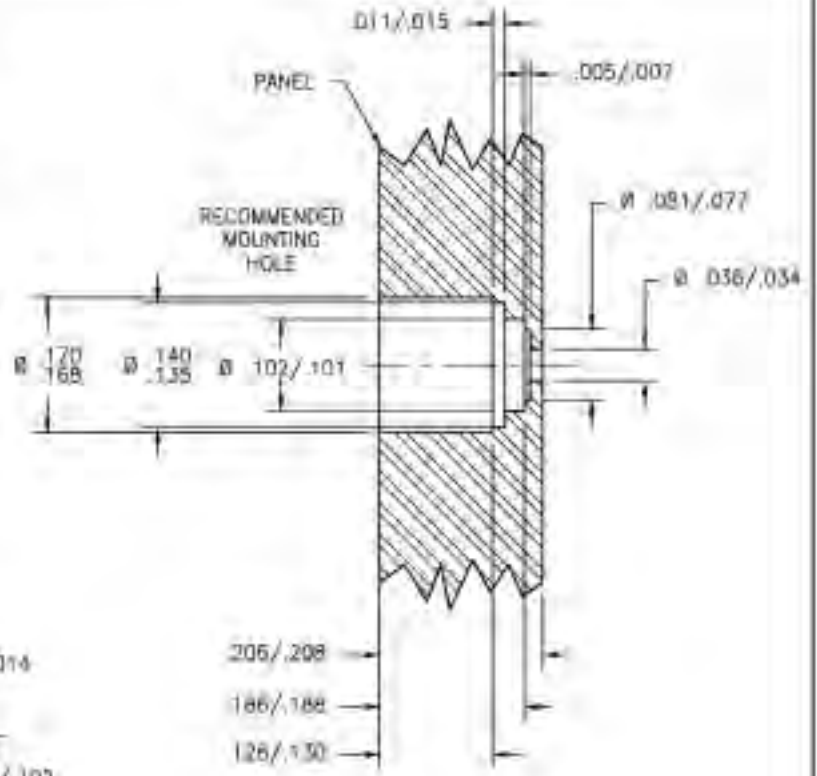


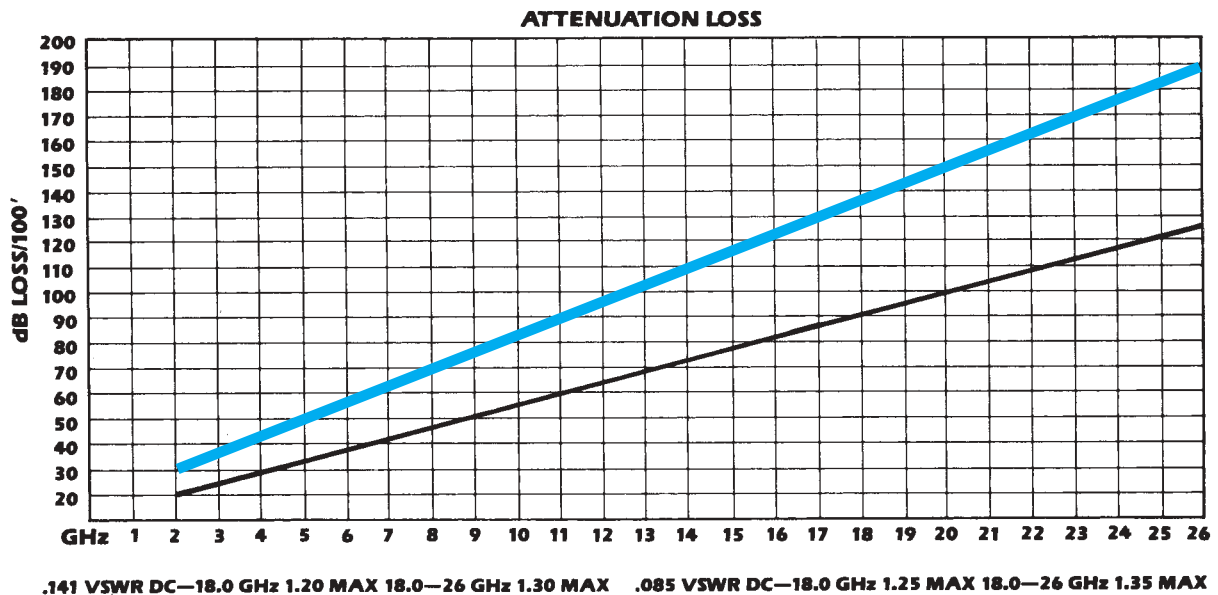
Table of VSWR Conversions

| VSWR to Return Loss | | | Return Loss to VSWR | | |
|---------------------|------------------------|-----------------|---------------------|------------------------|-------|
| VSWR | Reflection Coefficient | Return Loss, dB | Return Loss, dB | Reflection Coefficient | VSWR |
| 1.01 | .0050 | 46.06 | 40 | .0100 | 1.020 |
| 1.02 | .0099 | 40.09 | 39 | .0112 | 1.023 |
| 1.03 | .0148 | 36.61 | 38 | .0126 | 1.026 |
| 1.04 | .0196 | 34.15 | 37 | .0141 | 1.029 |
| 1.05 | .0244 | 32.26 | 36 | .0158 | 1.032 |
| 1.06 | .0291 | 30.71 | 35 | .0178 | 1.036 |
| 1.07 | .0338 | 29.42 | 34 | .0200 | 1.041 |
| 1.08 | .0385 | 28.30 | 33 | .0224 | 1.046 |
| 1.09 | .0431 | 27.32 | 32 | .0251 | 1.052 |
| 1.10 | .0476 | 26.44 | 31 | .0282 | 1.058 |
| 1.11 | .0521 | 25.66 | 30 | .0316 | 1.065 |
| 1.12 | .0566 | 24.94 | 29 | .0355 | 1.074 |
| 1.13 | .0610 | 24.29 | 28 | .0398 | 1.083 |
| 1.14 | .0654 | 23.69 | 27 | .0447 | 1.094 |
| 1.15 | .0698 | 23.13 | 26 | .0501 | 1.106 |
| 1.16 | .0741 | 22.61 | 25 | .0562 | 1.119 |
| 1.17 | .0783 | 22.12 | 24 | .0631 | 1.135 |
| 1.18 | .0826 | 21.66 | 23 | .0708 | 1.152 |
| 1.19 | .0868 | 21.23 | 22 | .0794 | 1.173 |
| 1.20 | .0909 | 20.83 | 21 | .0891 | 1.196 |
| 1.21 | .0950 | 20.44 | 20 | .1000 | 1.222 |
| 1.22 | .0991 | 20.08 | 19 | .1122 | 1.253 |
| 1.23 | .1031 | 19.73 | 18 | .1259 | 1.288 |
| 1.24 | .1071 | 19.40 | 17 | .1413 | 1.329 |
| 1.25 | .1111 | 19.08 | 16 | .1585 | 1.377 |
| 1.26 | .1150 | 18.78 | 15 | .1778 | 1.433 |
| 1.27 | .1189 | 18.49 | 14 | .1995 | 1.499 |
| 1.28 | .1228 | 18.22 | 13 | .2239 | 1.577 |
| 1.29 | .1266 | 17.95 | 12 | .2512 | 1.671 |
| 1.30 | .1304 | 17.69 | 11 | .2818 | 1.785 |

RG Flexible Cable Dimensions

| Cable | Center Conductor | O.D. Dielectric | O.D. Shield | O.D. | Impedance |
|-----------|------------------|-----------------|-------------|------|-----------|
| RG-55B/U | .032 | .116 | (DB).176 | .206 | 53.5 |
| RG-58C/U | .038 | .116 | .150 | .195 | 50 |
| RG-59B/U | .023 | .146 | .191 | .242 | 75 |
| RG-62A/U | .025 | .146 | .191 | .242 | 93 |
| RG-71B/U | .025 | .146 | .208 | .250 | 93 |
| RG-140/U | .025 | .146 | .176 | .233 | 75 |
| RG-141A/U | .039 | .116 | .146 | .190 | 50 |
| RG-142B/U | .039 | .116 | (DB).171 | .195 | 50 |
| RG-174B/U | .019 | .060 | .080 | .100 | 50 |
| RG-178B/U | .012 | .035 | .054 | .080 | 50 |
| RG-179B/U | .012 | .060 | .084 | .110 | 75 |
| RG-180B/U | .012 | .102 | .124 | .145 | 95 |
| RG-187A/U | .012 | .060 | .084 | .110 | 75 |
| RG-188A/U | .020 | .060 | .081 | .110 | 50 |
| RG-195A/U | .012 | .102 | .124 | .155 | 95 |
| RG-196A/U | .012 | .034 | .054 | .080 | 50 |
| RG-223/U | .032 | .116 | (DB).176 | .206 | 53.5 |
| RG-303/U | .039 | .116 | .146 | .190 | 50 |
| RG-316/U | .020 | .060 | .081 | .110 | 50 |

Semi-Flex® Flexible Reformable Cable Attenuation and VSWR



M39012/ Tensolite P/N

| | |
|---------|---------------|
| 79-3007 | .5285-M007-01 |
| 79-3008 | .5285-M008-01 |
| 79-3011 | .5285-M011-01 |
| 79-3012 | .5285-M012-01 |
| 79-3107 | .5285-M107-01 |
| 79-3108 | .5285-M108-01 |
| 79-3111 | .5285-M111-01 |
| 79-3112 | .5285-M112-01 |
| 79B3001 | .5285-M001-01 |
| 79B3002 | .5285-M002-01 |
| 79B3003 | .5285-M003-01 |
| 79B3004 | .5285-M004-01 |
| 79B3101 | .5285-M101-01 |
| 79B3102 | .5285-M102-01 |
| 79B3103 | .5285-M103-01 |
| 79B3104 | .5285-M104-01 |
| 80-3005 | .5850-M005-01 |
| 80-3006 | .5850-M006-01 |
| 80-3007 | .5850-M007-01 |
| 80-3008 | .5850-M008-01 |
| 80-3011 | .5850-M011-01 |
| 80-3012 | .5850-M012-01 |
| 80-3105 | .5850-M105-01 |
| 80-3106 | .5850-M106-01 |
| 80-3107 | .5850-M107-01 |
| 80-3108 | .5850-M108-01 |
| 80-3111 | .5850-M111-01 |
| 80-3112 | .5850-M112-01 |
| 80B3001 | .5850-M001-01 |
| 80B3002 | .5850-M002-01 |
| 80B3003 | .5850-M003-01 |
| 80B3004 | .5850-M004-01 |
| 80B3101 | .5850-M101-01 |
| 80B3102 | .5850-M102-01 |
| 80B3103 | .5850-M103-01 |
| 80B3104 | .5850-M104-01 |
| 81-3005 | .5286-M005-01 |
| 81-3006 | .5286-M006-01 |
| 81-3007 | .5286-M007-01 |
| 81-3008 | .5286-M008-01 |
| 81-3011 | .5286-M011-01 |
| 81-3012 | .5286-M012-01 |
| 81B3001 | .5286-M001-01 |
| 81B3002 | .5286-M002-01 |
| 81B3003 | .5286-M003-01 |
| 81B3004 | .5286-M004-01 |
| 82-3005 | .5228-M005-01 |
| 82-3006 | .5228-M006-01 |
| 82-3007 | .5228-M007-01 |
| 82-3008 | .5228-M008-01 |
| 82-3011 | .5228-M011-01 |
| 82-3012 | .5228-M012-01 |
| 82-3013 | .5229-M013-01 |
| 82-3014 | .5229-M014-01 |
| 82B3001 | .5228-M001-01 |
| 82B3002 | .5228-M002-01 |
| 82B3003 | .5228-M003-01 |
| 82B3004 | .5228-M004-01 |
| 83-3005 | .5289-M005-01 |

M39012/ Tensolite P/N

| | |
|--------------|-----------------|
| 83-3006 | .5289-M006-01 |
| 83-3007 | .5289-M007-01 |
| 83-3008 | .5289-M008-01 |
| 83-3011 | .5289-M011-01 |
| 83-3012 | .5289-M012-01 |
| 83B3001 | .5289-M001-01 |
| 83B3002 | .5289-M002-01 |
| 83B3003 | .5289-M003-01 |
| 83B3004 | .5289-M004-01 |
| 92B3001 | .5319-M001-01 |
| 92B3003 | .5319-M003-01 |
| 92B3101 | .5319-M101-01 |
| 92B3103 | .5319-M103-01 |
| 84149SSG | .5285-135-1CCSF |
| 84149SSG-1 | .5285-135-3SF |
| 84149SSGA | .5285-135-2CCSF |
| 84149SSGA-1 | .5285-135-4SF |
| 85022SSG | .5229-135-1CC |
| 85022SSG-1 | .5229-135-3 |
| 85022SSGA | .5229-135-2CC |
| 85022SSGA-1 | .5229-135-4 |
| 85037SSG | .5850-135-1CCSF |
| 85037SSG-1 | .5850-135-3CCSF |
| 85037SSGA | .5850-135-2CCSF |
| 8503812FP-3 | .5045-135-1CCSF |
| 8503812FP-4 | .5012-135-1CCSF |
| 8503812FP-5 | .5009-135-1CCSF |
| 8503812FP-6 | .5009-135-1CCSF |
| 8503812FP-7 | .5009-135-1CCSF |
| 8604412SP-1 | .5006-135-1CCSF |
| 8604412SP-2 | .5010-135-1CCSF |
| 8604412SP-3 | .5008-135-1CCSF |
| 8604412SP-4 | .5004-135-1CCSF |
| 88046SSG | .5286-135-1CC |
| 88046SSG-1 | .5286-135-3 |
| 88046SSGA | .5286-135-2CC |
| 88046SSGA-1 | .5286-135-4 |
| 88047SSG | .5289-135-1CC |
| 88047SSG-1 | .5289-135-3 |
| 88047SSGA | .5289-135-2CC |
| 88047SSGA-1 | .5289-135-4 |
| 885037SSGA-1 | .5850-135-4CCSF |
| 94007ZCG-1 | .P650-135-1CC |
| 94007ZCG-2 | .P650-135-2CC |
| 94007ZSP-3 | .P670-135-1SF |
| 94007ZSP-3L | .P672-135-1SF |
| 94007ZSP-3S | .P673-135-1SF |
| 94007ZSP-4 | .P670-135-2SF |
| 94007ZSP-4L | .P672-135-2SF |
| 94007ZSP-4S | .P673-135-2SF |
| 94007ZSP-5 | .P670-135-3SF |
| 94007ZSP-5L | .P672-135-3SF |
| 94007ZSP-5S | .P673-135-3SF |
| 9400ZSP-6SC | .P671-135-1SF |
| 94008ZCG-1 | .P651-135-1CC |
| 94008ZCG-2 | .P651-135-2CC |
| 94008ZCG-3 | .P652-135-1CC |
| 94008ZCG-4 | .P652-135-2CC |



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