



# RF Connectors Technical Data Sheet

PE45497

## Configuration

- SSMC Plug Connector
- 50 Ohms
- Right Angle Body Geometry

Connector Interface Types: ET-RG316, ET-RG188, ET-RG174, ET-C100-LSZH, ET-B100, ET-ET38381, ET-LMR-100A

### Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.62:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204
- Reliable threaded coupling

- Small SSMC connector form factor (50% smaller than SMA, radially)
- IEC 60169-20 SSMC connector interface
- In stock and ready to ship

## Applications

- General Purpose Test
- Custom Cable Assemblies
- Avionics

- A/D Modules
- Data Acquisition
- Software defined radio (SDR)
- RADAR/SONAR
- Ultra Wideband Digital Receivers
- Medical equipment

#### Description

Ebeestock's ET11665 SSMC plug right angle connector with crimp/solder attachment for ET-RG316, ET-RG188, ET-RG174, ET-C100- LSZH, ET-B100, ET-ET38381 and ET-LMR-100A is part of our full line of RF components available for same-day shipping. Our SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.62:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SSMC plug right angle connector ET11665 datasheet specifications and drawing with dimensions are shown below in this PDF. Ebeestock's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Ebeestock has the right connector for the job. Ebeestock can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.62:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			250	Vrms
High Potential Voltage			400	Vrms
5 MHz				
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	1,000			MOhms
RF Leakage	-50			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Plug Right Angle Connector Crimp/Solder Attachment for ET-RG316, ET-RG188, ET-RG174, ET-C100-LSZH, ET-B100, ET-ET38381, ET-LMR-100A ET11665

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### Mechanical Specifications

Size

 Length
 0.421 in [10.69 mm]

 Width/Dia.
 0.156 in [3.96 mm]

 Height
 0.33 in [8.38 mm]

 Weight
 0.007 lbs [3.18 g]

Mating Cycles 500 Cycles

1.75 to 2 in-lbs [0.20 to 0.23 Nm]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	Teflon	
Body	Brass	Gold MIL-G-45204
Coupling Nut	Beryllium Copper	Gold MIL-G-45204
Crimp Sleeve	Brass	Gold MIL-G-45204

#### **Environmental Specifications**

Temperature

Operating Range -65 to +165 deg C

Shock Method 213, Condition B, 75G @6ms @1/2 sine

Vibration Method 204, Condition D (20G)

Salt Spray Method 101, Condition B, 5% salt solution

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

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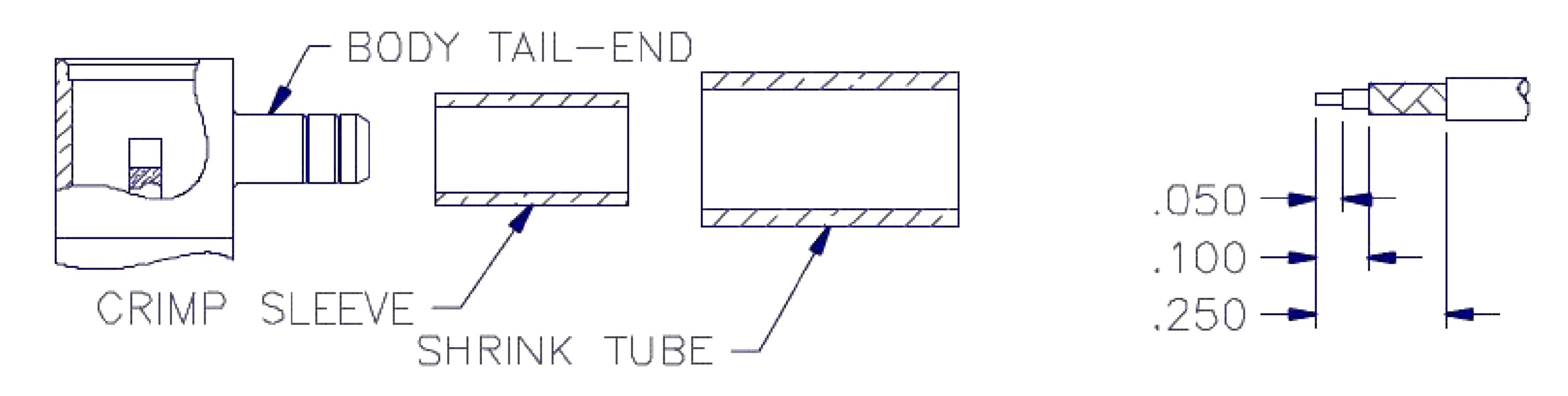


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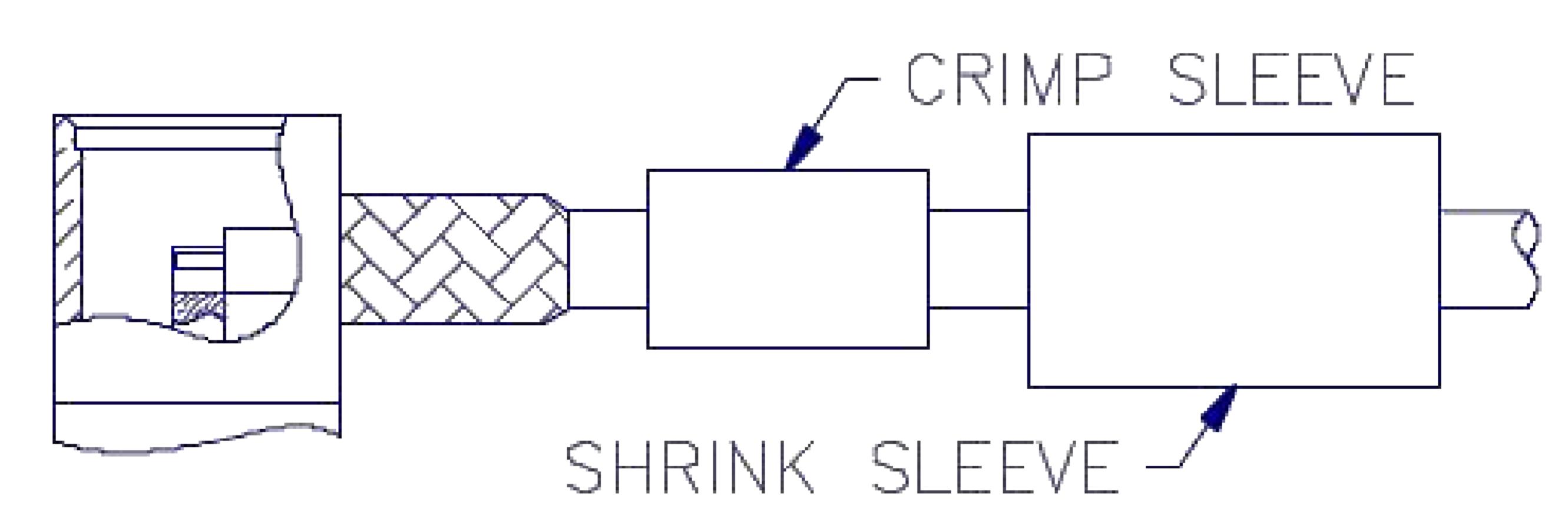
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#### **Assembly Instruction**

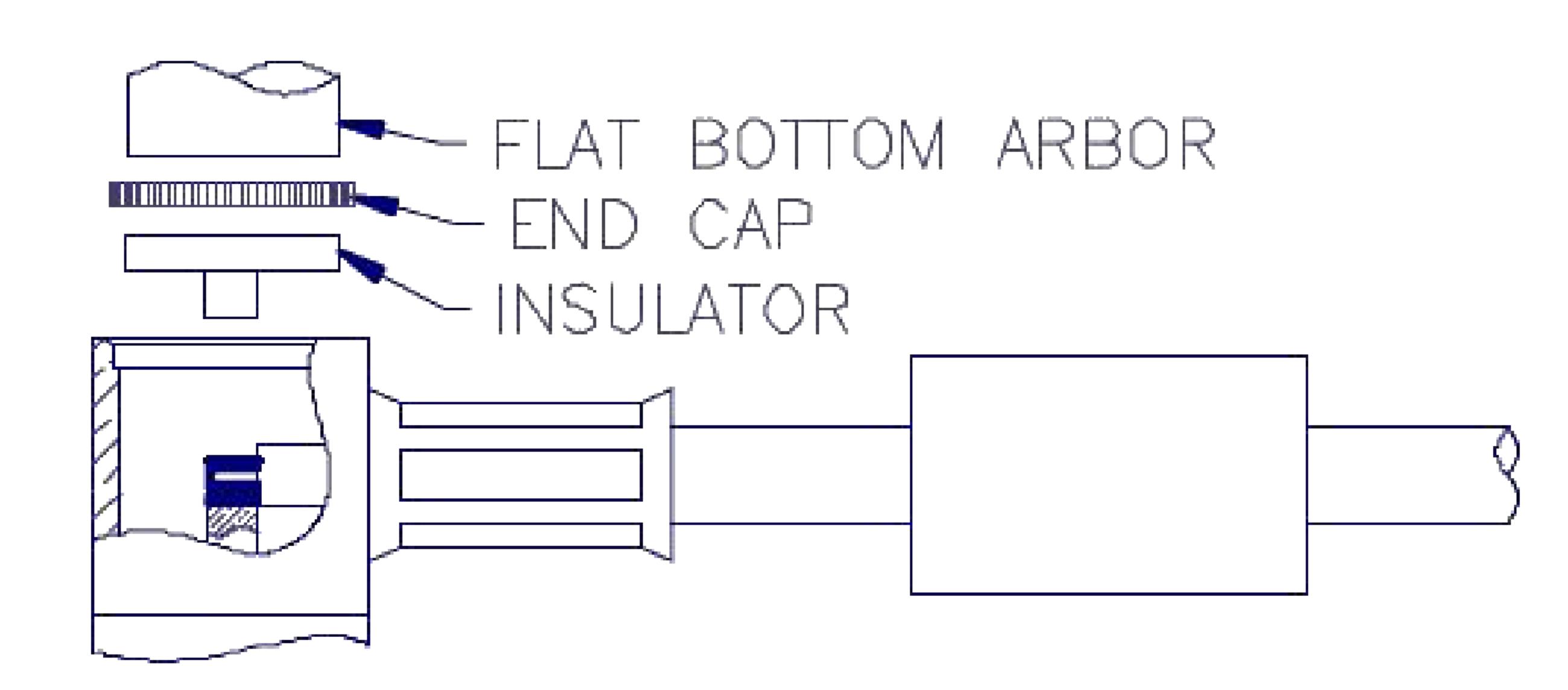
### Assembly Instructions



- 1. TRIM CABLE AS SHOWN ABOVE. TIN END OF CENTER CONDUCTOR.
- 2. SLIDE CRIMP SLEEVE AND SHRINK TUBE (IF SUPPLIED) OVER CABLE JACKET.
- 3. FLARE CABLE BRAID OUT SLIGHTLY BY ROTATING DIELECTRIC.



- 4. INSERT CABLE ASSEMBLY INTO BODY TAIL-END MAKING SURE TAIL GOES OVER DIELECTRIC AND UNDER BRAID. SLIDE IN UNTIL BRAID TOUCHES REAR SURFACE OF BODY.
- 5. SLIDE CRIMP SLEEVE FORWARD AND USE .128 HEX DIE TO CRIMP SLEEVE TO BRAID.



- 6. SOLDER CENTER CONDUCTOR OF CABLE TO CONTACT.
- 7. PLACE INSULATOR AND END CAP INTO CONNECTOR BODY AS SHOWN AND USE A .185" DIAMETER FLAT BOTTOM PUNCH TO PRESS CAP IN PLACE. CAP MUST BE BELOW SURFACE TO SEAT PROPERLY.
- 8. SLIDE SHRINK TUBE (IF SUPPLIED) OVER CRIMP SLEEVE AND SHRINK TO FIT.

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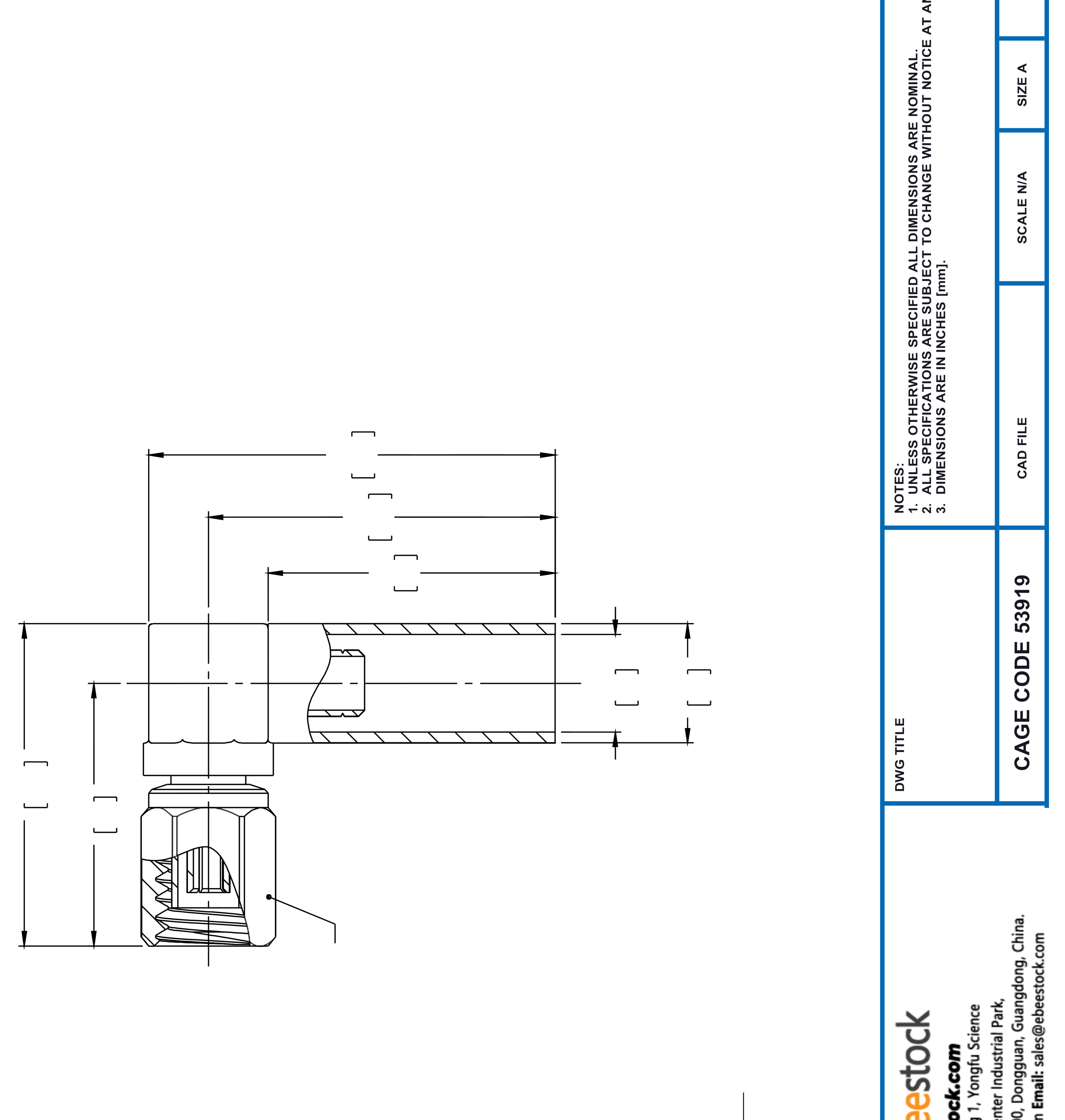
ET1165

SSMC Plug Right Angle Connector Crimp/Solder Attachment for ET-RG316, ET-RG188, ET-RG174, ET-C100-LSZH, ET-B100, LMR- 100A-FR, ET-LMR-100A from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Plug Right Angle Connector Crimp/Solder Attachment for ET-RG316, ET-RG188, ET-RG174, ET-C100-LSZH, ET-B100, ET-ET38381, ET-LMR-100A ET11665

**URL:** https://www.ebeestock.com/ssmc-plug-right-angle-connector-crimp-solder-attachment-for-rg31 6-rg188-rg174-pe-c100-lszh-pe-b100-lmr-100a-fr-lmr-100a-0011665

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.



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