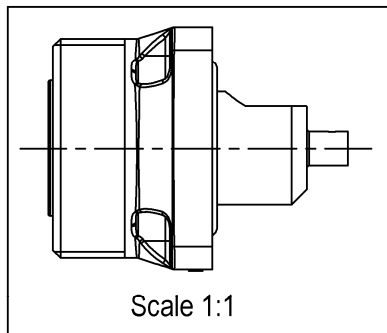
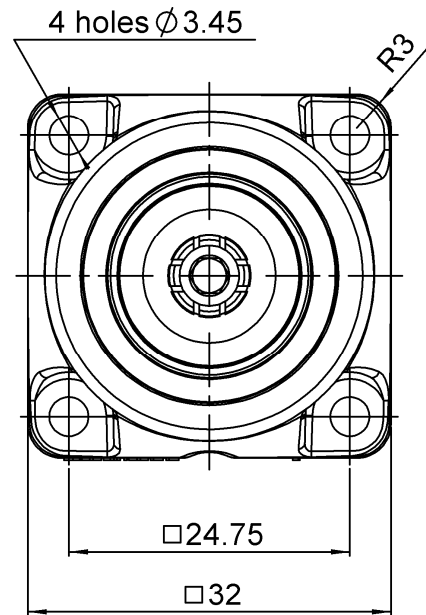
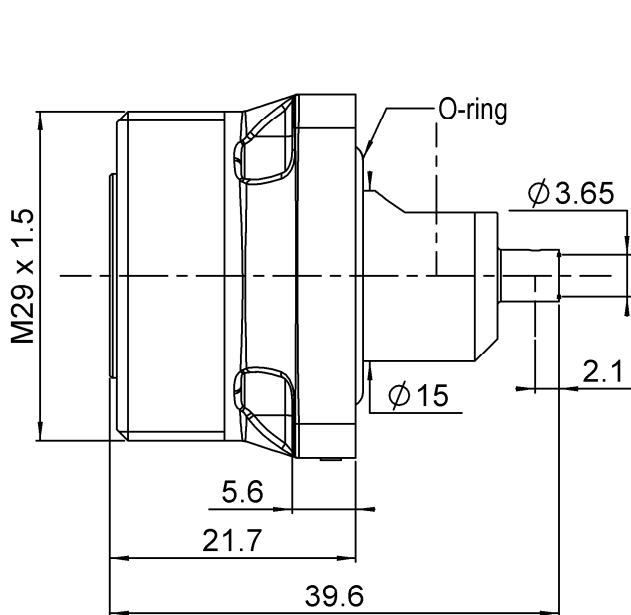


COMPOSITE SQUARE FLANGE JACK RECEPTACLE

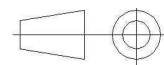
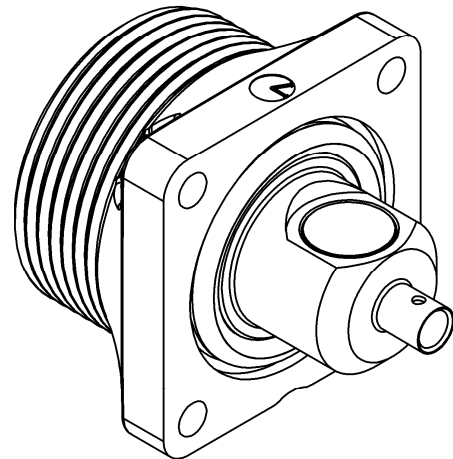
**R187.403.010**

PANEL SEAL - SOLDER TYPE CABLE .141

Series : 7/16  
COMPOSITE



| PANEL CUT OUT |      |      |
|---------------|------|------|
| A DIA         | A    |      |
| B DIA         | B    |      |
| 4 holes       | C    |      |
|               | mm   |      |
|               | Maxi | mini |
| A             | 16.2 | 16   |
| B             | 3.7  | 3.6  |
| C             | 24.8 | 24.7 |



All dimensions are in mm.

| COMPONENTS     | MATERIALS       | PLATING (µm)             |
|----------------|-----------------|--------------------------|
| BODY           | -               | -                        |
| CENTER CONTACT | BRONZE          | SILVER 5 OVER COPPER 0.5 |
| OUTER CONTACT  | BRASS           | BBR 0.5 OVER SILVER 3    |
| INSULATOR      | PTFE            | -                        |
| GASKET         | SILICONE RUBBER | -                        |
| OTHERS PARTS   | -               | -                        |
| -              | -               | -                        |
| -              | -               | -                        |

Issue : 0945 B

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

**RADIAL** 

**COMPOSITE SQUARE FLANGE JACK RECEPTACLE****R187.403.010****PANEL SEAL - SOLDER TYPE CABLE .141**Series : 7/16  
**COMPOSITE****PACKAGING**

| Standard  | Unit              | Other             |
|-----------|-------------------|-------------------|
| <b>40</b> | <b>'W' option</b> | <b>Contact us</b> |

**SPECIFICATION****ELECTRICAL CHARACTERISTICS**

|                                 |                       |                          |
|---------------------------------|-----------------------|--------------------------|
| Impedance                       | <b>50</b>             | $\Omega$                 |
| Frequency                       | <b>0-7.5</b>          | GHz                      |
| VSWR                            | <b>*1.06 + 0,0000</b> | x F(GHz) Maxi            |
| Insertion loss                  | <b>0.05</b>           | $\sqrt{F}$ (GHz) dB Maxi |
| RF leakage                      | <b>- ( NA</b>         | - F(GHz)) dB Maxi        |
| Voltage rating                  | <b>1400</b>           | Veff Maxi                |
| Dielectric withstanding voltage | <b>2700</b>           | Veff mini                |
| Insulation resistance           | <b>10000</b>          | M $\Omega$ mini          |

**CABLE ASSEMBLY**

| Stripping | a    | b    | c    | d    | e    | f    |
|-----------|------|------|------|------|------|------|
| mm        | 4,50 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |

Assembly instruction: **NA**

Recommended cable(s)

RG 402  
KS 2  
BELN 1673A

Characteristics indicated on this data sheet are those that can be achieved with the highest performance cable. Intrinsic limitations of the cable may diminish the performance of the assembly

Cable retention

|            |            |        |
|------------|------------|--------|
| - pull off | <b>500</b> | N mini |
| - torque   | <b>NA</b>  | N.cm   |

**MECHANICAL CHARACTERISTICS**

|                            |               |           |
|----------------------------|---------------|-----------|
| Center contact retention   |               |           |
| Axial force – Mating end   | <b>200</b>    | N mini    |
| Axial force – Opposite end | <b>100***</b> | N mini    |
| Torque                     | <b>25</b>     | N.cm mini |

Recommended torque

|               |               |      |
|---------------|---------------|------|
| Mating        | <b>NA</b>     | N.cm |
| Panel nut     | <b>NA</b>     | N.cm |
| Clamp nut     | <b>NA</b>     | N.cm |
| A/F clamp nut | <b>0,0000</b> | mm   |

|             |                |             |
|-------------|----------------|-------------|
| Mating life | <b>500</b>     | Cycles mini |
| Weight      | <b>18,6100</b> | g           |

**TOOLING**

| Part Number  | Description        | Hexagon |
|--------------|--------------------|---------|
| .            | .                  | .       |
| R282.053.000 | STRIPPING TOOL     |         |
| R282.066.010 | POINTER GAUGE      |         |
| R282.740.030 | SOLDERING MOUNTING |         |

**ENVIRONMENTAL**

|                       |                |           |
|-----------------------|----------------|-----------|
| Operating temperature | <b>-40/+85</b> | ° C       |
| Hermetic seal         | <b>NA</b>      | Atm.cm3/s |
| Panel leakage         | <b>IP67</b>    |           |

**OTHER CHARACTERISTICS**

\*VSWR:1.06 between DC to 3 GHz

\*\*VSWR:1.1 between 3 to 7 GHz

PIM3/-125dBm under 2 carriers of +43dBm

\*\*\*After soldering

Flange fasteners recommended torque: 0.8-1.2 N.m

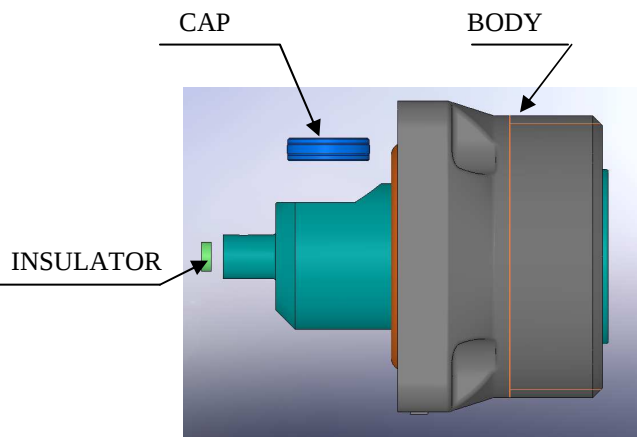
Issue : 0945 B

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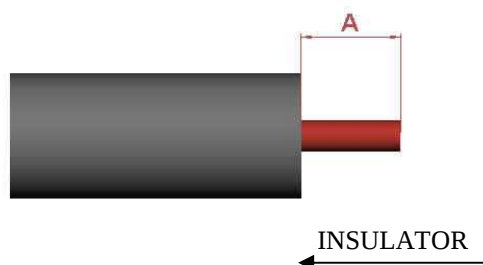
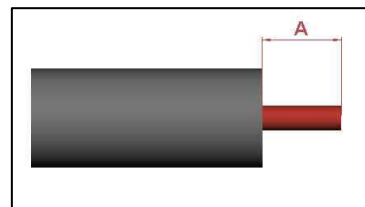
**RADIAL** 

## COMPOSITE SQUARE FLANGE JACK RECEPTACLE

PANEL SEAL - SOLDER TYPE CABLE .141

**R187.403.010**Series : 7/16  
COMPOSITEWe recommend a thermal preconditioning cable**COMPONENTS****1**

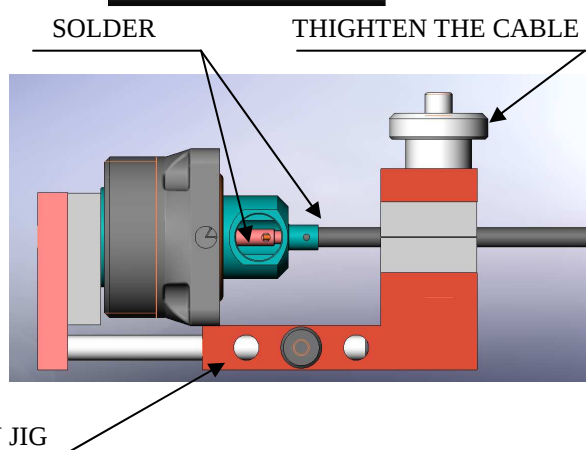
Strip the cable.  
Stripping tool R282.053.000  
Positioner R282.066.010

**STRIPPING****2**

Slide the insulator onto the cable inner conductor.

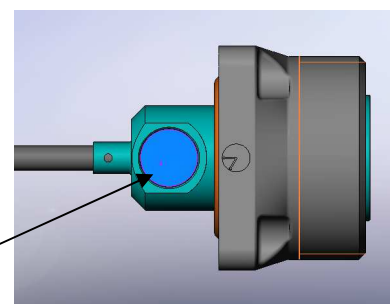
**3**

Introduce the cable into the connector body until it stops.  
Place the sub assembly into the assembly jig R282.740.030 (or equivalent) and tighten it.  
Solder the body onto the cable.  
Let the assembly cool down before removing it from the jig.

**4**

Mount the cap on the connector's body.

PRESS THE CAP



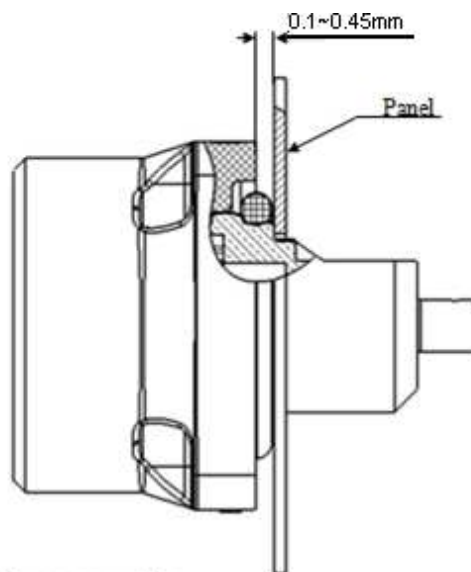
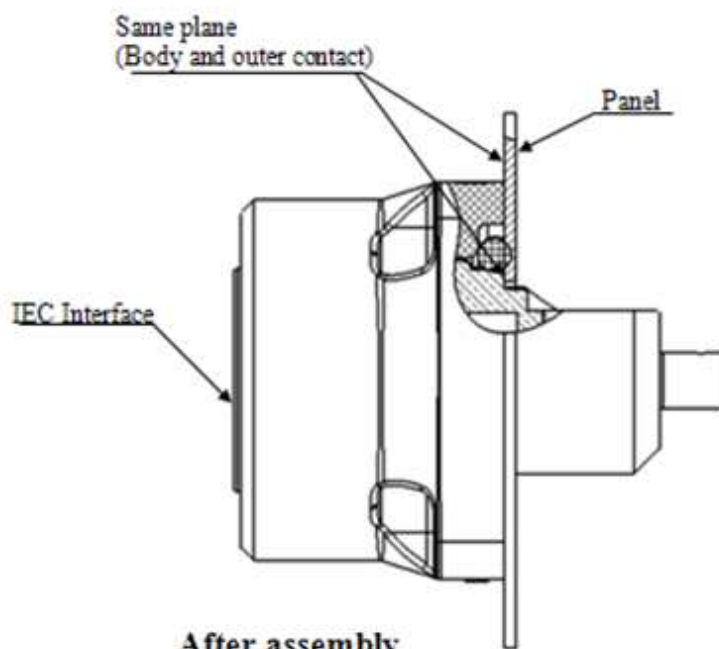
Issue : 0945 B

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**COMPOSITE SQUARE FLANGE JACK RECEPTACLE****PANEL SEAL - SOLDER TYPE CABLE .141****R187.403.010**Series : 7/16  
**COMPOSITE****Assembly instruction**

Prior to the installation, the outer contact is slightly protruded from the rear flange (0.1~0.45mm). During the installation, the outer contact is pushed inside the composite housing. In its final position, the outer contact is aligned with the rear flange, and in contact with the panel. During mating, the outer contact is pressed against the panel, reducing significantly the IM3 generation.

**Before assembly****After assembly****Issue : 0945 B**

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