Wiring Assembly Instructions

562201 Contact, ITA, Micro Coax.

![Contact Sub-Assembly](image)

**Fig. A.** (Contact Sub-Assembly)

Contact Sub-Assembly Piece Parts.

<table>
<thead>
<tr>
<th>Contact Crimp Information Table</th>
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<tbody>
<tr>
<td>Wire Type</td>
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<td>JOY 05/06/18 RG178</td>
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<table>
<thead>
<tr>
<th>Test Requirements</th>
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<tr>
<td>Test Type</td>
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<tr>
<td>Hi-pot</td>
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**NOTE:** Overall length of cable should be less 3/8” to compensate for the contact attachment.

**STEP 1)** From the "Contact Crimp Information" Table, use the crimp tool and hex die set listed.

**STEP 2)** Ensure hex die is set to correct indicator as listed in “Contact Crimp Information” Table

**NOTE:** Refer to Fig. B for reference.
Fig. B. (452300)  
**STEP 3)** Using a ruler along with wire strippers or automatic wire stripping machine, strip the cable to the dimensions in the "Strip Length" column. Example of stripped wire shown below in **Fig. C.**

![Fig. C.](image)

**Fig. C.**

**STEP 4)** Slide heat-shrink and crimp ring over cable. Pull shield back over the cable outer jacket as shown below in **Fig. D.**

**NOTE:** Ensure that no strand of Center Conductor contacts the shield to prevent shorts.

![Fig. D.](image)

**Fig. D.**

**STEP 5)** Trim the Dielectric to achieve dimension "D" in the "Strip Length" column on "Crimp Information" Table. See **Fig. E.**

![Fig. E.](image)

**Fig. E.**

**STEP 6)** Tin center pin and center wire. Insert cable center wire into center conductor and solder in place. **Fig. F.** and **G.**

![Fig. F.](image)

**Fig. F.**

![Fig. G.](image)

**Fig. G.**
STEP 7) Ensure dielectric is fully seated in shell. Slide shell assembly onto center conductor/cable sub-assembly until fully seated as shown in Fig. H.

STEP 8) Evenly form shielding over Shell as shown in Fig. J.

STEP 9) Slide crimp ring over shield and up to contact until firmly seated in Fig. K

STEP 10) Inspect contact/cable assembly using depth gauge listed in "Test Requirements" Table. Calibrate gauge using instructions below prior to inspection.

<table>
<thead>
<tr>
<th>Contact and Calibration equipment</th>
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<tr>
<td>Contact</td>
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<td>562201</td>
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Step 1) Remove Calibration Pin from back of the Depth Gauge.

Step 2) Loosen Locking Screw on Depth Gauge body.

(Depth Gauge 412653 and Calibration Pin 5511128 shown for illustration only)
STEP 11) Test contact by inserting contact/cable assembly fully into test gauge, until seated firmly. Fig. M.

STEP 12) Gently tap top of pin gauge to ensure that gauge is seated fully to bottom of center contact pin.
STEP 13) Hold contact/cable assembly, and test gauge firmly, proceed to take measurement as per Fig. M.

Apply slight pressure to hold center pin in place.

![Diagram of contact and test gauge](image1)

Fig. M

STEP 14) Results should be between the "Marker Settings". Listed on the "Test Requirements" Table.

**NOTE:** Do not proceed to step 15 if results are unacceptable. (Repeat steps 3 through 13).

STEP 15) Use crimp tool, and crimp large diameter of crimp ring in location (A) of hex die Fig. N.

**NOTE:** Keep steady pressure on wire during crimping to maintain position of center conductor.

STEP 16) Crimp small diameter of crimp ring in location (B) of hex die, Fig. P.

**NOTE:** Make sure the contact seats properly in the stops aligned with locations on hex die Figs. N. and P details.

![Fig. N. (Front View)](image2)

![Detail A. (Back View)](image3)
STEP 17) Gauge crimped contact/cable assembly again using the depth gauge (steps 10 to 14). The reading should still be within range.

STEP 18) Perform a "Hi-pot" test to the settings listed in "Test requirements". If a "pass" test occurs proceed to next step.

STEP 19) Shrink heat-shrink onto crimp ring, to match the image below in Fig. R, to complete cable assembly.

**NOTE:** Shrink-tube is to provide strain-relief.