REV A IN 40-220001-02 Wiring Assembly Instructions 40-220001-02 Contact, ITA, Micro Coax, Joy 014. Fig. A. (Contact Sub-Assembly) Shell Center Pin Crimp Ring Contact Sub-Assembly Piece Parts. Contact Sub-Assembly Piece Parts.

	Contact Crimp Information Table									
Wire	Wire	Strip Length In Inches	Crimp Tool	Hex Die Set	Indicator	Selector	Heat-shrink			
Туре	Awg.					No.	Length X Dia.			
JOY 14	30	A) 3/32" B)7/64" C)13/64" D)1/8"	452300	452315	Ι	N/A	3/32 X 5/8			

Test Requirements							
Test Type	Voltage (Hi-pot Only)	Pull Test	Depth Gauge	Marker Settings			
Hi-pot	500V DC	1.5lbs	412653	76 - 91			

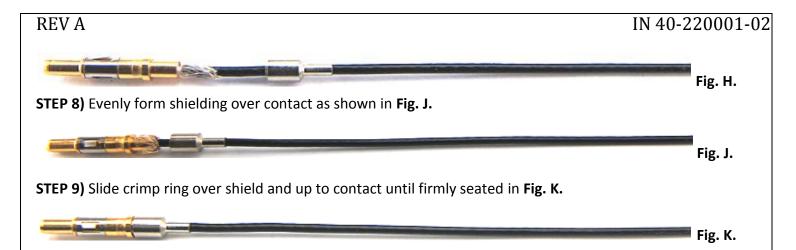
NOTE 1: Refer to **IPC/WHMA-A-620A** standard (Ch. 11.1.2) for cable lengths, measurements and tolerance. **NOTE 2:** Overall length of cable should be less 3/8" to compensate for the contact attachment.

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

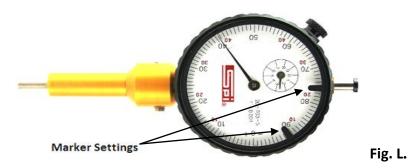
STEP 2) Ensure hex die, is set to correct indicator as listed in "Contact Crimp Information" Table **NOTE:** Refer to **Fig. B** for reference.



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STEP 10) Inspect contact/cable assembly using depth gauge listed in "Test Requirements" Table. **Fig. L. NOTE**: Calibrate gauge using reference sheet **IN 412653** (Instructions for calibrating Depth Gauge) before using.



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 **IN 91311** (**41653** Procedure Sheet) **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.

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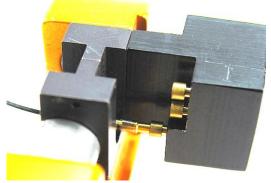
STEP 16) Crimp small diameter of crimp ring in location (C) of hex dies. Fig. P.

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)





Detail A. (Back View)



Fig. P. (Front View)

Detail A. (Back View)

STEP 17) Perform a "pull and return test" as per **IPC/WHMA-A-620A** standard (Ch. 19.7.2.1) utilizing a pull force of 1.5lbs. **Fig. R.**



STEP 18) Gauge crimped contact/cable assembly again using the depth gauge (steps 10 to 16). The reading should still be within range.

STEP 19) Perform a "Hi-pot" test to the settings listed in "Test requirements". If a "pass" test occurs proceed to next step.

STEP 20) Shrink heat-shrink onto crimp ring, to match the image below in Fig. S, to complete cable assembly.



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