Tooling, Crimp



Tooling, Insertion/Extraction

M22520/1-01 CRIMP TOOL M22520/1-02 Turret



KPSE Insertion



KPSE Extraction

Contact Size		Contact Size	
20	MS24256A20	20	MS24256R20
16	MS24256A16	16	MS24256R16

Contacts

Contact Size/Type	Military Part Number	Color Bands		ITT Cannon	
		1st	2nd	3rd	Part Number
20 Socket	M39029/32-259	Red	Green	White	031-9074-002
20 Pin	M39029/31-240	Red	Yellow	Black	030-9036-000
16 Socket	M39029/32-247	Red	Yellow	Violet	031-9095-003
16 Pin	M39029/31-228	Red	Red	Grey	030-9032-003

#20

Contacts for printed circuit applicaitons also available

Wire Hole Fillers/Grommets Sealing Plugs

Contact	Part Nu	Color	
Size	Cannon	Military	Code
20	225-1012-000	MS3187A20	Red
16	225-1011-000	MS3187-16	Blue



KPT/KPSE

KPSE Assembly Instructions

Contact Size	Wire Size AWG	Strip Insulation
20	#20-#24	3/16"
16	#16-#20	1/4"

Wrong

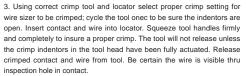
Right



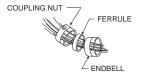
CRIMPING CONTACTS

1. Strip wires according to the table above taking care not to cut or nick strands

2. Insert stripped wire into contact crimp pot. Wire must be visible thru inspection hole.



CAUTION: Check that none of the contacts are bent or damaged in any way after crimping.



#16 CONTACTS ALCOHOL \square INSERTION TOOL TIP SHOULDER #20 CONTACTS



Holding the connector horizontally, position tool behind contact. Push

tool straight into contact cavity until contact snaps into position. A light

remaining contacts.

Size

8,10,12 and 14

16 and 18

CONTACT INSERTION

bundle in proper order for reassembly

1. Remove hardware from plug and receptacle. Slide hardware over wire 2. Use the proper contact insertion tool and slide the tool over the 3. Begining from center cavity and working outwards in a circular terminal end of the contact. The size 16 contact lies in the tool and the pattern, insert wired contacts into rear of connector by hand until the tool tip butts against the contact shoulder. The rear, or insulation front of the contact shoulder is no more than 1/8" from the grommet. support of the size 20 contact butts against an internal shoulder in the tool tip.

> NOTE: Apply a small amount of isopropyl alcohol to the insertion tool tip pull on wire will assure that contact is locked securely. Repeat for while installing contacts.



COMPLETION

1. Check face of plug or receptacle for proper contact installation

2nd Index Line Socket Contacts 20,22 and 24 25-35

Torque in/lbs.

10-15

15-25

2. Using mating connector with contacts installed, mate both connector halves together.

3. Assemble ferrule over the grommet by hand as far as possible. 4 Assemble endbell over ferrule and loosely tighten endbell. Partially loosen (1/4 turn) and retighten to recommended torque limits.



4. Use contacts and grommet sealing plugs to fill any empty cavities.

CONTACT EXTRACTION

1. Slide hardware back over wire bundle. Using proper extraction tool or KPSE: There are two lines on the clip sleeve which are vital to the Carefully place the tool tip over the contact to be extracted until the extraction end of proper insertion/extraction tool, proceed as follows: contact removal process. The first index line is used for removing pin tool tip touches the insulator face. Carefully rotate the tool until the contacts while the second index line is for removing socket contacts.

1st Index Line Pin Contacts



index line is slightly below the insulator face. Keep an even pressure against tool body; push plunger forward with thumb and index finger, and push the contact out throught the clip. Carefully remove extraction tool from connnector. Pull wire by hand to compete the removal of the contact.



Cannon

Dimensions are shown in inches (millimeters). Dimensions subject to change www.ittcannon.com