SUPER SEAL™

Contacts and Termination Tools

SIZE #23 CRIMP CONTACTS FOR USE WITH 801-084, 801-085, 801-341, 804-084, 804-085, 804-341 805-084, 805-085 AND 805-341 SERIES 80 MIGHTY MOUSE CONNECTORS
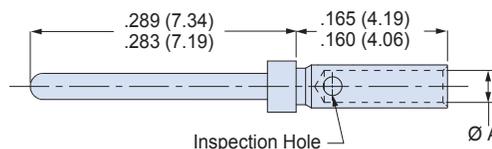

#23 Pin Contact

#23 Socket Contact

Standard size #23 contacts accept #22 to #28 AWG wire. Choose "small bore" versions for #26 to #30 AWG wire. For thermocouple applications, specify alumel or chromel contacts. Contacts are bulk packaged. Terminate with standard M22520 crimper with special positioner.
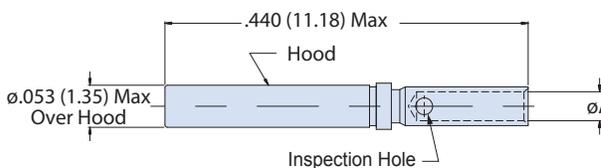
Contact Type	Wire Size	Material	Part Number	Ø A		Color Band	Tool Code
				In.	mm.		
Pin	#22 – #28	BeCu	809-001	.035 Max	.902	None	A, C
Socket	#22 – #28	BeCu	809-002	.035 Max	.902	None	A, C

PIN (809-001)

.289 (7.34) .283 (7.19)
.165 (4.19) .160 (4.06)
Inspection Hole
Ø A

Socket (809-002)

.440 (11.18) Max
Hood
ø.053 (1.35) Max Over Hood
Inspection Hole
øA

Crimp Tensile Strength		
Values are in pounds and are minimums.		
Wire Gage	Silver or Tin Coated Copper Wire	Nickel Coated Copper Wire
#22	12	8
#24	8	6
#26	5	3
#28	3	2

Material and Finish
Beryllium copper alloy per ASTM B196 or B197, 50 microinches gold plated per ASTM B 488 over nickel underplate. Crimp area may have less plating.
Thermocouple contacts: alumel or chromel alloy, unplated, per ANSI 96.1
Socket contact hood: stainless steel, passivated per AMS-QQ-P-35.

Specifications
Current Rating: 5 Amps maximum
Voltage Drop (at 5 Amps and 25° C): 70 millivolts maximum
Temperature Range: -65° to + 200° C

MINIATURE ADJUSTABLE CRIMP TOOL AND POSITIONER

Standard M22520/2-01 crimper for use with standard size #23 Mighty Mouse contacts. Performs precision eight-indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Length is 6.75 inches, weight is approx. 10 oz. Bayonet-type positioner 809-005 hold contacts at correct height for crimping. Check calibration with M22520/3 gages.

Tool	Part Number	Military Part Number	Daniels Part Number	Tool Code
Crimp Tool	809-015	M22520/2-01	AFM8	A
Positioner	809-005	(none)	K1461	C

M

RJ45 AND USB 2.0
Contacts, Tools, and Accessories
Size #23 Crimp Contact Instructions for Mighty Mouse Series 801 Micro and Standard USB Connectors

Glenair®

Contacts and Termination Tools

## HOW TO TERMINATE, INSTALL AND REMOVE SIZE #23 CONTACTS

1 *Set Up Crimp Tool*. Install proper positioner into crimp tool. The label on the positioner shows the proper tool setting for each wire size. Turn the adjustment wheel to the correct setting.

2 *Strip Wire.* Remove wire insulation, taking care to avoid nicking or cutting wire strands. Strip wire to length shown.

3 *Insert wire* into contact. The wire should be visible in the inspection hole.

4 Insert contact into crimp tool as shown. Make sure that the contact is fully inserted into the tool. Squeeze handle completely. The ratchet mechanism will not allow a partial crimp. Release handle and remove contact.

5 *Inspect crimped contact*. Wire should be fully inserted and the crimp should be uniform in appearance.

Insertion/Extraction Tool 809-088

EXTRACTION TIP WHITE END

INSERTION TIP GREEN END
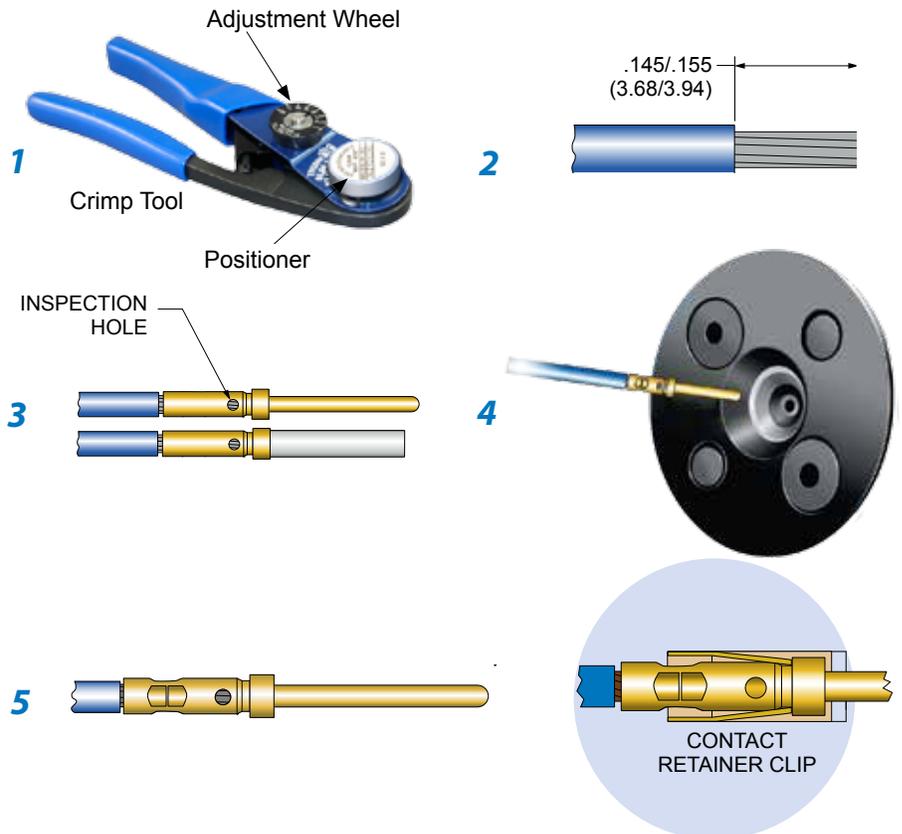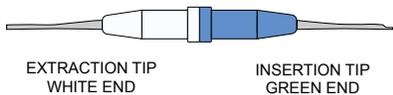
6 *Install contact into connector*. Push the contact through the rear grommet until the contact locks into place. This can usually be done by hand without the need for a tool. If the wire gage is #26 or smaller, a tool is helpful. There are two techniques for installing contacts with a tool. One method is to push the contact in by hand, then use the tool to finish the insertion. The other method is to position the insertion tip against the contact shoulder, then insert the contact. Use insertion/extraction tool 809-088 to install contacts. Slide the wire into the groove on the blue end of the tool. Slide the tool tip up the contact until it touches the contact shoulder. **USE CARE TO AVOID DAMAGING THE CONNECTOR.**

7 *Contact Extraction.* Use tool 809-088. The white end is used for contact extraction. First, push the wire into the groove of the metal tip. Slide the tip of the tool into the connector. Push the tool into the connector cavity until the tip bottoms in the connector. Avoid wiggling or rocking the tip. This may damage the cavity. A straight push is best. Pinch the wire between your finger and the white plastic grip and slide the tool and contact out of the connector. **Wire insulation diameter greater than 0.045 inches (1.14mm) is too large to work properly with the extraction tool. connector damage is possible.**

Adjustment Wheel

1 Crimp Tool

Positioner

2 .145/.155 (3.68/3.94)

INSPECTION HOLE

3

4

5 CONTACT RETAINER CLIP

6 RUBBER GROMMET — RETAINER TINE

7 RUBBER GROMMET

M