



Series 80 Mighty Mouse General Information

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About Series 80 Mighty Mouse Contacts

This section of the catalog contains ordering information for contacts. Series 80 Mighty Mouse connectors are supplied with a full complement of crimp contacts. Contacts are terminated to wire using special tools and are snapped into place by hand or with a hand-held insertion tool. Damaged or miswired contacts may be removed from the connector using special extraction tools.

Although the connectors are supplied with a full complement of contacts, extra contacts are commonly purchased as spares or to use for quality assurance purposes such as crimp tensile tests.

Coaxial contacts must be ordered separately. If your application requires coaxial contacts, select contact types "A" or "B" (pin or socket) in the connector part number. The connector will be supplied without contacts. Select the appropriate coaxial or pneumatic contact from this catalog.

Mighty Mouse contacts conform to the requirements of *Aerospace Standard AS39029*. This SAE specification defines the design, dimensions and performance of contacts used in aerospace grade electrical connectors. The "general specification" covers a variety of contacts including thermocouple, hermetic, coaxial and triaxial types.

The "slash sheets" contain dimensions and other information for specific types of contacts. Each contact is assigned a **Basic Identification Number (BIN)**, a non-significant three digit code corresponding to the color code on the contacts.

A **Qualified Products List (QPL)** identifies those manufacturers whose products have been verified to meet all requirements.

Series 80 Size #23 and size #20HD contacts conform to AS39029 requirements, but are not covered by a slash sheet. Size #20, #16 and size #12 contacts are standard AS39029 contacts.

About Crimp Tools

Series 80 signal, power and coaxial contacts are crimped to wire using mil spec crimpers. **Military Specification MIL-DTL-22520** provides the aerospace/defense industry with a common set of rugged, reliable hand crimp tools. This specification controls the voltage drop and tensile strength of crimp terminations.

Before ordering, check to see if you might already have these tools! We have listed the military part number and the Daniels part number. Daniels Manufacturing Corporation is the leading manufacturer of these tools. However, size #23 and #20HD contacts require special positioners unique to the Mighty Mouse product line.



Tip: Use the Tool Code to Find The Right Crimp Tool

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Find the contact part number in the catalog. Note the tool codes in the right column. These tool codes identify the crimp tools required to terminate the contact. Usually two tools are required—a crimp frame plus a positioner to locate the contact.

Contact Type	Wire Size	Material	Part Number	Ø A		Color Band	Tool Code
				In.	mm.		
Pin	#22 - #28	BeCu	809-001	.0335-.0355	0.851-0.902	None	A, C
Pin	#26 - #30	BeCu	809-042	.0229-.0245	0.582-0.622	Blue	A, D
Pin	#22 - #28	Alumel	809-065A	.0335-.0355	0.851-0.902	None	A, C
Pin	#22 - #28	Chromel	809-065C	.0335-.0355	0.851-0.902	None	A, C
Socket	#22 - #28	BeCu	809-002	.0335-.0355	0.851-0.902	None	A, C
Socket	#26 - #30	BeCu	809-043	.0229-.0245	0.582-0.622	Blue	A, D
Socket	#22 - #28	Alumel	809-066A	.0335-.0355	0.851-0.902	None	A, C
Socket	#22 - #28	Chromel	809-066C	.0335-.0355	0.851-0.902	None	A, C

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Turn to the tool section starting on page A-10. Each crimp tool is identified with a letter code. Match the contact letter to the tool letter.

Miniature Adjustable Crimp Tools

These crimp tools perform precision eight indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Use with bayonet-type positioners. Check calibration with M22520/3 gages. Length is 6.75 inches, weight is approx. 10 oz.

A Standard M22520/2-01 crimper. Use with standard size #23 and #20HD Mighty Mouse contacts and with M39029/76 and /78 coaxial center contacts. Requires positioner, ordered separately.

B Special MH992 crimper used with 50 ohm matched impedance coaxial inner contacts. Requires positioner, ordered separately.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
A	809-015	M22520/2-01	AFM8	A
B	809-128	(none)	MH992	B

Dimensions in inches (millimeters) and are subject to change without notice.