

MICRO-CRIMP CONTACTS AND TOOLS



Signal and Power Contacts
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Coaxial Contacts
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Crimp Tools
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Insertion/Extraction Tools
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BAND-IT® Tool and Bands
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About Mil Spec Contacts For Series 79 Micro-Crimp Connectors

Aerospace Standard AS39029 (SAE) 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. For example, pin contacts used in MIL-DTL-38999 connectors are specified in AS39029/58.

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 79 Size #23 contacts conform to the AS39029 requirements, but are not covered by a slash sheet. Size #16 and size #12 contacts are standard "QPL" contacts used in MIL-DTL-38999 connectors.

Coaxial contacts are covered by AS39029. These contacts are not recommended for high frequency applications. Note 6.1.2 states "Type D contacts are coaxial contacts...to shield the circuit from unwanted interference (RFI and EMI). These contacts are not impedance matched and, therefore, are not recommended for RF use." Matched impedance 50 ohm coaxial contacts are available but are not directly covered by the AS39029 specification.

About Mil Spec Crimp Tools

Series 79 Micro-Crimp 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. The size 23 positioner part number 809-005 is not a standard tool. Chances are, you will need this positioner.

Calibration: gage pins are available for checking crimp tool calibration. Tools should be checked periodically. If a tool needs calibration, the mil spec requires calibration to be performed by the manufacturer or a certified ANSI-Z540.1 agency. Gaging and calibration information is supplied in the box with the tool.

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