

Additional MS/Standard Connectors offered by Amphenol

MS/Standard MIL-DTL-5015* Connectors with Crimp Rear Release Contacts

Amphenol broadens their MS/Standard family of connectors with the addition of the Matrix® MIL-DTL-5015 crimp rear release series. This series bridges the gap between the old connector standard and the environmental and high performance needs of current technologies.

Design characteristics of the Amphenol/Matrix 5015 series include:

- MS345() series intermateable with existing MIL-DTL-5015 solder or crimp versions on existing equipment
- Captive coupling nut mechanism, utilizes retaining rings in combination with "L" washers to prevent inadvertent disassembly
- Multiple interlock systems ensure permanent insert retention
- Positive control of dielectric separation with guaranteed ease of contact insertion
- Positive contact retention provided by a closely toleranced damage-proof metal retention clip
- Completely sealed against environmental extremes with individual contact seals, interfacial seals between contacts, peripheral gasket shell-to-shell seals and rear wire seals

Customer Options

- Seven mounting styles, in shell sizes 8 to 48 (consult Amphenol for availability of shell sizes 44 and 48)
- Threaded coupling or self-locking plug (MS3459) with an internal ratcheting mechanism to prevent unmating due to vibration and shock, eliminating the need for safety wiring
- Proprietary quick disconnect plug, with or without lanyard available
- Classes include aluminum or stainless steel shells, or firewall capability
- MS and Proprietary versions available
- Some styles are supplied to McDonnell Douglas Specification BAN 7025, DC60 Series
- Accommodation of contact sizes 0 to 16
- Over 100 insert arrangement patterns available, accommodating from 1 to a maximum of 85 circuits
- Alternate positioning available; thermocouple contacts available

Ask for Amphenol catalog 12-026 for detailed information.

MIL-5015 Modifications

In order to supplement standard MS shell styles and provide a greater variety of styles for the electrical connector user, there are several MS and MS Modified cylindrical connectors offered by Amphenol. These types include flange mount plugs, thru bulkhead receptacles, jam nut receptacles, connectors for potting and connectors designed specifically to terminate jacketed cable.

Ask for Amphenol catalog 12-021 for detailed information.

97 Series, MIL-5015 Type Connectors

The low cost, general duty connector used extensively in the machine tool industry, welding industry and numerous other industrial applications, is the Amphenol® 97 Series. Offered in non-environmental styles, these connectors have hard dielectric inserts and threaded coupling. They are Underwriters Laboratories Recognized and Canadian Standards Association Certified.

Ask for Amphenol catalog 12-022 for detailed information.

Pre-Earth FMLB Connectors

Designed for applications where a protective circuit from the ground contact to the shell is a safety requirement, Pre-earth connectors use MIL-5015 type shells, inserts and arrangements. They have first mate, last break capability; when mated this feature protects operators and sensitive circuits.

Ask for Product Data Sheet PDS 187 for detailed information.



Amphenol®/Matrix® MS/Standard MIL-C-5015 Connectors with Crimp Rear Release Contacts



97 Series, MIL-C-5015 Type Connectors

* Note: MIL-DTL-5015 supercedes MIL-C-5015 for all Amphenol/Matrix rear release crimp type connectors.

Additional MS/Standard Connectors offered by Amphenol, cont.

Amphe-Power™ 5015 Connectors

Amphenol offers the AC threaded series derived from the MIL-5015 family that can be enhanced with high amperage RADSOK® contacts.

Design characteristics of the Amphe-Power 5015 connectors are:

- The RADSOK contact handles up to 150% higher amperages than standard contacts
- The RADSOK contact has a twisted hyperbolic, stamped grid configuration within the socket. This design ensures a large, coaxial, face-to-face surface area engagement. As male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss.
- Contact arrangements have RADSOK sockets in sizes 0, 4 and 8 with standard contacts in sizes 16 and 12.

The contacts available in RADSOK and the amperages are as follows:

- Size 8 AWG can handle currents up to 69 amps.
- Size 4 AWG can handle currents up to 120 amps.
- Size 0 AWG can handle currents up to 250 amps.

(For availability of size 12 RADSOK that handles currents up to 35 amps, consult Amphenol.)

- AC threaded 5015 styles include: solid shell for general, non-environmental applications; pressurized style for use on pressurized bulkheads or pressure barriers; environmental resisting style with strain relief; lighter weight and shorter environmental resisting style

For more information ask for Amphenol brochure SL-391, Amphe-Power Connectors with RADSOK technology.



**Amphe-Power® 5015 Connectors
(AC Threaded 5015 type connectors with RADSOK® high amperage contacts)**



The RADSOK design - socket cylinder within female contact has twisted hyperbolic grid. Provides higher amperage capabilities with low insertion force and low temperature rise.

MIL-5015 Connectors with PCB Contacts

Box mount receptacle MIL-5015 type connectors can be supplied with PCB tails for mounting to a printed circuit board.

See catalog 12-170, Amphenol Cylindrical Connectors for Printed Circuit Board Applications. This catalog gives the most commonly available and widely used insert patterns for cylindrical connectors with PCB tails, along with pin-out location diagrams.

