

MIL-DTL 5015 (SAE-AS50151)



MIL-DTL 5015 Connector

With a proven history of engineering and manufacturing excellence spanning over 90 years, ITT has delivered a broad range of innovative product solutions that have and continue to enable our customers to meet their most demanding design requirements. ITT's design centers provide time proven high quality products and exceptional service to customers through a global network of field application engineers, sales force and manufacturing facilities.

The MIL-DTL 5015 (SAE-AS50151) connector series provides a cost effective solution for use in both industrial and military applications. This ITT product line has a 60 year legacy of delivering uncompromising durability and value, and continues to meet today's demanding design requirements for a broad range of customer applications. These connectors utilize robust materials combined with precision manufacturing and stringent quality control to deliver superior performance.

Product Features

- 5 polarizations available
- Rated 500 mating cycles
- Individual wire sealing grommet
- RoHS compliant options available
- Housings available in 4 plating options
- Bonded-In contacts providing 30 PSI sealing
- Available with high power contact sizes from 8 to 0
- Fitted with customized, metric/PG or standard endbell/adaptors



Innovative Interconnect Benefits

- Lower cost options
- Threaded coupling system
- Silver plated contact option
- Polychloroprene insulator material
- State-of-the-art manufacturing facilities providing enhanced customer service and reduced lead time
- Aluminum alloy shells available in a variety of plating options including: OD cadmium, black/green zinc chromate, and RoHS compliant nickel, electroless nickel and black zinc cobalt

Applications

- Machine Tools
- Generators
- Process Equipment
- Test Equipment
- Lighting Equipment
- Traffic Control Signals
- Robotic Devices
- Transportation
- Welding Equipment



MIL-DTL 5015 Selection Guide

| | | | |
|---------------|---------------------|-----------------------|-------------------|
| Max. Voltage | Max. Current | Operating Temp | Durability |
| 1000-7000 rms | Up to 150 test amps | -55 to +200 degrees C | 500 mating cycles |

5015 Product Line Talking Dog



| | |
|---------------------------|--|
| Series Prefix | MS-E/F/R/ER (MIL-C-5015) |
| Designation | MS - Conforms to MIL-C-5015 |
| | CA - ITT Cannon designation |
| | CAR - RoHS compliant |
| Shell Style | 3100 - Wall mounting receptacles |
| | 3101 - Cable connecting plug |
| | 3102 - Box mounting receptacle |
| | 3106 - Straight plug |
| | 3108 - 90° Angle plug |
| Class | A - Plastic (unsealed) insulator with solid endbell |
| | B - Plastic (unsealed) insulator with split endbell |
| | E - Resilient insulator and integral clamp for cable strain relief |
| | F - Resilient insulator and integral clamp for cable strain relief with O-ring seal under the coupling nut |
| | R - Environmental with resilient insulators and shortened light weight endbell |
| Shell Size | 8S, 10S, 12, 12S, 14, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40, 44, 48 |
| Contact Type | P - Pin |
| | S - Socket |
| Alternate Insert Position | W, X, Y, Z (omit for normal) |
| Modification Code | A71 - Electroless nickel hardware, RoHS |
| | A176 - Contacts hard gold over nickel, RoHS |
| | A206 - Black zinc cobalt hardware, RoHS |
| | F42 - Connector supplied without endbell, grommet and ferrule |
| | F80 - Snap-in crimp contacts |
| | F183 - Snap-in crimp contacts for metric conductors |
| | DN - CA3106 (plug only), endbell for shrink boot adapter |
| | A232 - Black zinc cobalt hardware, RoHS European version |
| | A233 - Green zinc cobalt hardware, European version |

When ordering MS3106F to the Cannon part number, designate CA06R.

¹ Modification code is used only when other than power contacts are to be installed (i.e., shielded, thermocouple, etc.)

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