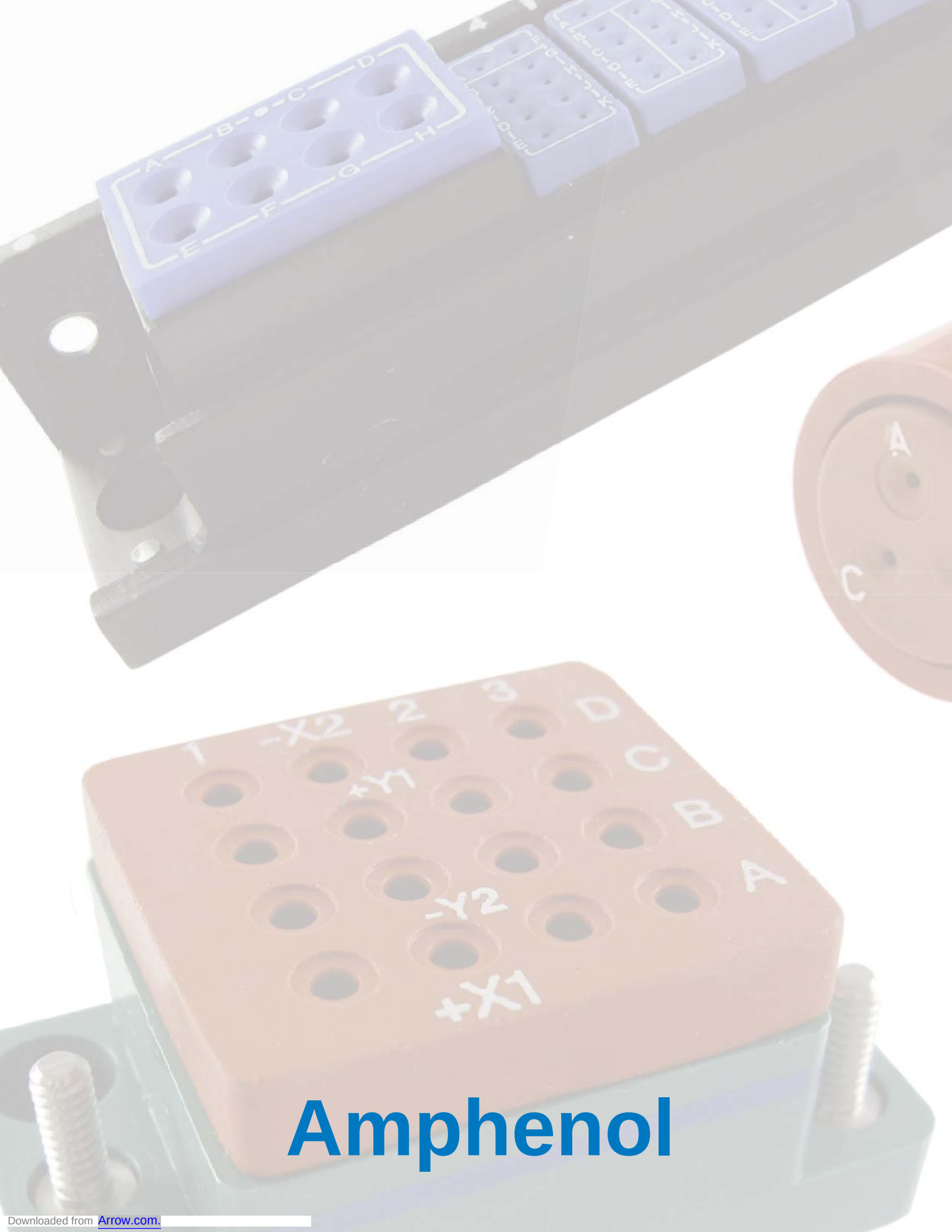


# High Quality Interconnect Products For Military and Aerospace Applications

# Amphenol

## Amphenol Pcd





# Amphenol

# Amphenol Pcd

## Company Introduction

### Amphenol Pcd

Amphenol Pcd is a Division of Amphenol Corporation, one of the largest manufacturers of interconnect products in the world. Amphenol is the world's leading supplier of these products for military and aerospace applications. Amphenol designs, manufactures and markets electrical, electronic and fiber optic connectors, connector systems, and coaxial and flat-ribbon cable; and maintains extensive manufacturing and engineering facilities in North and South America, Europe, Asia and Australia. Connector products are supplied to thousands of OEMs in approximately 60 countries. Product support is assured through Amphenol's world-wide sales and engineering force, plus a global network of electronic distributors.

Amphenol Pcd is dedicated to providing users in the Military-Aerospace and Industrial markets with a wide variety of high reliability, high performance connectors and rugged system packages. The primary end markets for our products are commercial and military aerospace, military ground vehicles, military electronics and communications, harsh environment industrial applications and shipboard applications. Amphenol Pcd product families are the most extensive available.

### Products

- **Junction Modules**
- **Relay Sockets**
- **Rectangular and Circular Rack & Panel**
- **System Packages**
- **Field Bus Interconnects**
- **Custom Solutions**
- **Specialized Cable Assemblies**
- **Terminal Blocks**
- **Custom System Attachments**
- **Modular Rectangular Connectors**



### Amphenol Pcd Philosophy

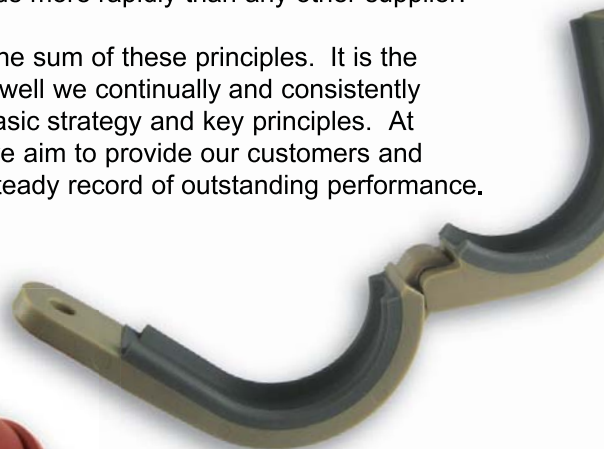
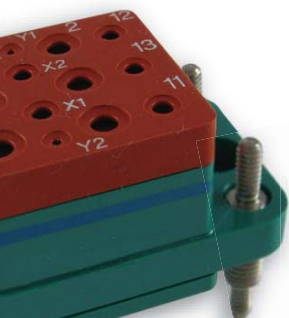
As a basic business philosophy, Amphenol Pcd is dedicated to concentrating on those advanced and challenging market segments that demand an extraordinary level of supplier support and reaction. Our approach to implement this strategy is based on the following key principles:

**FOCUS:** Concentrate all resources on serving a limited number of tightly defined markets, and understanding the needs of those markets.

**INNOVATION:** Provide these markets new, creative solutions in both products and services.

**RESPONSIVENESS:** Identify and respond to the market and product needs more rapidly than any other supplier.

Performance is the sum of these principles. It is the measure of how well we continually and consistently implement our basic strategy and key principles. At Amphenol Pcd we aim to provide our customers and markets with a steady record of outstanding performance.



# Amphenol Pcd



# Amphenol Pcd

## Markets and Applications

### Markets Served and Product Applications

The primary markets served by Amphenol Pcd are Commercial Aerospace, Military Aerospace, Military Ground Vehicles and Military Communication - C4ISR, Rail Mass Transit, and Industrial. These markets have different interconnect and system configuration demands, but are closely linked by an absolute requirement for the very highest levels of reliability and performance, under challenging conditions. Connectors must meet rigid military / aerospace and customer specifications including electrical, mechanical, environmental, chemical resistance, and shock and vibration performance, as well as configuration. Please contact Amphenol Pcd for requirements ranging from standard products to complete customized systems.

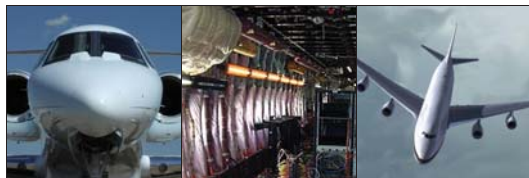


#### COMMERCIAL AEROSPACE - AVIONICS

**Market and Applications:** Avionics controls and instrumentation, in-flight entertainment systems, aircraft power distribution, lighting, control systems, galleys and more. All Designed to reduce weight and simplify installation / maintenance procedures.

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, High Performance Clamps, Field Series Connectors, Rectangular Connectors, Modular Rectangular Connectors, In-Line Splices, Electronic Modules, Push Pull Mini Connectors and Contacts.

#### COMMERCIAL AEROSPACE - AIRFRAME



**Market and Applications:** Airframe power distribution, wire bundle and cable management, hydraulic tubing applications, lighting applications, fuel tank applications. All Designed to reduce weight and simplify installation / maintenance procedures, (LEAN Manufacturing).

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, High Performance Clamps, Field Series Connectors, Rectangular Connectors, Modular Rectangular Connectors, In-Line Splices, Electronic Modules, and Contacts.

#### MILITARY AEROSPACE



**Market and Applications:** Avionics controls and instrumentation, aircraft power distribution, lighting, control systems, galleys, pipe and cable management, weapon systems, and more. All Designed to reduce weight and simplify installation / maintenance procedures.

**Amphenol Pcd Products:** Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, High Performance Clamps, Field Series Connectors, SIM Connectors, In-Line Splices, Electronic Modules, Backplane Connectors, and Contacts.

#### MILITARY GROUND VEHICLES



**Market and Applications:** Fighting vehicles, tanks, shelters, armored personnel carriers, artillery. Off-road, heavy earth-moving equipment. Extremely harsh environmental conditions. Heavy shock and vibration, and dust exposure.

**Amphenol Pcd Products:** Push Pull Rectangular Power Connectors, Flex Power Bar Mounting Plates, MIL-DTL-38999 Series III Connectors, Power Bus Bars, Field Series Connectors, SIM Connectors, High Performance Clamps, Power Distribution Systems, Sealed Junctions.

#### MILITARY COMMUNICATION - C4ISR



**Market and Applications:** Combat vests, worn by individual soldiers, containing electronic communications provisions within active webbing embedded in vest and connected to the military communication system.

**Amphenol Pcd Products:** Battlefield Interconnect Assemblies, Mini-Push Pull Connectors, Field Series Connectors, Sealed Miniature Connectors, and SLIM Connectors.

#### INDUSTRIAL & RAIL MASS TRANSIT



**Market and Applications:** Factory Automation, Manufacturing Communications, Earth Moving Equipment, Offshore Oil Platforms, High speed railway, Freight and passenger railway, Subway and Metro, Railway controls and instrumentation, and Railway communications system.

**Amphenol Pcd Products:** Printed Circuit Board Terminal Blocks, Din Rail Mount Terminal Blocks, Interface Modules, Custom I/O Connectors, Field Series Connectors Junction Modules, Relay Sockets, In-Line Junctions, Pipe and Cable Supports, Electronic Modules, Terminal Blocks.



# Amphenol Pcd

## Manufacturing Technology and Capabilities

### Manufacturing Technology and Capabilities

Amphenol Pcd is a leading manufacturer in interconnect products and accessories and has the manufacturing capability along with technical expertise to provide customers with the most innovative and reliable products on the market. Amphenol Pcd has four facilities around the world with engineering and production capability. These facilities are Amphenol Pcd, Amphenol Pcd China, Amphenol Air LB NA, and Amphenol Optimize. These facilities allow Amphenol Pcd to have round the clock engineering support, high volume manufacturing capabilities, and low cost resources. Amphenol Pcd also represents the European Amphenol divisions of Amphenol Socapex, Amphenol Air LB, Amphenol Air LB Germany, and Amphenol Limited in the North and South American market. Amphenol Pcd facilities are AS9100 compliant.

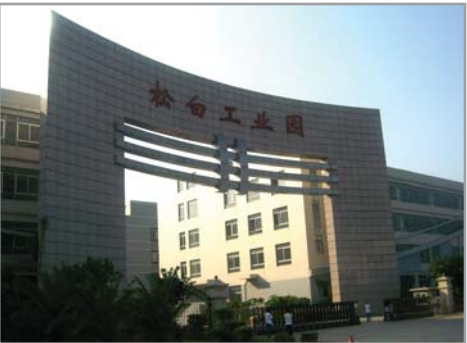


#### Amphenol Pcd - Beverly, Massachusetts, USA

Amphenol Pcd, Beverly is Amphenol Pcd's corporate headquarters and customer service center. The facility has a large production floor and have expertise in manufacturing using Amphenol proprietary overmolding technology. Engineering is also headed from the Beverly facility. All customer inquiries regarding Amphenol Pcd Mil/Aero products should be forwarded to this facility.

##### **Amphenol Pcd**

72 Cherry Hill Drive  
Beverly, MA 01915  
Phone: +1 (978) 624-3400  
[www.amphenolpcd.com](http://www.amphenolpcd.com)



#### Amphenol Pcd China - Shenzhen, China

Amphenol Pcd China is Amphenol Pcd's sister division in China. The facility also has a large production floor and has expertise in product Assembly. The facility is also home to a large number of Amphenol Pcd engineers.

##### **Amphenol Pcd Shenzhen**

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East Ming Huan Road Gong Ming Town,  
Bao An District ShenZhen, China 518132  
Phone: +86 755-81738281  
[www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)



#### Amphenol Air LB NA - Montreal, Quebec, Canada

Amphenol Air LB NA is a leading producer of aerospace system attachments and pipe and cable supports. The facility also has a large production floor and has expertise in manufacturing using injection molding. Amphenol Air LB NA has their own engineering and customer service department. All customer inquiries regarding Air LB NA products should be forwarded to this facility.

##### **Amphenol Air LB NA**

3335, 1<sup>ere</sup> Rue parc Gerard Leclerc  
St. Hubert QC, J3Y 8Y6, Canada  
Phone: +1 (450) 445-6007  
[www.amphenol-airlb.com](http://www.amphenol-airlb.com) / [www.amphenol-airlb.fr](http://www.amphenol-airlb.fr)



#### Amphenol Optimize - Nogales, Mexico

Amphenol Optimize is the manufacturing and customer service center for Industrial products. The facility also has a large production floor and manufactures most of Amphenol Pcd's Industrial product line. Industrial engineering is located in the Beverly facility. All customer inquiries regarding Amphenol Industrial Products should be forwarded to Amphenol Pcd- Beverly.

##### **Amphenol Optimize, Plant 7**

180 N. Freeport  
Nogales, AZ 85621  
Phone: 978-624-3400  
[www.amphenolpcd.com](http://www.amphenolpcd.com)

# Amphenol Pcd

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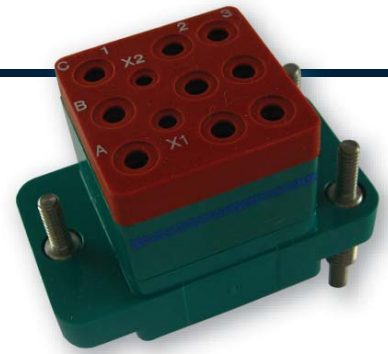
# Amphenol Pcd Relay Sockets

## MIL-PRF-12883

### Amphenol Pcd MIL-PRF-12883 Relay Sockets

Amphenol Pcd offers the industry's broadest line of pluggable relay sockets for commercial and military airborne, ground and shipboard equipment. Sockets are to MIL-PRF-12883 specifications, plus specialized requirements, and are supplied in a broad range of military standard and special configurations and styles for 2 through 25 amp operations.

Amphenol Pcd relay Sockets feature state of the art ultrasonically bonded interfaces between the dielectric components, which eliminate air paths and provide protection against moisture and degradation.



**Low Profile  
Relay Sockets**

**Extended Height  
Relay Sockets**

**Microminiature  
Relay Sockets**

**Board Mount  
Relay Sockets**

**Track Mount  
Relay Sockets**

**Solder Termination  
Relay Sockets**

### Key Features and Benefits

#### Socket Selection

Reference tables of QPL listings on Page 5, relays utilized with specific sockets on pages 6-7 and socket recommendations for military and commercial relays on pages 8-9 will assist in and simplify socket selection.

#### Socket Variations

##### Low Profile

Low Profile Relay Sockets are provided in all military configurations, are configured to a minimum size and weight, and accept the MIL-C-39029/92 contact family.

##### Extended Height

Extended Height Sockets are configured to accept the longer MIL-C-39029/5 contact - which is standard on many cylindrical connectors and other avionic interconnect systems - and allow contact standardization.

##### Mounting Hardware

Sockets are available with either fixed or loose mounting studs. Studs and hardware supplied with standard Amphenol Pcd QPL-listed sockets are cold rolled steel. Stainless steel is available as an alternate. To specify stainless steel, an "S" is added to both the QPL number and the Amphenol Pcd catalog number.

##### Mounting Style

Relay sockets can be top or bottom mounted. See appropriate catalog pages for mounting instructions.

##### Polarization

Relay-to-socket positive polarization is provided by specific contact configurations and/or polarizing pins, in accordance with MIL-Spec requirements.

##### Contact

Closed entry socket contacts qualified to MIL-C-39029 are utilized and supplied with Amphenol Pcd Relay Sockets. Note: Relay Socket catalog numbers include the appropriate number of contacts as defined in the applicable military specification.



# Military Qualified, QPL Listed Relay Socket Part Numbers

| Military Socket P/N | PCD Socket P/N | Page |
|---------------------|----------------|------|
| M12883/40-01        | RSL116079      | 10   |
| M12883/40-02        | RSL116081      | 10   |
| M12883/40-03        | RSL116083      | 10   |
| M12883/40-04        | RSL116085      | 10   |
| M12883/40-05        | RSL116087      | 10   |
| M12883/40-06        | RSL116089      | 10   |
| M12883/40-07        | RSL116051      | 10   |
| M12883/40-08        | RSL116053      | 10   |
| M12883/40-09        | RSL116055      | 10   |
| M12883/40-10        | RSL116057      | 10   |
| M12883/40-11        | RSL116059      | 10   |
| M12883/40-12        | RSL116061      | 10   |
| M12883/40-13        | RSE116661      | 11   |
| M12883/40-14        | RSE116663      | 11   |
| M12883/40-15        | RSE116665      | 11   |
| M12883/40-16        | RSE116667      | 11   |
| M12883/40-17        | RSE116669      | 11   |
| M12883/40-18        | RSE116671      | 11   |
| M12883/40-19        | RSE116673      | 11   |
| M12883/40-20        | RSE116675      | 11   |
| M12883/40-21        | RSE116677      | 11   |
| M12883/40-22        | RSE116679      | 11   |
| M12883/40-23        | RSE116681      | 11   |
| M12883/40-24        | RSE116683      | 11   |
| M12883/41-01        | RSL116091      | 12   |
| M12883/41-02        | RSL116093      | 12   |
| M12883/41-03        | RSL116095      | 12   |
| M12883/41-04        | RSL116097      | 12   |
| M12883/41-05        | RSL116099      | 12   |
| M12883/41-06        | RSL116063      | 12   |
| M12883/41-07        | RSL116065      | 12   |
| M12883/41-08        | RSL116067      | 12   |
| M12883/41-09        | RSL116069      | 12   |
| M12883/41-10        | RSL116071      | 12   |
| M12883/41-11        | RSE116685      | 13   |
| M12883/41-12        | RSE116687      | 13   |
| M12883/41-13        | RSE116689      | 13   |
| M12883/41-14        | RSE116691      | 13   |
| M12883/41-15        | RSE116693      | 13   |
| M12883/41-16        | RSE116695      | 13   |
| M12883/41-17        | RSE116697      | 13   |
| M12883/41-18        | RSE116699      | 13   |
| M12883/41-19        | RSE116701      | 13   |

| Military Socket P/N | PCD Socket P/N | Page |
|---------------------|----------------|------|
| M12883/41-20        | RSE116703      | 13   |
| M12883/44-01        | RSE120151      | 14   |
| M12883/44-02        | RSE120153      | 14   |
| M12883/44-03        | RSE120155      | 14   |
| M12883/44-04        | RSE120157      | 14   |
| M12883/45-01        | RSE120159      | 15   |
| M12883/45-02        | RSE120161      | 15   |
| M12883/45-03        | RSE120163      | 15   |
| M12883/45-04        | RSE120165      | 16   |
| M12883/45-05        | RSE120167      | 16   |
| M12883/45-06        | RSE120169      | 16   |
| M12883/46-01        | RSE116747      | 17   |
| M12883/46-02        | RSE116749      | 17   |
| M12883/46-03        | RSE116751      | 17   |
| M12883/46-04        | RSE116753      | 17   |
| M12883/47-01        | RSE116755      | 18   |
| M12883/47-02        | RSE116757      | 18   |
| M12883/47-04        | RSE116761      | 18   |
| M12883/47-05        | RSE116763      | 18   |
| M12883/47-07        | RSL116101      | 18   |
| M12883/47-08        | RSL116103      | 18   |
| M12883/47-10        | RSL116073      | 18   |
| M12883/47-11        | RSL116075      | 18   |
| M12883/48-01        | RSE112061      | 19   |
| M12883/48-02        | RSE112063      | 19   |
| M12883/48-03        | RSL112105      | 19   |
| M12883/48-04        | RSL112101      | 19   |
| M12883/48-05        | RSE112065      | 19   |
| M12883/48-06        | RSE112067      | 19   |
| M12883/48-07        | RSL112107      | 19   |
| M12883/48-08        | RSL112103      | 19   |
| M12883/52-001       | RSE116175      | 20   |
| M12883/52-002       | RSE116185      | 20   |
| M12883/52-003       | RSE116195      | 20   |
| M12883/53-001       | RST145005      | 20   |
| M12883/54-01        | RSE116627      | 21   |
| M12883/54-02        | RSE116631      | 21   |
| M12883/54-03        | RSE116629      | 21   |
| M12883/54-04        | RSE116635      | 21   |
| M12883/55-01        | RSE112035      | 22   |
| M12883/55-02        | RSE112036      | 22   |
| M12883/55-03        | RSE112044      | 22   |

## Stainless Steel Hardware

To specify Relay Sockets with Stainless Steel hardware, the suffix "S" is added to both the military and Aphenol Pcd part Numbers. For example, M12883/40-01 becomes M12883/40-01S, and the Amphenol Pcd equivalent RSL116079 becomes RSL116079-S.

# Relay Socket Cross Reference Chart

## Relay to Relay Socket

| Military Relay Part Number                                                                                 | Military Socket Part Number                                                                                                  | APCD Socket Part Number                                                                              | Relay Type      | Page  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|-------|
| M83536/15-002<br>M83536/16-006, -014, -031, -034<br>M83726/1, /2, /3, /4, /28, /29, /30, /31*<br>MS27709-2 | M12883/40-01<br>M12883/40-05<br>M12883/40-07<br>M12883/40-11<br>M12883/40-13<br>M12883/40-17<br>M12883/40-19<br>M12883/40-23 | RSL116079<br>RSL116087<br>RSL116051<br>RSL116059<br>RSE116661<br>RSE116669<br>RSE116673<br>RSE116681 | 4 Pole / 10 Amp | 10-11 |
| M83536/17-002, 17-005                                                                                      | M12883/40-02<br>M12883/40-08<br>M12883/40-14<br>M12883/40-20                                                                 | RSL116081<br>RSL116053<br>RSE116663<br>RSE116675                                                     | 4 Pole / 10 Amp | 10-11 |
| M83536/18-002, -005, -008, -012<br>M83536/19-002, -005, -008, -012<br>M83536/20-002                        | M12883/40-06<br>M12883/40-12<br>M12883/40-18<br>M12883/40-24                                                                 | RSL116089<br>RSL116061<br>RSL116671<br>RSE116683                                                     | 4 Pole / 10 Amp | 10-11 |
| M83536/21-006, -014, -022, -030<br>M83536/22-006, -014, -022, -031                                         | M12883/46-01                                                                                                                 | RSE116747                                                                                            | 3 Pole / 10 Amp | 17    |
| M83536/25-002<br>M83536/26-002                                                                             | M12883/47-01<br>M12883/47-04<br>M12883/47-07<br>M12883/47-10                                                                 | RSE116755<br>RSE116761<br>RSL116101<br>RSL116073                                                     | 6 Pole / 10 Amp | 18    |
| M6106/27-002                                                                                               | M12883/47-02<br>M12883/47-05<br>M12883/47-08<br>M12883/47-11                                                                 | RSE116757<br>RSE116763<br>RSL116103<br>RSL116075                                                     | 6 Pole / 10 Amp | 18    |
| MS27742-2                                                                                                  | M12883/54-04                                                                                                                 | RSE116635                                                                                            | 3 Pole / 25 Amp | 21    |
| MS27743-06, -12, -18, -24                                                                                  | M12883/48-01<br>M12883/48-02<br>M12883/48-03<br>M12883/48-04                                                                 | RSE112061<br>RSE112063<br>RSL112105<br>RSL112101                                                     | 3 Pole / 25 Amp | 19    |
| MS27743-09, -15, -21, -27                                                                                  | M12883/48-05<br>M12883/48-06<br>M12883/48-07<br>M12883/48-08                                                                 | RSE112065<br>RSE112067<br>RSL112107<br>RSL112103                                                     | 3 Pole / 25 Amp | 19    |
| Leach Corp. JA-D4E & J                                                                                     | M12883/41-03<br>M12883/41-08<br>M12883/41-13<br>M12883/41-18                                                                 | RSL116095<br>RSL116067<br>RSE116689<br>RSE116699                                                     | 2 Pole / 10 Amp | 12-13 |
| Leach Corp. KA-D4E & J                                                                                     | M12883/40-04<br>M12883/40-10<br>M12883/40-16<br>M12883/40-22                                                                 | RSL116085<br>RSL116057<br>RSE116667<br>RSE116679                                                     | 4 Pole / 10 Amp | 10-11 |

\* Applies to all plug-in dash numbered relays of these documents



# Relay Socket Cross Reference Chart

## Relay to Relay Socket

| Military Relay Part Number                                                | Military Socket Part Number                                                                                                  | APCD Socket Part Number                                                                              | Relay Type                    | Page  |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|-------|
| M6106/12-002                                                              | M12883/54-03                                                                                                                 | RSE116629                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/13-002,-008,-011,-013,-015                                          | M12883/54-01                                                                                                                 | RSE116627                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/13-004                                                              | M12883/54-02                                                                                                                 | RSE116631                                                                                            | 3 Pole / 25 Amp               | 21    |
| M6106/19-004,-007,-012,-017,-022                                          | M12883/55-01, M12883/55-02                                                                                                   | RSE112035, RSE112036                                                                                 | 1 Pole / 25 Amp               | 22    |
| M6106/20-002                                                              | M12883/55-03                                                                                                                 | RSE112044                                                                                            | 1 Pole / 25 Amp               | 22    |
| M6106/38-002                                                              | M12883/45-04                                                                                                                 | RSE120165                                                                                            | 2 Pole / 5 Amp                | 15-16 |
| M6106/40-002                                                              | M12883/46-02                                                                                                                 | RSE116749                                                                                            | 3 Pole / 5 Amp                | 17    |
| M83536/1-006,-015,-024,-033<br>M83536/2-006,-015,-024,-035                | M12883/45-01                                                                                                                 | RSE120159                                                                                            | 2 Pole / 5 Amp                | 15-16 |
| M83536/2-028, M83726/24, /25                                              | M12883/52-001                                                                                                                | RSE116175                                                                                            | Track Mount<br>2 Pole / 5 Amp | 20    |
| M83536/5-006,-014, -022, -030<br>M83536/6-006, -015, -022, -032           | M12883/44-01                                                                                                                 | RSE120151                                                                                            | 4 Pole / 5 Amp                | 14    |
| M83536/6-025                                                              | M12883/52-002                                                                                                                | RSE116185                                                                                            | Track Mount<br>4 Pole / 5 Amp | 20    |
| M83536/7-022                                                              | M12883/44-02                                                                                                                 | RSE120153                                                                                            | 4 Pole / 5 Amp                | 14    |
| M83536/9, -006, -015, -024, -035<br>M83536/10-006,-015,-024,<br>-034,-038 | M12883/41-01<br>M12883/41-04<br>M12883/41-06<br>M12883/41-09<br>M12883/41-11<br>M12883/41-14<br>M12883/41-16<br>M12883/41-19 | RSL116091<br>RSL116097<br>RSL116063<br>RSL116069<br>RSE116685<br>RSE116691<br>RSE116695<br>RSE116701 | 2 Pole / 10 Amp               | 12-13 |
| M83536/11-002, 004, 007                                                   | M12883/41-02<br>M12883/41-07<br>M12883/41-12<br>M12883/41-17                                                                 | RSL116093<br>RSL116065<br>RSE116687<br>RSE116697                                                     | 2 Pole / 10 Amp               | 12-13 |
| M83536/13-002, 005, 008, 012<br>M83536/14-002                             | M12883/41-05<br>M12883/41-10<br>M12883/41-15<br>M12883/41-20                                                                 | RSL116099<br>RSL116071<br>RSE116693<br>RSE116703                                                     | 2 Pole / 10 Amp               | 12-13 |

\* Applies to all plug-in dash numbered relays of these documents

# Extended Height RSL 4 Pole/10 Amp



Accordance with SAE-AMS-2422

# MIL-PRF-12883/40

## Low Profile RSE 4 Pole/10 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Stainless Steel, Hard Gold Plated in

Accordance with SAE-AMS-2422



Mates with M83536, M6106, M27709, M83726 Relays

### Low Profile Relay Sockets

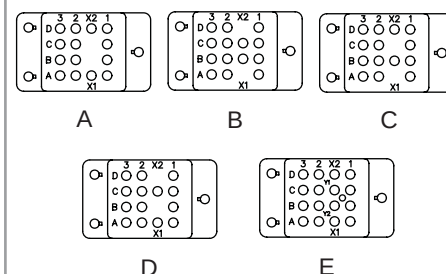
| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                                                                          |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------------------------------------------------------------------|
| /40-13            | RSE116661   | Loose            | 14  | 16/16             | /92-533        | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-14            | RSE116663   | Loose            | 14  | 16/16             | /92-533        | B       | M83536/17-002, 005                                                                    |
| /40-15            | RSE116665   | Loose            | 14  | 16/16             | /92-533        | C       |                                                                                       |
| /40-16            | RSE116667   | Loose            | 14  | 16/16             | /92-533        | D       | Leach Corp KA-D4E & J                                                                 |
| /40-17            | RSE116669   | Loose            | 14  | 16/20             | /92-594        | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-18            | RSE116671   | Loose            | 16  | 16/16             | /92-533        | E       | M83836/18-002,-005,-012<br>M83536/19-002,-005,-008,-012, M83536/20-002                |
| /40-19            | RSE116673   | Fixed            | 14  | 16/16             | /92-533        | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-20            | RSE116675   | Fixed            | 14  | 16/16             | /92-533        | B       | M83536/17-002, 005                                                                    |
| /40-21            | RSE116677   | Fixed            | 14  | 16/16             | /92-533        | C       |                                                                                       |
| /40-22            | RSE116679   | Fixed            | 14  | 16/16             | /92-533        | D       | Leach Corp KA-D4E & J                                                                 |
| /40-23            | RSE116681   | Fixed            | 14  | 16/20             | /92-534        | A       | M83536/15-022, M83536/16-006,-014,-031,-034<br>M83726/1,2,3,4,28,29,30,31*, M27709-02 |
| /40-24            | RSE116683   | Fixed            | 16  | 16/16             | /92-533        | E       | M83836/18-002,-005,-012<br>M83536/19-002,-005,-008,-012, M83536/20-002                |

<sup>1</sup>Mating End / Wire Barrel

\*Applies to all plug-in type relays of these documents

Mounting instructions can be found on page 26

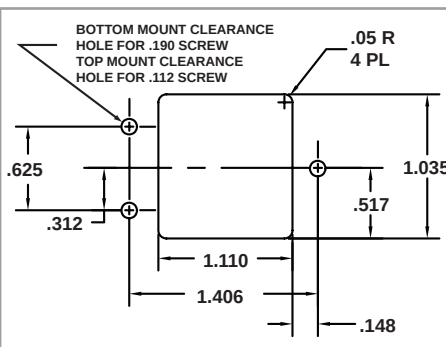
### Socket Configurations



### Relay Socket Weight

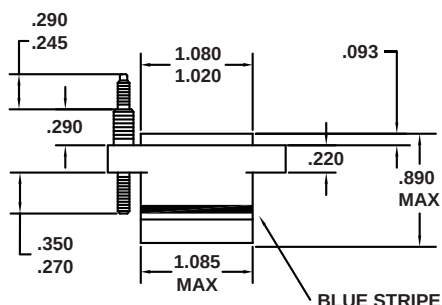
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .100   | 45    |

### Recommended Mounting Panel Cutout

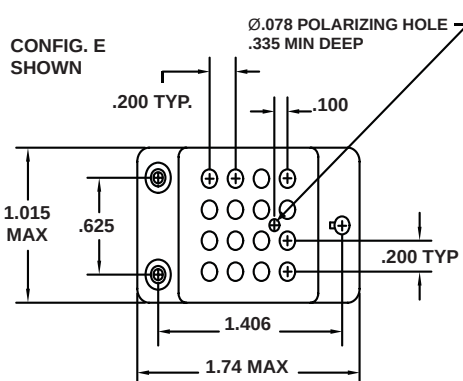


### Relay Socket Dimensions

#### Side View



#### Top View



Amphenol Pcd

### Relay Sockets



Mates with M83536, M6106 Relays

#### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-202, Method 213

Test Condition C

#### Materials

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Hardware:**

Stainless Steel or Steel w/

Cadmium Chromate Finish

**Contact Retainers:**

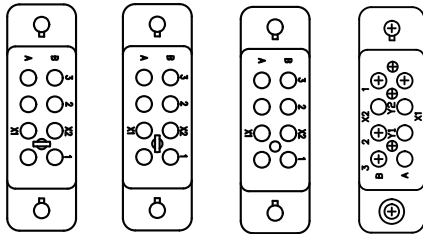
Stainless Steel

**Socket Contacts:**

Stainless Steel, Hard Gold Plated in

Accordance with SAE-AMS-2422

### Socket Configurations

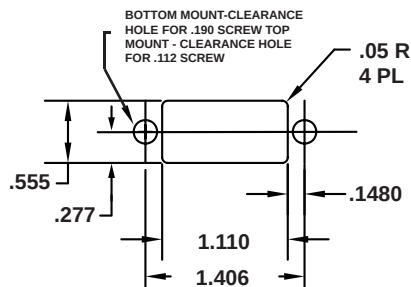


A B C D

### Relay Socket Weight

| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .073   | 33    |

### Recommended Mounting Panel Cutout



### Extended Height Relay Sockets

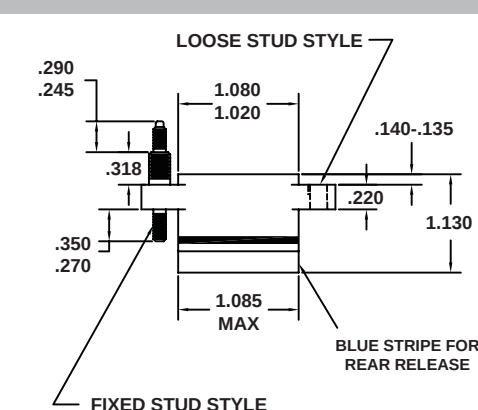
| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY    | Size*          | Contact<br>P/N     | Config. | Mating Relay                                                     |
|-------------------|-------------|------------------|--------|----------------|--------------------|---------|------------------------------------------------------------------|
| /41-01            | RSL116091   | Loose            | 8      | 16/16          | /5-116             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-02            | RSL116093   | Loose            | 8      | 16/16          | /5-116             | B       | M83536/11-002, 004, 007                                          |
| /41-03            | RSL116095   | Loose            | 8      | 16/16          | /5-116             | A       | Leach Corp JA-D4E & J                                            |
| /41-04            | RSL116097   | Loose            | 8      | 16/20          | /5-117             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-06            | RSL116063   | Fixed            | 8      | 16/16          | /5-116             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-07            | RSL116065   | Fixed            | 8      | 16/16          | /5-116             | B       | M83536/11-002, 004, 007                                          |
| /41-08            | RSL116067   | Fixed            | 8      | 16/16          | /5-116             | A       | Leach Corp JA-D4E & J                                            |
| /41-09            | RSL116069   | Fixed            | 8      | 16/20          | /5-117             | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-05            | RSL116099   | Loose            | 8<br>2 | 16/16<br>22/22 | /5-116<br>/101-553 | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |
| /41-10            | RSL116071   | Fixed            | 8<br>2 | 16/16<br>22/22 | /5-116<br>/101-553 | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |

\*Mating End / Wire Barrel

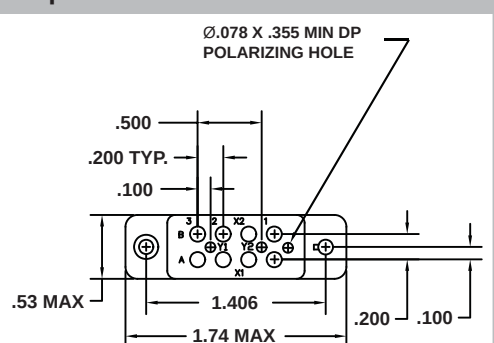
Mounting instructions can be found on page 25

### Relay Socket Dimensions

#### Side View



#### Top View





## Low Profile RSE 2 Pole/10 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-213, Method 213

Test Condition C

### Materials

#### Module Body:

Polytherimide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422



Mates with M83536, M6106 Relays

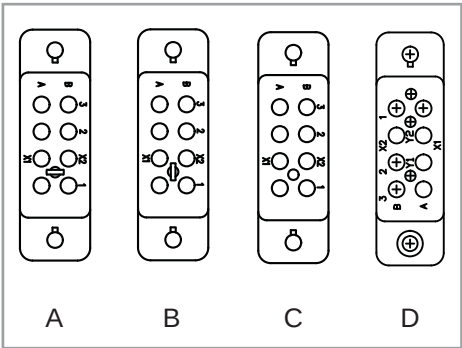
### Low Profile Relay Sockets

| MIL P/N | APCD P/N  | Mounting Stud | QTY | Size* | Contact P/N | Config. | Mating Relay                                                     |
|---------|-----------|---------------|-----|-------|-------------|---------|------------------------------------------------------------------|
| M12883  |           |               |     |       |             |         |                                                                  |
| /40-11  | RSE116685 | Loose         | 8   | 16/16 | /92-533     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-12  | RSE116687 | Loose         | 8   | 16/16 | /92-533     | B       | M83536/11-002, 004, 007                                          |
| /40-13  | RSE116691 | Loose         | 8   | 16/16 | /92-533     | A       | Leach Corp JA-D4E & J                                            |
| /40-14  | RSE116693 | Loose         | 8   | 16/20 | /92-534     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-16  | RSE116695 | Fixed         | 8   | 16/16 | /92-533     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /40-17  | RSE116697 | Fixed         | 8   | 16/16 | /92-533     | B       | M83536/11-002, 004, 007                                          |
| /40-18  | RSE116699 | Fixed         | 8   | 16/16 | /92-533     | A       | Leach Corp JA-D4E & J                                            |
| /40-19  | RSE116701 | Fixed         | 8   | 16/20 | /92-534     | C       | M83536/9-006, 015, 024, 035<br>M83536/10-006, 015, 024, 034, 038 |
| /41-15  | RSE116693 | Loose         | 8   | 16/16 | /92-553     | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |
|         |           |               | 2   | 22/22 | /92-551     |         |                                                                  |
| /41-20  | RSE116703 | Fixed         | 8   | 16/16 | /92-553     | D       | M83536/13-002,-005,-008,-012<br>M83536/13-002,-005,-008,-012     |
|         |           |               | 2   | 22/22 | /92-551     |         |                                                                  |

\*Mating End / Wire Barrel

Mounting instructions can be found on page 26

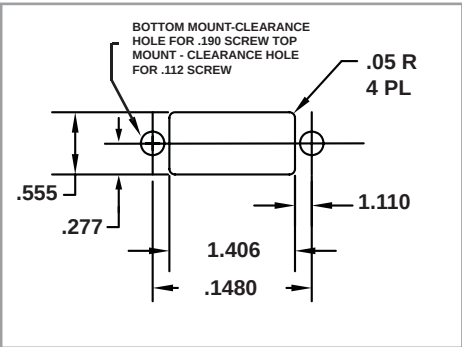
### Socket Configurations



### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .055   | 25    |

### Recommended Mounting Panel Cutout



### Relay Socket Dimensions

#### Side View

#### Top View

## Relay Sockets



## Mates with M6106, M83536 Relays

# MIL-PRF-12883/44

# RSE 4 Pole/5 Amp

## Operating Range

**Temperature:**

-65°C to 125°C

### Insulation Resistance:

1000 Megaohms Min.

### Dielectric Withstanding Voltage:

1000 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

### Test Condition G

### Shock:

MIL-STD-202, Method 213

### Test Condition C

## Materials

### Module Body:

## Polyetherimide per ASTM-D5205

**Grommet:**

## Silicone Rubber per A-A-59588

**Hardware:**

Stainless Steel or Steel w/

## Cadmium Chromate Finish

**Contact Retainers:**

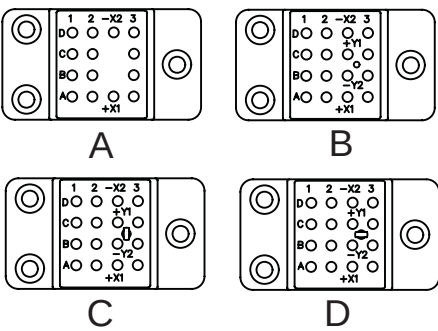
## Stainless Steel

### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

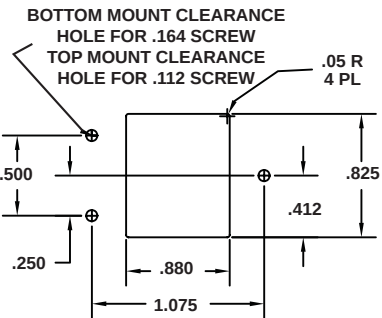
## Socket Configurations



## Relay Socket Weight

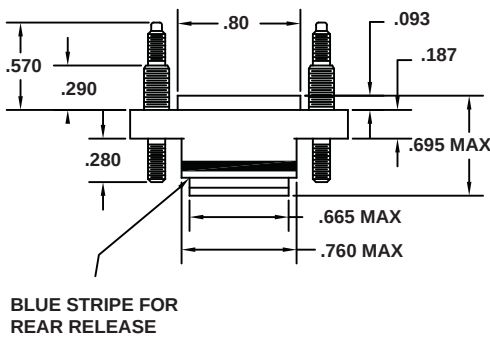
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .055   | 25    |

## Recommended Mounting Panel Cutout

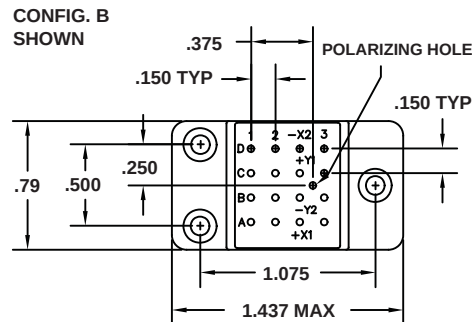


## Relay Socket Dimensions

### Side View



### Top View



# MIL-PRF-12883/45

## RSE 2 Pole/5 Amp

### Operating Range

**Temperature:**  
-65°C to 125°C

**Insulation Resistance:**  
1000 Megaohms Min.

**Dielectric Withstanding Voltage:**  
1000 VRMS at Sea Level  
500 VRMS at 80,000 ft.

**Vibration:**  
MIL-STD-202, Method 204  
Test Condition G

**Shock:**  
MIL-STD-202, Method 213  
Test Condition C

### Materials

**Socket Body:**  
Polyetherimide per ASTM -D5205

**Grommet:**  
Silicone Rubber per A-A-59588

**Hardware:**  
Stainless Steel or Steel w/  
Cadmium Chromate Finish

**Contact Retainers:**  
Stainless Steel

**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with SAE-AMS 2422

## Relay Sockets



Mates with M6106, M83536 Relays

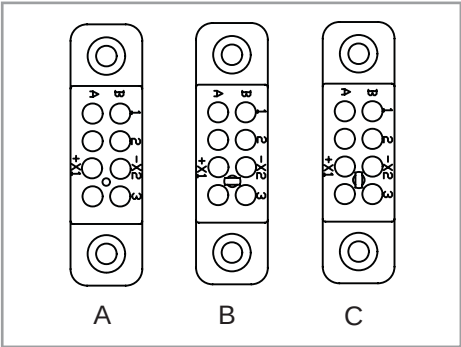
## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                                                     |
|-------------------|-------------|-----|-------------------|----------------|---------|------------------------------------------------------------------|
| /45-01            | RSE120159   | 8   | 20/20             | /101-553       | A       | M83536/1-006, -015, -024, -033<br>M83536/2-006, -015, -024, -035 |
| /45-02            | RSE120161   | 8   | 20/20             | /101-553       | B       |                                                                  |
| /45-03            | RSE120163   | 8   | 20/20             | /101-553       | C       |                                                                  |

\*Mating End / Wire Barrel

Mounting instructions can be found on page 26

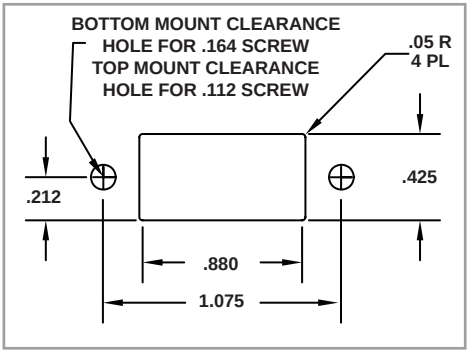
## Socket Configurations



## Relay Socket Weight

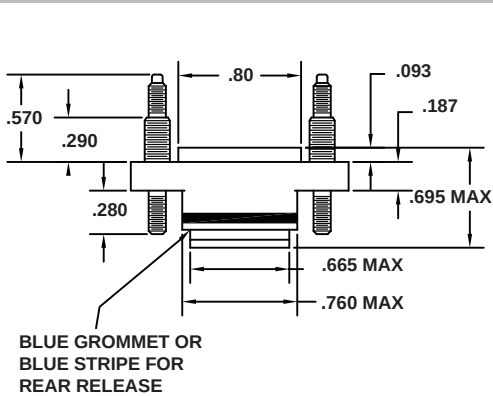
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .033   | 15    |

## Recommended Mounting Panel Cutout

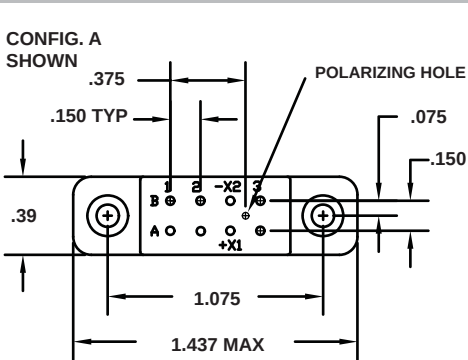


## Relay Socket Dimensions

### Side View



### Top View



# Amphenol Pcd

## Relay Sockets



Mates with M6106/38 Relays

# MIL-PRF-12883/45

## RSE 2 Pole/5 Amp

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1000 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-202, Method 213

Test Condition C

### Materials

**Socket Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Hardware:**

Stainless Steel or Steel w/

Cadmium Chromate Finish

**Contact Retainers:**

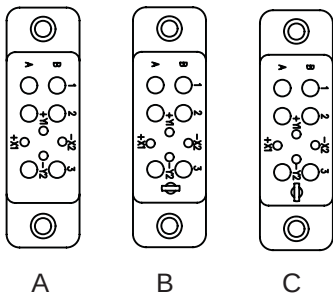
Stainless Steel

**Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with with SAE-AMS 2422

## Socket Configurations



A

B

C

## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay |
|-------------------|-------------|-----|-------------------|----------------|---------|--------------|
| /45-04            | RSE120165   | 6   | 20/20             | /101-553       | A       | M6106/38-002 |
|                   |             | 4   | 22/22             | /101-552       |         |              |
| /45-05            | RSE120167   | 6   | 20/20             | /101-553       | B       |              |
|                   |             | 4   | 22/22             | /101-552       |         |              |
| /45-06            | RSE120169   | 6   | 20/20             | /101-553       | C       |              |
|                   |             | 4   | 22/22             | /101-552       |         |              |

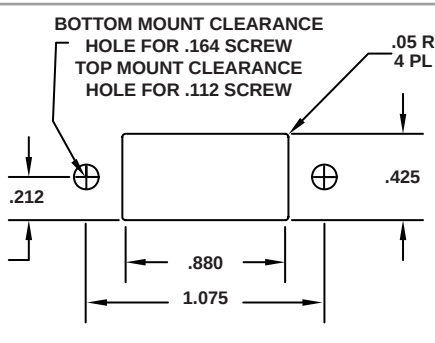
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

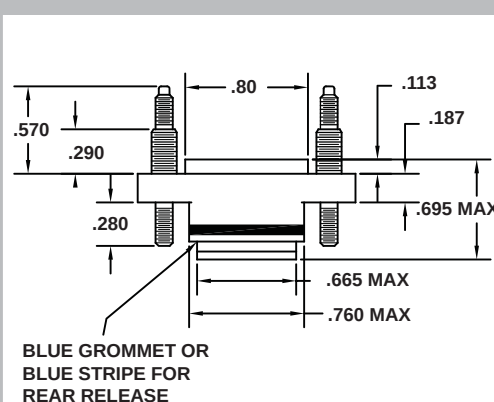
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .033   | 15    |

## Recommended Mounting Panel Cutout

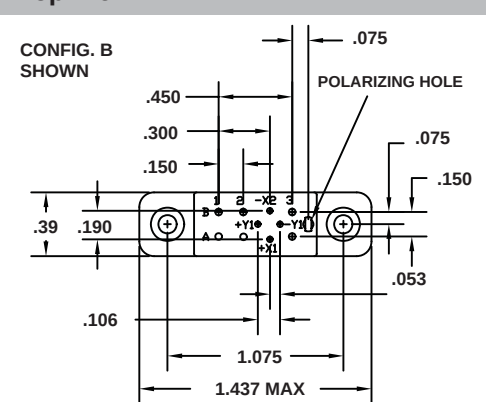


## Relay Socket Dimensions

### Side View



### Top View







## Relay Sockets



Mates with M83536, M83536 Relays

# MIL-PRF-12883/47

## RSE/RSL 6 Pole/10 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

#### Socket Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

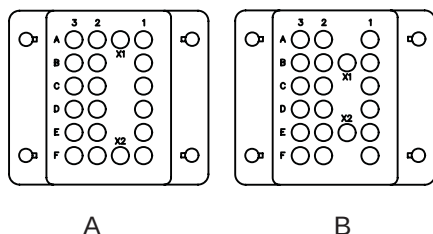
Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Socket Configurations



## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                 |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|------------------------------|
| /47-01            | RSE116755   | Loose            | 20  | 16/16             | /92-533        | A       | M83536/25-002, M83536/26-002 |
| /47-02            | RSE116757   | Loose            | 20  | 16/16             | /92-533        | B       | M83536/27-002                |
| /47-04            | RSE116761   | Fixed            | 20  | 16/16             | /92-533        | A       | M83536/25-002, M83536/26-002 |
| /47-05            | RSE116763   | Fixed            | 20  | 16/16             | /92-533        | B       | M83536/27-002                |

## Extended Height Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                 |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|------------------------------|
| /47-07            | RSL116101   | Loose            | 20  | 16/16             | /5-116         | A       | M83536/25-002, M83536/26-002 |
| /47-08            | RSL116103   | Loose            | 20  | 16/16             | /5-116         | B       | M83536/27-002                |
| /47-10            | RSL116073   | Fixed            | 20  | 16/16             | /5-116         | A       | M83536/25-002, M83536/26-002 |
| /47-11            | RSL116075   | Fixed            | 20  | 16/16             | /5-116         | B       | M83536/27-002                |

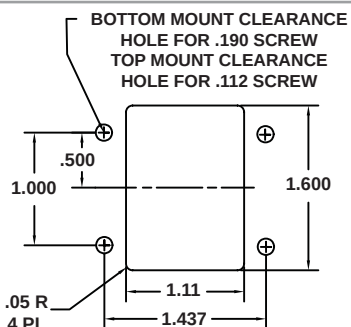
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

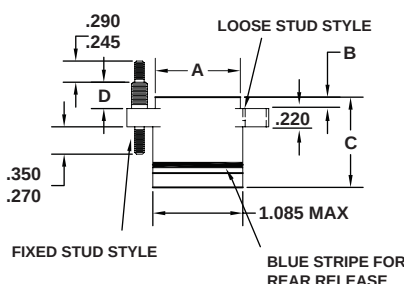
| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .176   | 80    |
| Low Profile     | .144   | 65    |

## Recommended Mounting Panel Cutout



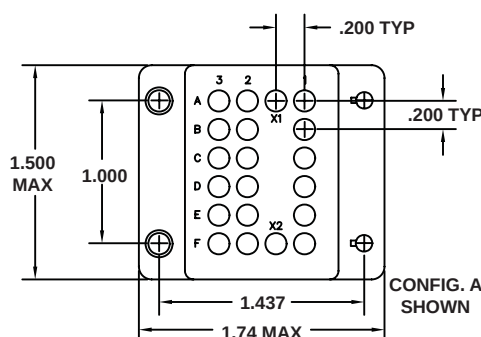
## Relay Socket Dimensions

### Side View



| Relay Socket    | A    | B         | C Max | D    |
|-----------------|------|-----------|-------|------|
| Extended Height | 1.03 | .140-.135 | 1.25  | .318 |
| Low Profile     | 1.08 | .093      | .890  | .290 |

### Top View



# MIL-PRF-12883/48

## RSE/RSL 3 Pole/25 Amp

### Operating Range

**Temperature:**  
-65°C to 125°C

**Insulation Resistance:**  
1000 Megaohms Min.

**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
500 VRMS at 80,000 ft.

**Vibration:**  
MIL-STD-202, Method 204  
Test Condition G

**Shock:**  
MIL-STD-202, Method 213  
Test Condition C

**Materials**

**Socket Body:**  
Polyetherimide per ASTM-D5205

**Grommet:**  
Silicone Rubber per A-A-59588

**Hardware:**  
Stainless Steel or Steel w/  
Cadmium Chromate Finish

**Contact Retainers:**  
Stainless Steel

**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with SAE-AMS 2422



Mates with MS27743 Relays

### Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay              |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------|
| /48-01            | RSE112061   | Loose            | 2   | 16/16             | /92-533        | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-02            | RSE112063   | Fixed            | 2   | 16/16             | /92-533        | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-05            | RSE112065   | Loose            | 2   | 16/16             | /92-533        | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |
| /48-06            | RSE112067   | Fixed            | 2   | 16/16             | /92-533        | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /92-535        |         |                           |

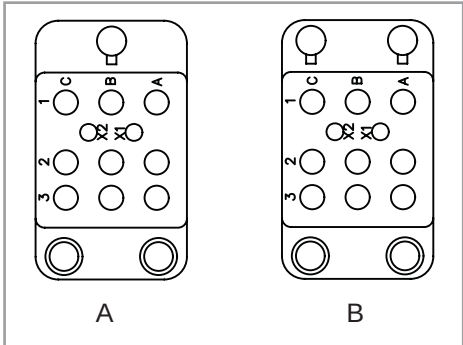
### Extended Height Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay              |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|---------------------------|
| /48-03            | RSL112105   | Loose            | 2   | 16/16             | /5-116         | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-04            | RSL112101   | Fixed            | 2   | 16/16             | /5-116         | A       | MS27743-06, -12, -18, -24 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-07            | RSL112107   | Loose            | 2   | 16/16             | /5-116         | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |
| /48-08            | RSL112103   | Fixed            | 2   | 16/16             | /5-116         | B       | MS27743-09, -15, -21, -27 |
|                   |             |                  | 9   | 12/12             | /5-118         |         |                           |

<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 25

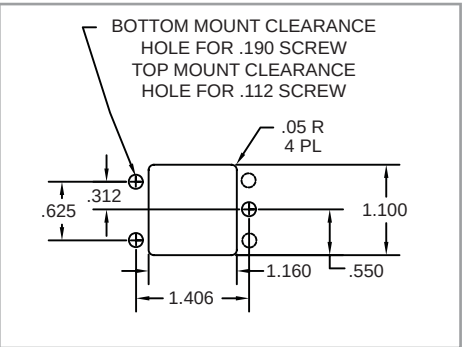
### Socket Configurations



### Relay Socket Weight

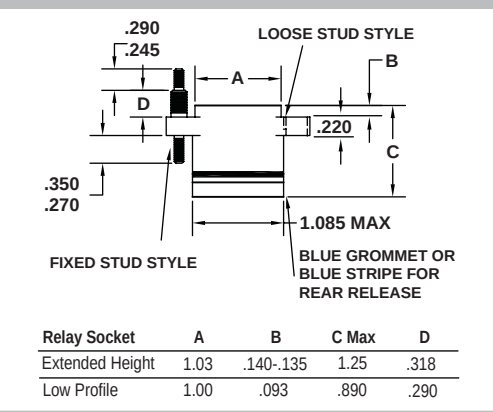
| Relay Socket    | Pounds | Grams |
|-----------------|--------|-------|
| Extended Height | .129   | 55    |
| Low Profile     | .109   | 49    |

### Recommended Mounting Panel Cutout

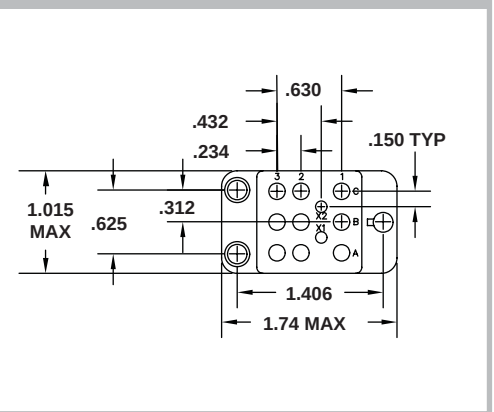


### Relay Socket Dimensions

#### Side View



#### Top View







# MIL-PRF-12883/54

## RSE 3 Pole/25 Amp

### Operating Range

**Temperature:**  
-65°C to 125°C

**Insulation Resistance:**  
1000 Megaohms Min.

**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
500 VRMS at 80,000 ft.

**Vibration:**  
MIL-STD-202, Method 204  
Test Condition G

**Shock:**  
MIL-STD-202, Method 213  
Test Condition C

### Materials

**Socket Body:**  
Polyetherimide per ASTM-D5205

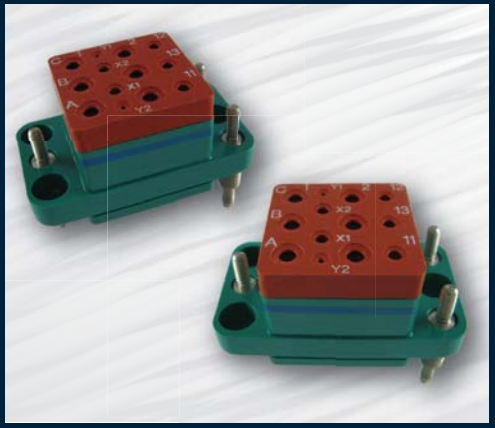
**Grommet:**  
Silicone Rubber per A-A-59588

**Hardware:**  
Stainless Steel or Steel w/  
Cadmium Chromate Finish

**Contact Retainers:**  
Stainless Steel

**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with SAE-AMS 2422

### Relay Sockets



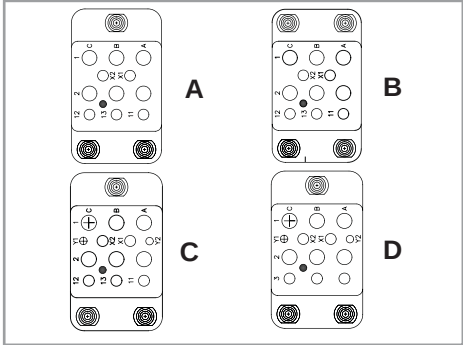
Mates with M6106/12, /13 & MS27742 Relays

### Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size* | Contact<br>P/N | Config. | Mating Relay                     |
|-------------------|-------------|------------------|-----|-------|----------------|---------|----------------------------------|
| /54-01            | RSE116627   | Fixed            | 5   | 16/16 | /92-533        | A       | M6106/13-002,-008,-011,-013,-015 |
|                   |             |                  | 6   | 12/12 | /92-535        |         |                                  |
| /54-02            | RSE116631   | Fixed            | 5   | 16/16 | /92-533        | B       | M6106/13-004                     |
|                   |             |                  | 6   | 12/12 | /92-535        |         |                                  |
| /54-03            | RSE116629   | Fixed            | 2   | 20/20 | /92-532        | C       | M6106/12-002                     |
|                   |             |                  | 5   | 16/16 | /92-533        |         |                                  |
| /54-04            | RSE116635   | Fixed            | 2   | 20/20 | /92-532        | D       | MS27742-2                        |
|                   |             |                  | 2   | 16/16 | /92-535        |         |                                  |
|                   |             |                  | 9   | 12/12 | /92-535        |         |                                  |

Mounting instructions can be found on page 26

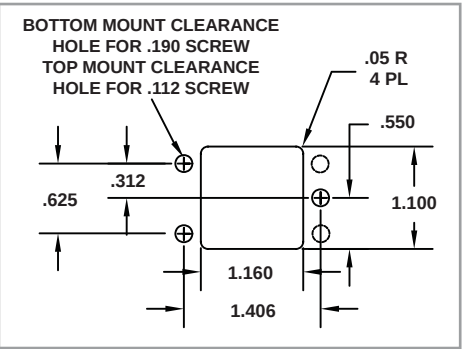
### Socket Configurations



### Relay Socket Weight

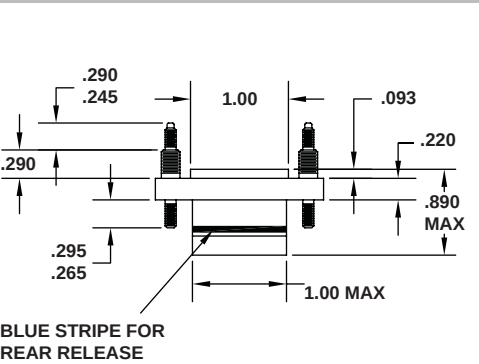
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE116627    | .132   | 60    |
| RSE116631    | .132   | 60    |
| RSE116629    | .154   | 70    |
| RSE116635    | .154   | 70    |

### Recommended Mounting Panel Cutout

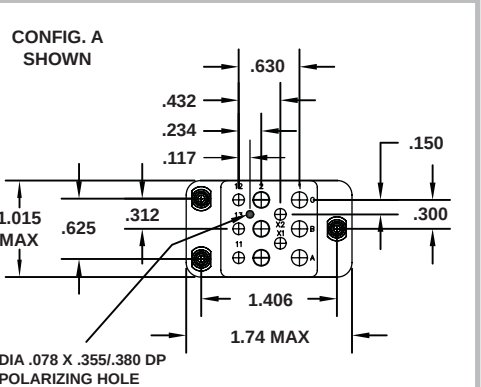


### Relay Socket Dimensions

#### Side View



#### Top View



## Relay Sockets



Mates with M6106/19, /20 Relays

# MIL-PRF-12883/55

## RSE 1 Pole/25 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

#### Socket Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

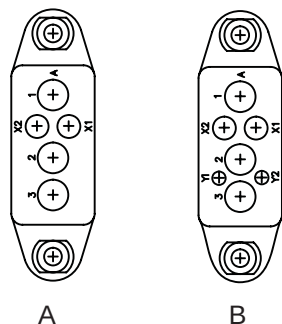
Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Socket Configurations



## Low Profile Relay Sockets

| MIL P/N<br>M12883 | APCD<br>P/N | Mounting<br>Stud | QTY | Size <sup>1</sup> | Contact<br>P/N | Config. | Mating Relay                         |
|-------------------|-------------|------------------|-----|-------------------|----------------|---------|--------------------------------------|
| /55-01            | RSE112035   | Fixed            | 2   | 16/16             | /92-533        | A       | M6106/19-004, -007, -012, -017, -022 |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                      |
| /55-02            | RSE112036   | Fixed            | 2   | 16/16             | /92-533        | A       | M6106/19-004, -007, -012, -017, -022 |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                      |
| /55-03            | RSE112044   | Fixed            | 2   | 22/22             | /92-531        | B       | M6106/20-002                         |
|                   |             |                  | 3   | 12/12             | /92-535        |         |                                      |

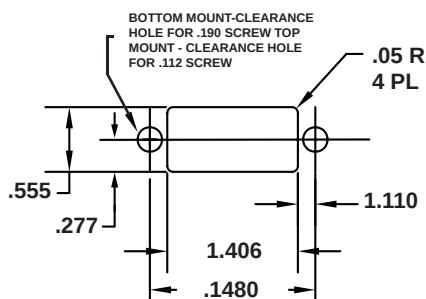
<sup>1</sup>Mating End / Wire Barrel

Mounting instructions can be found on page 26

## Relay Socket Weight

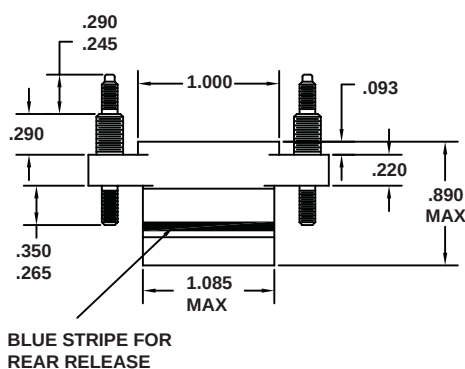
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .073   | 33    |

## Recommended Mounting Panel Cutout

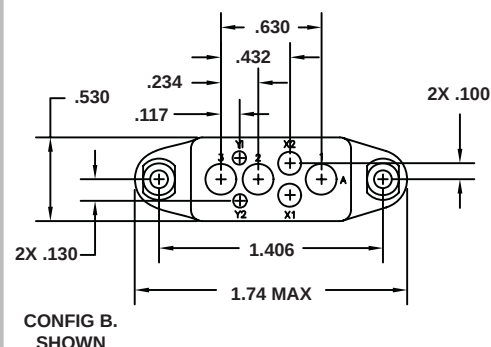


## Relay Socket Dimensions

### Side View



### Top View



# Microminiature Relay Sockets

## RSE 2 & 3 Pole, 2 Amp

### Operating Range

Temperature:

-65°C to 125°C

Insulation Resistance:

1000 Megaohms Min.

Dielectric Withstanding Voltage:

2500 VRMS at Sea Level

700 VRMS at 80,000 ft.

Vibration:

MIL-STD-202, Method 204

Test Condition G

Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

Module Body:

Polyetherimide per ASTM-D5205

Grommet:

Silicone Rubber per A-A-59588

Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

Contact Retainers:

Stainless Steel

Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Relay Sockets



Mates with M39016 & M5757 Relays

### Relay Sockets for 2 Pole/ 2 Amp Microminiature Relays

| APCD P/N  | QTY | Size  | Contact P/N | Config. | Mating Relay                      |
|-----------|-----|-------|-------------|---------|-----------------------------------|
| RSE120020 | 8   | 22/20 | CNS109900   | A       | MIL-R-5757/10-022,-044            |
| RSE120074 | 8   | 22/20 | CNS109900   | B       | MIL-R-39016/55-001,-013,-025,-037 |

### Relay Sockets for 3 Pole/ 2 Amp Microminiature Relays

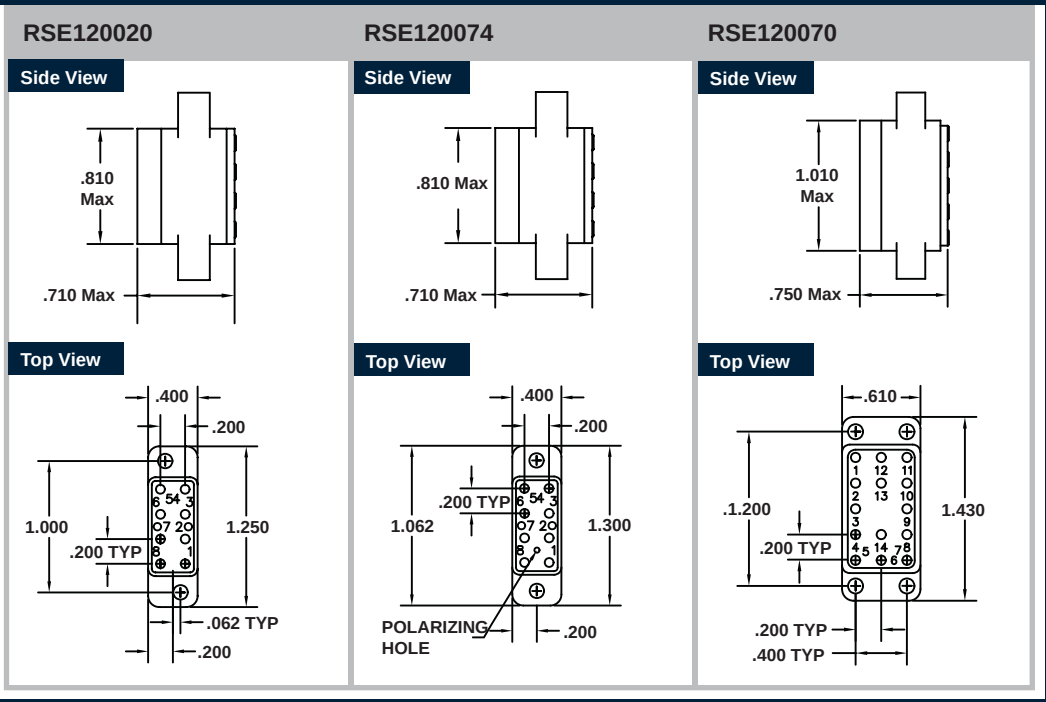
| APCD P/N  | QTY | Size  | Contact P/N | Config. | Mating Relay                 |
|-----------|-----|-------|-------------|---------|------------------------------|
| RSE120070 | 14  | 22/20 | CNS109900   | C       | MIL-R-39016/39-002,-008,-014 |

Mounting instructions can be found on page 26

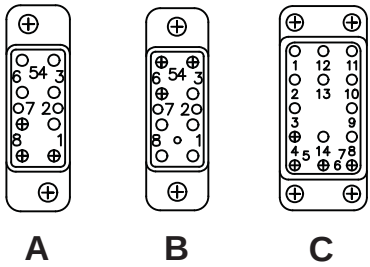
### Product Description

Microminiature Relay Sockets are designed to mate with M39016 & M5757 Microminiature Relays. Amphenol Pcd supplies three separate relay sockets for customers using Microminiature Relays.

### Relay Socket Dimensions



### Socket Configurations



### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE120020    | .024   | 11    |
| RSE120074    | .024   | 11    |
| RSN120070    | .044   | 20    |

Amphenol Pcd

## Relay Sockets



Mates with MIL-R-6106 & MS27743 Relays

# Board Mount MIL-PRF-12883

## RSN 2,4 Pole/10 Amp, 3 Pole/25 Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422

## Product Description

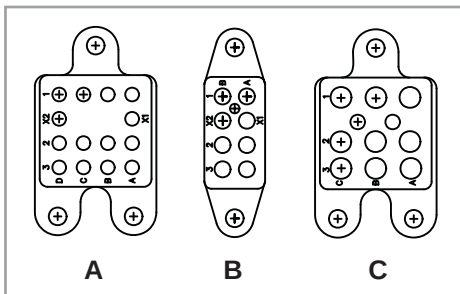
Product Line of pluggable, PC board mount relay sockets allows separable mounting of relays direct to boards in airborne or ground applications. Polyetherimide body and scalloped mounting flange reduce weight and improve strength. Mounting hardware supplied with connector secures firmly to board and eliminates stress on solder contacts. Gold-plated contacts and solder-dipped contact tails are available. Meets all applicable specifications.

## Board Mount Relay Sockets

| APCD P/N  | QTY | Size <sup>1</sup> | Contact P/N | Config. | Mating Relay        |
|-----------|-----|-------------------|-------------|---------|---------------------|
| RSN116140 | 14  | 16/16             | /92-533     | A       | MIL-R-6106, MS27400 |
| RSN116130 | 8   | 16/16             | /92-533     | B       | MIL-R-6106, MS27401 |
| RSN112010 | 9   | 12/12             | /92-535     | C       | MIL-R-6106, MS27743 |
|           | 2   | 16/16             | /92-533     |         |                     |

Mounting instructions can be found on page 26

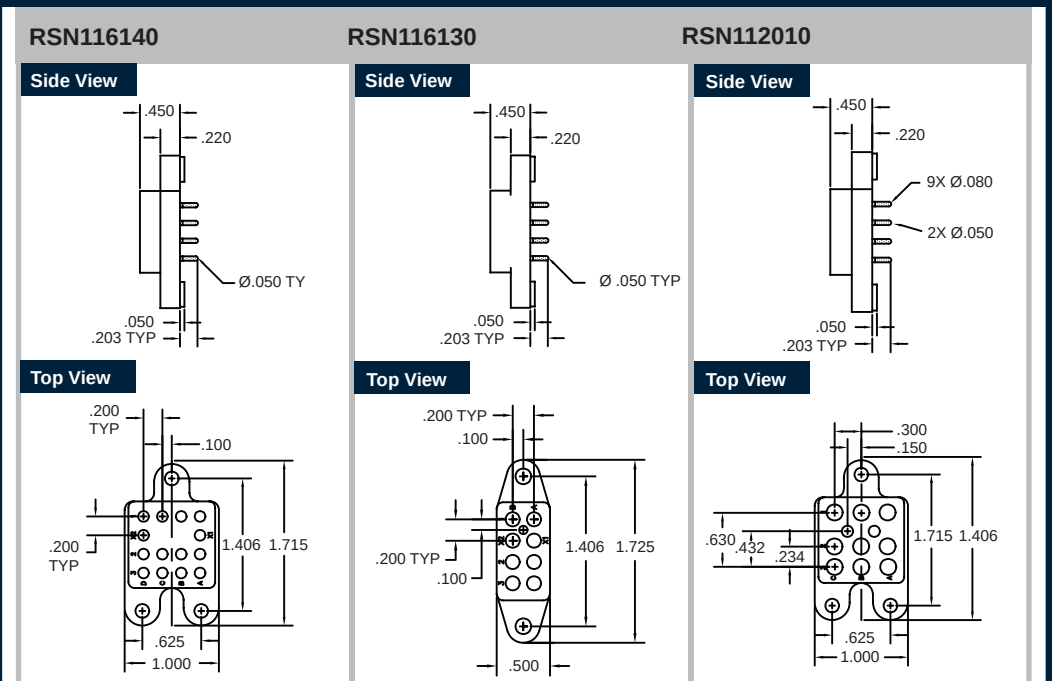
## Socket Configurations



## Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSN116140    | .055   | 25    |
| RSN116130    | .033   | 15    |
| RSN112010    | .057   | 26    |

## Relay Socket Dimensions





# Non-Environmental Relay Sockets

## Solder Termination

6 Pole/5 Amp, 4 Pole/10 Amp, 2 & 4 Pole/5 Amp, 2 Pole /10Amp

### Operating Range

#### Temperature:

-65°C to 125°C

#### Insulation Resistance:

1000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

#### Vibration:

MIL-STD-202, Method 204

Test Condition G

#### Shock:

MIL-STD-202, Method 213

Test Condition C

### Materials

#### Socket Body:

Polyetherimide per ASTM-D5205

#### Hardware:

Stainless Steel or Steel w/

Cadmium Chromate Finish

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with SAE-AMS 2422



Mates with M25027 & Series 9226, 9224, 9225, 9220, 9229, 9927 Leach Corp. Relays

## Solder Termination Relay Sockets

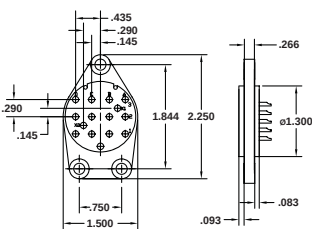
| APCD P/N  | Ref MIL STD Socket | MIL STD Relay           | Leach Corp Relay |
|-----------|--------------------|-------------------------|------------------|
| RSN116820 | MS25330            | MS25329 (6 Pole/5 Amp)  | 9226 Series      |
| RSN116890 | MS25328            | MS25327 (4 Pole/10 Amp) | 9224 Series      |
| RSN116891 | MS25462            | MS25461 (4 Pole/10 Amp) | 9225 Series      |
| RSN116800 | MS25326            | MS25325 (4 Pole/5 Amp)  | 9220 Series      |
| RSN116810 | MS25322            | MS25321 (2 Pole/10 Amp) | 9229 Series      |
| RSN116825 | MS25324            | MS25323 (2 Pole/10 Amp) | 9227 Series      |

Mounting instructions can be found on page 26

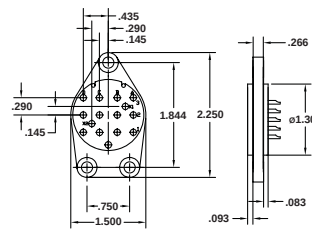
## Relay Socket Dimensions

### Solder Termination

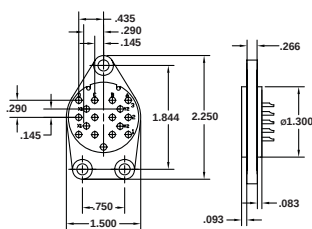
#### RSN116820



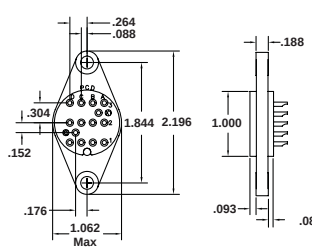
#### RSN116890



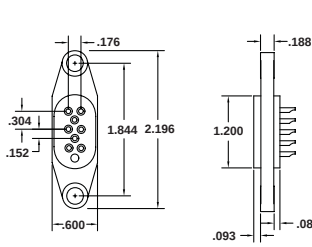
#### RSN116891



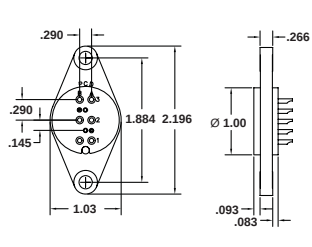
#### RSN116800



#### RSN116810



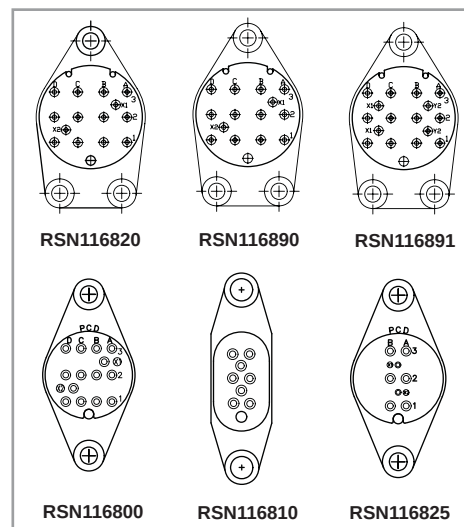
#### RSN116825



## Product Description

Solder Termination Relay Sockets with Polyetherimide body and scalloped mounting flange to reduce weight and improve strength. Mounting hardware supplied with product.

## Socket Configurations



## Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| RSE120020    | .024   | 11    |
| RSE120074    | .024   | 11    |
| RSN120070    | .044   | 20    |

Amphenol Pcd

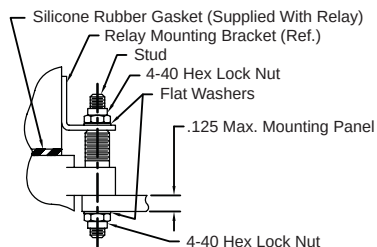
# Relay Socket Mounting Instructions

## Top Mount & Bottom Mount

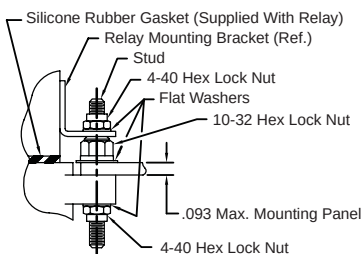
### Mounting Instructions

MIL-PRF-12883/40, MIL-PRF-12883/41  
MIL-PRF-12883/47, MIL-PRF-12883/48  
MIL-PRF-12883/54, MIL-PRF-12883/55

#### TOP MOUNT



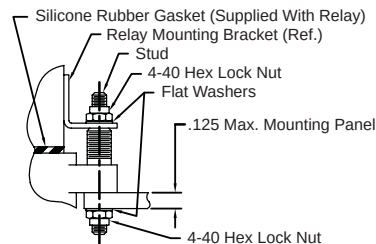
#### BOTTOM MOUNT



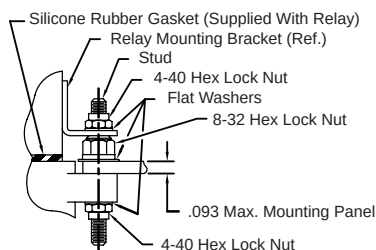
### Mounting Instructions

MIL-PRF-12883/44, MIL-PRF-12883/45  
MIL-PRF-12883/46

#### TOP MOUNT



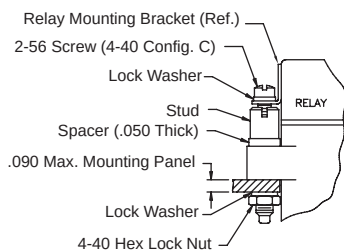
#### BOTTOM MOUNT



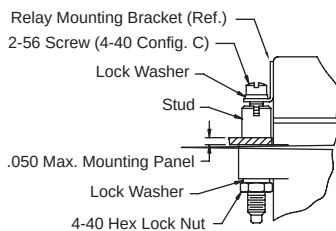
### Mounting Instructions

Mircominature Relay Sockets

#### TOP MOUNT



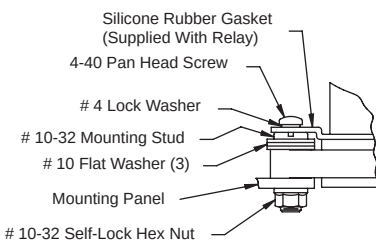
#### BOTTOM MOUNT



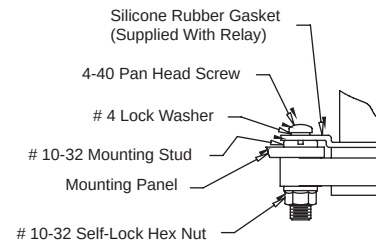
### Mounting Instructions

Non-Enviromental Solder Termination Relay Sockets

#### TOP MOUNT



#### BOTTOM MOUNT



# Amphenol Pcd Relay Sockets

## JRS/JRE Quick Mount Relay sockets

### Amphenol Pcd Quick Mount Relay Sockets

Amphenol Pcd recently introduced the JRS/JRE line Quick-Mount Relay Sockets. These relay sockets snap mount into standard aircraft panel cutouts and eliminate all socket-to-bulkhead mounting hardware, simplifying installation and dramatically reducing weight and installed cost. JRS/JRE line sockets meet the applicable performance and dimensional requirements of MIL-PRF-12883, are compatible with MIL SPEC approved relays from any manufacturer, and can be utilized in existing avionics systems with standard slotted panel cutouts.



JRS 4 Pole  
Relay Sockets

JRS 3 Pole  
Relay Sockets

JRS 2 Pole  
Relay Sockets

JRS 1 Pole  
Relay Sockets

JRE 2 Pole  
Relay Sockets

JRE 4 Pole  
Relay Sockets

### Key Features and Benefits

#### Socket Construction & Installation

JRS/JRE sockets maintain the same MIL mounting configurations and construction (molded polyetherimide bodies and silicone rubber sealing grommets) as Amphenol Pcd's traditional relay sockets. A heel and toe snap-in system allows the socket to be mounted to the panel without hardware and held securely in place. The assembled socket and relay meet all shock and vibration requirements

#### Lower Installed Cost

Elimination of loose hardware and the time required to assemble individual hardware components to the sockets results in a reduction of over 45% in socket installation time.

#### No Loose Hardware

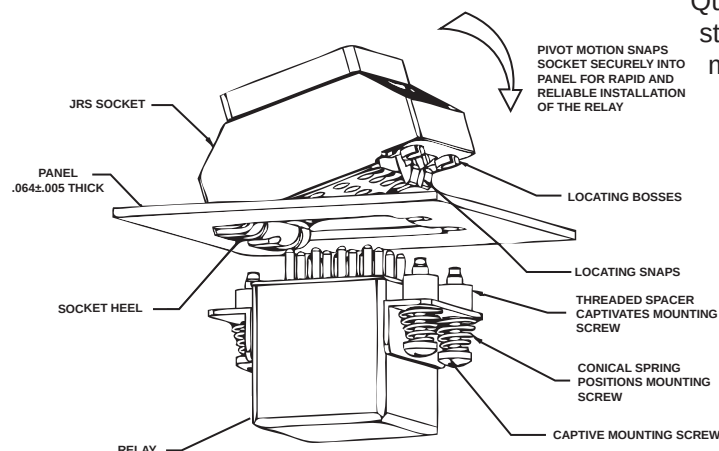
The combination of snap-in relay-to-panel mounting and pre-assembled relay hardware eliminates all loose hardware from the socket and relay mounting and installation process. The logistical and safety issues related with loose hardware are completely avoided.

#### Relay Installation

JRE/JRS Relay Sockets feature externally threaded mounting screws and spacer assemblies which are pre-assembled to the relay. These mounting screws are captured and aligned by a conical spring, and utilized to fasten the relay to the socket. The screws engage internally threaded bushings captured in the socket and once the relay is secured, the socket snap features are no longer under stress.

#### Reduced Weight

The elimination of socket mounting hardware and a streamlined polyetherimide body combine to reduce the weight of a Quick-Mount Relay Socket. When compared to Amphenol Pcd standard MIL-PRF-12883 relay sockets provided with traditional mounting hardware, the weight is reduced by 30 to 40%.



## Quick Mount Relay Sockets



Replaces MIL-PRF-12883/55  
Mates with M6106 Relays

# Quick Mount Relay Sockets

## JRS 1 Pole / 25 Amp / Size 12 & 16

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

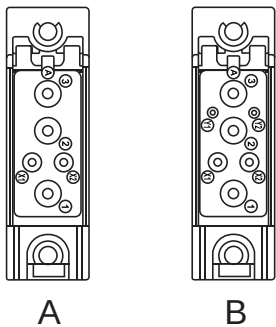
**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

### Socket Configurations



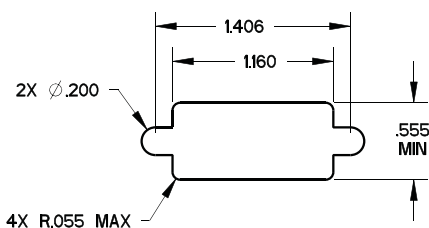
### Extended Height Relay Sockets

| APCD P/N  | QTY | Size  | Contact | Mating Relay       | Configuration |
|-----------|-----|-------|---------|--------------------|---------------|
| JRS500100 | 2   | 16/16 | /92-533 | M6106/19, M6106/20 | A             |
|           | 3   | 12/12 | /92-535 |                    |               |
| JRS500200 | 2   | 16/16 | /92-533 | M6106/19, M6106/20 | B             |
|           | 3   | 12/12 | /92-535 |                    |               |

### Relay Socket Weight

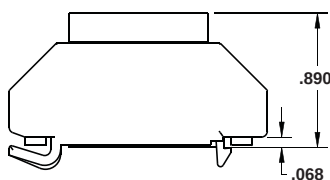
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

### Required Mounting Panel Cutout

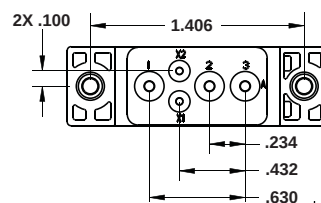


### Relay Socket Dimensions

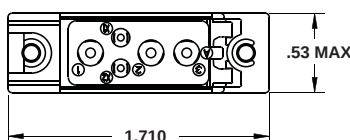
#### Side View



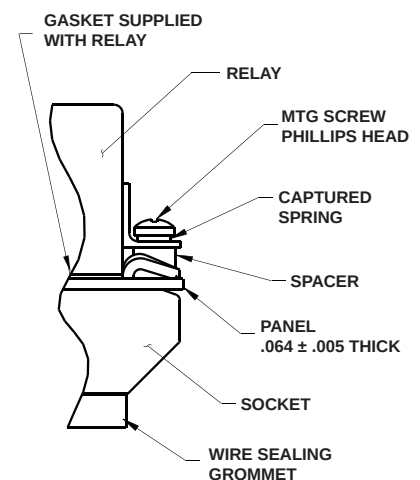
#### Top View



#### Bottom View



### Mounting Hardware



### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS500100 | NONE     | NONE     |
| JRS500101 | NONE     | YES      |
| JRS500110 | YES      | NONE     |
| JRS500111 | YES      | YES      |



# Quick Mount Relay Sockets

## JRS 2 Pole / 10 Amp / Size 16

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Quick Mount Relay Sockets

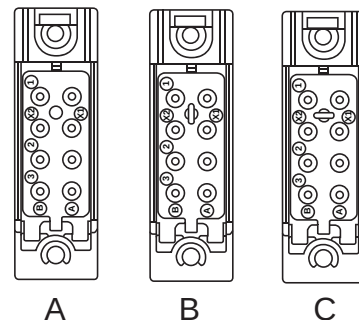


**Replaces MIL-PRF-12883/41**  
**Mates with M83536 Relays**

### Extended Height Relay Sockets

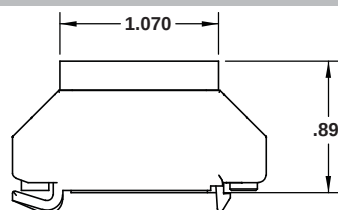
| APCD P/N  | QTY | Size <sup>1</sup> | Contact | Mating Relay | Configuration |
|-----------|-----|-------------------|---------|--------------|---------------|
| JRS200100 | 8   | 16/16             | /92-533 | M83536       | A             |
| JRS200200 | 8   | 16/16             | /92-533 | M83536       | B             |
| JRS200300 | 8   | 16/16             | /92-533 | M83536       | C             |

### Socket Configurations

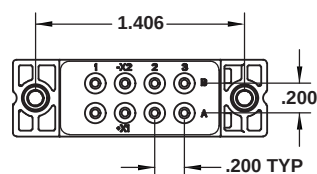


### Relay Socket Dimensions

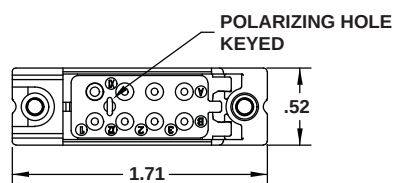
#### Side View



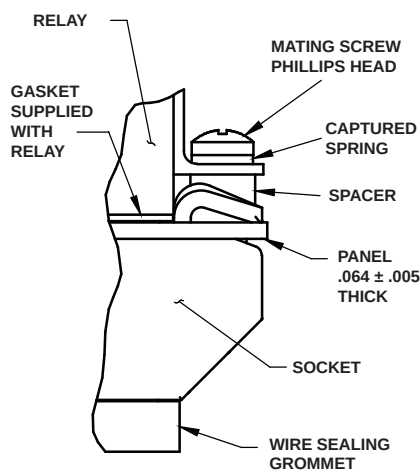
#### Top View



#### Bottom View



### Mounting Hardware



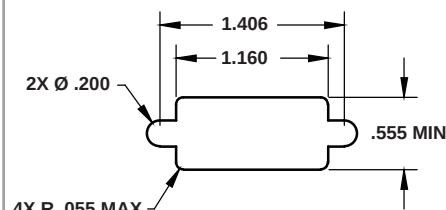
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS200100 | NONE     | NONE     |
| JRS200101 | NONE     | YES      |
| JRS200110 | YES      | NONE     |
| JRS200111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

### Required Mounting Panel Cutout



**Amphenol Pcd**

## Quick Mount Relay Sockets



Replaces MIL-PRF-12883/48  
Mates with M6106 & MS27743 Relays

# Quick Mount Relay Sockets

## JRS 3 Pole / 25 Amp / Size 12 & 16

### Operating Range

Temperature:

-65°C to 125°C

Insulation Resistance:

1000 Megaohms Min.

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

Vibration:

MIL-STD-202, Method 204

Test Condition G

Shock:

MIL-STD-213, Method 213

Test Condition C

### Materials

Socket Body:

Polythermide per ASTM-D5205

Grommet:

Silicone Rubber per A-A-59588

Contact Retainers:

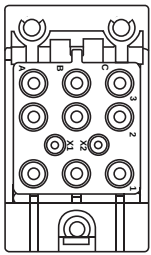
Stainless Steel

Internal Socket Contacts:

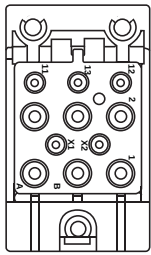
Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Socket Configurations



A



B

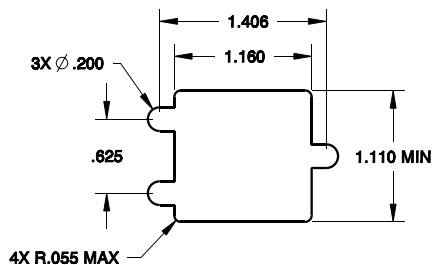
## Extended Height Relay Sockets

| APCD P/N  | QTY | Size <sup>1</sup> | Contact | Mating Relay      | Configuration |
|-----------|-----|-------------------|---------|-------------------|---------------|
| JRS300100 | 2   | 16/16             | /92-533 | M6106/13, MS27743 | A             |
|           | 9   | 12/12             | /92-535 |                   |               |
| JRS310100 | 5   | 16/16             | /92-533 | M6106/13, MS27743 | B             |
|           | 6   | 12/12             | /92-535 |                   |               |

## Relay Socket Weight

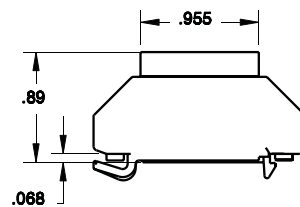
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .075   | 34    |

## Required Mounting Panel Cutout

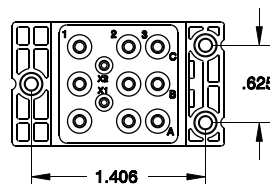


## Relay Socket Dimensions

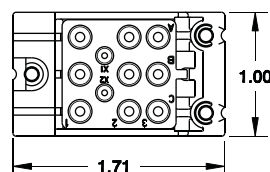
### Side View



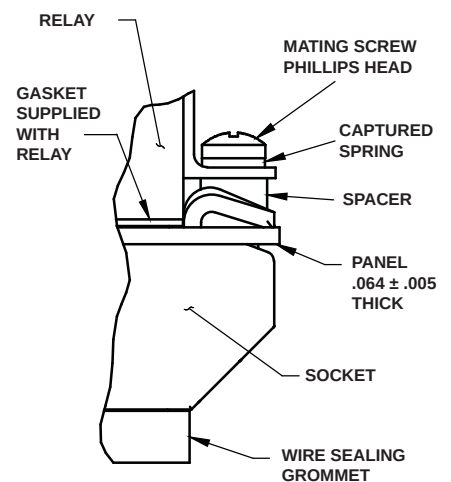
### Top View



### Bottom View



## Mounting Hardware



## Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS300100 | NONE     | NONE     |
| JRS300101 | NONE     | YES      |
| JRS300110 | YES      | NONE     |
| JRS300111 | YES      | YES      |

# Quick Mount Relay Sockets

## JRS 4 Pole / 10 Amp / Size 16

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Quick Mount Relay Sockets



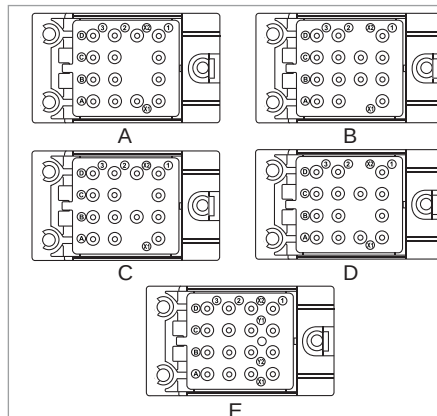
Replaces MIL-PRF-12883/40

Mates with M83536, 83726 & MS27709 Relays

### Extended Height Relay Sockets

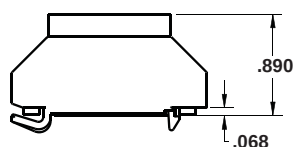
| APCD P/N  | QTY | Size <sup>1</sup> | Contact | Mating Relay            | Configuration |
|-----------|-----|-------------------|---------|-------------------------|---------------|
| JRS400100 | 14  | 16/16             | /92-533 | M83536, M83726, MS27709 | A             |
| JRS400200 | 14  | 16/16             | /92-533 | M83536, M83726, MS27709 | B             |
| JRS400300 | 14  | 16/16             | /92-533 | M83536, M83726, MS27709 | C             |
| JRS400400 | 14  | 16/16             | /92-533 | M83536, M83726, MS27709 | D             |
| JRS400500 | 16  | 16/16             | /92-533 | M83536, M83726, MS27709 | E             |

### Socket Configurations

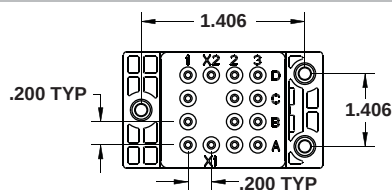


### Relay Socket Dimensions

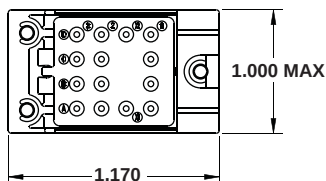
#### Side View



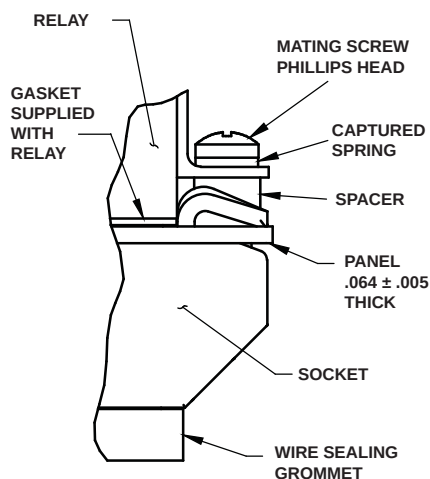
#### Top View



#### Bottom View



### Mounting Hardware



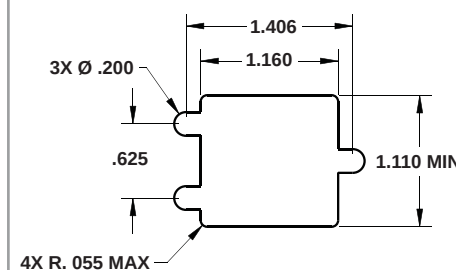
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRS400100 | NONE     | NONE     |
| JRS400101 | NONE     | YES      |
| JRS400110 | YES      | NONE     |
| JRS400111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .068   | 31    |

### Required Mounting Panel Cutout



Amphenol Pcd

## Quick Mount Relay Sockets



Replaces MIL-PRF-12883/41  
Mates with M83536 & M6106 Relays

# Quick Mount Relay Sockets

## JRE 2 Pole / 5 Amp / Size 20

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1000 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

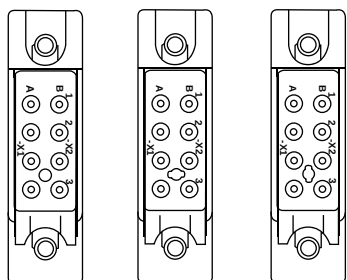
**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish  
per SAE-AMS-2422

## Socket Configurations



A B C

## Extended Height Relay Sockets

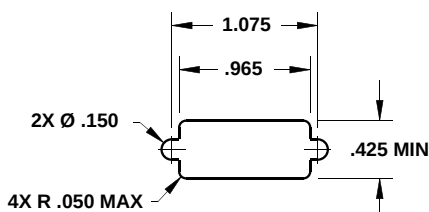
| APCD P/N  | QTY | Size  | Contact  | Mating Relay  | Configuration |
|-----------|-----|-------|----------|---------------|---------------|
| JRE200100 | 8   | 20/20 | /101-533 | M83536, M6106 | A             |
| JRE200200 | 8   | 20/20 | /101-533 | M83536, M6106 | B             |
| JRE200300 | 8   | 20/20 | /101-533 | M83536, M6106 | C             |

*Applies to all plug-in type relays of these documents*

## Relay Socket Weight

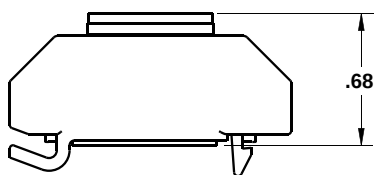
| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .042   | 19    |

## Recommended Mounting Panel Cutout

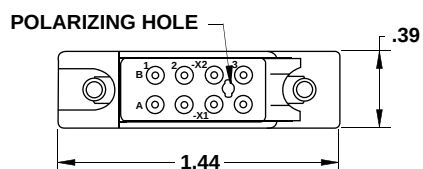


## Relay Socket Dimensions

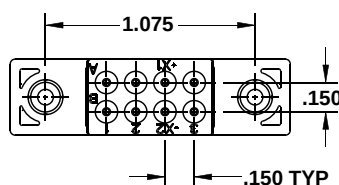
### Side View



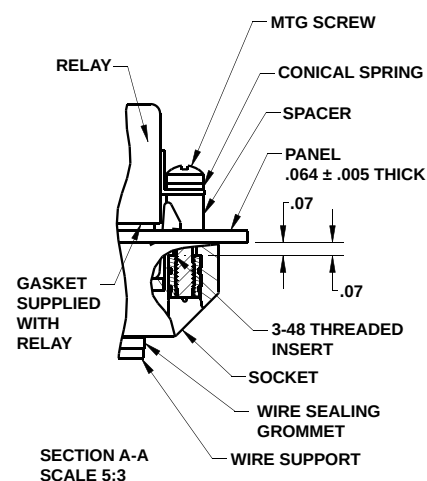
### Top View



### Bottom View



## Mounting Hardware



## Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE200100 | NONE     | NONE     |
| JRE200101 | NONE     | YES      |
| JRE200110 | YES      | NONE     |
| JRE200111 | YES      | YES      |



# Quick Mount Relay Sockets

## JRE 4 Pole / 5 Amp / Size 20

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1000 VRMS at Sea Level

500 VRMS at 80,000 ft.

**Vibration:**

MIL-STD-202, Method 204

Test Condition G

**Shock:**

MIL-STD-213, Method 213

Test Condition C

### Materials

**Socket Body:**

Polythermide per ASTM-D5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Finish

per SAE-AMS-2422

## Quick Mount Relay Sockets

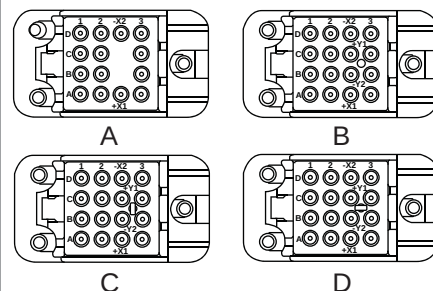


Replaces MIL-PRF-12883/44  
Mates with M83536 Relays

### Extended Height Relay Sockets

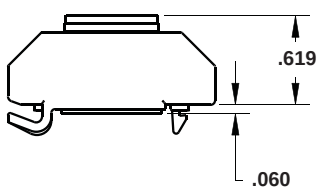
| APCD P/N  | QTY | Size  | Contact  | Mating Relay                 | Configuration |
|-----------|-----|-------|----------|------------------------------|---------------|
| JRE400100 | 10  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | A             |
| JRE400200 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | B             |
| JRE400300 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | C             |
| JRE400400 | 12  | 20/20 | /101-533 | M83536/5, M83536/6, M83536/7 | D             |

### Socket Configurations

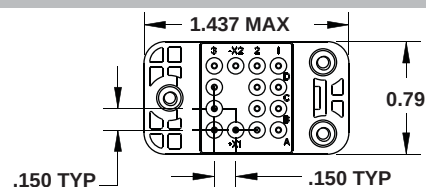


### Relay Socket Dimensions

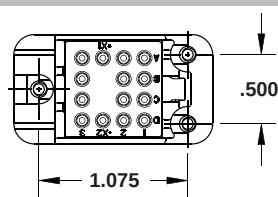
#### Side View



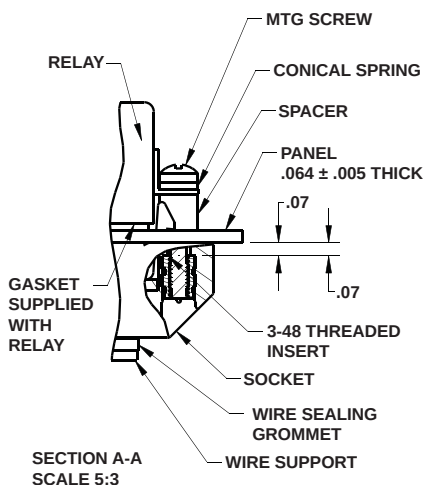
#### Top View



#### Bottom View



### Mounting Hardware



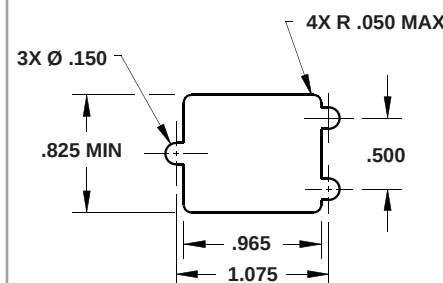
### Part Number Instructions

| APCD P/N  | Hardware | Contacts |
|-----------|----------|----------|
| JRE400100 | NONE     | NONE     |
| JRE400101 | NONE     | YES      |
| JRE400110 | YES      | NONE     |
| JRE400111 | YES      | YES      |

### Relay Socket Weight

| Relay Socket | Pounds | Grams |
|--------------|--------|-------|
| Low Profile  | .068   | 31    |

### Required Mounting Panel Cutout



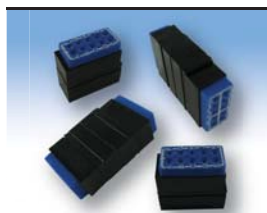
# Amphenol Pcd

# Terminal Junction Systems

## MIL-T-81714 Series I Class D

### MIL-T-81714 Series I Junction Modules

QPL-approved MIL-T-81714 modules and MIL-C-39029/1 contacts are available in four standard sizes accommodating 12-26 AWG wires in both feedback and feedthru types with full a selection of bussing arrangements. The complete MIL-T-81714 Series I Terminal Junction System includes the following products.



Feedback Modules  
Feedthru Modules



Electronic Modules



Ground Modules



Single In-Line Splices  
Dual In-Line Splices  
Electronic Splices



Mounting Tracks

### Key Features and Benefits

#### Integral Socket/Bus Bar

The patented integral socket/bus bar assembly provides superior electrical characteristics and assures mechanical integrity over a long product life. This unique design totally eliminates all solder or welded joints which could cause variation in electrical and/or mechanical performance.

#### Integral Contacts

Integral female contacts and bus bar have no mechanical functions- only the electrical conductivity function and are highly conductive alloy for optimum electrical performance.

#### Split Socket Design

Split Socket Design, conforming to the mating pin diameter, provides peripheral surface wipe and contact, while utilizing the maximum mating surfaces of pin and socket.

#### High Density Modules

A recently introduced series of high density modules which conform to all dimensional and performance requirements of MIL-T-81714/17 is now available from Amphenol Pcd. The high density modules accept 21 size 22 contacts in a compact 3x7 configuration, with a wide variety of bus arrangements. The construction features one-piece screw machine contacts with a split socket design for maximum performance. Contacts are securely packaged within a polyetherimide housing.

#### Class D Modules System

Amphenol Pcd was the first supplier to qualify module and track systems to high performance MIL-T-81714 Series I Class D requirements. Class D systems combine the maximum high temperature and high fluid resistance performance parameters previously divided among three module classes A,B, and C.

#### Electronic Splices

TJSE electronic modules can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electrical parameters of MIL-81714/24 and allow customers to incorporate system modifications into a wire bundle, avoiding changes in panel modules.



# Military Qualified, QPL-Listed

## MIL-T-81714 Series I, Class D

### Class D Feedback Modules

| Military P/N  | Amphenol Pcd P/N | Page |
|---------------|------------------|------|
| M81714/1-DA1  | TJM122701        | 36   |
| M81714/1-DB1  | TJM122702        | 36   |
| M81714/1-DB2  | TJM122703        | 36   |
| M81714/1-DB3  | TJM122704        | 36   |
| M81714/1-DC1  | TJM122705        | 36   |
| M81714/1-DC2  | TJM122706        | 36   |
| M81714/1-DC3  | TJM122710        | 36   |
| M81714/1-DC4  | TJM122712        | 36   |
| M81714/1-DD1  | TJM122707        | 36   |
| M81714/1-DD2  | TJM122711        | 36   |
| M81714/1-DE1  | TJM122708        | 36   |
|               |                  |      |
| M81714/2-DA1  | TJM120701        | 37   |
| M81714/2-DB1  | TJM120702        | 37   |
| M81714/2-DB2  | TJM120703        | 37   |
| M81714/2-DB3  | TJM120704        | 37   |
| M81714/2-DC1  | TJM120705        | 37   |
| M81714/2-DC2  | TJM120706        | 37   |
| M81714/2-DC3  | TJM120710        | 37   |
| M81714/2-DC4  | TJM120712        | 37   |
| M81714/2-DD1  | TJM120707        | 37   |
| M81714/2-DD2  | TJM120711        | 37   |
| M81714/2-DE1  | TJM120708        | 37   |
|               |                  |      |
| M81714/3-DA1  | TJM116701        | 38   |
| M81714/3-DB1  | TJM116702        | 38   |
| M81714/3-DB2  | TJM116703        | 38   |
| M81714/3-DC1  | TJM116705        | 38   |
| M81714/3-DC2  | TJM116706        | 38   |
| M81714/3-DD1  | TJM116707        | 38   |
|               |                  |      |
| M81714/4-DA1  | TJM112701        | 39   |
| M81714/4-DB1  | TJM112702        | 39   |
| M81714/4-DB2  | TJM112703        | 39   |
| M81714/4-DC1  | TJM112705        | 39   |
| M81714/4-DC2  | TJM112706        | 39   |
| M81714/4-DD1  | TJM112707        | 39   |
|               |                  |      |
| M81714/17-D30 | TJHD22700        | 40   |
| M81714/17-D31 | TJHD22701        | 40   |
| M81714/17-D32 | TJHD22702        | 40   |
| M81714/17-D33 | TJHD22703        | 40   |
| M81714/17-D34 | TJHD22704        | 40   |
| M81714/17-D35 | TJHD22705        | 40   |
| M81714/17-D36 | TJHD22706        | 40   |
| M81714/17-D37 | TJHD22707        | 40   |
| M81714/17-D38 | TJHD22708        | 40   |
| M81714/17-D39 | TJHD22709        | 40   |
| M81714/17-D40 | TJHD22710        | 40   |
| M81714/17-D42 | TJHD22712        | 40   |
| M81714/17-D43 | TJHD22713        | 40   |
| M81714/17-D44 | TJHD22714        | 40   |
| M81714/17-D45 | TJHD22715        | 40   |

### Class D Feedthru Modules

| Military P/N | Amphenol Pcd P/N | Page |
|--------------|------------------|------|
| M81714/6-DA1 | TJM222701        | 36   |
| M81714/6-DB1 | TJM222702        | 36   |
| M81714/6-DB2 | TJM222703        | 36   |
| M81714/6-DB3 | TJM222704        | 36   |
| M81714/6-DC1 | TJM222705        | 36   |
| M81714/6-DC2 | TJM222706        | 36   |
| M81714/6-DD1 | TJM222707        | 36   |
| M81714/6-DE1 | TJM222708        | 36   |
| M81714/6-DJ1 | TJM222709        | 36   |
|              |                  |      |
| M81714/7-DA1 | TJM220701        | 37   |
| M81714/7-DB1 | TJM220702        | 37   |
| M81714/7-DB2 | TJM220703        | 37   |
| M81714/7-DB3 | TJM220704        | 37   |
| M81714/7-DC1 | TJM220705        | 37   |
| M81714/7-DC2 | TJM220706        | 37   |
| M81714/7-DD1 | TJM220707        | 37   |
| M81714/7-DE1 | TJM220708        | 37   |
| M81714/7-DJ1 | TJM220709        | 37   |
|              |                  |      |
| M81714/8-DA1 | TJM216701        | 38   |
| M81714/8-DB1 | TJM216702        | 38   |
| M81714/8-DB2 | TJM216703        | 38   |
| M81714/8-DC1 | TJM216705        | 38   |
| M81714/8-DC2 | TJM216706        | 38   |
| M81714/8-DD1 | TJM216707        | 38   |
| M81714/8-DG1 | TJM216708        | 38   |
| M81714/8-DH1 | TJM216709        | 38   |
|              |                  |      |
| M81714/9-DA1 | TJM212701        | 39   |
| M81714/9-DB2 | TJM212702        | 39   |
| M81714/9-DB3 | TJM212703        | 39   |
| M81714/9-DC1 | TJM212705        | 39   |
| M81714/9-DC2 | TJM212706        | 39   |
| M81714/9-DD1 | TJM212707        | 39   |
| M81714/9-DH1 | TJM212709        | 39   |

## Terminal Junction Modules



# M81714/1, /6

## Series I Size 22 Class D

### Operating Range

**Temperature:**

-65°C to 200°C

**Insulation Resistance:**

5000 Megaohms @ 25°C

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

**Current Rating**

5 Amps

**Vibration & Shock:**

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

**Accepts Multiple Wire Sizes:**

Size 22, 24, 26 AWG

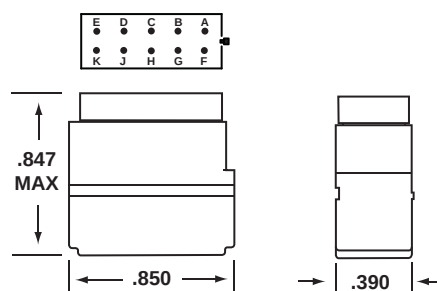
## Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | QTY* | Size <sup>1</sup> | P/N M39029 |
|------------------------|--------------|-----------|--------------|-----------|------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  |      |                   |            |
|                        | M81714/1-DA1 | TJM122701 | M81714/6-DA1 | TJM222701 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB1 | TJM122702 | M81714/6-DB1 | TJM222702 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB2 | TJM122703 | M81714/6-DB2 | TJM222703 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DB3 | TJM122704 | M81714/6-DB3 | TJM222704 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC1 | TJM122705 | M81714/6-DC1 | TJM222705 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC2 | TJM122706 | M81714/6-DC2 | TJM222706 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC3 | TJM122710 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DC4 | TJM122712 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DD1 | TJM122707 | M81714/6-DD1 | TJM222707 | 10   | 16/22             | /1-100     |
|                        | M81714/1-DD2 | TJM122711 |              |           | 10   | 16/22             | /1-100     |
|                        | M81714/1-DE1 | TJM122708 | M81714/6-DE1 | TJM222708 | 10   | 16/22             | /1-100     |
|                        |              |           | M81714/6-DJ1 | TJM222709 | 10   | 16/22             | /1-100     |

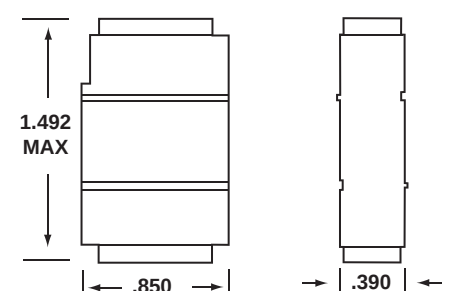
\*Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup>Mating Pin / Wire Barrel

## Terminal Junction Module Dimensions

### Feedback Dimensions



### Feedthru Dimensions





# M81714/2, /7

## Series I Size 20 Class D

### Terminal Junction Modules



**Operating Range**  
**Temperature:**  
-65°C to 200°C  
**Insulation Resistance:**  
5000 Megaohms @ 25°C  
**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 100,000 ft.  
**Current Rating**  
7.5 Amps  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

**Materials**  
**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Contact Retainers:**  
Stainless steel  
**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204  
**Accepts Multiple Wire Sizes:**  
Size 20, 22, 24 AWG

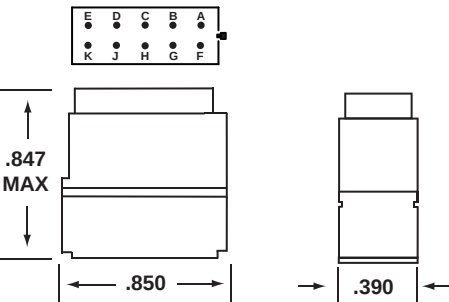
### Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | Contact |                   |            |
|------------------------|--------------|-----------|--------------|-----------|---------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/2-DA1 | TJM120701 | M81714/7-DA1 | TJM220701 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DB1 | TJM120702 | M81714/7-DB1 | TJM220702 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DB2 | TJM120703 | M81714/7-DB2 | TJM220703 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DB3 | TJM120704 | M81714/7-DB3 | TJM220704 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DC1 | TJM120705 | M81714/7-DC1 | TJM220705 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DC2 | TJM120706 | M81714/7-DC2 | TJM220706 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DC3 | TJM120710 |              |           | 10      | 16/20             | /1-101     |
|                        | M81714/2-DC4 | TJM120712 |              |           | 10      | 16/20             | /1-101     |
|                        | M81714/2-DD1 | TJM120707 | M81714/7-DD1 | TJM220707 | 10      | 16/20             | /1-101     |
|                        | M81714/2-DD2 | TJM120711 |              |           | 10      | 16/20             | /1-101     |
|                        | M81714/2-DE1 | TJM120708 | M81714/7-DE1 | TJM220708 | 10      | 16/20             | /1-101     |
|                        |              |           | M81714/7-DJ1 | TJM220709 | 10      | 16/20             | /1-101     |

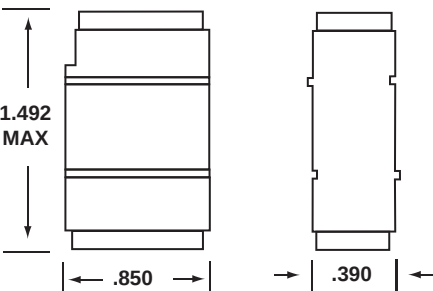
\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup> Mating Pin / Wire Barrel

### Terminal Junction Module Dimensions

#### Feedback Dimensions



#### Feedthru Dimensions



Amphenol Pcd

## Terminal Junction Modules



# M81714/3, /8

## Series I Size 16 Class D

### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms @ 25°C

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

#### Current Rating

13 Amps

#### Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Blend Elastomer per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

#### Accepts Multiple Wire Sizes:

Size 16, 18, 20 AWG

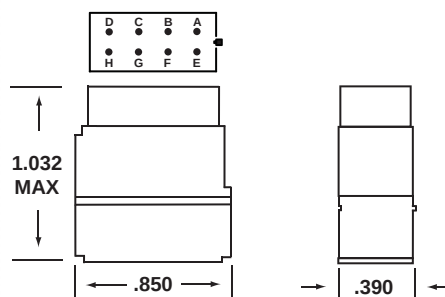
## Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback     |           | Feedthru     |           | Contact |                   |            |
|------------------------|--------------|-----------|--------------|-----------|---------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/3-DA1 | TJM116701 | M81714/8-DA1 | TJM216701 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DB1 | TJM116702 | M81714/8-DB1 | TJM216702 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DB2 | TJM116703 | M81714/8-DB2 | TJM216703 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DC1 | TJM116705 | M81714/8-DC1 | TJM216705 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DC2 | TJM116706 | M81714/8-DC2 | TJM216706 | 8       | 14/16             | /1-102     |
|                        | M81714/3-DD1 | TJM116707 | M81714/8-DD1 | TJM216707 | 8       | 14/16             | /1-102     |
|                        |              |           | M81714/8-DG1 | TJM216708 | 8       | 14/16             | /1-102     |
|                        |              |           | M81714/8-DH1 | TJM216709 | 8       | 14/16             | /1-102     |

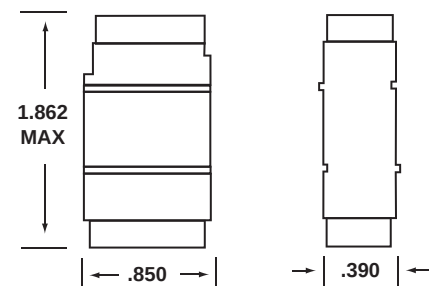
\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.  
<sup>1</sup> Mating Pin / Wire Barrel

## Terminal Junction Module Dimensions

### Feedback Dimensions



### Feedthru Dimensions



# M81714/4, /9

## Series I Size 12 Class D

### Operating Range

**Temperature:**  
-65°C to 200°C

**Insulation Resistance:**  
5000 Megaohms @ 25°C

**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 100,000 ft.

**Current Rating**  
23 Amps

**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

### Materials

**Module Body:**  
Polyetherimide per ASTM-D5205

**Grommet:**  
Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**  
Stainless steel

**Internal Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

**Accepts Multiple Wire Sizes:**  
Size 12, 14 AWG

### Terminal Junction Modules



### Terminal Junction Modules

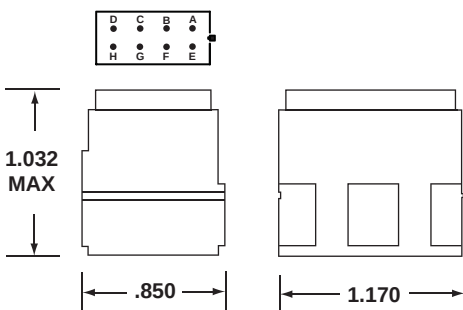
| Bussing Configurations | Feedback     |           | Feedthru      |           | Contact |                   |            |
|------------------------|--------------|-----------|---------------|-----------|---------|-------------------|------------|
|                        | Military P/N | APCD P/N  | Military P/N  | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/4-DA1 | TJM112701 | M81714/9-DA1  | TJM212701 | 8       | 12/12             | /1-103     |
|                        | M81714/4-DB1 | TJM112702 | M81714/9-DB1  | TJM212702 | 8       | 12/12             | /1-103     |
|                        | M81714/4-DB2 | TJM112703 | M81714/9-DB2  | TJM212703 | 8       | 12/12             | /1-103     |
|                        | M81714/4-DC1 | TJM112705 | M/81714/9-DC1 | TJM212705 | 8       | 12/12             | /1-103     |
|                        | M81714/4-DC2 | TJM112706 | M81714/9-DC2  | TJM212706 | 8       | 12/12             | /1-103     |
|                        | M81714/4-DD1 | TJM112707 | M81714/9-DD1  | TJM212707 | 8       | 12/12             | /1-103     |
|                        |              |           | M81714/9-DH1  | TJM212709 | 8       | 12/12             | /1-103     |

\* Contact quantity for feedthru is double feedback. Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contact and sealing plug.

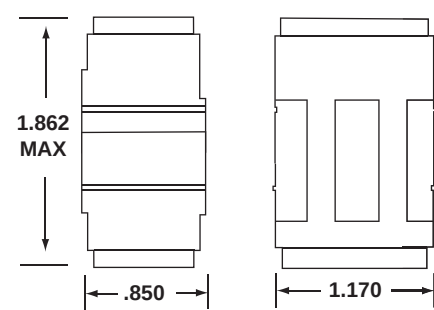
<sup>1</sup> Mating Pin / Wire Barrel

### Terminal Junction Module Dimensions

#### Feedback Dimensions



#### Feedthru Dimensions



# Amphenol Pcd

## Terminal Junction Modules



# M81714/17 High Density Modules Series I Size 22D Class D

### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms @ 25°C

#### Dielectric Withstanding Voltage:

1000 VRMS at Sea Level

200 VRMS at 110,000 ft.

#### Current Rating

5 Amps

#### Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Blend Elastomer per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Internal Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

#### Accepts Multiple Wire Sizes:

Size 22, 26 AWG

## Amphenol Pcd Terminal Junction Modules

| Bussing Configurations | Feedback      |           |
|------------------------|---------------|-----------|
|                        | Military P/N  | APCD P/N  |
|                        | M81714/17-D30 | TJHD22700 |
|                        | M81714/17-D31 | TJHD22701 |
|                        | M81714/17-D32 | TJHD22702 |
|                        | M81714/17-D33 | TJHD22703 |
|                        | M81714/17-D34 | TJHD22704 |
|                        | M81714/17-D35 | TJHD22705 |
|                        | M81714/17-D36 | TJHD22706 |
|                        | M81714/17-D37 | TJHD22707 |

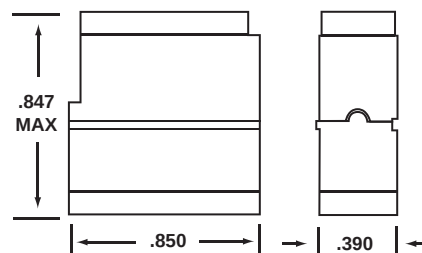
| Bussing Configurations | Feedback      |           |
|------------------------|---------------|-----------|
|                        | Military P/N  | APCD P/N  |
|                        | M81714/17-D38 | TJHD22708 |
|                        | M81714/17-D39 | TJHD22709 |
|                        | M81714/17-D40 | TJHD22710 |
|                        | M81714/17-D42 | TJHD22712 |
|                        | M81714/17-D43 | TJHD22713 |
|                        | M81714/17-D44 | TJHD22714 |
|                        | M81714/17-D45 | TJHD22715 |

Contacts Supplied: M39029/1-507 Qty 22

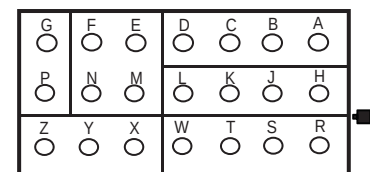


## Terminal Junction Module Dimensions

### Feedback Dimensions



### Bussing Configuration



Contacts Supplied: M39029/1-507  
Quantity Supplied: 22

# Amphenol Pcd



# M81714/27 Ground Stud Modules

Series II Size 22, 20, 16, 12, Class D

## Terminal Junction Modules



### Operating Range

**Temperature:**

-65°C to 200°C

**Current Rating**

5 Amps (Size 22)

7.5 Amps (Size 20)

13 Amps (Size 16)

23 Amps (Size 12)

**Vibration & Shock:**

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Blend Elastomer per A-A-59588

**Mounting Stud:**

Copper Alloy, Gold Plated per

SAE-AMS-2422.

**Contact Retainers:**

Stainless Steel

**Internal Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

## Terminal Grounding Modules Part Numbers

| Part Numbers            |           |      | Contact           |            |
|-------------------------|-----------|------|-------------------|------------|
| Military Equivalent P/N | APCD P/N  | QTY* | Size <sup>1</sup> | P/N M39029 |
| M81714/27-22            | TJG122701 | 10   | 16/22             | /1-100     |
| M81714/27-20            | TJG120701 | 10   | 16/20             | /1-101     |
| M81714/27-16            | TJG116701 | 8    | 14/16             | /1-102     |
| M81714/27-12            | TJG112701 | 8    | 12/12             | /1-103     |

\* Mating End/ Wire Barrel

<sup>1</sup> Quantity figure denotes number of contacts accommodated by module. Modules are supplied with two additional spare contacts and sealing plugs

## Product Description

Multi-contact grounding/bus connection modules are provided with an integral threaded grounding stud. The stud is electrically and mechanically common to all internal contacts of the module.

Electrical connection and mechanical mounting are achieved through a single #10-32 stud. The modules are dimensional identical to the equivalent MIL-T-81714/27 grounding stud modules.

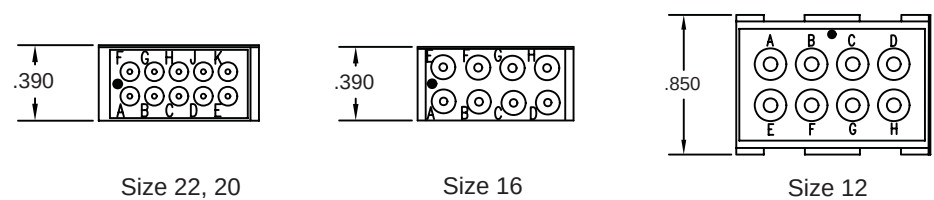
Direct mounting to a ground plane or ground wire with the terminal lug creates a convenient multi-wire sealed grounding device.

Direct attachment to a bus bar transforms the device into a bus connection module for multi-contact power distribution, sensing or metering.

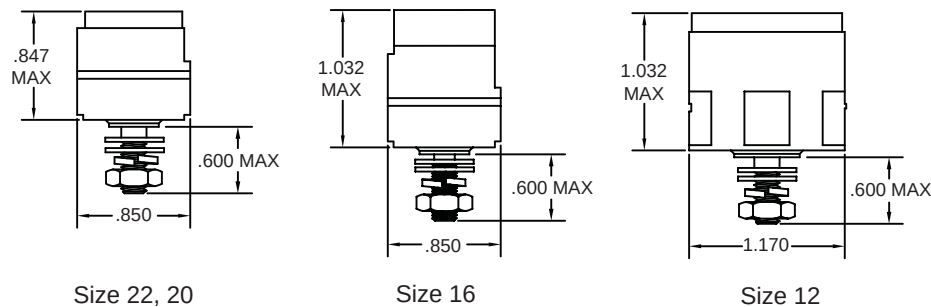
All modules are furnished with complete mounting hardware.

## Terminal Junction Module Dimensions

### Top View



### Side View



Amphenol Pcd

## Terminal Junction Modules



# Electronic Terminal Junction Modules

MIL-T-81714/26 Compatible Class D

### Operating Range

**Temperature:**

-65°C to 200°C\*

**Insulation Resistance:**

5000 Megaohms Min. @ 25°C\*

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.\*

**Vibration & Shock:**

Per MIL-T-81714

Paragraph 3.5.5 & 3.5.9\*

**Current Rating:**

7.5 amps\*

### Materials

**Module Body:**

Polyetherimide per ASTM-D-5205

**Grommet:**

Silicone Rubber per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Contact:**

Copper Alloy, Gold Finish

\* May vary due to internal electronic component

## Product Description

Electronic Terminal Junction modules meet all dimensional and performance requirements of M81714/26 and are specifically developed for electronic component packaging. Available for size 20 and 22 contacts, these modules function as highly efficient and reliable Electronic component packages. They improve system efficiency and density by permitting various electronic components such as diodes, resistors, fuses, and capacitors, which usually take up valuable space elsewhere in the system, to be securely packaged within the module housing.

Amphenol Pcd electronic modules offer significant design, material and construction improvements over competitive modules. Hand soldering operations have been completely eliminated. Electronic components are encapsulated in a semi-rigid elastomer that provides electrical spacing and insulation as well as shock and vibration protection.

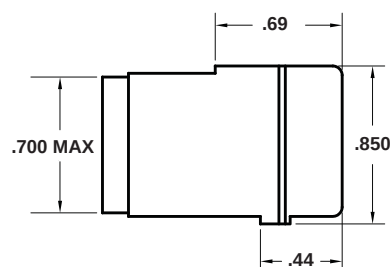
Typical commercially available diode configurations are indicated on this page. A broad variety of additional configurations are available, and modules can be customized to meet specific customer designs. Please contact Amphenol Pcd to review requirements and discuss available options.

## Amphenol Pcd Terminal Junction Module

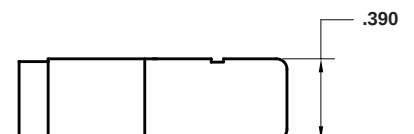
| Circuit Diagram | APCD P/N  | Diode P/N   | Quantity |
|-----------------|-----------|-------------|----------|
|                 | TJE120810 | JANTX1N5552 | 5        |
|                 | TJE120811 | JANTX1N5552 | 4        |
|                 | TJE120815 | 1N4005      | 2        |
|                 | TJE120998 | BYW56       | 2        |
|                 | TJE120999 | BYW56       | 2        |

## Terminal Junction Module Dimensions

### Top View



### Side View



# Electronic Terminal Junction Modules

## MIL-T-81714/26 Compatible Class D

### Terminal Junction Modules



Amphenol Pcd's Electronic Terminal Junction Modules are available with a variety of components and in a wide range of configurations. Components available include but are not limited to diodes, resistors, fuses, capacitors, thyristors, and inductors, and are also available with multiple components within one module. The following are currently available Electronic Terminal Junction Modules, although there are new configurations produced regularly and customized components are also available.

### Amphenol Pcd Electronic Terminal Junction Modules

| Circuit Diagram | APCD P/N  | Part      | Part P/N    | Quantity |
|-----------------|-----------|-----------|-------------|----------|
|                 | TJE120514 | Capacitor | 620pF       | 1        |
|                 | TJE120816 | Diode     | IN4003      | 3        |
|                 | TJE120817 | Diode     | IN4003      | 2        |
|                 | TJE120818 | Diode     | IN4003      | 3        |
|                 | TJE120819 | Diode     | IN4003      | 3        |
|                 | TJE120820 | Diode     | IN4003      | 3        |
|                 | TJE120822 | Diode     | IN4007      | 5        |
|                 | TJE120824 | Diode     | JANTX1N5618 | 5        |
|                 | TJE120826 | Diode     | IN4006      | 2        |
|                 | TJE120827 | Diode     | JANTX1N5552 | 2        |
|                 | TJE120828 | Diode     | JANTX1N5618 | 2        |
|                 | TJE120829 | Diode     | 1N5618      | 2        |
|                 | TJE120831 | Diode     | 1N5618      | 2        |
|                 | TJE120833 | Diode     | 1N5418      | 2        |

| Circuit Diagram | APCD P/N  | Part     | Part P/N                 | Quantity |
|-----------------|-----------|----------|--------------------------|----------|
|                 | TJE120900 | Resistor | 10 K $\Omega$ , 1/8 W    | 5        |
|                 | TJE120902 | Resistor | 150K $\Omega$ , 1/8 W    | 5        |
|                 | TJE120903 | Resistor | 33 $\Omega$ , 1/4 W      | 2        |
|                 | TJE120904 | Resistor | 1K $\Omega$ , 1/8 W      | 2        |
|                 | TJE120905 | Resistor | 1K $\Omega$ , 1/2 W      | 2        |
|                 | TJE120906 | Resistor | 150 $\Omega$ , 1/2 W     | 1        |
|                 | TJE120907 | Resistor | 180 $\Omega$ , 1/2 W     | 1        |
|                 | TJE120908 | Resistor | Various $\Omega$ , 1/2 W | 5        |
|                 | TJE120920 | Resistor | 54K, 6K $\Omega$ , 1/2W  | 2        |
|                 | TJE120921 | Resistor | 500K $\Omega$ , 1 W      | 5        |
|                 | TJE120922 | Resistor | Various $\Omega$ , 1/2 W | 5        |
|                 | TJE120924 | Resistor | 1K $\Omega$ , 1/4 W      | 4        |
|                 | TJE120927 | Fuse     | 1 AMP                    | 5        |
|                 | TJE120928 | Resistor | 1.3K $\Omega$ , 1/2 W    | 5        |

## Terminal Junction Splices



# Terminal Junction Splices

Single/ Dual/ Diode M81714/11, /12,/24 Series I

### Operating Range

**Temperature:**

-65°C to 200°C

**Insulation Resistance:**

5000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

**Vibration & Shock:**

Per AS-81714

Paragraph 3.5.5 & 3.5.8

### Materials

**Insulator Body:**

Polyetherimide per ASTM-D-5205

**Grommet:**

Silicone Rubber per A-A-59588

**Internal Contact:**

Copper Alloy, Gold Finish

Accordance with MIL-G-45204

## Product Description

Single and Dual Splices and Electronic Splices are designed to provide a quick and efficient solution to customer wiring requirements.

Single and Dual Wire Splices meet MIL-T-81714/11 & 12 requirements and are highly resistant to temperature and fluids.

TJSE electronic modules can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electronic parameters of MIL-81714/24 and allow customers to incorporate system modifications into a wire bundle, avoiding changes in panels or boards.

Typical examples are represented to the right, but customer specific designs are welcomed, and an extensive list of existing splices are available on the next page.

## Single Wire Splices

|  | Contacts      |           | Part Numbers |       |              |
|--|---------------|-----------|--------------|-------|--------------|
|  | Military P/N  | APCD P/N  | Quantity     | Size* | Part No.     |
|  | M81714/11-22D | TJS322700 | 2            | 16/22 | M39029/1-100 |
|  | M81714/11-20D | TJS320700 | 2            | 16/20 | M39029/1-101 |
|  | M81714/11-12D | TJS316700 | 2            | 14/16 | M39029/1-102 |
|  | M81714/11-16D | TJS312700 | 2            | 12/12 | M39029/1-103 |

## Dual Wire Splices

| Bussing Type | Part Numbers  |           | Contacts |                  | Diameter |      |
|--------------|---------------|-----------|----------|------------------|----------|------|
|              | MIL P/N 81714 | APCD P/N  | Quantity | Size* P/N M39029 | A        | B    |
|              | /12-22D-1     | TJS322701 | 4        | 16/22 /1-100     | .400     | .275 |
|              | /12-20D-1     | TJS320701 | 4        | 16/20 /1-101     | .400     | .275 |
|              | /12-16D-1     | TJS316701 | 4        | 14/16 /1-102     | .500     | .300 |
|              | /12-22D-2     | TJS322702 | 4        | 16/22 /1-100     | .400     | .275 |
|              | /12-20D-2     | TJS320702 | 4        | 16/20 /1-101     | .400     | .275 |
|              | /12-16D-2     | TJS316702 | 4        | 14/16 /1-102     | .500     | .300 |

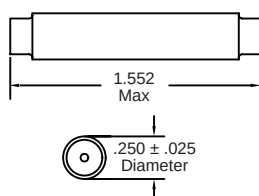
## Electronic Splices

| Circuit Type | Part Numbers |             | Diode    |       | Contacts |            |
|--------------|--------------|-------------|----------|-------|----------|------------|
|              | APCD P/N     | Diode P/N   | Quantity | Size* | Quantity | P/N M39029 |
|              | TJSE22707    | JANTX1N5622 | 1        | 16/22 | 4        | 1-100      |
|              | TJSE20705    | JANTX1N5622 | 1        | 16/20 | 4        | 1-101      |
|              | TJSE22709    | JANTX1N5622 | 2        | 16/22 | 4        | 1-100      |
|              | TJSE20705    | JANTX1N5622 | 2        | 16/20 | 4        | 1-101      |

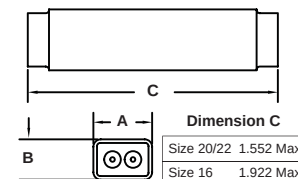
\*Mating Pin Wire Barrel

## Relay Socket Dimensions

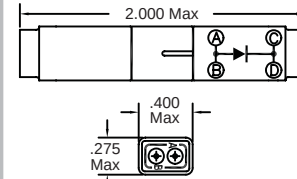
### Single Splice



### Double Splice



### Electronic Splice



# Electronic Terminal Junction Splices

## MIL-T-81714/24 Compatible Class D

### Terminal Junction Modules



Amphenol Pcd's Electronic Terminal Junction Splices are available with a variety of components and in a wide range of configurations. Components available include but are not limited to diodes, resistors, fuses, capacitors, thyristors, and inductors, and are also available with multiple components within one module. The following are currently available Electronic Terminal Junction Splices, although there are new configurations produced regularly and customized components are also available.

### Amphenol Pcd Terminal Junction Splices

| Circuit Diagram | APCD P/N  | Part      | Part P/N    | Quantity |
|-----------------|-----------|-----------|-------------|----------|
|                 | TJSE20501 | Inductor  | 1 100μH     | 1        |
|                 | TJSE20503 | Fuse      | 5 AMP 125V  | 1        |
|                 | TJSE20505 | Resistor  | RW81 38Ω 1W | 1        |
|                 | TJSE20506 | Resistor  | 120 Ω 1/4W  | 2        |
|                 | TJSE20509 | Diode     | 5 Amp       | 2        |
|                 | TJSE20510 | Diode     | 1 Amp 125V  | 1        |
|                 | TJSE20513 | Capacitor | 620pF       | 1        |
|                 | TJSE20520 | Capacitor | 390pF       | 5        |
|                 | TJSE20523 | Resistor  | 15KΩ 1/4W   | 1        |
|                 | TJSE20525 | Resistor  | 10K Ω 1/4W  | 1        |
|                 | TJSE20526 | Resistor  | 910 Ω 1/4W  | 1        |
|                 | TJSE20553 | Resistor  | 1KΩ 1/2W    | 1        |
|                 | TJSE20554 | Resistor  | 18KΩ 1/2W   | 2        |
|                 | TJSE20555 | Resistor  | 18KΩ 1/2W   | 1        |

| Circuit Diagram | APCD P/N  | Part     | Part P/N      | Quantity |
|-----------------|-----------|----------|---------------|----------|
|                 | TJSE20599 | Diode    | JANTX1N5554   | 1        |
|                 | TJSE20602 | Diode    | JANTX1N5618   | 2        |
|                 | TJSE20703 | Diode    | 1N5819        | 2        |
|                 | TJSE20705 | Diode    | JANTX1N5622   | 1        |
|                 | TJSE20706 | Diode    | JANTX1N5622   | 2        |
|                 | TJSE20710 | Diode    | 1N5622        | 1        |
|                 | TJSE20711 | Diode    | 1N4006        | 2        |
|                 | TJSE22503 | Fuse     | 5 AMP 125V    | 1        |
|                 | TJSE22514 | Resistor | 10K Ω, 1/4 W  | 1        |
|                 | TJSE22517 | Resistor | 120 Ω, 1 W    | 1        |
|                 | TJSE22523 | Resistor | 75K Ω, 1/2 W  | 2        |
|                 | TJSE22707 | Diode    | JANTX1N5622   | 2        |
|                 | TJSE20599 | Diode    | 1N5622        | 1        |
|                 | TJSE20599 | Resistor | 78.7 Ω, 1/4 W | 2        |



## Terminal Junction Modules



# M81714/5, /10, /16 Series I

## Terminal Junction Module Mounting Tracks

### Operating Range

#### Temperature:

-65° to 200°C

#### Corrosion:

No Exposure of Base Metal

After 48 Hours of Salt Spray

#### Magnetic Permeability:

2.0 MU Max.

#### Vibration and Shock:

Per MIL-T-81714 Paragraph

3.5.5 and 3.5.8

#### Materials

##### Rail:

Aluminum Alloy, Black Anodized

Finish per MIL-A-8625

##### Locking Clamp Screw:

Corrosion Resistant, Passivated,

Self Locking

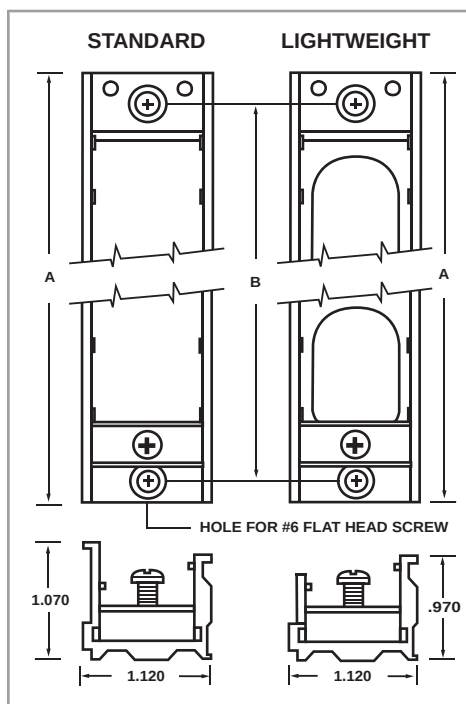
### Product Description

Amphenol Pcd offers feedback and feedthru mounting tracks, as well as a light weight feedback type with weight reduction cutouts per MIL-T-81714/16 for weight critical applications.

One track holds all module sizes. With size 22,20,16 modules requiring one mounting space and size 12 requiring three.

Each track unit consists of an aluminum alloy track and MIL-T-81714/16 anodized black locking clamp. The stainless steel clamp screw is self locking to meet vibration, shock and temperature variation requirements.

## Feedback Track Dimensions

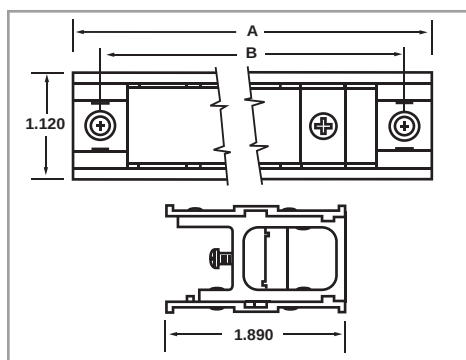


## Feedback Mounting Tracks

| Standard     |           | Lightweight  |           | Dimensions     |      |      |
|--------------|-----------|--------------|-----------|----------------|------|------|
| Military P/N | APCD P/N  | Military P/N | APCD P/N  | Mounting Pos.* | A    | B    |
| M81714/5-1   | TJT701010 | M81714/16-1  | TJT703010 | 10             | 5.29 | 4.79 |
|              | TJT701002 |              | TJT703002 | 2              | 2.17 | 1.67 |
| M81714/5-2   | TJT701003 | M81714/16-2  | TJT703003 | 3              | 2.56 | 2.06 |
| M81714/5-3   | TJT701004 | M81714/16-3  | TJT703004 | 4              | 2.95 | 2.45 |
| M81714/5-4   | TJT701005 | M81714/16-4  | TJT703005 | 5              | 3.34 | 2.84 |
| M81714/5-5   | TJT701006 | M81714/16-5  | TJT703006 | 6              | 3.73 | 3.23 |
| M81714/5-6   | TJT701007 | M81714/16-6  | TJT703007 | 7              | 4.12 | 3.62 |
| M81714/5-7   | TJT701008 | M81714/16-7  | TJT703008 | 8              | 4.51 | 4.01 |
| M81714/5-8   | TJT701009 | M81714/16-8  | TJT703009 | 9              | 4.90 | 4.40 |
| M81714/5-9   | TJT701011 | M81714/16-9  | TJT703011 | 11             | 5.68 | 5.18 |
| M81714/5-10  | TJT701012 | M81714/16-10 | TJT703012 | 12             | 6.07 | 5.57 |
| M81714/5-11  | TJT701013 | M81714/16-11 | TJT703013 | 13             | 6.46 | 5.96 |
| M81714/5-12  | TJT701014 | M81714/16-12 | TJT703014 | 14             | 6.85 | 6.35 |
| M81714/5-13  | TJT701015 | M81714/16-13 | TJT703015 | 15             | 7.24 | 6.74 |
|              | TJT701016 |              | TJT703016 | 16             | 7.63 | 7.13 |
|              | TJT701017 |              | TJT703017 | 17             | 8.02 | 7.52 |
|              | TJT701018 |              | TJT703018 | 18             | 8.41 | 7.91 |
|              | TJT701019 |              | TJT703019 | 19             | 8.80 | 8.30 |
|              | TJT701020 |              | TJT703020 | 20             | 9.19 | 8.69 |

\*Divide by 3 for Size 12 Module Mounting

## Feedthru Track Dimensions



## Feedthru Mounting Tracks

| Standard     |           | Dimensions     |      |      |
|--------------|-----------|----------------|------|------|
| Military P/N | APCD P/N  | Mounting Pos.* | A"   | B"   |
| M81714/10-1  | TJT702010 | 10             | 5.55 | 5.05 |
|              | TJT702002 | 2              | 2.43 | 1.91 |
| M81714/10-2  | TJT702003 | 3              | 2.82 | 2.32 |
| M81714/10-3  | TJT702004 | 4              | 3.21 | 2.71 |
| M81714/10-4  | TJT702005 | 5              | 3.60 | 3.10 |
| M81714/10-5  | TJT702006 | 6              | 3.90 | 3.49 |
| M81714/10-6  | TJT702007 | 7              | 4.38 | 3.88 |
| M81714/10-7  | TJT702008 | 8              | 4.77 | 4.27 |
| M81714/10-8  | TJT702009 | 9              | 5.16 | 4.66 |

\*Divide by 3 for Size 12 Module Mounting

# Socket Junction Systems

## MIL-T-81714 Series I Class D

### MIL-T-81714 Series II Junction Modules

The high pin count, low weight MIL-T-81714 Series II Socket Junction Module System is available in four basic module sizes, accommodating 12-26 AWG wire in a broad selection of bussing arrangements. Modules are supplied with the appropriate and specified MIL-C-39029/22 socket contacts.



**Feedback Modules**  
**Feedthru Modules**  
**Distribution Modules**



**Board Mount**  
**Modules**



**Ground Modules**



**Sealed Splices**



**Mounting Tracks**

### Key Features and Benefits

#### Improved Performance

Significant Amphenol Pcd design innovations over conventional Series II systems assure superior performance in wire sealing, contact alignment and retention, and module extraction.

#### Feedback Modules

The SJM feedback modules and mounting track system offer a lightweight junction system with a full range of bussing arrangements.

#### Distribution Modules

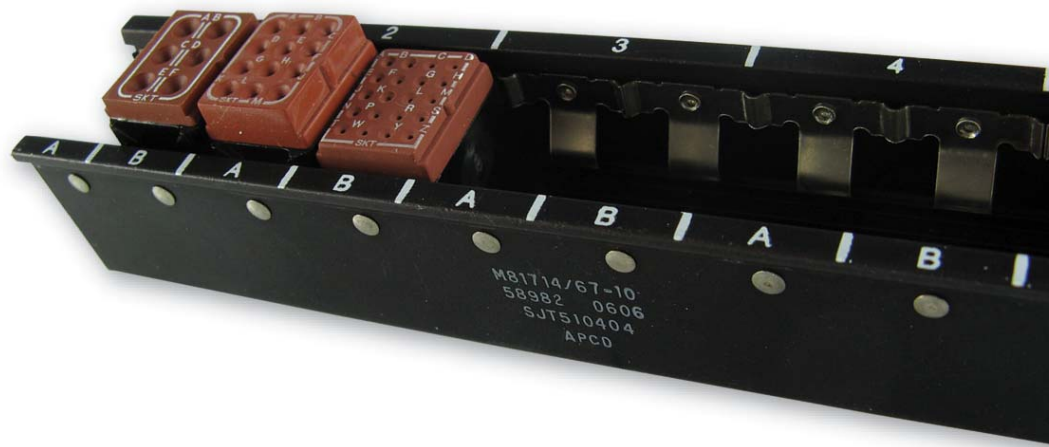
Distribution modules provide a variety of contact combinations for power distribution applications and have the same construction and features as the standard Series II modules.

#### Ground Modules

SJG grounding modules are available in both center stud and mounting flange versions.

#### Board Mount Pin Modules

The socket junction modules indicate on the following pages can also be provided in a solder pin version for mounting directly to printed circuit boards, providing a flexible, compact wiring package and eliminating the need for mounting track.



**Amphenol Pcd**

# Military Qualified, QPL-Listed

## MIL-T-81714 Series II, Class D

### Socket Junction Modules

| Military P/N    | Amphenol Pcd P/N | Page |
|-----------------|------------------|------|
| M81714/60-22-01 | SJM022100        | 49   |
| M81714/60-22-02 | SJM022200        | 49   |
| M81714/60-22-04 | SJM022400        | 49   |
| M81714/60-22-05 | SJM022500        | 49   |
| M81714/60-22-06 | SJM022600        | 49   |
| M81714/60-22-10 | SJM022700        | 49   |
|                 |                  |      |
| M81714/60-20-01 | SJM020100        | 50   |
| M81714/60-20-02 | SJM020200        | 50   |
| M81714/60-20-03 | SJM020300        | 50   |
| M81714/60-20-04 | SJM020400        | 50   |
| M81714/60-20-06 | SJM020600        | 50   |
|                 |                  |      |
| M81714/60-16-01 | SJM016100        | 51   |
| M81714/60-16-02 | SJM016200        | 51   |
| M81714/60-16-03 | SJM016300        | 51   |
|                 |                  |      |
| M81714/60-12-01 | SJM012100        | 51   |
| M81714/60-12-02 | SJM012200        | 51   |
| M81714/60-12-03 | SJM012300        | 51   |
|                 |                  |      |
| M81714/61-0Z    | SJM000100        | 52   |
| M81714/61-0Y    | SJM000800        | 52   |
| M81714/61-0X    | SJM000200        | 52   |
| M81714/61-0W    | SJM000300        | 52   |

### Socket Grounding Modules

| Military P/N  | Amphenol Pcd P/N | Page |
|---------------|------------------|------|
| M81714/63-22S | SJG022170        | 54   |
| M81714/63-20S | SJG020170        | 54   |
| M81714/63-16S | SJG016170        | 54   |
| M81714/63-22F | SJG022270        | 55   |
| M81714/63-20F | SJG020270        | 55   |
| M81714/63-16F | SJG016270        | 55   |
| M81714/63-12F | SJG016270        | 55   |

### Socket Junction Module Mounting Track

| Military P/N | Amphenol Pcd P/N | Page |
|--------------|------------------|------|
| M81714/67-02 | SJT502404        | 59   |
| M81714/67-03 | SJT503404        | 59   |
| M81714/67-04 | SJT504404        | 59   |
| M81714/67-05 | SJT505404        | 59   |
| M81714/67-06 | SJT506404        | 59   |
| M81714/67-07 | SJT507404        | 59   |
| M81714/67-08 | SJT508404        | 59   |
| M81714/67-09 | SJT509404        | 59   |
| M81714/67-10 | SJT510404        | 59   |
| M81714/67-12 | SJT512404        | 59   |
| M81714/67-13 | SJT513404        | 59   |
| M81714/67-14 | SJT514404        | 59   |
| M81714/67-15 | SJT515404        | 59   |
| M81714/67-16 | SJT516404        | 59   |
| M81714/67-18 | SJT518404        | 59   |
| M81714/67-19 | SJT519404        | 59   |
| M81714/67-20 | SJT520404        | 59   |
| M81714/67-21 | SJT521404        | 59   |
| M81714/67-25 | SJT525404        | 59   |
| M81714/67-30 | SJT530404        | 59   |
| M81714/67-32 | SJT532404        | 59   |
| M81714/67-40 | SJT540404        | 59   |

### In-Line Junction Splices

| Military P/N   | Amphenol Pcd P/N | Page |
|----------------|------------------|------|
| M81714/65-16-1 | SJS316700        | 58   |
| M81714/65-20-1 | SJS320700        | 58   |
| M81714/65-22-1 | SJS322700        | 58   |
| M81714/65-16-2 | SJS316701        | 58   |
| M81714/65-20-2 | SJS320701        | 58   |
| M81714/65-22-2 | SJS322701        | 58   |

# M81714/60-22

## Series II Size 22

### Operating Range

**Temperature:**  
-65°C to 200°C

**Insulation Resistance:**  
5000 Megaohms @ 25°C

**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 110,000 ft.

**Current Rating**  
5 Amps

**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

### Materials

**Module Body:**  
Polytherimide per ASTM-D5205

**Grommet:**  
Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**  
Stainless Steel

**Internal Pin and Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

### Socket Junction Modules



### Amphenol Pcd Socket Junction Modules

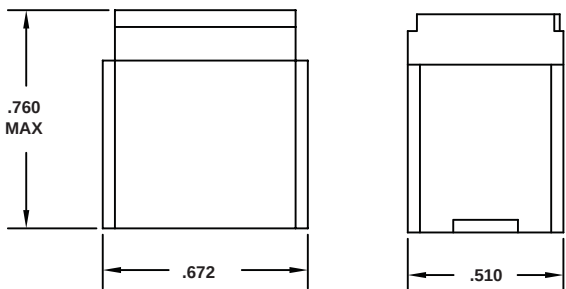
| Bussing Configurations | Part Numbers    |           | Contact |                   |            |
|------------------------|-----------------|-----------|---------|-------------------|------------|
|                        | Military P/N    | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/60-22-01 | SJM022100 | 20      | 22/22             | /22-191    |
|                        | M81714/60-22-02 | SJM022200 | 20      | 22/22             | /22-191    |
|                        | M81714/60-22-04 | SJM022400 | 20      | 22/22             | /22-191    |
|                        | M81714/60-22-05 | SJM022500 | 20      | 22/22             | /22-191    |
|                        | M81714/60-22-06 | SJM022600 | 20      | 22/22             | /22-191    |
|                        | M81714/60-22-07 | SJM022700 | 20      | 22/22             | /22-191    |

\*Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

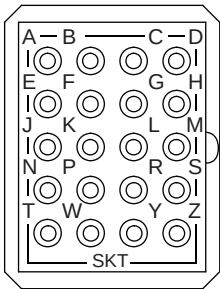
<sup>1</sup>Mating End / Wire Barrel.

### Socket Junction Module Dimensions

#### Front & Side View



#### Top View



M81714/60-22-01 SHOWN



# Amphenol Pcd

## Socket Junction Modules

# M81714/60-20 Series II Size 20



### Operating Range

**Temperature:**

-65°C to 200°C

**Insulation Resistance:**

5000 Megaohms @ 25°C

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

**Current Rating**

7.5 Amps

**Vibration & Shock:**

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

**Module Body:**

Polyetherimide per ASTM-D5205

**Grommet:**

Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**

Stainless Steel

**Internal Pin and Socket Contacts:**

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

## Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers    |           | Contact |                   |            |
|------------------------|-----------------|-----------|---------|-------------------|------------|
|                        | Military P/N    | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/60-20-01 | SJM020100 | 12      | 20/20             | /22-192    |
|                        | M81714/60-20-02 | SJM020200 | 12      | 20/20             | /22-192    |
|                        | M81714/60-20-03 | SJM020300 | 12      | 20/20             | /22-192    |
|                        | M81714/60-20-04 | SJM020400 | 12      | 20/20             | /22-192    |
|                        | M81714/60-20-06 | SJM020600 | 12      | 20/20             | /22-192    |

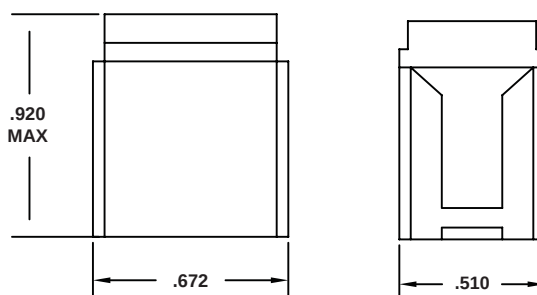
\*Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

<sup>1</sup>Mating End / Wire Barrel.

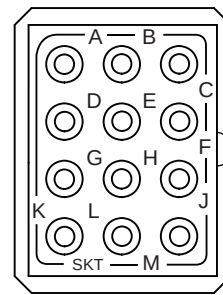


## Socket Junction Module Dimensions

### Front & Side View



### Top View



M81714/60-20-01 SHOWN



# M81714/60-16

## Series II Size 16

### Socket Junction Modules



#### Operating Range

**Temperature:**  
-65°C to 200°C

**Insulation Resistance:**  
5000 Megaohms @ 25°C

**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 110,000 ft.

**Current Rating**  
13 Amps

**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

#### Materials

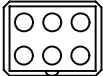
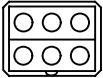
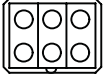
**Module Body:**  
Polyetherimide per ASTM-D5205

**Grommet:**  
Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**  
Stainless Steel

**Internal Pin and Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

### Amphenol Pcd Socket Junction Modules

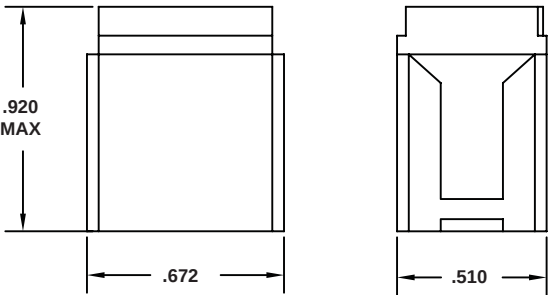
| Bussing Configurations                                                              | Part Numbers    |           | Contact |                   |            |
|-------------------------------------------------------------------------------------|-----------------|-----------|---------|-------------------|------------|
|                                                                                     | Military P/N    | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|    | M81714/60-16-01 | SJM016100 | 6       | 16/16             | /22-193    |
|  | M81714/60-16-02 | SJM016200 | 6       | 16/16             | /22-193    |
|  | M81714/60-16-03 | SJM016300 | 6       | 16/16             | /22-193    |

\* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

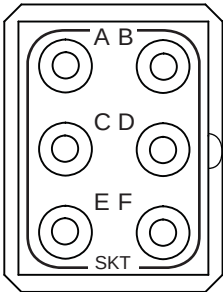
<sup>1</sup> Mating End / Wire Barrel.

### Socket Junction Module Dimensions

Front & Side View



Top View



M81714/60-16-01 SHOWN



Amphenol Pcd

## Socket Junction Modules

# M81714/60-12

## Series II Size 12



### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms @ 25°C

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

#### Current Rating

23 Amps

#### Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Module Body:

Polyetherimide per ASTM-D5205

#### Grommet:

Silicone Blend Elastomer per A-A-59588

#### Contact Retainers:

Stainless Steel

#### Internal Pin and Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

## Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers    |           | Contact |                   |            |
|------------------------|-----------------|-----------|---------|-------------------|------------|
|                        | Military P/N    | APCD P/N  | QTY*    | Size <sup>1</sup> | P/N M39029 |
|                        | M81714/60-12-01 | SJM012100 | 6       | 12/12             | /22-605    |
|                        | M81714/60-12-02 | SJM012200 | 6       | 12/12             | /22-605    |
|                        | M81714/60-12-03 | SJM012300 | 6       | 12/12             | /22-605    |

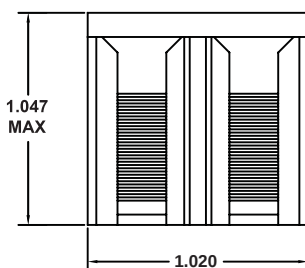
\* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

<sup>1</sup> Mating End / Wire Barrel.

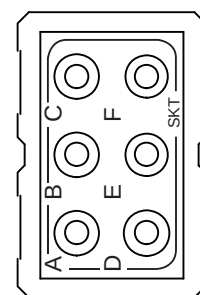


## Socket Junction Module Dimensions

### Front & Side View



### Top View



M81714/60-12-01 SHOWN

# M81714/61 Series II

## Distribution Socket Junction Modules

### Socket Junction Modules



### Operating Range

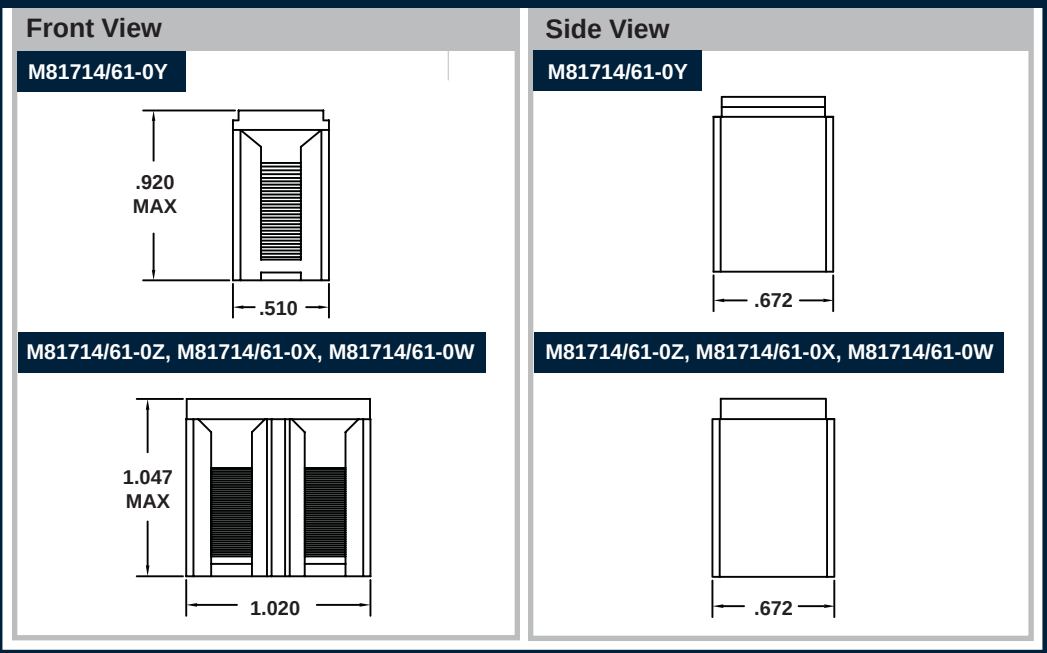
**Temperature:**  
-65°C to 200°C  
**Insulation Resistance:**  
5000 Megaohms @ 25°C  
**Dielectric Withstanding Voltage:**  
1500 VRMS at Sea Level  
200 VRMS at 110,000 ft.  
**Current Rating**  
5 Amps (Size 22)  
7.5 Amps (Size 20)  
13 Amps (Size 16)  
23 Amps (Size 12)  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

**Materials**  
**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Contact Retainers:**  
Stainless Steel  
**Internal Pin and Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

### Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers |           | Contact |      | Bussing    |                                                                |
|------------------------|--------------|-----------|---------|------|------------|----------------------------------------------------------------|
|                        | Military P/N | APCD P/N  | QTY     | Size | P/N M39029 | Bus Description                                                |
|                        | M81714/61-0Z | SJM000100 | 6       | 16   | /22-193    | 1 BUS<br>TWO SIZE 12 &<br>SIX SIZE 16                          |
|                        |              |           | 2       | 12   | /22-605    |                                                                |
|                        | M81714/61-0Y | SJM000800 | 6       | 20   | /22-192    | 1 BUS<br>TWO SIZE 16 &<br>SIX SIZE 20                          |
|                        |              |           | 2       | 16   | /22-193    |                                                                |
|                        | M81714/61-0X | SJM000200 | 6       | 16   | /22-193    | 2 BUSSES<br>ONE SIZE 12 &<br>THREE SIZE 16 PER BUS             |
|                        |              |           | 2       | 12   | /22-605    |                                                                |
|                        | M81714/61-0W | SJM000500 | 5       | 22   | /22-191    | 5 BUSSES<br>ONE SIZE 22 & ONE SIZE 20<br>& ONE SIZE 16 PER BUS |
|                        |              |           | 5       | 20   | /22-192    |                                                                |
|                        |              |           | 5       | 16   | /22-193    |                                                                |

### Socket Junction Module Dimensions



### Product Description

Distribution Socket Junction Modules are available in a variety of MIL-T-81714 configurations, feature the same construction and features as the standard Series II high density modules, and are recommended for power distribution applications



# Amphenol Pcd

# M81714/63 Socket Ground Modules

## Stud Mount Series II Size 16, 20, 22

### Socket Junction Modules



#### Operating Range

**Temperature:**  
-65°C to 200°C  
**Current Rating**  
5 Amps (Size 22)  
7.5 Amps (Size 20)  
13 Amps (Size 16)  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

#### Materials

**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Stud / Shell:**  
Copper Alloy, Gold Plated per  
SAE-AMS-2422. Tin Plating per  
ASTM-B545 Also Available as an Alternate  
**Contact Retainers:**  
Stainless Steel  
**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

### Socket Grounding Modules Part Numbers

#### Product Description

M81714/ 63, stud mount, socket grounding modules mount directly to a ground plane or ground lug creating a multi-wire sealed grounding device. The grounding modules could also be mounted to a bus bar for power distribution, sensing or metering. All mounting hardware is furnished and custom hardware configurations are available. The mounting stud is available in gold or tin plating.

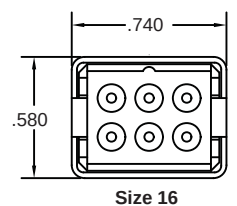
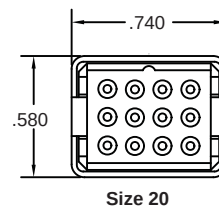
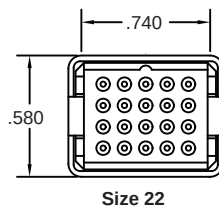
| Part Numbers  |           |      | Contact           |            | Stud    |
|---------------|-----------|------|-------------------|------------|---------|
| Military P/N  | APCD P/N  | QTY* | Size <sup>1</sup> | P/N M39029 | Plating |
| M81714/63-22S | SJG022170 | 20   | 22/22             | /22-191    | Gold    |
|               | SJG022100 | 20   | 22/22             | /22-191    | Tin     |
| M81714/63-20S | SJG020170 | 12   | 20/20             | /22-192    | Gold    |
|               | SJG020100 | 12   | 20/20             | /22-192    | Tin     |
| M81714/63-16S | SJG016170 | 6    | 16/16             | /22-193    | Gold    |
|               | SJG016100 | 6    | 16/16             | /22-193    | Tin     |

\*Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs  
<sup>1</sup>Mating End/ Wire Barrel

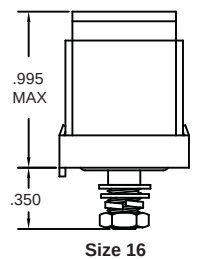
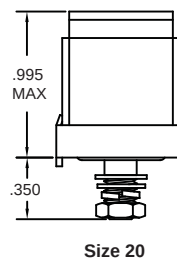
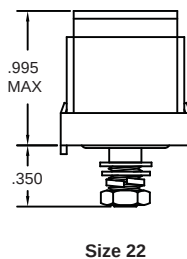


### Socket Junction Module Dimensions

#### Top View



#### Side View



# M81714/63 Socket Ground Modules

## Flange Mount Series II Size 12, 16, 20, 22

### Socket Junction Modules



#### Operating Range

**Temperature:**  
-65°C to 200°C  
**Current Rating**  
5 Amps (Size 22)  
7.5 Amps (Size 20)  
13 Amps (Size 16)  
23 Amps (Size 12)  
**Vibration & Shock:**  
MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

#### Materials

**Module Body:**  
Polyetherimide per ASTM-D5205  
**Grommet:**  
Silicone Blend Elastomer per A-A-59588  
**Flange / Shell:**  
Copper Alloy, Gold Plated per  
SAE-AMS-2422. Tin Plating per  
ASTM-B545 Also Available as an Alternate  
**Contact Retainers:**  
Stainless Steel  
**Socket Contacts:**  
Copper Alloy, Hard Gold Plated in  
Accordance with MIL-G-45204

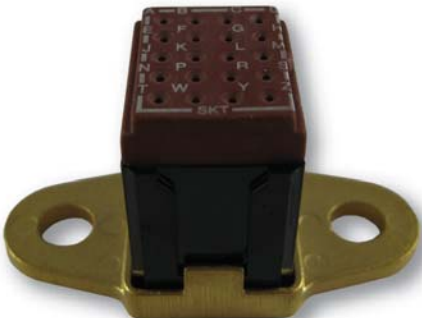
### Socket Grounding Modules Part Numbers

| Part Numbers  |           |      | Contact           |            | Flange  |
|---------------|-----------|------|-------------------|------------|---------|
| Military P/N  | APCD P/N  | QTY* | Size <sup>1</sup> | P/N M39029 | Plating |
| M81714/63-22F | SJG022270 | 20   | 22/22             | /22-191    | Gold    |
|               | SJG022200 | 20   | 22/22             | /22-191    | Tin     |
| M81714/63-20F | SJG020270 | 12   | 20/20             | /22-192    | Gold    |
|               | SJG020200 | 12   | 20/20             | /22-192    | Tin     |
| M81714/63-16F | SJG016270 | 6    | 16/16             | /22-193    | Gold    |
|               | SJG016200 | 6    | 16/16             | /22-193    | Tin     |
| M81714/63-12F | SJG012270 | 6    | 12/12             | /22-605    | Gold    |
|               | SJG012200 | 6    | 12/12             | /22-605    | Tin     |

\*Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs  
<sup>1</sup>Mating End/ Wire Barrel

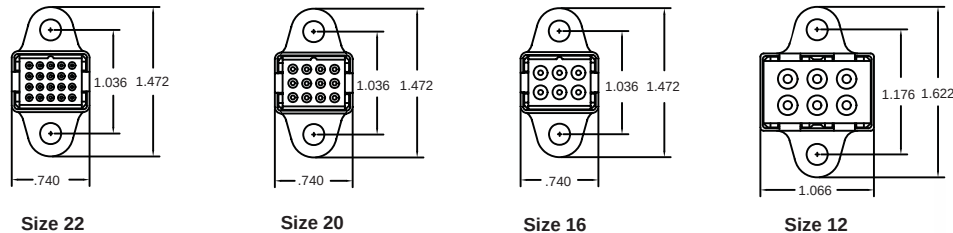
### Product Description

M81714/ 63, flange mount, socket grounding modules mount directly to a ground plane or ground lug creating a multi-wire sealed grounding device. The grounding modules could also be mounted to a bus bar for power distribution, sensing or metering. All mounting hardware is furnished and custom hardware configurations are available. The mounting stud is available in gold or tin plating.

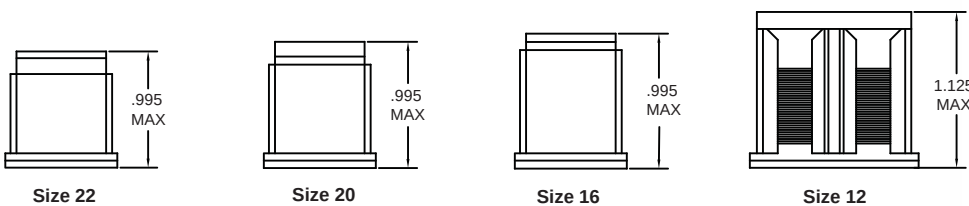


### Socket Junction Module Dimensions

#### Top View



#### Side View



Amphenol Pcd



## Socket Junction Modules



# Board Mount Socket Junction Modules

## Series II Size 12, 16, 20, 22

### Operating Range

**Temperature:**

-65°C to 125°C

**Insulation Resistance:**

1000 Megaohms Min.

**Dielectric Withstanding Voltage:**

1500 VRMS at Sea Level

200 VRMS at 80,000 ft.

**Current rating:**

5 Amps (Size 22)

7.5 Amps (Size 20)

13 Amps (Size 16)

23 Amps (Size 12)

### Materials

**Module Body:**

Polytherimide per ASTM-D5205

**Grommet:**

Silicone Blend Elastomer per A-A-59588

**Contact Retainers:**

Stainless Steel

**Socket Contacts:**

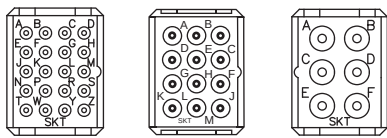
Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

## Product Description

The socket junction modules indicate on the following pages can also be provided in a solder pin version for mounting directly to printed circuit boards, providing a flexible, compact wiring package and eliminating the need for mounting track. Please contact Amphenol Pcd for details on the SJP pin module.

## Module Configurations



A

B

C



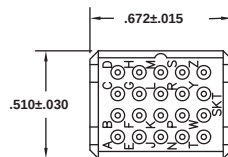
## Board Mount Socket Junctions

| APCD P/N  | QTY | Size  | Contact P/N   | Config. | DIM. L |
|-----------|-----|-------|---------------|---------|--------|
| SJP022000 | 20  | 22/22 | M39029/22-191 | A       | .187   |
| SJP022010 | 20  | 22/22 | M39029/22-191 | A       | .250   |
| SJP020000 | 12  | 20/20 | M39029/22-192 | B       | .187   |
| SJP020010 | 12  | 20/20 | M39029/22-192 | B       | .250   |
| SJP016000 | 6   | 16/16 | M39029/22-193 | C       | .187   |
| SJP016010 | 6   | 16/16 | M39029/22-193 | C       | .250   |
| SJP012000 | 6   | 12/12 | M39029/22-605 | D       | .187   |
| SJP012010 | 6   | 12/12 | M39029/22-605 | D       | .250   |
| SJP012010 | 6   | 12/12 | M39029/22-605 | D       | .335   |

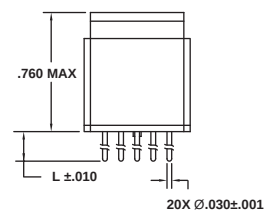
## Board Mount Socket Junction Modules Dimensions

### Size 22

#### Side View

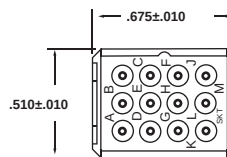


#### Side View

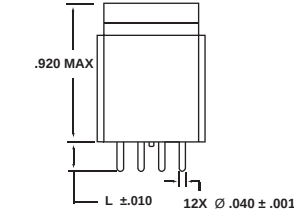


### Size 20, 16

#### Side View

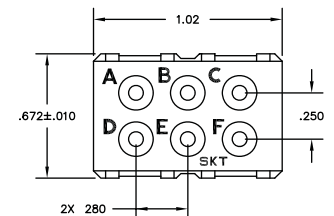


#### Side View

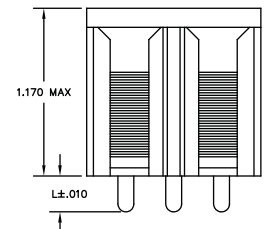


### Size 12

#### Side View



#### Side View



# Electronic Socket Junction Modules

## SJE Component Modules

### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

#### Vibration & Shock:

Per MIL-T-81714

Paragraph 3.5.5 & 3.5.8

### Materials

#### Insulator Body:

Polyetherimide per ASTM-D-5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Internal Contact:

Copper Alloy, Gold Finish

per SAE-AMS-MIL-G-45204

## Socket Junction Modules



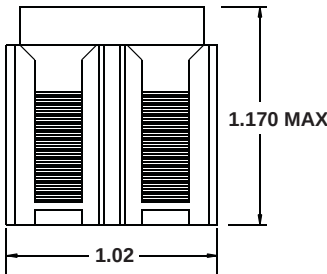
## Electronic Socket Junction Modules

## Product Descriptions

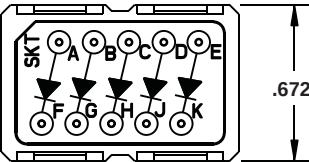
Amphenol Pcd's Electronic Socket Junction Modules are available with a variety of components and in a wide range of configurations. Components available include, but are not limited to, diodes, resistors, fuses, thyristors, and inductors, and are also available with multiple components within one module. There are new configurations produced regularly and customized components are also available.

## Junction Module Dimensions

Side View



Top View



Amphenol Pcd

| Circuit Diagram | APCD P/N  | Component | Quantity |
|-----------------|-----------|-----------|----------|
|                 | SJE020001 | Diode     | 5        |
|                 | SJE020003 | Diode     | 4        |
|                 | SJE020006 | Resistor  | 5        |
|                 | SJE020008 | Diode     | 2        |
|                 | SJE020009 | Diode     | 5        |
|                 | SJE020016 | Diode     | 5        |
|                 | SJE020017 | Resistor  | 4        |
|                 | SJE020022 | Diode     | 5        |
|                 | SJE020045 | Diode     | 5        |
|                 | SJE020290 | Resistor  | 2        |
|                 | SJE020297 | Fuse      | 5        |

## Socket Junction Splices



# M81714/65 Sealed In-Line Splices

## SJS Series II Single and Double

### Operating Range

#### Temperature:

-65°C to 200°C

#### Insulation Resistance:

5000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

#### Vibration & Shock:

Per MIL-T-81714

Paragraph 3.5.5 & 3.5.8

#### Current Rating:

13 Amps (Size 16)

7.5 Amps (Size 20)

5 Amps (Size 22)

### Materials

#### Insulator Body:

Polyetherimide per ASTM-D-5205

#### Grommet:

Silicone Rubber per A-A-59588

#### Internal Contact:

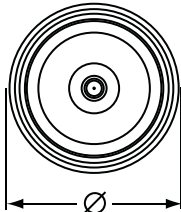
Copper Alloy, Gold Finish

Accordance with MIL-G-45204

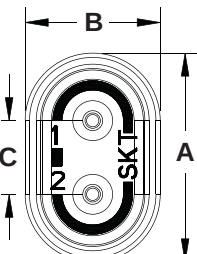
## Product Description

Series II In-Line Splices are available in single and double configurations in sizes 16, 20, and 22 AWG. These M81714/65 Splices use the same advanced polyetherimide body, one-piece bus assembly and construction as Amphenol Pcd's other M81714 connectors.

## Single SJS Splices

|                                                                                    | Military P/N   | APCD P/N  | Ø Diameter |
|------------------------------------------------------------------------------------|----------------|-----------|------------|
|  | M81714/65-16-1 | SJS316700 | .324 Max   |
|                                                                                    | M81714/65-20-1 | SJS320700 | .290 Max   |
|                                                                                    | M81714/65-22-1 | SJS322700 | .230 Max   |

## Double SJS Splices

|                                                                                     | Military P/N   | APCD P/N  | A        | B        | C        |
|-------------------------------------------------------------------------------------|----------------|-----------|----------|----------|----------|
|  | M81714/65-16-2 | SJS316701 | .548 Max | .304 Max | .180 Max |
|                                                                                     | M81714/65-20-2 | SJS320701 | .481 Max | .271 Max | .150 Max |
|                                                                                     | M81714/65-22-2 | SJS322701 | .384 Max | .204 Max | .120 Max |

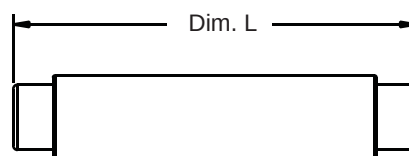
## Sealed Splice Contacts

| In-Line Splice | Contact       |
|----------------|---------------|
| M81714/65-16-1 | M39029/22-193 |
| M81714/65-20-1 | M39029/22-192 |
| M81714/65-22-1 | M39029/22-191 |
| M81714/65-16-2 | M39029/22-193 |
| M81714/65-20-2 | M39029/22-192 |
| M81714/65-22-2 | M39029/22-191 |

## Splice Dimensions

### SJS Single Splice

#### Side View



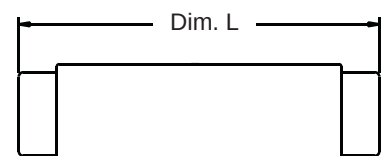
#### Wire Size

#### Dimension L

|         |           |
|---------|-----------|
| Size 16 | 1.452 Max |
| Size 20 | 1.434 Max |
| Size 22 | 1.310 Max |

### SJS Double Splice

#### Side View



#### Wire Size

#### Dimension L

|         |           |
|---------|-----------|
| Size 16 | 1.428 Max |
| Size 20 | 1.428 Max |
| Size 22 | 1.322 Max |

# M81714/67 Series II

## Socket Junction Module Mounting Tracks

### Operating Range

#### Temperature:

-65° to 200°C

#### Corrosion:

No Exposure of Base Metal  
After 48 Hours of Salt Spray

#### Magnetic Permeability:

2.0 MU Max.

#### Vibration and Shock:

Per MIL-T-81714 Paragraph  
3.5.5 and 3.5.8

### Materials

#### Rail:

Aluminum Alloy, Black Anodized

#### Spring Clips:

Stainless Steel

#### Rivets:

Stainless Steel

## Socket Junction Modules



## Socket Junction Modules Mounting Tracks

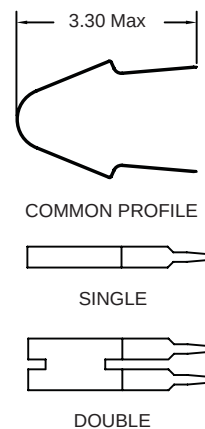
| Military P/N | APCD      | Mounting Pos.* | Dimensions |        |
|--------------|-----------|----------------|------------|--------|
|              |           |                | A          | B      |
| M81714/67-02 | SJT502404 | 2              | 1.036      | 0.518  |
| M81714/67-03 | SJT503404 | 3              | 1.554      | 1.036  |
| M81714/67-04 | SJT504404 | 4              | 2.072      | 1.554  |
| M81714/67-05 | SJT505404 | 5              | 2.590      | 2.072  |
| M81714/67-06 | SJT506404 | 6              | 3.108      | 2.590  |
| M81714/67-07 | SJT507404 | 7              | 3.626      | 3.108  |
| M81714/67-08 | SJT508404 | 8              | 4.144      | 3.626  |
| M81714/67-09 | SJT509404 | 9              | 4.662      | 4.144  |
| M81714/67-10 | SJT510404 | 10             | 5.180      | 4.662  |
| M81714/67-12 | SJT512404 | 12             | 6.216      | 5.698  |
| M81714/67-13 | SJT513404 | 13             | 6.734      | 6.216  |
| M81714/67-14 | SJT514404 | 14             | 7.252      | 6.734  |
| M81714/67-15 | SJT515404 | 15             | 7.770      | 7.252  |
| M81714/67-16 | SJT516404 | 16             | 8.288      | 7.770  |
| M81714/67-18 | SJT518404 | 18             | 9.324      | 8.806  |
| M81714/67-19 | SJT519404 | 19             | 9.842      | 9.324  |
| M81714/67-20 | SJT520404 | 20             | 10.360     | 9.842  |
| M81714/67-21 | SJT521404 | 21             | 10.878     | 10.360 |
| M81714/67-25 | SJT525404 | 25             | 12.950     | 12.432 |
| M81714/67-30 | SJT530404 | 30             | 15.540     | 15.022 |
| M81714/67-32 | SJT532404 | 32             | 16.576     | 16.058 |
| M81714/67-40 | SJT540404 | 40             | 20.720     | 20.202 |

\*Size 12 Modules require two mounting positions

## Removal Tools

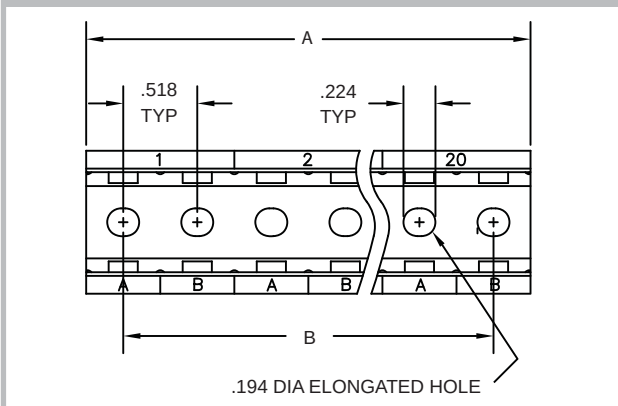
| MIL P/N      | APCD P/N  | Description |
|--------------|-----------|-------------|
| M81714/69-01 | CNA051300 | Single      |
| M81714/69-02 | CNA052300 | Double      |

## Removal Tools

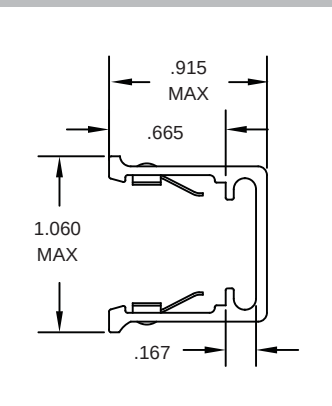


## Socket Junction Track Dimensions

### Top View



### Cross Section



Amphenol Pcd

## Socket Junction Modules



# M81714/67 Series II

## Composite Socket Junction Module Mounting Tracks

### Operating Range

#### Temperature:

-65° to 175°C

#### Vibration and Shock:

Per MIL-T-81714 Paragraph

3.5.5 and 3.5.8

### Materials

#### Rail:

Glass Filled Polythermide,

Color: Black

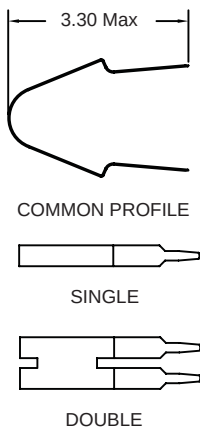
## Product Description

The SJTC Mounting Track is fabricated of glass-filled polyetherimide which was selected for its unique combination of high strength, lightweight, chemical resistance and dimensional stability. The track is available with 2 through 20 mounting positions and is inter-changeable with existing aluminum track. The new track is 45% lighter than the aluminum track and 10% lighter than any other series II track available, and meets all dimensional requirements of MIL-T-81714.

## Removal Tools

| MIL P/N      | APCD P/N  | Description |
|--------------|-----------|-------------|
| M81714/69-01 | CNA051300 | Single      |
| M81714/69-02 | CNA052300 | Double      |

## Removal Tools



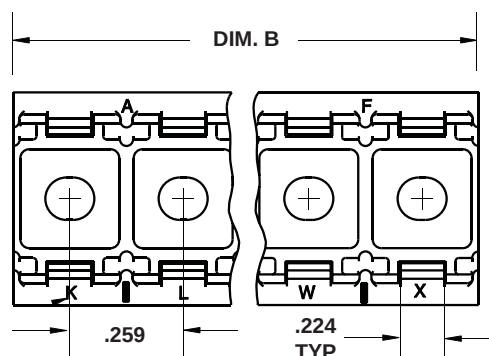
## Composite Socket Junction Module Mounting Tracks

| Military Equivalent P/N | APCD P/N  | Mounting Pos. | Dimensions |       |
|-------------------------|-----------|---------------|------------|-------|
|                         |           |               | A          | B     |
| M81714/67-02            | SJTC02000 | 2             | 1.036      | 0.518 |
| M81714/67-03            | SJTC03000 | 3             | 1.554      | 1.036 |
| M81714/67-04            | SJTC04000 | 4             | 2.072      | 1.554 |
| M81714/67-05            | SJTC05000 | 5             | 2.590      | 2.072 |
| M81714/67-06            | SJTC06000 | 6             | 3.108      | 2.590 |
| M81714/67-07            | SJTC07000 | 7             | 3.626      | 3.108 |
| M81714/67-08            | SJTC08000 | 8             | 4.144      | 3.626 |
| M81714/67-09            | SJTC09000 | 9             | 4.662      | 4.144 |
| M81714/67-10            | SJTC10000 | 10            | 5.180      | 4.662 |
|                         | SJTC11000 | 11            | 5.698      | 5.180 |
| M81714/67-12            | SJTC12000 | 12            | 6.216      | 5.698 |
| M81714/67-13            | SJTC13000 | 13            | 6.734      | 6.216 |
| M81714/67-14            | SJTC14000 | 14            | 7.252      | 6.734 |
| M81714/67-15            | SJTC15000 | 15            | 7.770      | 7.252 |
| M81714/67-16            | SJTC16000 | 16            | 8.288      | 7.770 |
|                         | SJTC17000 | 17            | 8.806      | 8.288 |
| M81714/67-18            | SJTC18000 | 18            | 9.324      | 8.806 |
| M81714/67-19            | SJTC19000 | 19            | 9.842      | 9.324 |
| M81714/67-20            | SJTC20000 | 20            | 10.360     | 9.842 |

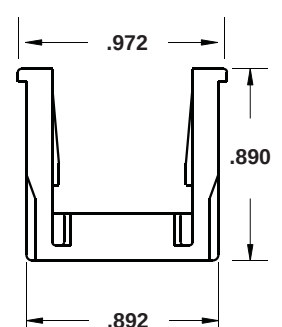
\*Size 12 Modules require two mounting positions

## Composite Socket Junction Module Mounting Tracks

### Top View



### Cross Section





# Wire Junctions and System Attachments

## MIL-T-81714, M39029, Cable Supports

### Wire Junctions and Attachments

Amphenol Pcd offers a variety of Junctions, Splices, Contacts, and Attachments for a wide range of wiring applications. Amphenol Pcd welcomes customer inquiries regarding customization of existing products as well as inquiries about new products. Amphenol Pcd is committed to providing complete solutions to all interconnect requirements.



**SJS In-Line Junctions**



**High Performance  
Clamps**



**Military  
Specification  
Contacts**

### Product features and Benefits

#### SJS In-Line Junctions

Environmentally sealed In-Line Junction Splices developed to bring higher reliability, improved installation ease, and greater flexibility to wiring applications.

#### High Performance Clamps

High Performance Clamps are designed to replace and outperform traditional P-Clamps & Saddle Clamps. Consisting of VICTREX® PEEK™ polymer and featuring an over-molded silicone cushion, these clamps are completely non-corrosive and non-conductive. These High Performance Clamps are designed to be lighter than traditional P-Clamps and are equipped with a locking feature to streamline installation.

#### Military Specification Contacts

Amphenol Pcd offers contacts for almost every connector, module or socket they produce. Contacts can be purchased with the parts or separately.

## SJS In-Line Junctions



# Single Contact In-Line Junction

## SJS Plugs & Receptacles Size 16, 20

### Operating Range

#### Temperature:

-55°C to 155°C

#### Insulation Resistance:

5000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

600 VRMS at 45,000 ft.

#### Vibration:

EIA-364D-028D, Test Condition V, E

#### Sealing:

EIA-364D-03B ( 55,000 ft )

#### Flammability Rating:

UL94, V0

#### CTI Rating:

UL746B, 600V

#### Contact Retention:

EIA-364D-029B ( 20lb )

### Materials

#### Insulator Body:

Polyamide ( Nylon )

#### Grommet:

Silicone Rubber per A-A-59588

#### Contact Retainers:

Stainless Steel

### Product Description

Two-piece environmentally sealed In-Line Junction designed to bring higher reliability, improved installation ease, and greater flexibility to wiring applications. Developed to meet MIL-T-81714 criteria, these in-line junctions consist of compact cylindrical plug and receptacle housing, which lock firmly together with a straight push and unlock with a simple "Twist and Pull" motion. In-Line Junctions are available with protective dust covers and are available in two colors per size. Wire Size 12 SJS and panel mount versions are currently in development.

### In-Line Junction Plugs

| Size | Part No.  | Length |      | Diameter |      | Mated Length |      | Color  |
|------|-----------|--------|------|----------|------|--------------|------|--------|
|      |           | inch   | cm   | inch     | cm   | inch         | cm   |        |
| 16   | SJS716100 | 1.13   | 2.87 | 0.39     | 0.99 | 1.65         | 4.20 | Blue   |
|      | SJS716110 |        |      |          |      |              |      | Red    |
| 20   | SJS720100 | 1.11   | 2.81 | 0.39     | 0.99 | 1.70         | 4.30 | Green  |
|      | SJS720110 |        |      |          |      |              |      | Yellow |

### In-Line Junction Contacts

| In-Line Junction    | Contact                |
|---------------------|------------------------|
| Size 16 Plugs       | M39029/56-352 (socket) |
| Size 16 Receptacles | M39029/56-351 (socket) |
| Size 20 Plugs       | M39029/58-364 (pin)    |
| Size 20 Receptacles | M39029/58-363 (pin)    |

### In-Line Junction Receptacles

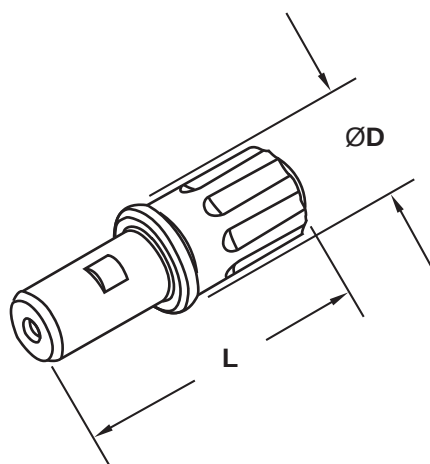
| Size | Part No.  | Length |      | Diameter |      | Mated Length |      | Color  |
|------|-----------|--------|------|----------|------|--------------|------|--------|
|      |           | inch   | cm   | inch     | cm   | inch         | cm   |        |
| 16   | SJS716200 | 1.06   | 2.69 | 0.43     | 1.09 | 1.65         | 4.20 | Blue   |
|      | SJS716210 |        |      |          |      |              |      | Red    |
| 20   | SJS720200 | 1.03   | 2.61 | 0.39     | 0.99 | 1.70         | 4.30 | Green  |
|      | SJS720210 |        |      |          |      |              |      | Yellow |

### In-Line Junction Weight

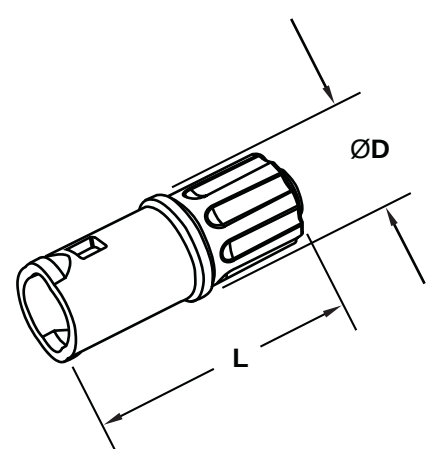
| In-Line Junction | Pounds | Grams |
|------------------|--------|-------|
| SJS716100        | .0037  | 1.70  |
| SJS716200        | .0031  | 1.40  |
| SJS720100        | .0033  | 1.50  |
| SJS720200        | .0026  | 1.20  |

### In Line Junction Dimensions

#### In-Line Junction Plug Dimensions



#### In-Line Junction Receptacle Dimensions



# Triple Contact In-Line Junction

## SJS Plugs & Receptacles Size 16, 20

### Operating Range

#### Temperature:

-55°C to 155°C

#### Insulation Resistance:

5000 Megaohms Min.

#### Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

600 VRMS at 45,000 ft.

#### Vibration:

EIA-364D-028D, Test Condition V, E

#### Sealing:

EIA-364D-03B ( 55,000ft )

#### Flammability Rating:

UL94, V0

#### CTI Rating:

UL746B, 600V

#### Contact Retention:

EIA-364D-029B ( 20lb )

### Materials

#### Insulator Body:

Polyamide ( Nylon )

#### Grommet:

Silicone Rubber per A-A-59588

#### Contact Retainers:

Stainless Steel

## SJS In-Line Junctions



### Product Description

Two-piece environmentally sealed In-Line Junction designed to bring higher reliability, improved installation ease, and greater flexibility to wiring applications. Developed to meet MIL-T-81714 criteria, these in-line junctions consist of compact cylindrical plug and receptacle housing, which lock firmly together with a straight push and unlock with a simple "Squeeze and Pull" motion. The In-Line Junctions are keyed according to color and size and are available in three colors per size. Protective dust caps are also available. A panel mount version is currently in development.

### In-Line Junction Plugs

| Size | Part No.  | Length<br>inch cm | Diameter<br>inch cm | Mated Length<br>inch cm | Key | Color |
|------|-----------|-------------------|---------------------|-------------------------|-----|-------|
| 16   | SJS816100 | 1.12 2.84         | 0.70 1.78           | 1.60 4.10               | A   | Red   |
|      | SJS816110 |                   |                     |                         | B   | White |
|      | SJS816120 |                   |                     |                         | C   | Blue  |
| 20   | SJS820100 | 1.08 2.74         | 0.70 1.78           | 1.68 4.30               | A   | Red   |
|      | SJS820110 |                   |                     |                         | B   | White |
|      | SJS820120 |                   |                     |                         | C   | Blue  |

### In-Line Junction Receptacles

| Size | Part No.  | Length<br>inch cm | Diameter<br>inch cm | Mated Length<br>inch cm | Key | Color |
|------|-----------|-------------------|---------------------|-------------------------|-----|-------|
| 16   | SJS816200 | 1.03 2.61         | 0.70 1.78           | 1.60 4.10               | A   | Red   |
|      | SJS816210 |                   |                     |                         | B   | White |
|      | SJS816220 |                   |                     |                         | C   | Blue  |
| 20   | SJS820200 | 0.99 2.51         | 0.70 1.78           | 1.68 4.30               | A   | Red   |
|      | SJS820210 |                   |                     |                         | B   | White |
|      | SJS820220 |                   |                     |                         | C   | Blue  |

### In-Line Junction Contacts

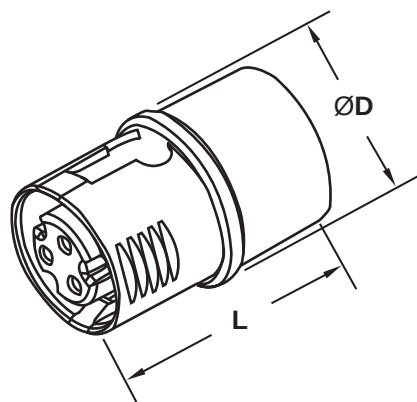
| In-Line Junction    | Contact                |
|---------------------|------------------------|
| Size 16 Plugs       | M39029/56-352 (socket) |
| Size 16 Receptacles | M39029/56-351 (socket) |
| Size 20 Plugs       | M39029/58-364 (pin)    |
| Size 20 Receptacles | M39029/58-363 (pin)    |

### In-Line Junction Weight

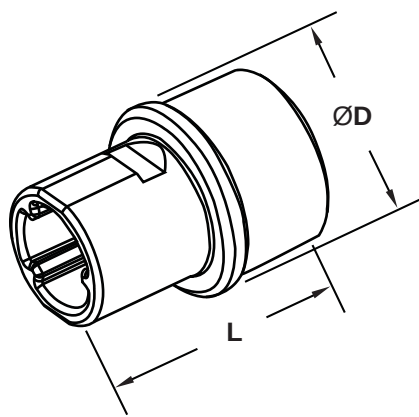
| In-Line Junction | Pounds | Grams |
|------------------|--------|-------|
| SJS816100        | .0116  | 5.30  |
| SJS816200        | .0095  | 4.30  |
| SJS820100        | .0101  | 4.60  |
| SJS820200        | .0081  | 3.70  |

### Relay Socket Dimensions

#### In-Line Junction Plug Dimensions



#### In-Line Junction Receptacle Dimensions



## High Performance Clamps



# High Performance P-Clamp

High Strength, Lightweight Wire & Tubing Clamps

### Materials

#### Clamp Base:

Polyetheretherketone (PEEK™)  
Per MIL-P-46183

#### Overmolding:

Silicone Rubber per ASTM-D-2000

### Performance

#### Temperature Limits:

Continuous: -54°C to 107°C  
Excursions: up to 177°C

#### Flammability:

UL94, V0

## Product Description

High Performance P-Clamps are designed to replace and outperform traditional clamps. Consisting of PEEK™ polymer and featuring and over-molded silicone cushion, these clamps are completely non-corrosive and non-conductive. These high performance clamps are designed to be lighter than traditional P-Clamps, are equipped with a locking feature to streamline installation, and are available in 15 different sizes. Alternate cushioning material available upon request including Fluorosilicone for fuel tank applications.

## P-Clamp Weight Chart

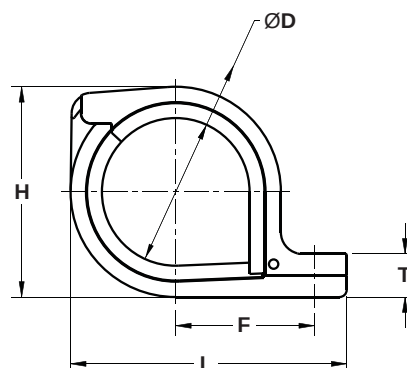
| APCD P/N  | Weight (lbs)<br>per 100 Clamps | Weight (grams)<br>per 100 Clamps |
|-----------|--------------------------------|----------------------------------|
| PCL150101 | 0.9                            | 408                              |
| PCL150102 | 1.1                            | 499                              |
| PCL150103 | 1.5                            | 681                              |
| PCL150104 | 1.7                            | 771                              |
| PCL150105 | 1.9                            | 862                              |
| PCL150106 | 2.1                            | 953                              |
| PCL150107 | 2.6                            | 1180                             |
| PCL150108 | 2.9                            | 1316                             |
| PCL150109 | 3.1                            | 1407                             |
| PCL150110 | 3.3                            | 1498                             |
| PCL150111 | 4.0                            | 1816                             |
| PCL150112 | 4.4                            | 1997                             |
| PCL150113 | 4.6                            | 2088                             |
| PCL150114 | 5.2                            | 2360                             |
| PCL150115 | 5.7                            | 2587                             |

## High Performance P-Clamps

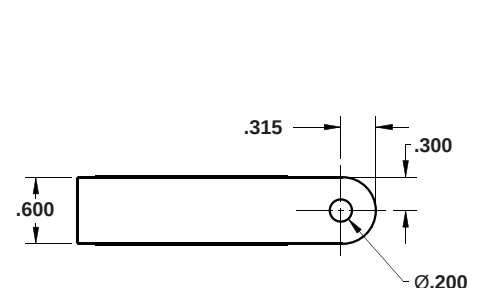
| Amphenol Pcd<br>Part Number | Diameter |      | F    |      | L    |      | H    |      | T    |      |
|-----------------------------|----------|------|------|------|------|------|------|------|------|------|
|                             | Inch     | cm   | Inch | cm   | Inch | cm   | Inch | cm   | Inch | cm   |
| PCL150101                   | 0.12     | 0.32 | 0.59 | 1.51 | 1.18 | 2.99 | 0.64 | 1.62 | 0.18 | 0.46 |
| PCL150102                   | 0.22     | 0.56 | 0.64 | 1.63 | 1.27 | 3.22 | 0.71 | 1.80 | 0.18 | 0.46 |
| PCL150103                   | 0.31     | 0.79 | 0.71 | 1.81 | 1.41 | 3.59 | 0.82 | 2.07 | 0.24 | 0.61 |
| PCL150104                   | 0.41     | 1.03 | 0.76 | 1.93 | 1.51 | 3.83 | 0.88 | 2.25 | 0.24 | 0.61 |
| PCL150105                   | 0.50     | 1.27 | 0.81 | 2.05 | 1.60 | 4.07 | 0.92 | 2.33 | 0.24 | 0.61 |
| PCL150106                   | 0.59     | 1.51 | 0.85 | 2.17 | 1.69 | 4.31 | 1.05 | 2.68 | 0.24 | 0.61 |
| PCL150107                   | 0.69     | 1.75 | 0.93 | 2.35 | 1.84 | 4.67 | 1.20 | 3.05 | 0.30 | 0.76 |
| PCL150108                   | 0.78     | 1.99 | 0.97 | 2.47 | 1.93 | 4.91 | 1.32 | 3.35 | 0.30 | 0.76 |
| PCL150109                   | 0.88     | 2.22 | 1.02 | 2.59 | 2.03 | 5.15 | 1.39 | 3.53 | 0.30 | 0.76 |
| PCL150110                   | 0.97     | 2.46 | 1.07 | 2.71 | 2.12 | 5.38 | 1.48 | 3.76 | 0.30 | 0.76 |
| PCL150111                   | 1.06     | 2.70 | 1.14 | 2.89 | 2.26 | 5.75 | 1.62 | 4.12 | 0.36 | 0.91 |
| PCL150112                   | 1.16     | 2.94 | 1.18 | 3.01 | 2.36 | 5.99 | 1.75 | 4.46 | 0.36 | 0.91 |
| PCL150113                   | 1.25     | 3.18 | 1.23 | 3.13 | 2.45 | 6.23 | 1.82 | 4.63 | 0.36 | 0.91 |
| PCL150114                   | 1.34     | 3.41 | 1.29 | 3.28 | 2.57 | 6.54 | 1.93 | 4.91 | 0.40 | 1.00 |
| PCL150115                   | 1.44     | 3.65 | 1.35 | 3.43 | 2.69 | 6.83 | 2.05 | 5.20 | 0.42 | 1.07 |

## P-Clamp Dimensions

Side View



Bottom View



# High Performance Omega Clamp

High Strength, Lightweight Wire & Tubing Clamps

## Materials

### Clamp Base:

Polyetheretherketone (PEEK™)  
per MIL-P-46183

### Overmolding:

Silicone Rubber per ASTM-D-2000

## Performance

### Temperature Limits:

Continuous: -54°C to 107°C  
Excursions: up to 177°C

### Flammability:

UL94, V0

## High Performance Clamps



## High Performance Omega Clamps

| Amphenol Pcd | Diameter |      | L    |      | F    |      | H    |      | C    |      | E    |      |
|--------------|----------|------|------|------|------|------|------|------|------|------|------|------|
| Part Number  | Inch     | cm   | Inch | cm   | Inch | cm   | Inch | cm   | Inch | cm   | Inch | cm   |
| PCL250008    | 0.45     | 1.14 | 2.19 | 5.56 | 0.78 | 1.98 | 0.91 | 2.31 | 1.56 | 3.96 | 0.20 | 0.51 |
| PCL250009    | 0.51     | 1.30 | 2.25 | 5.72 | 0.81 | 2.06 | 0.97 | 2.46 | 1.62 | 4.11 | 0.20 | 0.51 |
| PCL250010    | 0.57     | 1.45 | 2.31 | 5.87 | 0.84 | 2.13 | 1.03 | 2.62 | 1.68 | 4.27 | 0.20 | 0.51 |
| PCL250011    | 0.63     | 1.60 | 2.42 | 6.15 | 0.89 | 2.26 | 1.14 | 2.90 | 1.79 | 4.55 | 0.25 | 0.64 |
| PCL250012    | 0.70     | 1.78 | 2.49 | 6.32 | 0.93 | 2.36 | 1.21 | 3.07 | 1.86 | 4.72 | 0.25 | 0.64 |
| PCL250013    | 0.77     | 1.96 | 2.56 | 6.50 | 0.96 | 2.44 | 1.28 | 3.25 | 1.93 | 4.90 | 0.25 | 0.64 |
| PCL250014    | 0.83     | 2.11 | 2.62 | 6.65 | 1.00 | 2.54 | 1.34 | 3.40 | 1.99 | 5.05 | 0.25 | 0.64 |
| PCL250015    | 0.89     | 2.26 | 2.68 | 6.81 | 1.03 | 2.62 | 1.40 | 3.56 | 2.05 | 5.21 | 0.25 | 0.64 |
| PCL250016    | 0.95     | 2.41 | 2.79 | 7.09 | 1.08 | 2.74 | 1.51 | 3.84 | 2.16 | 5.49 | 0.30 | 0.76 |
| PCL250017    | 1.01     | 2.57 | 2.85 | 7.24 | 1.11 | 2.82 | 1.57 | 3.99 | 2.22 | 5.64 | 0.30 | 0.76 |
| PCL250018    | 1.07     | 2.72 | 2.91 | 7.39 | 1.14 | 2.90 | 1.63 | 4.14 | 2.28 | 5.79 | 0.30 | 0.76 |
| PCL250019    | 1.13     | 2.87 | 2.97 | 7.54 | 1.17 | 2.97 | 1.69 | 4.29 | 2.34 | 5.94 | 0.30 | 0.76 |
| PCL250020    | 1.20     | 3.05 | 3.07 | 7.80 | 1.22 | 3.10 | 1.79 | 4.55 | 2.44 | 6.20 | 0.33 | 0.84 |
| PCL250021    | 1.26     | 3.20 | 3.10 | 7.87 | 1.24 | 3.15 | 1.82 | 4.62 | 2.47 | 6.27 | 0.30 | 0.76 |
| PCL250022    | 1.33     | 3.38 | 3.17 | 8.05 | 1.27 | 3.23 | 1.89 | 4.80 | 2.54 | 6.45 | 0.30 | 0.76 |
| PCL250023    | 1.39     | 3.53 | 3.23 | 8.20 | 1.30 | 3.30 | 1.95 | 4.95 | 2.60 | 6.60 | 0.30 | 0.76 |
| PCL250024    | 1.45     | 3.68 | 3.29 | 8.36 | 1.33 | 3.38 | 2.01 | 5.11 | 2.66 | 6.76 | 0.30 | 0.76 |
| PCL250025    | 1.51     | 3.84 | 3.35 | 8.51 | 1.36 | 3.45 | 2.07 | 5.26 | 2.72 | 6.91 | 0.30 | 0.76 |
| PCL250026    | 1.57     | 3.99 | 3.41 | 8.66 | 1.39 | 3.53 | 2.13 | 5.41 | 2.78 | 7.06 | 0.30 | 0.76 |
| PCL250032    | 1.95     | 4.95 | 3.82 | 9.70 | 1.60 | 4.06 | 2.54 | 6.45 | 3.19 | 8.10 | 0.33 | 0.84 |

## Product Description

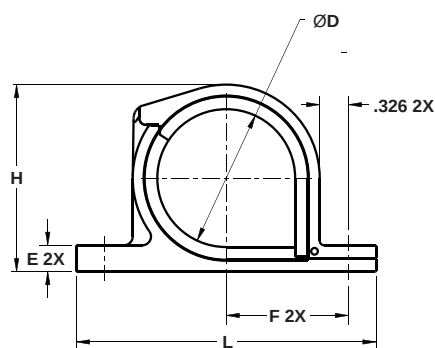
High Performance Omega Clamps are designed to replace and outperform traditional clamps. Consisting of PEEK™ polymer and featuring an over-molded silicone cushion, these clamps are completely non-corrosive and non-conductive. These high performance clamps are designed to be lighter than traditional Clamps, are equipped with a locking feature to streamline installation, and are available in 20 different sizes. Alternate cushioning material available upon request including Fluorosilicone for fuel tank applications.

## Omega Clamp Weight Chart

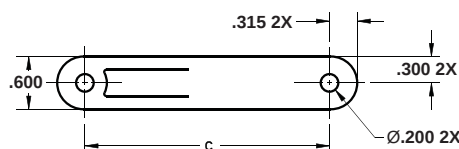
| APCD P/N  | Weight (lbs)<br>per 100 Clamps | Weight (grams)<br>per 100 Clamps |
|-----------|--------------------------------|----------------------------------|
| PCL250008 | 2.0                            | 907                              |
| PCL250009 | 2.1                            | 952                              |
| PCL250010 | 2.2                            | 997                              |
| PCL250011 | 2.9                            | 1315                             |
| PCL250012 | 3.0                            | 1360                             |
| PCL250013 | 3.2                            | 1451                             |
| PCL250014 | 3.3                            | 1496                             |
| PCL250015 | 3.4                            | 1542                             |
| PCL250016 | 4.2                            | 1905                             |
| PCL250017 | 4.4                            | 1995                             |
| PCL250018 | 4.5                            | 2041                             |
| PCL250019 | 4.7                            | 2131                             |
| PCL250020 | 5.3                            | 2404                             |
| PCL250021 | 5.0                            | 2268                             |
| PCL250022 | 5.2                            | 2358                             |
| PCL250023 | 5.3                            | 2404                             |
| PCL250024 | 5.4                            | 2449                             |
| PCL250025 | 5.6                            | 2540                             |
| PCL250026 | 5.7                            | 2585                             |
| PCL250032 | 7.3                            | 3311                             |

## P-Clamp Dimensions

### Side View



### Bottom View



**Amphenol Pcd**



## Power Distribution Bus



## Power Bus 3

### Power Distribution Bus

#### Materials

##### Module Body:

Polyetherimide  
per ASTM-D5205

##### Color:

Gray

##### Socket Contact Retainers:

Beryllium Copper

##### Bus Bar and Pin Contacts:

Copper, Nickel Plated per  
SAE-AMS-QQ-N-29C, Class I

##### Marking:

High Temperature epoxy ink  
(Colors Optional)

#### Operating Range

##### Temperature:

-55°C to 80°C

##### Voltage:

1000 Volts AC RMS Max

##### Current:

73 Amps Max

##### Vibration:

MIL-STD-202, Method 204,  
Test Condition D

##### Shock:

MIL-STD-202, Method 213,  
Test Condition K  
Fluid

#### Operating Range (cont.)

##### Thermal Shock:

MIL-STD-202, Method 107,  
Test Condition B

##### Salt Spray:

MIL-STD-202, Method 101,  
Test Condition B

##### Humidity:

MIL-STD-202, Method 106  
(No Vibration Step 7B)

##### Contact Retention:

16 ga. Contact = 30 lbs Min.  
8 ga. Contact = 55 lbs Min.

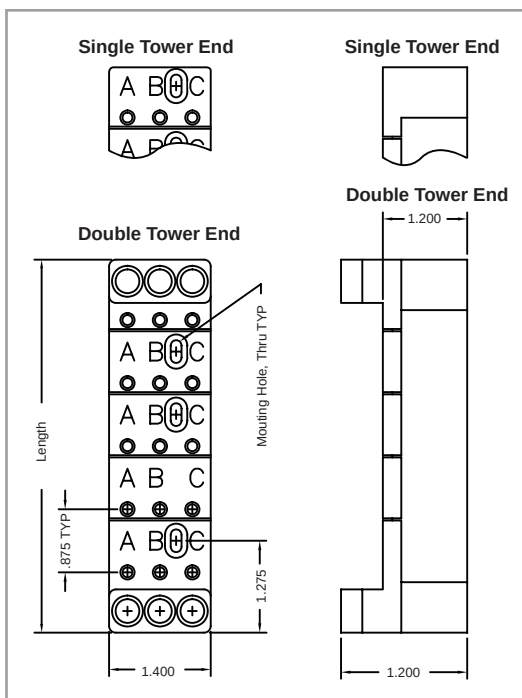
##### Fluid Immersion:

Materials and Marking Shall Be  
Resistant to Skydrol LD-4 and  
MIL-H-83282 Hydraulic

## Product Description

Power Bus 3 is a lightweight, compact and fully enclosed 3-phase, 73 amp, 1000 VAC power distribution bus for aircraft and other applications. The unique Power Bus 3 provides significant advantages in terms of size and weight reduction and strength increases over existing power bus devices. The construction features a rigid extruded polyetherimide channel that contains and isolates the three bus phases in individual chambers. Stackable modular sections are welded ultrasonically to the extrusion to build the Power bus 3 to any desired length.

## Power Bus Dimensions



## Amphenol Pcd Power Bus

### Single Tower End

| Output Sets | APCD P/N  | Length |
|-------------|-----------|--------|
| 5           | SSM300105 | 4.300  |
| 6           | SSM300106 | 5.175  |
| 7           | SSM300107 | 6.050  |
| 9           | SSM300108 | 6.925  |
| 9           | SSM300109 | 7.800  |
| 10          | SSM300110 | 8.675  |
| 11          | SSM300111 | 9.550  |
| 12          | SSM300112 | 10.425 |
| 13          | SSM300113 | 11.300 |
| 14          | SSM300114 | 12.175 |
| 15          | SSM300115 | 13.050 |
| 16          | SSM300116 | 13.925 |
| 17          | SSM300117 | 14.800 |
| 18          | SSM300118 | 15.675 |
| 19          | SSM300119 | 16.550 |
| 20          | SSM300120 | 17.425 |
| 21          | SSM300121 | 18.300 |
| 22          | SSM300122 | 19.175 |
| 23          | SSM300123 | 20.050 |
| 24          | SSM300124 | 20.925 |
| 25          | SSM300125 | 21.800 |
| 26          | SSM300126 | 22.675 |
| 27          | SSM300127 | 23.550 |
| 28          | SSM300128 | 24.425 |
| 29          | SSM300129 | 25.300 |
| 30          | SSM300130 | 26.175 |
| 31          | SSM300131 | 27.050 |
| 32          | SSM300132 | 27.925 |
| 33          | SSM300133 | 28.800 |
| 34          | SSM300134 | 29.675 |
| 35          | SSM300135 | 30.550 |
| 36          | SSM300136 | 31.425 |

### Double Tower End

| Output Sets | APCD P/N  | Length  |
|-------------|-----------|---------|
| 5           | SSM300205 | 5.175   |
| 6           | SSM300206 | 6.050   |
| 7           | SSM300207 | 6.925   |
| 9           | SSM300208 | 7.800   |
| 9           | SSM300209 | 8.675   |
| 10          | SSM300210 | 9.550   |
| 11          | SSM300211 | 10.425  |
| 12          | SSM300212 | 11.300  |
| 13          | SSM300213 | 12.175  |
| 14          | SSM300214 | 13.050  |
| 15          | SSM300215 | 13.925  |
| 16          | SSM300216 | 14.800  |
| 17          | SSM300217 | 15.675  |
| 18          | SSM300218 | 16.550  |
| 19          | SSM300219 | 17.425  |
| 20          | SSM300220 | 18.300  |
| 21          | SSM300221 | 1*9.175 |
| 22          | SSM300222 | 20.050  |
| 23          | SSM300223 | 20.925  |
| 24          | SSM300224 | 21.800  |
| 25          | SSM300225 | 22.675  |
| 26          | SSM300226 | 23.550  |
| 27          | SSM300227 | 24.425  |
| 28          | SSM300228 | 25.300  |
| 29          | SSM300229 | 26.175  |
| 30          | SSM300230 | 27.050  |
| 31          | SSM300231 | 27.925  |
| 32          | SSM300232 | 28.800  |
| 33          | SSM300233 | 29.675  |
| 34          | SSM300234 | 30.550  |
| 35          | SSM300235 | 31.425  |
| 36          | SSM300236 | 32.300  |

# Crimp Removable Socket Contacts

MIL-C-39029/5, MIL-C-39029/101

## Materials:

### Body:

Copper Alloy, Hard Gold  
Plated per MIL-G-45204

### Hood:

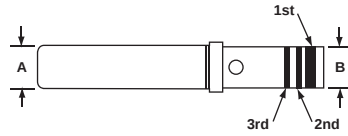
Stainless Steel Passivated

## Performance:

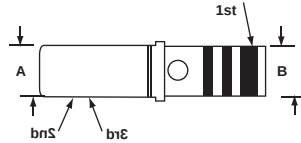
### Performance:

Performance in Accord with  
SAE-AS39209 and Related  
Specifications

M39029/5 Contact Dimensions



M39029/5 Contact Dimensions



## Contacts



### Contacts By Relay Socket

**M39029/5** Contacts Used with  
M12883/40, /41, /47, & /48 Relay Sockets

**M39029/101** Contacts Used with  
M12883/44, /45, /46, & /52 Relay Sockets

## Contact Design Characteristics

| Bin Code                   | Military P/N   | APCD P/N  | Pin Size | Wire Size | 1st                | 2nd   | 3rd    | A (Max) | B (Max) |
|----------------------------|----------------|-----------|----------|-----------|--------------------|-------|--------|---------|---------|
| <b>M39029/5 Contacts</b>   |                |           |          |           | <b>Color Bands</b> |       |        |         |         |
| 115                        | M39029/5-115   | CNS511500 | 20       | 20        | Brown              | Brown | Green  | .078    | .078    |
| 116                        | M39029/5-116   | CNS511600 | 16       | 16        | Brown              | Brown | Blue   | .113    | .103    |
| 117                        | M39029/5-117   | CNS511700 | 16       | 20        | Brown              | Brown | Violet | .113    | .078    |
| 118                        | M39029/5-118   | CNS511800 | 12       | 12        | Brown              | Brown | Gray   | .161    | .151    |
| 119                        | M39029/5-119   | CNS511900 | 12       | 16        | Brown              | Brown | White  | .161    | .103    |
| <b>M39029/101 Contacts</b> |                |           |          |           | <b>Color Bands</b> |       |        |         |         |
| 551                        | M39029/101-551 | CNS101551 | 22       | 28        | Green              | Green | Brown  | .060    | .048    |
| 552                        | M39029/101-552 | CNS101552 | 22       | 22        | Green              | Green | Red    | .060    | .048    |
| 553                        | M39029/101-553 | CNS101553 | 20       | 20        | Green              | Green | Orange | .076    | .070    |
| 554                        | M39029/101-554 | CNS101554 | 16       | 16        | Green              | Green | Yellow | .108    | .103    |

## Contact Installation Tooling

| Bin Code                   | Basic Crimping Tool                     | Positioner                                   | Installing Tool | Wired Contact Removal Tool |
|----------------------------|-----------------------------------------|----------------------------------------------|-----------------|----------------------------|
| <b>M39029/5 Contacts</b>   |                                         |                                              |                 |                            |
| 115                        | M22520/2-01, M22520/1-01 or M22520/7-01 | M22520/2-02, M22520/1-02 Red, or M22520/7-02 | M81969/14-02    | M81969/14-02               |
| 116                        | M22520/1-01, M22520/7-01                | M22520/1-02 Blue or M22520/7-03              | M81969/14-03    | M81969/14-03               |
| 117                        | M22520/1-01, M22520/7-01                | M22520/1-02 Blue or M22520/7-03              | M81969/14-02    | M81969/14-02               |
| 118                        | M22520/1-01                             | M22520/1-02 Yellow                           | M81969/14-04    | M81969/14-04               |
| 119                        | M22520/1-01                             | M22520/1-02 Yellow                           | M81969/14-03    | M81969/14-03               |
| <b>M39029/101 Contacts</b> |                                         |                                              |                 |                            |
| 551                        | M22520/7-01                             | M81969/7-11                                  | M81969/16-04    | M81969/16-04               |
| 552                        | M22520/7-01                             | M22520/7-11                                  | M81969/16-04    | M81969/16-04               |
| 553                        | M22520/7-01                             | M22520/7-12                                  | M81969/16-01    | M81969/16-01               |
| 554                        | M22520/7-01                             | M22520/7-13                                  | M81969/16-03    | M81969/16-02               |

Amphenol Pcd

## Contacts



### Contacts By Relay Socket

**M39029/1** Contacts Used with M81714 Series I, TJE, TJSE, TJHD, and TJM Modules

**M39029/22** Contacts Used with M81714/60, /61, /63, Series II Socket Junction Modules

# Crimp Removable Contacts

## MIL-C-39029/1, MIL-C-39029/22

### Materials:

#### Body:

Copper Alloy, Hard Gold Plated per MIL-G-45204

#### Hood:

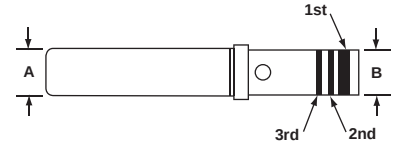
Stainless Steel Passivated

### Performance:

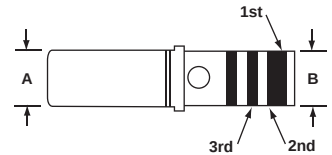
#### Performance:

Performance in Accord with SAE-AS39209 and Related Specifications

### M39029/1 Contact Dimensions



### M39029/22 Contact Dimensions



## Contact Design Characteristics

| Bin Code                  | Military P/N  | APCD P/N  | Pin Size | Wire Size | 1st                | 2nd   | 3rd    | A (Max) | B (Max) |
|---------------------------|---------------|-----------|----------|-----------|--------------------|-------|--------|---------|---------|
| <b>M39029/1 Contacts</b>  |               |           |          |           | <b>Color Bands</b> |       |        |         |         |
| 100                       | M39029/1-100  | CNS068000 | 16       | 22        | Brown              | Black | Black  | .062    | .051    |
| 101                       | M39029/1-101  | CNS060000 | 16       | 20        | Brown              | Black | Brown  | .063    | .078    |
| 102                       | M39029/1-102  | CNS037000 | 14       | 16        | Brown              | Black | Red    | .078    | .105    |
| 103                       | M39029/1-103  | CNS072000 | 12       | 12        | Brown              | Black | Orange | .095    | .153    |
| 507                       | M39029/1-507  | CNS022507 | 20       | 22D       | Green              | Black | Violet | .041    | .048    |
| <b>M39029/22 Contacts</b> |               |           |          |           | <b>Color Bands</b> |       |        |         |         |
| 191                       | M39029/22-191 | CNS113900 | 22       | 22        | Brown              | White | Brown  | .060    | .048    |
| 192                       | M39029/22-192 | CNS070900 | 20       | 20        | Brown              | White | Red    | .076    | .070    |
| 193                       | M39029/22-193 | CNS072900 | 16       | 16        | Brown              | White | Orange | .108    | .103    |
| 605                       | M39029/22-605 | CNS123900 | 12       | 12        | Blue               | Black | Green  | .168    | .152    |

## Contact Installation Tooling

| Bin Code                  | Basic Crimping Tool      | Positioner                   | Installing Tool                         | Wired Contact Removal Tool              |
|---------------------------|--------------------------|------------------------------|-----------------------------------------|-----------------------------------------|
| <b>M39029/1 Contacts</b>  |                          |                              |                                         |                                         |
| 100                       | M22520/2-01              | M22520/2-11                  | M81969/14-02                            | M81969/14-02                            |
| 101                       | M22520/1-01, M22520/2-01 | M22520/1-02 Red, M22520/2-11 | M81969/14-02                            | M81969/14-02                            |
| 102                       | M22520/1-01              | M22520/1-02 Blue             | M81969/14-03                            | M81969/14-03                            |
| 103                       | M22520/1-01              | M22520/1-02 Yellow           | M81969/14-04                            | M81969/14-04                            |
| 507                       | M22520/2-01              | M22520/2-32                  | M81969/14-01, or/1-04 or /8-01 or /8-02 | M81969/14-01, or/1-04 or /8-01 or /8-02 |
| <b>M39029/22 Contacts</b> |                          |                              |                                         |                                         |
| 191                       | M22520/7-01              | M81969/7-11                  | M81969/14-01                            | M81969/14-01                            |
| 192                       | M22520/7-01              | M22520/7-12                  | M81969/14-10                            | M81969/14-10                            |
| 193                       | M22520/7-01              | M22520/7-13                  | M81969/14-03                            | M81969/14-03                            |
| 605                       | M22520/1-01              | Daniels, TH343 or TP405      | M81969/16-03                            | M81969/16-03                            |

# Crimp Removable Socket Contacts

## MIL-C-39029/92

### Materials:

#### Body:

Copper Alloy, Hard Gold  
Plated per MIL-G-45204

#### Hood:

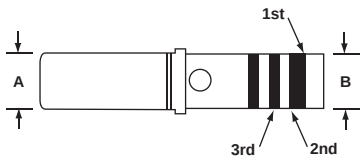
Stainless Steel Passivated

### Performance:

#### Performance:

Performance in Accord with  
MIL-C-39209 and Related  
Specifications

M39029/92 Contact Dimensions



### Contacts



### Contacts By Relay Socket

**M39029/92** Contacts Used with  
M12883/40, /41, /47, /48, /54, /55 Relay Sockets

### Contact Design Characteristics

| Bin Code                  | Military P/N   | APCD P/N  | Pin Size | Wire Size | 1st   | 2nd    | 3rd    | A (Max) | B (Max) |
|---------------------------|----------------|-----------|----------|-----------|-------|--------|--------|---------|---------|
| <b>M39029/92 Contacts</b> |                |           |          |           |       |        |        |         |         |
| 531                       | M392029/92-531 | CNS115900 | 22       | 22        | Green | Orange | Brown  | .062    | .053    |
| 532                       | M392029/92-532 | CNS074900 | 20       | 20        | Green | Orange | Red    | .078    | .078    |
| 533                       | M392029/92-533 | CNS126900 | 16       | 16        | Green | Orange | Orange | .113    | .103    |
| 534                       | M392029/92-534 | CNS127900 | 16       | 20        | Green | Orange | Yellow | .113    | .078    |
| 535                       | M392029/92-535 | CNS128900 | 12       | 12        | Green | Orange | Green  | .161    | .151    |
| 536                       | M392029/92-536 | CNS129900 | 12       | 16        | Green | Orange | Blue   | .161    | .103    |

### Contact Installation Tooling

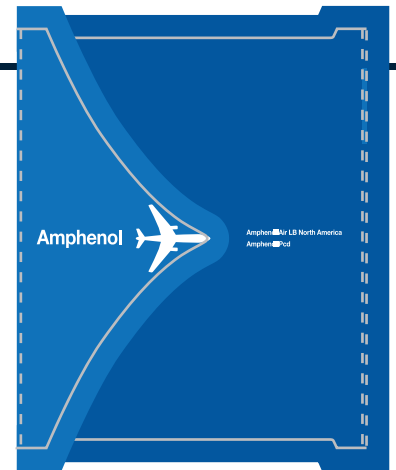
| Bin Code                  | Basic Crimping Tool                   | Positioner                                | Installing Tool     | Wired Contact Removal Tool |
|---------------------------|---------------------------------------|-------------------------------------------|---------------------|----------------------------|
| <b>M39029/92 Contacts</b> |                                       |                                           |                     |                            |
| 531                       | M22520/2-01                           | Daniels K1561                             | M81969/8-03, /14-01 | M81969/8-04, /14-01        |
| 532                       | M22520/1-01, M22520/2-01, M22520/7-01 | M22520/1-02 Red, M22520/2-02, M22520/7-02 | M81969/8-05, /14-02 | M81969/8-06, /14-02        |
| 533                       | M22520/1-01 or M22520/7-01            | M22520/1-02 Blue or M22520/7-03           | M81969/8-07, /14-03 | M81969/8-08, /14-03        |
| 534                       | M22520/1-01 or M22520/7-01            | M22520/1-02 Blue or M22520/7-03           | M81969/8-07, /14-03 | M81969/8-08, /14-03        |
| 535                       | M22520/1-01                           | M22520/1-02 Yellow                        | M81969/8-09, /14-04 | M81969/8-10, /14-04        |
| 536                       | M22520/1-01                           | M22520/1-02 Yellow                        | M81969/8-09, /14-04 | M81969/8-10, /14-04        |

# Amphenol Air LB NA

## Military & Aerospace System Attachments

### Amphenol Air LB NA

Amphenol Air LB NA has over 50 years experience in the design, development, and production of custom system attachments for the Aerospace, Military, Industrial, and Extreme Environment markets. Dedicated to LEAN Manufacturing, Amphenol Air LB NA prides itself on finding solutions to any inquiry from their customers in a cost effective and timely manner. Amphenol Air LB NA produces products designed to outperform existing metal components as well as allow a customer greater customization options and improved service. Air LB NA is always broadening its range of products and existing solutions include, over-molding technology, high performance polymer, and extensive range of plastic and nylon attachments. Amphenol Air LB NA's combinations of cost effectiveness, quick turnaround times, and customization options make it a leading producer of custom system attachments and they're drive to exceed customer expectations is what separates Air LB NA from other system attachment providers. A small sample of the capabilities that Amphenol Air LB NA offers is provided below, but customers inquiries are encouraged.



### Pipe Supports



Fairlead Blocks

Lightweight Monoblocs

Modular Assemblies

### Custom Molding Accessories



High Performance Standoffs

Lightening Bushings

Custom Attachments

Wire Protectors

### Cable Supports & Wiring Accessories



Raceways & Tie-Down Strips

Cable Support Clips

Cable Supports

Wire Separators

Standoffs

### Amphenol Air LB NA

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# Amphenol Socapex

## Military, Aerospace, and Industrial Connectors

### Amphenol Socapex

Amphenol Socapex is a French company belonging to Amphenol corporate group. Amphenol Socapex designs, manufactures and provides electrical and optical connectors and interconnection systems, ideally suited to harsh environment needs. Their key markets are mil-aero and industrial applications such as, C4ISR, commercial and military airframe, marine, ground vehicles, weapons and munitions, and space; but also: homeland security, machine tool, oil & gas, mining, railway, entertainment, and medical equipment. Please contact Amphenol Pcd for any inquiries regarding Amphenol Socapex products in North America.

### Field Series Rugged Connector Solutions

Amphenol Socapex Field Series Connectors are designed to allow an user to transform a standard infocom cord set into a rugged waterproof connector for harsh environments. The Field Series offers a full range of versions for a variety of applications, and are designed to reduce installation time and simplify installation and maintenance procedures. The Field Series Connectors are environmentally sealed to an IP67 rating, and provide resistance to shock, vibration, traction, as well as providing EMI protection. The Field Series Connectors also provide rugged solutions for USB, Firewire, and RJ11 connectors, as well as Ruggedized Ethernet Switches and accessories.



Rugged RJF45 Connectors



Rugged USB Connectors



Harsh Environment USB TV  
Memory Key



Rugged Ethernet and  
USB Cabling



Self Closing Caps

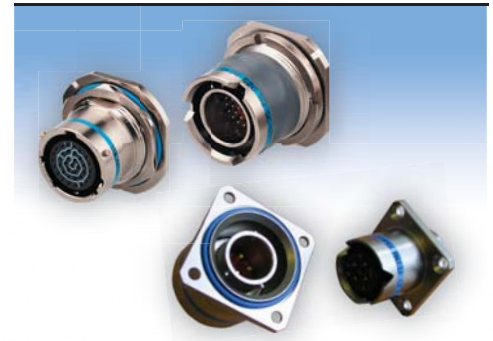


Rugged Ethernet  
Switches

### Amphenol Socapex

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### Amphenol Socapex Solutions



RNJ Heavy Duty Rack and Panel Connectors  
derived from MIL-38999 Series Connectors



Power Safe and SC39  
Snatch Release Connector  
derived from MIL-38999 Series Connectors



HDAS Board Level High Density Signal  
Connectors & HiLinX Board Level Modular  
M55302 Compatible Connectors

# Amphenol Pcd

# Amphenol Air LB

## Interconnect Systems

### Amphenol Air LB

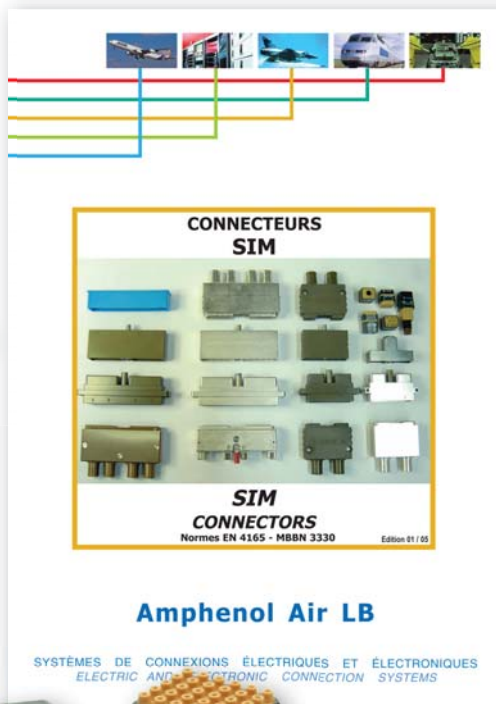
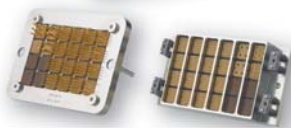
Part of Amphenol Corporation group of companies, Amphenol Air LB France is a 220 people company located in North-East of France, close to Belgian and Luxembourg borders. Aiming at "Operational Excellence", Amphenol Air LB France successfully combines its traditional "engineering culture" with a proactive "customer focus" attitude and can claim excellent performances in terms of Service, Quality and Logistics ("A" rated by customers last year). Specializing in new product development for harsh environments, Amphenol Air LB works in close cooperation with OEMs, system suppliers and subcontractors in order to develop innovative and custom designed interconnect solutions. We are structured to deliver worldwide. Please contact Amphenol Pcd for any inquiries regarding Amphenol Air LB products in North America.

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### Amphenol Air LB SIM Connector System

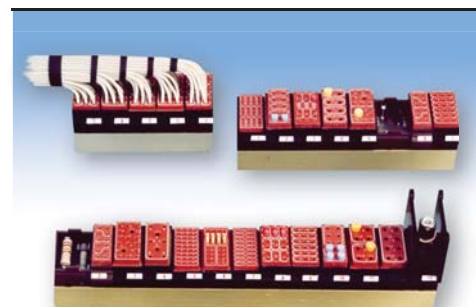
The SIM (Modular Interconnect System), is a modular, multi-contact, multifunctional rectangular connector. The connector is available in metallic or composite versions, as well as in shielded and unshielded versions. The SIM Connector uses over-molded SIM modules that are specifically designed to be environmentally sealed and are available in a wide variety of contact sizes. SIM Connectors are qualified to the European MIL-SPEC EN 4165, and are equivalent to a MIL-38999 Connector.



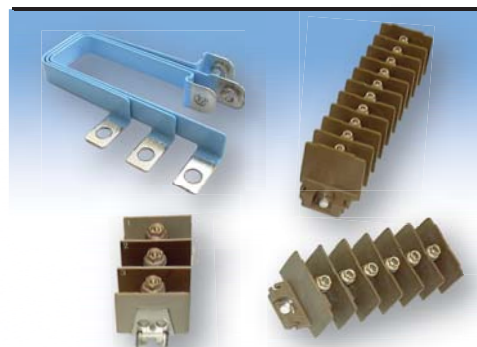
### Amphenol Air LB Solutions



### 1900 Series Rectangular Connectors



### European Specification Junction Modules



### Terminal Block and Aluminum Bus Bars



### European Specification Relay Sockets

## Amphenol Pcd



# Amphenol Air LB

## Electronic Connection Systems

### Amphenol Air LB Push-Pull Connectors for Interiors and IFE Systems

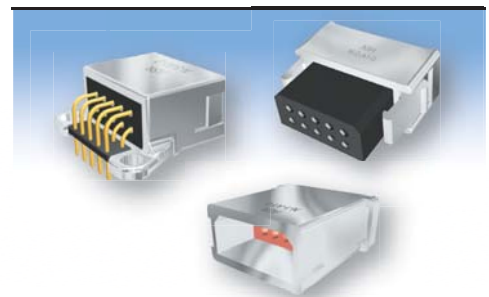
Amphenol Air LB offers a variety of Push-Pull connectors in variety of styles, wire sizes, and configurations. Series 3559 Push-Pull connectors are fully compatible with Air LB SIM modules allowing for flexibility in wiring applications. Amphenol Air LB also recently designed their new ARINC 809 connector, which has shielding capabilities along with the push-pull design.



### Amphenol Air LB Solutions



ARINC 809 Connector



ASR Snap Rectangular Connector

## Amphenol Air LB GmbH

Amphenol-Air LB is a name that connects innovative development and precise manufacture with high quality. As an internationally established enterprise, AALB is globally operating as part of the Amphenol group. Whether in Western or Eastern Europe, China, USA or India – we are creating reliable connections. Amphenol Air LB GmbH business activities include passive components as particularly flexible plug-in connectors in all variants as well as application-specific special developments, fibre optics and system solutions. Amphenol Air LB GmbH is a leading provider in the field of plug-in connectors for the aircraft industry and in the fields of military technology, diagnosis, automotive, and Industrial Ethernet Connectors.

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### Amphenol Air LB NA GmbH ECTA 133 Connector

The ECTA 133 Connector is equipped with a rugged design, convenient push-pull operation, wide range of contact sizes and high contact densities and was designed for industrial applications. It provides an ideal component to use in a wide range of applications, including robotics, laboratory test equipment, the transportation industry (automobile, trucks and railway) and tool interconnection.

Series 1331: power transmission connector (to 125 A) equipped with lead ground contact (and pilot contacts for the arrangement 605 for 100 A current and 706 for 125 A current).

Series 1332: signal transmission connector (to 25 A) for data or signal transmission. The current ratings of the contacts also permit the connector to be used for low power transmission.

A fiber optic version is available on request, and overmolded cables as well as customer specific arrangements are available in large quantity applications.

### Amphenol Air LB GmbH Solutions



ECTA 544 Composite Connectors

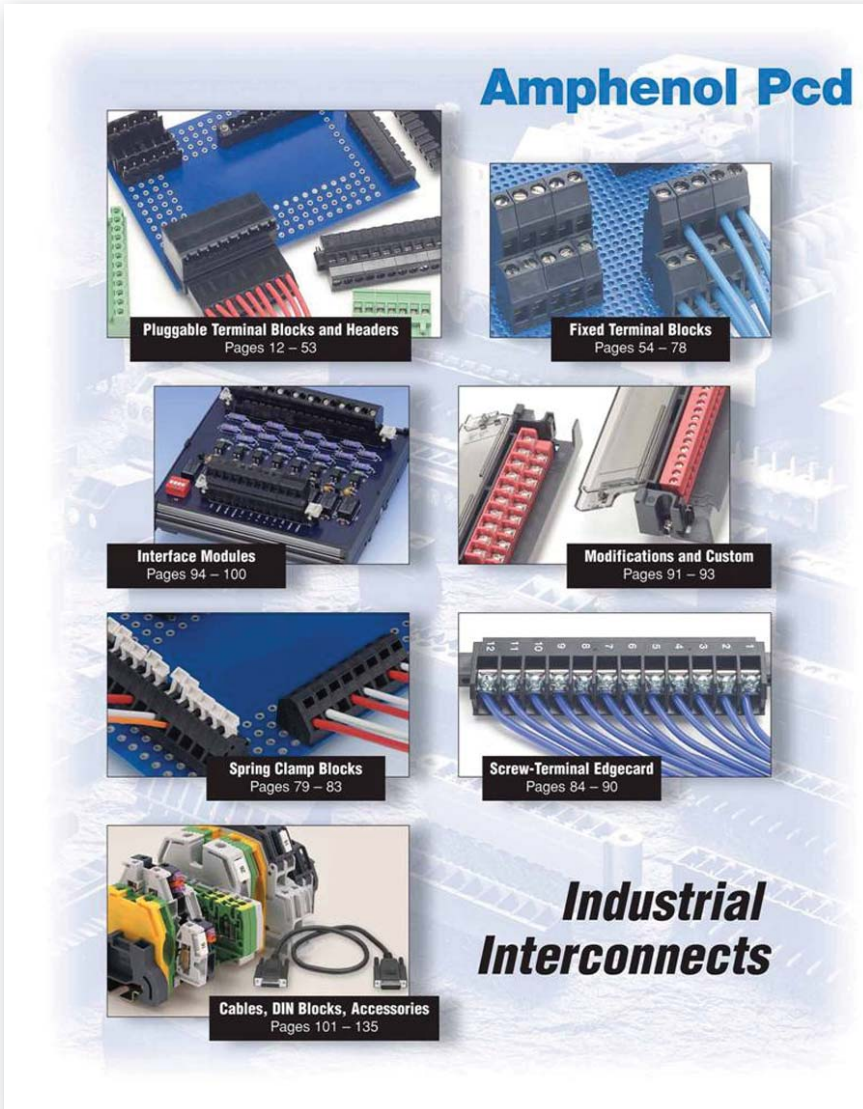


ECTA 133 Connectors

# Amphenol Pcd

### Amphenol Pcd Industrial Solutions

Continuing Amphenol Pcd Product Development has led to a broad and expanding range of standard connector families specifically aimed at the discrete wire terminations and interconnection requirements of the industrial electronics market, plus related applications.



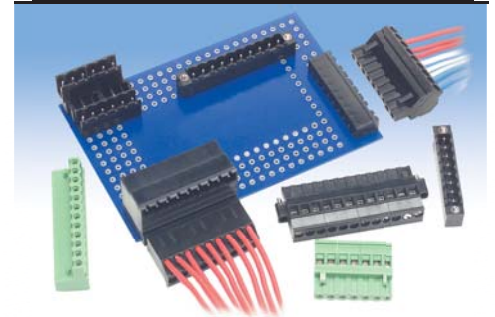
Amphenol Pcd provides industrial solutions for all wiring applications, encompassing power levels from signal to 300A, and wire gauges from 24 AWG to 4/0. Amphenol Pcd provides a variety of options to meet the needs of all customers including:

- PC Board and DIN-Rail Mount versatility
- Screw-Clamp, Spring Clamp, Bolt and IDC wire termination options
- Pluggable models with up to 40 I/O points and Fixed models with limitless I/O Points
- Ethernet and multiple easy-wiring interfaces

For any inquiries regarding Amphenol Pcd Industrial products please contact [info@amphenolpcd.com](mailto:info@amphenolpcd.com)

### Amphenol Industrial Solutions

#### Printed Circuit Board Terminal Blocks



Amphenol Pcd offers a broad range of pluggable European style screw and spring clamp and FlexiPlug® U.S. style screw clamp terminal blocks and headers for discrete wire-to-PCB applications. The terminal blocks are available in spacing ranging from high density .100"/2.54 mm to .591"/15.0 mm for power applications, and in numerous configurations. Custom configurations and systems also available.

#### Custom I/O Connectors



Amphenol Pcd provides application specific custom interconnect systems and connectors that allow the customer to incorporate unique technology and distinctive I/O features and appearance into their equipment, while drawing on responsive Amphenol system and interconnect expertise.



# Amphenol Pcd

## Industrial Interconnect Solutions

### Amphenol Pcd Industrial Inside the Box

Amphenol provides the system interconnect products, services, international organization, instant engineering assistance and franchised distributor support to function as a customer's primary packaging, interconnection and cabling source for a broad range of industrial OEM applications. These applications include instrumentation, process control, telecommunications, medical, automation, and system integration electronic packages.

## Inside the Box

### Electronic Packaging Solutions for Industrial Applications



## Amphenol

### Custom Integrated Solutions

Amphenol is dedicated to working with our customers in an engineer to engineer effort focused on customized system development. Amphenol is dedicated to providing its customers with rapid, well-engineered, cost-effective, total solutions.

For any inquiries regarding Amphenol Pcd Industrial products please contact [info@amphenolpcd.com](mailto:info@amphenolpcd.com)

### Amphenol Industrial Solutions

#### DIN Rail Mount Terminal Blocks



Modular DIN blocks are available in a wide variety of sizes, ratings, colors, and models. The variations include screw-clamp, spring-clamp, and bolt termination, as well as single and multi-wire fuse, disconnect switch, ground, and thermocouple options.

#### Interface Modules



Interface Modules expand traditional block I/O functions by incorporating high-density blocks and connectors and electronic components into a rail-mounted PCB assembly which replaces DIN-rail blocks, reduces installation cost, and increases reliability for systems integration.

# Amphenol Pcd



# Amphenol Limited

## Military and Industrial Connectors

### Amphenol Limited

Amphenol Limited is an innovative and leading edge manufacturer of both connectors and interconnect systems for applications within the Mil-Aero, Telecom, and Industrial markets. Amphenol Limited products cover technologies within both fibre optic and copper products. Specific recent solutions incorporate signal conditioning, electro-optic transceivers and line protection units. Cabled systems utilize overmolding and open loom manufacture of both copper and fibre products. Amphenol Limited specializes in Military and Avionics, RF connectors, Filter/EMP products, Fibre Optics, Cable Assembly and Hermetics products and is ISO 9001 rated. Any inquiries regarding Amphenol Limited products in North America should be directed to Amphenol Pcd.

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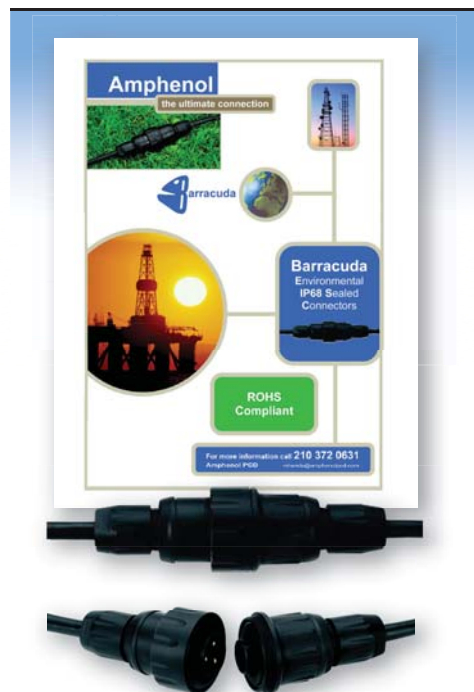
### Amphenol Limited SCE Series Interconnect Solutions

Amphenol Limited SCE is a miniature connector with a silent push to mate and pull to release design across two styles of cable receptacles. All inserts and contacts are moulded in place, achieving high environmental sealing to IP68. The metalwork is machined from brass, giving an increased number of mating cycles over traditional aluminium connectors. The snatch push pull design is fully grounded and cannot be locked when mated, as the cable receptacle has no moving parts, thus eliminating the path for the ingress of moisture and dust to the interface. The SCE Series features a coupling mechanism the locks the connectors together, ensuring that they cannot be inadvertently de-mated. Amphenol offers full cable harness solutions with overmolding capabilities or, where preferred, a heat shrink boot can be used.

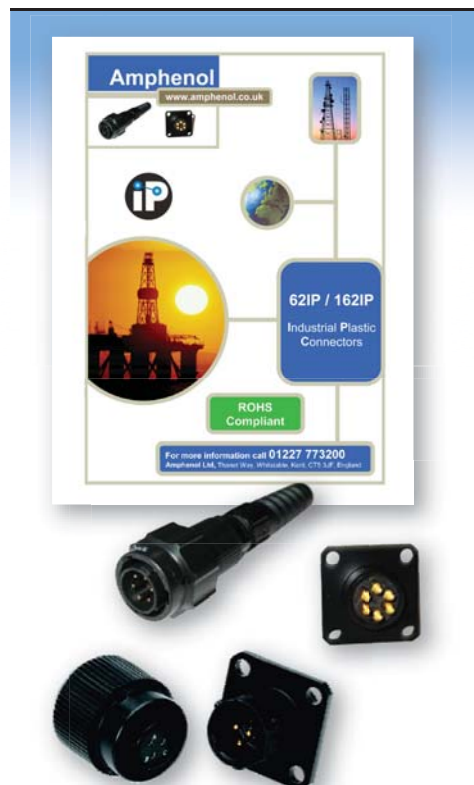


### Amphenol Limited Solutions

#### Barracuda IP68 Sealed Connectors



#### 62IP / 162IP Industrial Plastic Connectors



# Amphenol

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