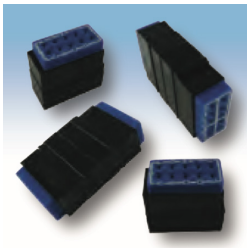
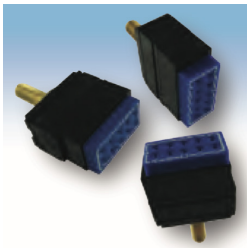
# SERIES I TERMINAL JUNCTION MODULES

Amphenol Pcd



**Feedback, Feedthrough & Bussing Modules**

**Electronic Modules**



**Ground Modules**

**Single & Dual In-Line Splices & Electronic Splices**

**Mounting Tracks**

Series I Terminal Junction Modules are robust, reliable and performs to M81714 electrical and mechanical standards. Offered in various types and configurations: Feedback/Feedthrough, Electronic, In-Line Splice, and Ground, Series I Terminal Junction Modules use standard M39029/1 pin contacts. Mounting rail and installation/termination accessories are available and customization is always an option.

## Features & Benefits

Performs to M81714 electrical and mechanical standards

**M39029/1 Contacts**
Meets Mil-C-39029 standards

**Integral Socket/Bus Bar**
Assures electrical and mechanical integrity over long product life

**Integral Contacts**
High conductivity allow for optimum electrical performance

**Split socket design**
Provides peripheral surface wipe and contact, uses the maximum mating surfaces of pin and contact

**Multiple product types**
Wide range of products, four standard sizes, accommodates 12-26 AWG wires

**Class D Module System**
Combines max high temperature and high fluid resistance performance parameters previously divided among three module classes- A, B, C

**Electronic Systems**
Modules can be supplied with a variety of diode, resistors, capacitors, and fuses

**Class 3B Silicone Sealant**
Tear and flex resistant silicone

**Ultrasonic Bonding & Proprietary Epoxy**
No bond lines and ultrasonic fusing means few voids, longer field life

## Non QPL Coverage

| | | |
|---|---|---|
| TJM | Size 12, 16, 20 | M81714 Style /1, /2, /3, /4, /6, /7, /8, /9 |
| TJE | Size 12, 16, 20 Electronic | Performs to M81714/26, /25 electrical and mechanical standards |
| TJHD | Size 22 Electronic | M81714 Style /17 |
| TJT | Tracks | M81714 Style /5, /10, /16 (light weight) |
| TJF | Flange Ground | Performs to M81714/28 electrical and mechanical standards |
| TJG | Stud Ground | Performs to M81714/27 electrical and mechanical standards |
| TJS | Single & Double Splices | M81714 Style /11, /12 |
| TJSE | Electronic Splices | M81714 Style /21, /23, /24 |

* Electronic coverage includes: Resistors, capacitors, fuses and diodes

# SERIES I TERMINAL JUNCTION MODULES

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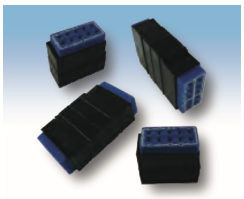
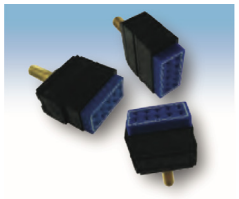


**Feedback, Feedthrough & Bussing Modules**
TJM and TJHD modules offer a lightweight junction system with a full range of bussing arrangements and contact sizes. TJM and TJHD modules perform to M81714 electrical and mechanical standards.

**Electronic Modules**
TJE electronic modules offer a wide variety of diodes, resistors, capacitors and fuses in a Series I form factor. TJE modules perform to M81714 electrical and mechanical standards. Many variations are available, and custom options are always available.

**In-Line Splices**
M81714 Style Splices/Electronic Splices designed to provide a quick and efficient solution to application design wiring requirements and are highly resistant to temperature and fluids. Supplied with a wide variety of diodes, resistors, capacitors, and fuses. Amphenol's electronic solutions allow customers to incorporate system modifications into a wire bundle, avoiding changes in panels or boards.



**Grounding Modules**
Multi-contact grounding/bus connection modules are provided with an integral threaded grounding stud or flange. The stud and flange is electrically and mechanically common to all internal contacts of the module. Ground modules perform to M81714/27 electrical and mechanical standards.

**Module Mounting Tracks & Brackets**
One track holds all module sizes with STD, lightweight & feed through types available. Each track unit consists of an aluminum alloy track and anodized black locking clamp. The stainless steel clamp screw is self locking to meet vibration, shock and temperature variation requirements. /29 mounting brackets also available.

## Materials & Specifications

| | |
|---|---|
| Materials | Insulator Body: Polyetherimide, black |
| | Grommet: Silicone elastomer, blue |
| | Contact Retainer: Stainless Steel |
| Temperature Range | -65˚C to 200˚C |
| Insulation Resistance | >5000 MΩ Per AS81714, para. 3.5.11 |
| Dielectric Withstanding | 1500 Vrms @ Sea Level |
| | 200 Vrms @ 100,000 ft. altitude |
| Current Ratings | Size 22/22: 5 Amps |
| | Size 20/20: 7.5 Amps |
| | Size 16/16: 13 Amps |
| | Size 12/12: 23 Amps |
| Vibration | Per AS81714, para. 3.5.8 |
| Shock | Per AS81714, para. 3.5.9 |

## NEW Electronic Splices

| | |
|---|---|
| M81714 Style /21 | Inline Diodes |
| M81714 Style /23 | Inline Fuses |

M39029/1 Contacts

| | |
|---|---|
| M39029/1-100 | Size 22 |
| M39029/1-101 | Size 20 |

Available Immediately!

# SERIES II SOCKET JUNCTION MODULES

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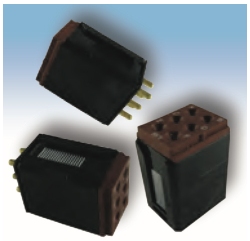
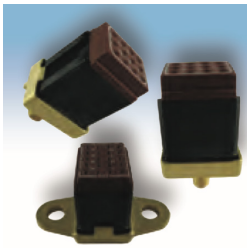
Feedback, Feedthrough & Bussing Modules

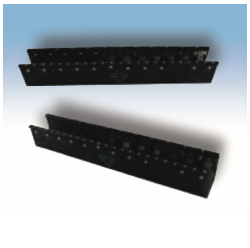


Board Mount Modules



Ground Modules

Sealed Splices



Mounting Tracks

Series II Socket Junction Modules are robust, reliable and performs to M81714 electrical and mechanical standards. Offered in various types and configurations: Feedback/Feedthrough, Electronic, In-Line Splice, and Ground, Series II Socket Junction Modules Series II uses M39029/22 socket contacts pin contacts. Mounting rail and installation/termination accessories are available and customization is always an option.

## Features & Benefits

Performs to M81714 electrical and mechanical standards

**M39029/22 Contacts**
Meets Mil-C-39029 standards

**Integral Socket/Bus Bar**
Assures electrical and mechanical integrity over long product life

**Integral Contacts**
High conductivity allow for optimum electrical performance

**Split socket design**
Provides peripheral surface wipe and contact, uses the maximum mating surfaces of pin and contact

**Multiple product types**
Wide range of products, four standard sizes, accommodates 12-26 AWG wires

**Class D Module System**
Combines max high temperature and high fluid resistance performance parameters previously divided among three module classes- A, B, C

**Electronic Systems**
Modules can be supplied with a variety of diode, resistors, capacitors, and fuses

**Class 3B Silicone Sealant**
Tear and flex resistant silicone

**Ultrasonic Bonding & Proprietary Epoxy**
No bond lines and ultrasonic fusing means few voids, longer field life

## Non QPL Coverage

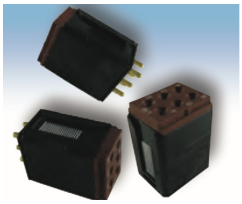
| | | |
|---|---|---|
| SJM | Modules | M81714 Style /61 |
| SJE | Electronics | Performs to M81714 /62 electrical and mechanical standards |
| SJT | Metal Track | M81714 Style /67 |
| SJTC | Composite Track | Performs to M81714 /67 electrical and mechanical standards |
| SJG | Ground Modules | M81714 Style /63 |
| SJS | Single & Double Splices | M81714 Style /65 |
| SJP | Board Mount | Performs to M81714 electrical and mechanical standards |

* Electronic coverage includes: Resistors, capacitors, fuses and diodes

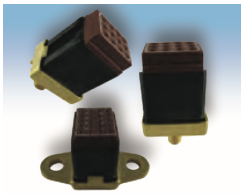
# SERIES II SOCKET JUNCTION MODULES

Amphenol Pcd

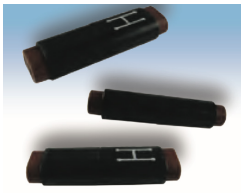
**Feedback, Feedthrough & Bussing Modules**
SJM feedback modules offer a lightweight junction system with a full range of bussing arrangements and contact sizes. SJM modules perform to M81714/60, /61 electrical and mechanical standards.



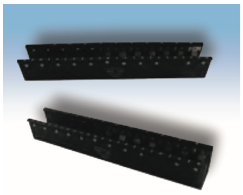
**Electronic Modules**
SJE electronic modules offer a wide variety of diodes, resistors, capacitors and fuses in a Series II form factor. TJE modules perform to M81714 electrical and mechanical standards and have many /62 equivalents. Many variations are available, and custom options are always available.



**In-Line Splices**
M81714 Style Splices/Electronic Splices designed to provide a quick and efficient solution to application design wiring requirements and are highly resistant to temperature and fluids. Supplied with a wide variety of diodes, resistors, capacitors, and fuses. Amphenol's electronic solutions allow customers to incorporate system modifications into a wire bundle, avoiding changes in panels or boards.



**Grounding Modules**
M81714 Style /63, flange and socket grounding modules mount directly to a ground plane or grounding stud 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 configuration are available. The mounting stud is available in gold or tine plating. Flange and stud units perform to M81714/63 electrical and mechanical standards.



**Mounting Tracks**
Series II aluminum mounting tracks perform to M81714/67 electrical and mechanical standards and can accommodate up to 40 modules. Composite mounting tracks are approximately 45% lighter than the aluminum and can accommodate up to 20 modules.

## Materials & Specifications

| | |
|---|---|
| Materials | Insulator Body: Polyetherimide, black |
| | Grommet: Silicone elastomer, blue |
| | Contact Retainer: Stainless Steel |
| Temperature Range | -65°C to 200°C |
| Insulation Resistance | >5000 MΩ Per AS81714, para. 3.5.11 |
| Dielectric Withstanding | 1500 Vrms @ Sea Level |
| | 200 Vrms @ 100,000 ft. altitude |
| Current Ratings | Size 22/22: 5 Amps |
| | Size 20/20: 7.5 Amps |
| | Size 16/16: 13 Amps |
| | Size 12/12: 23 Amps |
| Vibration | Per AS81714, para. 3.5.8 |
| Shock | Per AS81714, para. 3.5.9 |

# Mouser Electronics

Authorized Distributor

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