Designed and qualified to MIL-T-81714, Amphenol PCD’s Series I Terminal Junction Modules are robust, reliable, and always perform to highest standards. Amphenol PCD offerings cover the full SAE-AS81714 range of configurations – Feedback/Feedthrough, Electronic, In-Line Splice, Electronic Splice, and Ground. They use standard M39029/1 pin contacts and accommodate 12-26 AWG wires. Mounting rail and installation/termination accessories are available, and customization is always an option.

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 meet M81714 requirements, and are QPL approved.

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 specifications. Many variations are available, and custom options are always available.

In-Line Splices
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.

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. The modules are dimensional identical to the equivalent MIL-T-81714/27 grounding stud modules.

Electronic Splices
TJSE electronic splices can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electronical parameters of MIL-T-81714/21 /23 /24 and allow customers to incorporate system modifications into a wire bundle, avoiding expensive changes in panels and wire harnesses themselves.

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.
Features & Benefits

**SAE-AS81714 & MIL-T-81714**
Approved Meets high quality standards

**AS39029/1 Type Contacts**
Meets military specification AS39029

**Integral Bus Bar**
Assures electrical and mechanical integrity over long product life
Fewer solder joints for more reliable and repeatable electrical operation

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

**Split Socket Design**
Provides peripheral surface wipe and contact
Maximizes mating surfaces of pin and contact

**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 Meets electronic parameters of MIL-T-81714/24/25/26

Class 3B Silicone Sealant
Tear and flex resistant silicone

Ultrasonic Bonding + Proprietary Epoxy
No bond lines and ultrasonic fusing means few voids, long field life

Product Availability
Largest QPL availability in the industry
Non-QPL variants and custom modules

Technical Specifications

**Materials**
- **Insulator Body:** Polyetherimide, color: black
- **Grommet:** Silicone elastomer, color: blue
- **Contacts:** Copper alloy, gold plated
- **Contact Retainers:** Stainless steel

**Performance**
- **Temperature Range:** -65°C to 200°C
- **Insulation Resistance:**
  >5000 megohms
- **AS81714, para 3.5.1**
- **Dielectric Withstanding Voltage:**
  1500Vrms @ sea level
  200Vrms @ 100,000 ft altitude
- **AS81714-para 3.5.6**
- **Current Ratings (By Contact Size):**
  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
- **Mechanical Shock:** Per AS81714, para. 3.5.9

QPL & Non-QPL Coverage

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>TJM</strong></td>
<td>Szs 12/16/20</td>
<td>M81714/1, /2, /3, /4, /6, /8, /9</td>
</tr>
<tr>
<td><strong>TJE</strong></td>
<td>Szs 12/16/20 Electronic</td>
<td>performs to M81714/26, /25 (non-QPL)</td>
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<tr>
<td><strong>TJHD</strong></td>
<td>Sz 22 Electronic</td>
<td>M81714/17</td>
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<td><strong>TJT</strong></td>
<td>Tracks</td>
<td>M81714/5, /10, /16 (light weight)</td>
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<tr>
<td><strong>TJF</strong></td>
<td>Flange Ground</td>
<td>performs to M81714/28 (non-QPL)</td>
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<tr>
<td><strong>TJG</strong></td>
<td>Stud Ground</td>
<td>performs to M81714/27 (non-QPL)</td>
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<tr>
<td><strong>TJS</strong></td>
<td>Splices- Single &amp; Dbl</td>
<td>M81714/11, /12</td>
</tr>
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<td><strong>TJSE</strong></td>
<td>Electronic Splices</td>
<td>M81714/21, /23, /24 (24 non-QPL)</td>
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AVAILABLE IMMEDIATELY

**NEW**

**Series I Electronic Splice**
- MB81714/21 Inline Diodes
- MB81714/23 Inline Fuses

Class D, QPL certified to SAE-AS81714 Use MilStd Pin Contacts
- M39029/1-100 size 22
- M39029/1-101 size 20

Reliable & Proven Tried & True – Technology you can trust