

Terminal Junction Modules: SAE-AS81714 & MIL-T-81714 Series I



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.

Features and Benefits

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

AS39029/1 Pin Type Contacts
Meets military specification AS39029

Integral Socket/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, longer field life

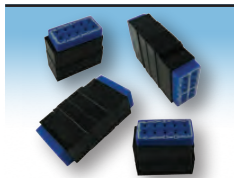
Product Availability
Largest QPL availability in the industry
Non-QPL variants and custom modules

QPL & non QPL Coverage

TJM	Sz 12/16/20	M81714/1, /2, /3, /4, /6, /7, /8, /9
TJE	Sz 12/16/20 Electronic	performs to M81714/26, /25 (non-QPL)
TJHD	Sz 22 Electronic	M81714/17
TJT	Tracks	M81714/5, /10, /16 (light weight)
TJF	Flange Ground	performs to M81714/28 (non-QPL)
TJG	Stud Ground	performs to M81714/27 (non-QPL)
TJS	Splices- Single & Dbl	M81714/11, /12
TJSE	Electronic Splices	M81714/21, /23, /24 (/24 non-QPL)

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

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Feedback,
Feedthrough &
Bussing Modules

Feedback, Feedthrough & Bussing Modules

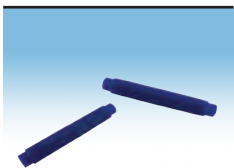
TJM and TJHD modules offer a lightweight junction system with a full range of bussing arrangements and contact sizes. TJM and TJHD modules meet M81714 requirements, and are QPL approved.



Electronic Modules

Electronic Modules

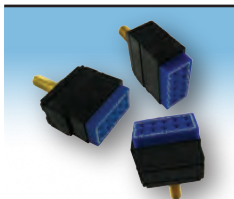
TJE electronic modules offer a wide variety of diodes, resistors, capacitors and fuses in a Series I form factor. TJE modules perform to M81714 specifications. Many variations are available, and custom options are always available.



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

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.



Ground Modules

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

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 electrical 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.



Mounting Tracks

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.

NEW Electronic Splices

M81714/21	Inline Diodes
M81714/23	Inline Fuses

Class D, QPL certified to SAE-AS81714
Use MilStd Pin Contacts

M39029/1-100 size 22
M39029/1-101 size 20

Available Immediately!



Reliable & Proven Tried & True –
Technology you can trust

Technical Specifications

Materials:

Insulator Body: Polyetherimide, color: black

Grommet: Silicone elastomer, color: blue

Internal Contacts: Copper alloy, gold plated

Contact Retainers: Stainless steel

Performance:

Temperature Range: -65° C to 200° C

Insulation Resistance: >5000 megohms
Per AS81714 para 3.5.11

Dielectric Withstanding Voltage:

1500Vrms @ sea level

200Vrms @ 100,000 ft altitude

Per 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