Amphenol Pcd expands the SJS family with a line of environmentally sealed In-Line Junction Splices developed to bring higher reliability, improved installation ease, and greater flexibility to wiring applications.

These In-Line Junctions consist of compact, cylindrical plug and receptacle housings, which lock firmly together with a straight push and unlock with either a simple “twist and pull” (single contact) or “squeeze and pull” (triple contact) motion.

### Features & Benefits

- Developed to meet MIL-T-81714 criteria
- Interfacial seal and triple barrier rear seal provide complete environmental sealing
- Quick disconnect capability streamlines wire maintenance
- Rugged polyamide housings
- Single wire styles offered in two colors per size allowing for immediate wire recognition
- Triple wire styles offer three color-coded keying options
- Protective dust cover available
- Polarization feature enables blind, fool-proof mating
- Uses standard Military Specification MIL-C-39029 contacts
- Low profile wire bundling

### Single Wire Junction

Single wire junctions have a housing diameter of .390” and .430” and are available in two colors per size. These junctions feature an environmental sealing that meets EIA-364D-03B to 12,000ft Altitude Immersion Test standards. To mate plug and receptacle push both sides together and “twist and pull” to release.

### Triple Wire Junction

Triple wire junctions are environmentally sealed and have a .700” diameter housing. These housings feature molded-in polarizing keys providing three distinct configuration choices and offer color coding in red, white and blue. To mate plug and receptacle push together to lock and “squeeze and pull” finger grips on plug to release.

### Customer Specific Customization

Amphenol Pcd welcomes inquiries for application specific modifications to the standard In-Line Junction series. The Environmentally Sealed In-Line Junction product series is continuously expanding to meet current and future customer needs. Application specific customization includes:

- Varied Wire Gauges
  - Custom Colors
  - Unique Markings
- High Power
  - Electronic Packaging
  - Increased Pin Count
- Alternate Contacts
  - Distinct Configurations
  - Other Needed Alterations
### ENVIRONMENTALLY SEALED IN-LINE JUNCTIONS

#### In-Line Junction Plugs

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### TECHNICAL SPECIFICATIONS

**MATERIALS**
- **Insulator Body:** Polyamide (Nylon)
- **Grommet:** Silicone Rubber
- **Contacts:** Plugs - M39029/56
- **Contacts:** Receptacles - M39029/58
- **Contact Retainers:** Stainless Steel

**PERFORMANCE**
- **Temperature Range:** -65°C to 160°C
- **Insulation Resistance:** > 5000 Megohms
- **Dielectric Withstanding:** 1500Vrms @ Sea Level
- **Voltage:** 600Vrms @ 45,000 ft. Altitude
- **Current Ratings:** Contact Size 20 - 7.5 Amps
- **Current Ratings:** Contact Size 16 - 13 Amps
- **Sealing:** EIA-364D-03B (12,000 ft.)
- **Vibration:** EIA-364D-28D (Test Condition V, E)
- **Flammability Rating:** UL94, V0.
- **CTI Rating:** UL746B, 600V
- **Contact Retention:** EIA-364D-29B (20 lb.)

**Contacts**
Contacts are not provided with the In-Line Junctions and must be ordered separately. Three pin and socket sets are required per triple wire junction and one pair per single.

**Size 16 Plugs**
- M39029/56-352 (socket)
**Size 20 Plugs**
- M39029/56-351 (socket)
**Size 16 Receptacles**
- M39029/58-364 (pin)
**Size 20 Receptacles**
- M39029/58-363 (pin)

**Termination Accessories**
Crimp Tool for contacts and Insertion/Removal tool details

**Wire Gauge**
- **Size 16:** M22520/1-01
- **Size 20:** M22520/1-01

**Crimp Tool**
- **Basic Tool**
- **Positioner**
- **Insertion/Removal Tool**

**Installation**
- **Size 16:** M22520/1-04 BLUE
- **Size 20:** M22520/1-04 RED

**Electronic Component Splices**
Available with a variety of diodes, fuses, capacitors or resistors. Designed to meet MIL-T-81714 environmental requirements.

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**Amphenol Pcd ~ www.amphenolpcd.com ~ 1.800.333.4723 ~ info@amphenolpcd.com**

Sept. 06 Revision E
Introducing the NEW 8-Pin QuickConnect™

Designed for lean manufacturing, the 8-Pin QuickConnect™ is the latest addition to the SJS QuickConnect series from Amphenol Pcd. It was developed to bring higher reliability and flexibility to wiring applications and to make installation and maintenance easier.

Benefits at a Glance
(entire SJS QuickConnect™ series)

- **MIL-T-81714**
  Developed to meet MIL-T-81714 criteria.

- **Quick, Simple Connection**
  Makes wire installation and maintenance simple and efficient.

- **Environmental Sealing**
  Interfacial and triple-barrier rear seal provide complete environmental sealing.

- **MIL-C-39029**
  Uses standard MIL-C-39029 contacts.

- **Durability**
  Rugged polyamide housings.

- **Blind-Mate Connection**
  Polarization feature enables blind, foolproof mating.

Amphenol Pcd  www.amphenolpcd.com  email: quickconnect@amphenolpcd.com  978-624-3400
8-Pin QuickConnect™

Product Description

8-Pin QuickConnect™:
The new 8-Pin QuickConnect, the latest product in the SJS QuickConnect series, was developed to bring higher reliability and flexibility to wiring applications. Designed to meet MIL-T-81714 criteria, the product, with no tools necessary, is simple to install and easy to maintain. It features a locking mechanism that ensures mating stability and a high density contact area that allows for a variety of power and data applications—all within a small, lightweight envelope.

To Connect:
1. On plug, line up circle and triangle.
2. Align circles on plug and receptacle.
3. Gently push together and “twist” to lock.

Plug description

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<th>Part No.</th>
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<th>Diameter</th>
<th>Mated Length</th>
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Receptacle description

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For new contact arrangements, contact us.
Product Description

Single-Pin QuickConnect™:
Developed to meet MIL-T-81714 criteria and available in two colors per size, these products feature an environmental sealing that meets EIA-364D-03B to 12,000 ft. Altitude Immersion Test standard. Mating and releasing the plug and receptacle is made simple to do. Simply push the part together to mate, and “twist and pull” to release.

Triple-Pin QuickConnect™:
Developed to meet MIL-T-81714 criteria and available in three colors, these products feature molded-in polarizing keys to enable blind-mate connections. Simply push the part together to mate and lock, and “squeeze and pull” to release.

Plug descriptions

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<th>Size</th>
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Receptacle descriptions

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TECHNICAL SPECIFICATIONS

MATERIALS
- Insulator Body: Polyamide 6/6 (Nylon)
- Grommet: Silicone Rubber
- Contact Retainers: Stainless Steel

PERFORMANCE
- Temperature Range: -65°C to +125°C
- Insulation Resistance: > 5000 Megaohms Min.
- Dielectric Withstanding: 1500Vrms @ Sea Level
- Voltage: 600Vrms @ 45,000 Ft. Altitude

CONTACTS

Plug
- Size 12: M39029/56-353 (socket)
- Size 16: M39029/56-352 (socket)
- Size 20: M39029/56-351 (socket)

Receptacle
- Size 12: M39029/56-385 (pin)
- Size 16: M39029/56-384 (pin)
- Size 20: M39029/56-383 (pin)

CONTACTS

Plug
- Size 12: M39029/56-383 (socket)
- Size 16: M39029/56-382 (socket)
- Size 20: M39029/56-381 (socket)

Receptacle
- Size 12: M39029/56-385 (pin)
- Size 16: M39029/56-384 (pin)
- Size 20: M39029/56-383 (pin)

(Contacts must be ordered separately. Three pin and socket sets are required per triple QuickConnect and one pair per single.)

TERMINATION ACCESSORIES

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<th>Installation/Removal Tool</th>
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Amphenol Pcd www.amphenolpcd.com email: quickconnect@amphenolpcd.com 978-624-3400
Related Products from Amphenol Pcd

Junction Modules

MIL-T-81714 Series I
Track-mounted Terminal Junction Modules with multiple bussing and electronic package options.

MIL-T-81714 Series II
High Density, low weight, environmentally sealed Socket Junction Module with lightweight composite track.

Related Products from Amphenol Pcd

Wire Splices

Inline Splices
Single and Multi-Contact Inline Wire Splices to MIL-T-817814 Series I and II.

Electronic Splices
Electronic Component Splices available with a variety of diodes, fuses, capacitors, and resistors. Designed to meet 1119 to NSA specifications.

Product Customization
Amphenol Pcd welcomes inquiries for application-specific modifications to the standard SJS QuickConnect series. The environmentally-sealed series is continuously expanding to meet current and future customer needs. Application-specific customization include:

- Varied Wire Gauges
- Custom Colors
- Unique Markings
- High Power Electronic Packaging
- Increased Channel Sizes
- Alternate Contacts
- Distinct Configurations
- Alternative Alterations

Other Products from Amphenol Pcd

High Performance P-Clamps
- Victrex PEEK polymer
- Non-corrosive; Non-conductive
- Overmolded silicone cushions

Contact us or more information

Backshells for Circular Connectors
- QPL certified to AS85049 standard
- Complete range of products
- Short lead-time

Contact us for more information

CONTACT INFORMATION

Amphenol Pcd Headquarters
72 Cherry Hill Drive
Beverly, MA 01915 USA
email: quickconnect@amphenolpcd.com
Tel: 978-624-3400

Amphenol
CONNECTING PEOPLE + TECHNOLOGY

Rev. A (09-15)
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