



## **INDUSTRIAL INTERCONNECT**

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# Amphenol

## Amphe-Lite Non-Magnetic Harsh Environment Connectors

100 percent non-magnetic Amphe-Lite connectors are made of durable corrosion-resistant material. IP67 sealing grommets and interfacial seals are standard. Offered in three styles (wall mount, in-line, and jam nut) and a straight plug, this threaded connector can be completely mated in one 360° turn of the coupling nut.



### Features ▶

- Grommets and interfacial seals
- 59 insert arrangements; size 22D, 20, 16, and 12 standard contacts available
- Triple-start coarse thread
- Optional PCB and ACT flex circuits

### Benefits ▶

- IP67 rating
- Design flexibility with both power and signal
- Complete mating in a single 360° turn of the coupling nut
- Options created with easy installation in mind

### Applications ▶

- MRI equipment
- Medical
- Nuclear
- Rail/mass transit
- Heavy equipment

### Product Specifications ▶

| Part Number*      | Shell Size/<br>Arrangement | Service Rating | Total Contacts | 22D | 20 | 16 | 12 |
|-------------------|----------------------------|----------------|----------------|-----|----|----|----|
| AL00U23-35P(NMG)  | 23-35                      | M              | 100            | 100 | NA | NA | NA |
| AL00U13-35P(NMG)  | 13-35                      | M              | 22             | 22  | NA | NA | NA |
| AL06U15-ACS(NMG)  | 15-AC                      | M              | 26             | 24  | NA | 2  | NA |
| AL07U17-35P(NMG)  | 17-35                      | M              | 19             | 4   | 11 | 4  | NA |
| AL00U15-35S(NMG)  | 15-35                      | M              | 37             | 37  | NA | NA | NA |
| AL06U23-35S(NMG)  | 23-35                      | M              | 100            | 100 | NA | NA | NA |
| AL07U11-35P(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL06U11-35S(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL00U11-35P(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL07U15-ACP(NMG)  | 15-AC                      | M              | 26             | 24  | NA | 2  | NA |
| AL00U-15-15S(NMG) | 15-15                      | I              | 15             | NA  | 14 | 1  | NA |
| AL06U21-35P(NMG)  | 21-35                      | M              | 79             | 79  | NA | NA | NA |
| AL06U11-35P(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL00U11-35P(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL06U13-98S(NMG)  | 13-98                      | I              | 10             | NA  | 10 | NA | NA |
| AL06U13-35P(NMG)  | 13-35                      | M              | 22             | 22  | NA | NA | NA |
| AL06U15-35S(NMG)  | 15-35                      | M              | 37             | 37  | NA | NA | NA |
| AL06U11-35S(NMG)  | 11-35                      | M              | 13             | 13  | NA | NA | NA |
| AL06U13-35S(NMG)  | 13-35                      | M              | 22             | 22  | NA | NA | NA |
| AL07U17-35S(NMG)  | 17-35                      | M              | 19             | 4   | 11 | 4  | NA |
| AL06U15-35P(NMG)  | 15-35                      | M              | 37             | 37  | NA | NA | NA |
| AL07U15-35P(NMG)  | 15-35                      | M              | 37             | 37  | NA | NA | NA |

\*Additional part numbers are available.

### Related Information ▶

| Service Rating |        |        |              |
|----------------|--------|--------|--------------|
| Service Rating | AC (V) | DC (V) | Test Voltage |
| M              | 400    | 550    | 1300 VRMS    |
| I              | 600    | 850    | 1800 VRMS    |

| Contact Rating |           |                         |
|----------------|-----------|-------------------------|
| Contact Size   | Crimp (A) | Maximum Millivolt Drop* |
| 22D            | 5         | 73                      |
| 20             | 7.5       | 55                      |
| 16             | 13        | 49                      |

\*When using silver plated wire

## Arrow Industrial Selector Guide

800-349-4960 | [www.arrownac.com/industrial](http://www.arrownac.com/industrial)

## Amphenol



## Amphe-Power® Connectors with RADSOK® Technology

Amphe-Power® GT and 5015 feature RADSOK® Technology which gives a high amperage, low-insertion-force electrical terminal. Most pin-and-socket technologies rely on the spring property of contact elements, which tends to weaken over time. Instead, RADSOK utilizes the tensile strength of a flat, high-conductivity-alloy hyperbolic grid. This results in a large conductive surface area, small voltage drop, and small temperature rise.

### Features ▶

- High amperage
- Low insertion force
- Minimized temperature rise
- Low millivolt drop
- Easy secure mating

### Benefits ▶

- 50% or more amperage than the same-size standard contact
- Easier mating reduces wear and tear and increases the number of mating cycles
- Reduced heat buildup allows higher current capacities at given temperature limits
- Consistent voltage flow
- The GT mates in a quarter turn and the 5015 locks in place by turning down on threads

### Applications ▶

- Battery connections
- Stationary power sets
- Generators and alternators
- Base stations
- Petro-chemical installations

### Product Specifications ▶

|                  | Part Number*          | Plug/Receptacle | Coupling        | Plating    | Shell Size/Arrangement |
|------------------|-----------------------|-----------------|-----------------|------------|------------------------|
| Amphe-Power GT   | GTC03018-7P(025)      | Receptacle      | Reverse bayonet | Black zinc | 36-4                   |
|                  | GTC03022-1P(025)      | Receptacle      | Reverse bayonet | Black zinc | 22-1                   |
|                  | GTC03020-19P(025)     | Receptacle      | Reverse bayonet | Black zinc | 20-19                  |
|                  | GTC03016-12P(025)     | Receptacle      | Reverse bayonet | Black zinc | 16-12                  |
|                  | GTC03022-7P(025)      | Receptacle      | Reverse bayonet | Black zinc | 22-7                   |
|                  | GTC03036-5P(025)      | Receptacle      | Reverse bayonet | Black zinc | 36-5                   |
|                  | GTC06F18-7S(RDS)(025) | Plug            | Reverse bayonet | Black zinc | 18-7                   |
|                  | GTC06F28-6S(RDS)(025) | Plug            | Reverse bayonet | Black zinc | 28-6                   |
|                  | GT06F36-4S(RDS)(025)  | Plug            | Reverse bayonet | Black zinc | 36-4                   |
|                  | GTC06F36-5S(RDS)(025) | Plug            | Reverse bayonet | Black zinc | 36-5                   |
| Amphe-Power 5015 | ACC02E22-1P(025)      | Receptacle      | Threaded        | Black zinc | 22-1                   |
|                  | ACC02E28-6P(025)      | Receptacle      | Threaded        | Black zinc | 28-6                   |
|                  | ACC02E32-5P(025)      | Receptacle      | Threaded        | Black zinc | 32-5                   |
|                  | ACC02E32-17P(025)     | Receptacle      | Threaded        | Black zinc | 32-17                  |
|                  | ACC06E18-7R(025)      | Plug            | Threaded        | Black zinc | 18-7                   |
|                  | ACC06E20-19R(025)     | Plug            | Threaded        | Black zinc | 20-19                  |
|                  | ACC06E24-9R(025)      | Plug            | Threaded        | Black zinc | 24-9                   |
|                  | ACC06E22-7R(025)      | Plug            | Threaded        | Black zinc | 22-7                   |
|                  | ACC06E32-5R(025)      | Plug            | Threaded        | Black zinc | 32-5                   |
|                  | ACC06E32-17R(025)     | Plug            | Threaded        | Black zinc | 32-17                  |

\*Additional part numbers are available.

**ERNI**

## ERNI M8 Connectors for Automation Systems and M12 Circular Connectors for Sensors/Actuators

ERNI M8 and M12 connectors can be used for a multitude of industrial applications and bus technologies. ERNI has a complete product offering of M8 and M12 PCB versions as well as the circular connector system, offering cable versions. Featuring SMT termination, connectors are available in various heights and with different pin configurations. Various cable qualities and standard lengths contribute to a cost-effective automation solution.



### Features ▶

- Cost-effective SMT version
- LCP material allows higher operating temperatures than IEC requests
- Cost-effective stamped female contact
- Bulk packaging has no impact on coplanarity due to stable design
- Overmolded cable connectors with locking mechanisms for vibration

### Benefits ▶

- Shock- and vibration-resistant
- Competitive: modular tools, standard sizes and contacts
- SMT termination-compatible and process-compatible
- Availability of most popular cable styles

### Applications ▶

- Low-voltage sensor switch devices
- I/O sensor actor boxes
- Industrial Ethernet switches
- Fieldbus controllers with Profibus, Interbus, DeviceNet, and other technologies
- All decentral field devices, drives

### Product Specifications ▶

| Part Number | Description | Pins | Height (mm) | Termination | Packaging     | ROHS Compliant |
|-------------|-------------|------|-------------|-------------|---------------|----------------|
| 194781      | Female M12  | 5    | 17          | SMT         | Bulk          | Yes            |
| 224064      | Female M12  | 5    | 17          | SMT         | Tape and reel | Yes            |
| 234040      | Female M12  | 4    | 17          | SMT         | Bulk          | Yes            |
| 234041      | Female M12  | 4    | 17          | SMT         | Tape and reel | Yes            |
| 254310      | Female M12  | 8    | 17          | SMT         | Bulk          | Yes            |
| 254206      | Female M12  | 5    | 17          | SMT         | Tape and reel | Yes            |
| 254205      | Female M12  | 5    | 17          | SMT         | Bulk          | Yes            |
| 244790      | Male M12    | 5    | 17          | SMT         | Bulk          | Yes            |
| 244934      | Male M12    | 5    | 10.5        | SMT         | Bulk          | Yes            |
| 244794      | Male M12    | 5    | 17          | SMT         | Bulk          | Yes            |
| 254188      | Male M12    | 4    | 17          | SMT         | Bulk          | Yes            |
| 254317      | Male M12    | 8    | 10.5        | SMT         | Bulk          | Yes            |
| 254319      | Male M12    | 5    | 10.5        | SMT         | Bulk          | Yes            |
| 254859      | Male M12    | 4    | 10.5        | SMT         | Bulk          | Yes            |
| 244936      | Male M12    | 8    | 10.5        | SMT         | Bulk          | Yes            |
| 244798      | Male M12    | 4    | 17          | SMT         | Bulk          | Yes            |
| 244942      | Male M12    | 4    | 10.5        | SMT         | Bulk          | Yes            |
| 244790      | Male M12    | 5    | 17          | SMT         | Bulk          | Yes            |
| 244934      | Male M12    | 5    | 10.5        | SMT         | Bulk          | Yes            |
| 244794      | Male M12    | 5    | 17          | SMT         | Bulk          | Yes            |
| 254188      | Male M12    | 4    | 17          | SMT         | Bulk          | Yes            |
| 254317      | Male M12    | 8    | 10.5        | SMT         | Bulk          | Yes            |
| 254319      | Male M12    | 5    | 10.5        | SMT         | Bulk          | Yes            |
| 254859      | Male M12    | 4    | 10.5        | SMT         | Bulk          | Yes            |
| 244936      | Male M12    | 8    | 10.5        | SMT         | Bulk          | Yes            |
| 244798      | Male M12    | 4    | 17          | SMT         | Bulk          | Yes            |
| 244942      | Male M12    | 4    | 10.5        | SMT         | Bulk          | Yes            |
| 224151      | Female M8   | 4    | 16.25       | SMT         | Tape and reel | Yes            |
| 224150      | Female M8   | 3    | 16.25       | SMT         | Tape and reel | Yes            |
| 234233      | Female M8   | 3    | 16.25       | SMT         | Bulk          | Yes            |
| 234234      | Female M8   | 4    | 16.25       | SMT         | Bulk          | Yes            |
| 224152      | Male M8     | 4    | 16.25       | SMT         | Tape and reel | Yes            |
| 234235      | Male M8     | 4    | 16.25       | SMT         | Bulk          | Yes            |

Note: A variety of standard cable assemblies is also available. Please contact your local Arrow sales representative for more information at 800-349-4960.



## Han® Industrial Connectors

HARTING Han® connectors are designed to provide a safe electrical connection in the most demanding industrial environments. These connectors support a wide range of applications in mechanical and plant engineering. They are also ideal in the design of manufacturing and factory automation equipment and in packaging and food processing. Additionally, Han® connectors are integral electrical components in applications for rail and marine transportation and for power distribution.

### Features ▶

- UL/CSA recognized
- Preleading ground
- Variety of termination styles
- NEMA-type 4/12 housings
- Broad product range to fit most applications

### Benefits ▶

- Proven reliability
- Stands up to harsh environments
- Easy, low-cost field termination
- Off-the-shelf solutions
- Worldwide availability

### Applications ▶

- Machine manufacturing
- Transportation
- Factory automation
- Energy
- Food, packaging, and pharmaceutical

### Product Specifications ▶

| Product Series | VDE/UL Voltage (V) | Working Current (A) | Number of Contacts | UL/CSA | NEMA Type | Termination Style | Application       |
|----------------|--------------------|---------------------|--------------------|--------|-----------|-------------------|-------------------|
| Han A®         | 250/600            | 10                  | 3-32               | Yes    | 4/12      | Screw/crimp       | Compact power     |
| Han D/DD®      | 250/600            | 10                  | 7-216              | Yes    | 4/12      | Crimp             | High pin-count    |
| Han E/EE®      | 500/600            | 16                  | 6-48               | Yes    | 4/12      | Screw/crimp       | Most popular      |
| Han® HvE       | 830/600            | 16                  | 3-32               | Yes    | 4/12      | Screw/crimp       | High voltage      |
| Han® ES/ESS    | 500/600            | 16                  | 6-48               | Yes    | 4/12      | Cage-clamp        | Easy wiring       |
| Han-Com®       | Up to 830          | 100                 | 4-14               | Yes    | 4/12      | Screw/crimp       | Combination       |
| Han-Modular®   | Up to 1000         | 200                 | Various            | Yes    | 4/12      | Screw/crimp       | Modular           |
| Han® HsB       | 690/600            | 35                  | 6-12               | Yes    | 4/12      | Screw             | High current      |
| Han® AV        | 600 UL             | 10-16               | 6-64               | Yes    | 4/12      | Screw             | Terminal blocks   |
| Han-Snap®      | Various            | Various             | Various            | Yes    | NA        | Various           | Switch cabinets   |
| Han-Port®      | Various            | Various             | Various            | Yes    | IP 65     | Various           | Interfaces        |
| Han® Q         | Up to 690          | 10-40               | 5-17               | Yes    | IP 65     | Crimp             | Motors            |
| Han® HC        | Up to 4000         | 350-650             | 1-10               | Yes    | 4/12      | Screw             | Very high current |
| Han®-INOX      | Various            | Various             | Various            | Yes    | IP 65     | Various           | Stainless steel   |

### Related Information ▶



Han E/EE®



Han-Modular®



Han® 10E in  
Han®-INOX housing



Han-Snap®



## HARTING Industrial Ethernet

HARTING offers a total and seamless solution for connecting Ethernet networks in an industrial environment. HARTING provides an end-to-end Ethernet solution, from the connection in the office through the switched network and down to Ethernet-enabled automation devices. Products include a complete line of Ethernet switches, connectors, and cable assemblies.



### Features ▶

- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and forward-switching mode

### Benefits ▶

- Flat or narrow housing design
- Robust metal enclosures
- Top-hat mounting
- RoHS compliant

### Applications ▶

- Factory automation
- Automotive
- Wind energy
- Power distribution systems
- Transportation

### Product Specifications ▶

| Part Number | Description   | Ports                 | Enclosure                | Size (without connectors)<br>W x H x D (mm) | Function Class | Input Voltage<br>(VDC) | Operating Temperature<br>Range (°C) |
|-------------|---------------|-----------------------|--------------------------|---|----------------|------------------------|-------------------------------------|
| 20761053000 | eCon 2050 -A  | 5 RJ 45               | IP 30                    | 46.5 x 25.5 x 105.4                         | Unmanaged      | 24                     | -10 to +70                          |
| 20761083000 | eCon 3080 -A  | 8 RJ 45               | IP 30                    | 22.5 x 130 x 100                            | Unmanaged      | 24                     | -10 to +70                          |
| 20761073100 | eCon 3061 -AD | 6 RJ 45/1 F.O. SC     | IP 30                    | 22.5 x 130 x 100                            | Unmanaged      | 24                     | -10 to +70                          |
| 20761083100 | eCon 3062 -AD | 6 RJ 45/2 F.O. SC     | IP 30                    | 22.5 x 130 x 100                            | Unmanaged      | 24                     | -10 to +70                          |
| 20751103100 | eCon 3082 -AD | 8 RJ 45/2 F.O. SC     | IP 30                    | 22.5 x 130 x 100                            | Unmanaged      | 24                     | -10 to +70                          |
| 20733053921 | eCon 6050 -A  | 3 RJ 45/2 Han® 3A     | In between – IP 20/IP 67 | 105 x 104.4 x 40                            | Unmanaged      | 24                     | -40 to +70                          |
| 20733053941 | eCon 6050 -BA | 3 RJ 45/2 M12 D-coded | In between – IP 20/IP 67 | 105 x 104.4 x 40                            | Unmanaged      | 24                     | -40 to +70                          |
| 20703053921 | eCon 7050 -A  | 5 Han® 3A             | IP 67                    | 45 x 87 x 120                               | Unmanaged      | 24                     | -40 to +70                          |
| 20703053941 | eCon 7050 -B  | 5 M12 D-coded         | IP 67                    | 45 x 87 x 120                               | Unmanaged      | 24                     | -40 to +70                          |
| 20761101000 | sCon 3100 -A  | 10 RJ 45              | IP 30                    | 60.6 x 130 x 100                            | Configurable   | 24                     | 0 to +70                            |
| 20761071000 | sCon 3061 -AD | 6 RJ 45/1 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Configurable   | 24                     | 0 to +70                            |
| 20761091000 | sCon 3063 -AD | 6 RJ 45/3 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Configurable   | 24                     | 0 to +70                            |
| 20761101100 | sCon 3082 -AD | 8 RJ 45/2 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Configurable   | 24                     | 0 to +70                            |
| 20761104000 | mCon 3100 -A  | 10 RJ 45              | IP 30                    | 60.6 x 130 x 100                            | Managed        | 24                     | 0 to +70                            |
| 20761074000 | mCon 3061 -AD | 6 RJ 45/1 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Managed        | 24                     | 0 to +70                            |
| 20761094000 | mCon 3063 -AD | 6 RJ 45/3 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Managed        | 24                     | 0 to +70                            |
| 20761104100 | mCon 3082 -AD | 8 RJ 45/2 F.O. SC     | IP 30                    | 60.6 x 130 x 100                            | Managed        | 24                     | 0 to +70                            |
| 20703054921 | mCon 7050 -A  | 5 Han® 3A             | IP 67                    | 45 x 87 x 120                               | Managed        | 24                     | -40 to +70                          |
| 20703054941 | mCon 7050 -B  | 5 M12 D-coded         | IP 67                    | 45 x 87 x 120                               | Managed        | 24                     | -40 to +70                          |

### Related Information ▶



eCon 3080 -A  
8 RJ 45



eCon 3082 -AD  
8 RJ 45/2 Fiber



eCon 2050 -A  
5 RJ 45



eCon 6050 -A  
3 RJ 45/2 Han®  
3A RJ Industrial®



mCon 7050 -A  
5 Han® 3A



mCon 7050 -B  
5 M12 D-Coded



sCon 3100 -A  
10 RJ 45

### Arrow Industrial Selector Guide

800-349-4960 | [www.arrownac.com/industrial](http://www.arrownac.com/industrial)



## APD Connectors

Cannon's APD is a direct, in-line, and bulkhead sensor/industrial connector that is resistant to automotive and industrial fluids. It also boasts very low contact resistance for maximum signal integrity. The APD is available in 1-, 2-, 4-, 7-, 37-, and 51-position versions. It is designed to meet all DIN 72585 requirements.

### Features ▶

- IP67 and IP69 sealing
- Low contact resistance
- Current options ranging from 12A to 240A
- PCB options
- Color options

### Benefits ▶

- Harsh environment applications
- Alternate keying configurations
- Cost-effective

### Applications ▶

- Sensors
- Lighting systems
- Power supplies
- Power distribution
- Electronic control

### Product Specifications ▶

| Part Number  | Pin Count | Description   | Material               | RoHS Compliant |
|--------------|-----------|---|------------------------|----------------|
| 121583-0013  | 1         | Connector, high-power (240A pk) plug-red  | PBT/PA                 | Yes            |
| 121583-0017  | 1         | Connector, high-power (240A pk) J/N receptacle-red                                    | PBT                    | Yes            |
| 121583-0015  | 1         | Connector, high-power (240A pk) flange receptacle-red                                 | PBT                    | Yes            |
| 030-8614-000 | NA        | Contact, pin 0 AWG  | Cu alloy/silver-plated | Yes            |
| 031-8521-000 | NA        | Contact, socket, 0 AWG  | Cu alloy/silver-plated | Yes            |
| 031-8697-001 | NA        | Seal, 1-position, wire insulation 10.4 mm-12.0 mm                                     | HNBR                   | Yes            |
| 217-8516-010 | NA        | Seal/hex nut 1- and 2-position  | PBT                    | Yes            |
| 121583-0025  | 2         | Connector, high-power (74A pk) plug   | PBT/PA                 | Yes            |
| 121583-0027  | 2         | Connector, high-power (74A pk) J/N receptacle   | PBT                    | Yes            |
| 121583-0026  | 2         | Connector, high-power (74A pk) flange receptacle                                      | PBT                    | Yes            |
| 430-8645-002 | NA        | Contact, pin 6 AWG  | Cu alloy/silver-plated | Yes            |
| 031-8646-003 | NA        | Contact, socket, 6 AWG  | Cu alloy/silver-plated | Yes            |
| 351-8697-007 | NA        | Seal, 2-position, wire insulation 5.7 mm-7.3 mm                                       | HNBR                   | Yes            |
| 121583-0000  | 4         | Connector, plug   | PBT/PA                 | Yes            |
| 121583-0004  | 4         | Connector, flange receptacle  | PBT                    | Yes            |
| 121583-0008  | 4         | Connector, J/N receptacle   | PBT                    | Yes            |
| 121668-0125  | NA        | Contact, socket 16 AWG-20 AWG   | Cu alloy/tin-plated    | Yes            |
| 121668-0026  | NA        | Contact, pin, 16 AWG-20 AWG   | Cu alloy/tin-plated    | Yes            |
| 273-8506-005 | NA        | Seal, 4-position, wire insulation 1.4 mm-2.0 mm/red                                   | Silicone               | Yes            |
| 121583-0018  | 7         | Connector, plug   | PBT/PA                 | Yes            |
| 121583-0020  | 7         | Connector, flange receptacle  | PBT                    | Yes            |
| 121583-0019  | 7         | Connector, J/N receptacle   | PBT                    | Yes            |
| 192900-0000  | NA        | Contact, pin 16 AWG-20 AWG  | Cu alloy/tin-plated    | Yes            |
| 192900-0001  | NA        | Contact, socket, 16 AWG-20 AWG  | Cu alloy/tin-plated    | Yes            |
| 273-8506-009 | NA        | Seal, individual wire, 7-, 37-, and 51-position, wire insulation 1.9 mm-2.1 mm/yellow | Silicone               | Yes            |
| 121583-0058  | 37        | Connector, plug   | PBT/PA                 | Yes            |
| 249-8619-017 | 37        | Connector, flange receptacle  | PBT                    | Yes            |
| 121583-0032  | 51        | Connector, plug-green   | PBT/PA                 | Yes            |
| 121583-0081  | 51        | Connector, J/N receptacle-green   | PBT                    | Yes            |
| 121668-0255  | NA        | Contact, pin, 37 and 51 way 16 AWG-18 AWG   | Cu alloy/tin-plated    | Yes            |
| 121668-0222  | NA        | Contact, socket, 37 and 51 way 16 AWG-18 AWG  | Cu alloy/tin-plated    | Yes            |



## Circular Connectors

ITT Cannon is a leading manufacturer of MS-type circular connectors. Designed in the 1940s, Cannon's MS E&R series has been a mainstay in the military and industrial marketplaces. ITT Cannon's miniature circular series, KPT and KPSE, provide a broad range of general-purpose environmental connectors. Originally designed for aircraft, these military-approved products are now widely used in many other fields. They are particularly suitable for commercial applications requiring low cost and high reliability.



### Features ▶

- Coupling system: threaded and bayonet
- Shell material: aluminum alloy, die cast
- Shell plating options: OD cadmium, electroless nickel, green and black zinc cobalt
- Insulator material: plastic and polychloroprene (resilient)
- Contact options: solder cup and crimp
- RoHS compliant hardware plating and contacts available

### Benefits ▶

- Available Bonded-in contacts providing 30 PSI sealing
- Corrosion-resistant
- Simple, dependable, and time-tested design
- Military-qualified

### Applications ▶

- Traffic control systems
- Lighting equipment
- Welding machines
- Test equipment
- Robotic devices

### Product Specifications ▶

|        | Part Number    | Pin Count | Description                      | Material                               | Military Standard  | Standard Finish | RoHS Compliance Availability |
|--------|----------------|-----------|----------------------------------|--|--------------------|-----------------|------------------------------|
| KPT    | KPT02E8-3S     | 3         | Connector, receptacle, size 8    | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT00E10-6P    | 6         | Connector, receptacle, size 10   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT07E12-3S    | 3         | Connector, receptacle, size 12   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT02E16-26P   | 26        | Connector, receptacle, size 16   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT06F20-41P   | 41        | Connector, plug, size 20         | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT02E22-55S   | 55        | Connector, receptacle, size 22   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPT06F24-61P   | 61        | Connector, plug, size 24         | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
| KPSE   | KPSE02E10-6P   | 6         | Connector, receptacle, size 10   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPSE07E12-3S   | 3         | Connector, receptacle, size 12   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPSE02E16-26P  | 26        | Connector, receptacle, size 16   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPSE06F20-41P  | 41        | Connector, plug, size 20         | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPSE02E22-55S  | 55        | Connector, receptacle, size 22   | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
|        | KPSE06F24-61P  | 61        | Connector, plug, size 24         | Aluminum hardware, neoprene elastomers | Mil-DTL 26482H     | OD cadmium      | Yes                          |
| MS A&B | MS3102A10SL-4P | 2         | Connector, receptacle, size 10SL | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3106A12S-3S  | 2         | Connector, plug, size 12S        | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3106A14S-5P  | 5         | Connector, plug, size 14S        | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3100A18-11P  | 5         | Connector, receptacle, size 18   | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3102A20-27S  | 14        | Connector, receptacle, size 20   | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3101A22-14P  | 19        | Connector, receptacle, size 22   | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
|        | MS3106A24-28S  | 24        | Connector, plug, size 24         | Aluminum hardware, plastic insulator   | Not active in 5015 | OD zinc         | Yes                          |
| MS E&R | MS3102E10SL-4P | 2         | Connector, receptacle, size 10SL | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3106E12S-3S  | 2         | Connector, plug, size 12S        | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3106E14S-5P  | 5         | Connector, plug, size 14S        | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3100R18-11P  | 5         | Connector, receptacle, size 18   | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3102E20-27S  | 14        | Connector, receptacle, size 20   | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3101E22-14P  | 19        | Connector, receptacle, size 22   | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |
|        | MS3106F24-28S  | 24        | Connector, plug, size 24         | Aluminum hardware, neoprene elastomers | Mil-DTL 5015H      | OD cadmium      | Yes                          |





## Eurostyle™ ESE Fixed-Mount and Pluggable PCB Terminal Blocks

ESE PCB terminal blocks from Molex offer an extensive range of both fixed-mount and pluggable terminal blocks. Available in four pitches from 3.50 mm to 5.08 mm (.138" to .197") and rated 300V at 8.0A to 15.0A, ESE is well-suited for a variety of applications. ESE provides maximum design flexibility with more than 50 housing styles of plugs, headers, and fixed terminal blocks that are fully RoHS compliant.

### Features ▶

- Rising cage-clamp technology
- Two styles of optional imprinting
- Optional mounting ends available on many parts
- Captive screws
- Compatible with Beau Eurostyle™ and industry-standard terminal blocks

### Benefits ▶

- Provides a reliable connection without strand damage or intermittence
- Aids in identifying circuits for easy testing and repair in the field
- Guarantees a secure mate between plug and header, especially valuable in vibration applications
- Ensures screws will not back out of housing
- Compatible with existing board configurations

### Applications ▶

- HVAC
- Factory and process automation
- Measurement and control systems
- Elevators
- Power distribution

### Product Specifications ▶

|  | Part Number* | Pitch mm (inches) | Orientation                | Current (A) | Voltage | Wire Range (AWG) |
|--|--------------|-------------------|----------------------------|-------------|---------|------------------|
| Fixed-Mount (single-piece)                     | 39543-30XX   | 5.00 (.197)       | Vertical                   | 15.0        | 300     | 12-30            |
|  | 39543-31XX   |                   | Horizontal                 |             |         |                  |
|  | 39543-43XX   |                   | 45° Angle                  |             |         |                  |
|  | 39544-30XX   | 5.08 (.200)       | Vertical                   | 12-30       |         |                  |
| Pluggable (two-piece) PCB header (closed ends) | 39501-10XX   | 3.50 (.138)       | Vertical                   | 8.0         | 300     | NA               |
|  | 39502-10XX   |                   | Horizontal                 |             |         |                  |
|  | 38511-10XX   | 3.81 (.150)       | Vertical                   | 18.0        |         |                  |
|  | 39512-10XX   |                   | Horizontal                 |             |         |                  |
|  | 39521-10XX   | 5.00 (.197)       | Vertical                   | 18.0        |         |                  |
|  | 39522-10XX   |                   | Horizontal                 |             |         |                  |
|  | 39528-30XX   |                   | Vertical, dual level       |             |         |                  |
|  | 39528-10XX   |                   | Horizontal, dual level     |             |         |                  |
|  | 39531-10XX   | 5.08 (.200)       | Vertical                   | 18.0        |         |                  |
|  | 39532-10XX   |                   | Horizontal                 |             |         |                  |
|  | 39538-30XX   |                   | Vertical, dual level       |             |         |                  |
|  | 39538-10XX   |                   | Horizontal, dual level     |             |         |                  |
| Pluggable (two-piece) Plug                     | 39503-30XX   | 3.50 (.138)       | Vertical, front wire entry | 8.0         | 300     | 16-30            |
|  | 39500-00XX   |                   | Horizontal                 |             |         |                  |
|  | 39513-30XX   | 3.81 (.150)       | Vertical, front wire entry | 18.0        |         |                  |
|  | 39510-00XX   |                   | Horizontal                 |             |         |                  |
|  | 39523-30XX   | 5.00 (.197)       | Vertical, front wire entry | 18.0        |         | 12-30            |
|  | 39520-00XX   |                   | Horizontal                 |             |         |                  |
|  | 39533-30XX   | 5.08 (.200)       | Vertical, front wire entry | 18.0        |         |                  |
|  | 39530-00XX   |                   | Horizontal                 |             |         |                  |

\*Replace "XX" with circuit size.

Note: 3.50 mm and 3.81 mm (.138" and .150") available in sizes 02-20; 5.00 mm and 5.08 mm (.197" and .200") available in sizes 02-24; dual-level PCB headers available in even circuit sizes 04-48. Additional ESE styles are available. Contact Arrow for ESE brochure, samples and order numbers.



## MX150L™ Sealed Connector System

The MX150L is designed to meet the need for a rugged, environmentally sealed connector system supporting both low-level signal applications and power applications up to 40 A. This connector features all-in-one plug and receptacle housings with preassembled mat-wire and interfacial connector seals. Its design eliminates the need to purchase, handle, and crimp individual wire seals in order to lower applied costs.



### Features ▶

- Pre-assembled connector housings, seals, TPA (Terminal Position Assurance) components, and mat-seal cap
- Integral TPA
- Conforms to UL 1977
- Audible and tactile clicks on insertion, extraction, and mating
- Simple crimp, poke, and plug application

### Benefits ▶

- Shipped in one piece to provide applied-labor and cost savings
- Assures that crimped terminal leads are properly locked into connector
- Allows for a UL-recognized sealed connector system for use in data, signal, control, and power applications
- Facilitates reliable mating, terminal loading, and removal
- Eliminates the need to crimp individual wires

### Applications ▶

- Construction equipment
- Recreation vehicles
- Marine equipment
- Agricultural equipment

### Product Specifications ▶

| Tin-Plated Terminals (loose piece) | Part Number |                    | Gender             | Wire Range AWG mm <sup>2</sup> (inches <sup>2</sup> ) | Insulation Diameter mm (inches) | Use With            |                |            |
|------------------------------------|-------------|--------------------|--------------------|---|---------------------------------|---------------------|----------------|------------|
|                                    | 19420-0010  |                    | Female             | 18-22 (0.36-0.83)                                     | 2.36-2.74 (.093-.108)           | 19418               |                |            |
|                                    | 19420-0009  |                    |                    | 14-16 (1.27-2.00)                                     | 2.87-3.53 (.113-.139)           |                     |                |            |
|                                    | 19434-0003  |                    |                    | 10-12 (5.01-3.09)                                     | 3.94-4.45 (.155-.175)           | 19432               |                |            |
|                                    | 19434-0004  |                    |                    | 8 (7.96)  | 6.02 (.237)                     |                     |                |            |
|                                    | 19417-0048  |                    | Male               | 18-22 (0.36-0.83)                                     | 2.36-2.74 (.093-.108)           | 19419, 19429, 19435 |                |            |
|                                    | 19417-0047  |                    |                    | 14-16 (1.27-2.00)                                     | 2.87-3.53 (.113-.139)           |                     |                |            |
|                                    | 19431-0016  |                    |                    | 10-12 (5.01-3.09)                                     | 3.94-4.45 (.155-.175)           | 19433               |                |            |
|                                    | 19431-0017  |                    |                    | 8 (7.96)  | 6.02 (.237)                     |                     |                |            |
| Receptacle Housings                | Part Number |                    | Number of Circuits | Rows  | Pitch mm (inches)               | Wire Range (AWG)    | Mat Seal Color | Mates With |
|                                    | (with CPA*) | (without CPA*)     |                    |   |                                 |                     |                |            |
|                                    | 19418-0008  | 19418-0016         | 2                  | 1   | 5.84 (.230)                     | 18-22               | Red            | 19419      |
|                                    | 19418-0007  | 19418-0017         |                    |   |                                 | 14-16               | Blue           |            |
|                                    | 19432-0013  | NA                 |                    |   | 7.62 (.300)                     | 10-12               | Yellow         | 19433      |
|                                    | 19432-0014  | NA                 |                    |   |                                 | 8                   | Red            |            |
|                                    | 19418-0005  | 19418-00018        | 4                  | 2   | 5.84 (.230)                     | 18-22               | Red            | 19419      |
|                                    | 19418-0004  | 19418-0019         |                    |   |                                 | 14-16               | Blue           |            |
|                                    | 19432-0001  | NA                 |                    |   | 7.62 (.300)                     | 10-12               | Yellow         | 19433      |
| 19432-0002                         | NA          | 8                  |                    |   |                                 | Red                 |                |            |
| Plug Housings                      | Part Number | Number of Circuits | Rows               | Pitch mm (inches)                                     | Wire Range (AWG)                | Mat Seal Color      | Mates With     |            |
|                                    | 19419-0008  | 2                  | 1                  | 5.84 (.230)   | 18-22                           | Red                 | 19418          |            |
|                                    | 19419-0007  |                    |                    |   | 14-16                           | Blue                |                |            |
|                                    | 19433-0013  |                    |                    | 7.62 (.300)   | 10-12                           | Yellow              | 19432          |            |
|                                    | 19433-0014  |                    |                    |   | 8                               | Red                 |                |            |
|                                    | 19419-0005  | 4                  | 2                  | 5.84 (.230)   | 18-22                           | Red                 | 19418          |            |
|                                    | 19419-0004  |                    |                    |   | 14-16                           | Blue                |                |            |
|                                    | 19433-0001  |                    |                    | 7.62 (.300)   | 10-12                           | Yellow              | 19432          |            |
| 19433-0002                         | 8           |                    |                    |   | Red                             |                     |                |            |

\*CPA = Connector Position Assurance, which confirms positive mating of the connector.

Note: Additional circuit sizes as well as sealed panel-mount and PCB configurations available. Contact Arrow for MX150L brochure, samples and additional order numbers.



## Signal, Data, and Power Interconnects

Phoenix Contact offers innovative and complete solutions for wiring a wide variety of industrial devices to allow for seamless integration into industrial control applications. Interconnect products from Phoenix Contact feature fast termination methods with common-sense assembly, and always include areas for marking. Phoenix Contact signal and data-connection solutions meet and exceed industry standards for rugged, reliable device connections. In addition Phoenix Contact offers a wide range of options for any power-connection requirement.

### Features ▶

- Various termination methods for I/O
- I/O connectors designed for outside through-wall and inside enclosures
- Industrial-grade data connections for all major networking methods/protocols
- Touch-safe, high-power PCB connections
- Connector housings offered in plastic, metal, or shielded

### Benefits ▶

- Labor and space savings during installation
- I/O connections from the device all the way to a PCB
- Common connectors (e.g., RJ 45) can be used on the plant floor now
- Safety when dealing with high-powered electronics
- The right connector solution to match the surrounding installation environment

### Applications ▶

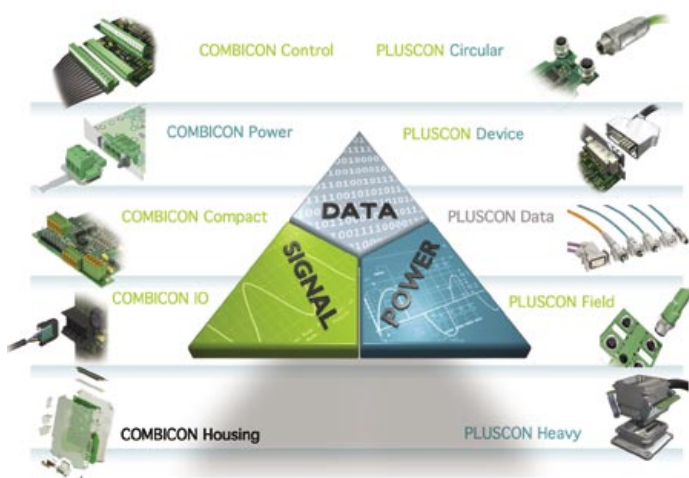
- Industrial field wiring
- Connections anywhere, from aggressive environments to “white room” terminations
- Intelligent devices in industrial applications
- Drives, motors, power supplies, converters
- Material handling, food and beverage, conveyors, high-electrical-noise environments, etc.

### Product Specifications ▶

| Product Series   | Type          | Wire Management           | IP Ratings         | Maximum Number of Positions | Connection Types                            |
|------------------|---------------|---------------------------|--------------------|-----------------------------|---|
| COMBICON Control | Signal        | Wire-to-PCB               | IP 20              | 24                          | Screw, spring, IDC, crimp                   |
| COMBICON I/O     |               | Wire-to-PCB, wire-to-wire | IP 20              | 16                          | IDC   |
| PLUSCON Field    |               | Wire-to-wire              | IP 65/67/69k       | 16                          | Screw, spring, M12, M8, M5                  |
| PLUSCON Circular | Signal, power | Wire-to-wire, wire-to-PCB | IP 67              | 28                          | Solder, crimp, screw, spring, IDC           |
| PLUSCON Device   |               |                           | IP 65/66/67/68/69k | 65                          | Screw, solder, crimp, FO                    |
| PLUSCON Heavy    |               |                           | IP 65/67           | 216                         | Screw, spring, crimp, IDC, coax, pneumatics |
| COMBICON Power   | Power         | Wire-to-PCB               | IP 20              | 12                          | Screw, spring                               |
| PLUSCON Data     | Data          |                           | IP 20/40/65/67     | 44                          | Screw, spring, IDC, solder, crimp           |

### Related Information ▶

For a complete list of Phoenix Contact, Inc. products contact an Arrow representative at 800-349-4960.





## AccliMate™ Sealed Circular Cable Assemblies

Samtec's AccliMate™ sealed circular interfaces meet IP68 specifications. The product is available with inserts for RF, USB, Ethernet, high density, and power/socket configurations. The power applications can handle 5 A or more per pin, depending on the cable. AccliMate plugs and receptacles are available with over-molded cables, panel gaskets, and O-ring interfacial seals.



### Features ▶

- Meets IP68 specifications
- Overmolded cables, gaskets, and O-ring interfacial seals
- RF, USB, Ethernet, signal, and power inserts
- Size 17 and 10 shells
- Optional dust caps

### Benefits ▶

- Dust and waterproof
- Protects cable interface integrity and contents of box
- Addresses a variety of applications
- Flexible pin-count options
- Protects cable end or panel interface

### Applications ▶

- Industrial automation
- Controls and diagnostic equipment
- Monitoring systems
- Water, chemical, and petroleum flow systems
- Industrial computing, communications, and networks

### Product Specifications ▶

| Part Number         | Insert      | Number of Pins | Assembled Length (meters) | Size        | IP68 Certified | RoHS Compliant | Description           |
|---------------------|-------------|----------------|---------------------------|-------------|----------------|----------------|-----------------------|
| SCP1-17-16-T-2.00-D | Power pins  | 16             | 2                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCP1-10-04-T-2.00-D | Power pins  | 4              | 2                         | 10 (10/16") | Yes            | Yes            | Plug assembly         |
| SCRI-17-16-T-0.50-D | Power pins  | 16             | 0.5                       | 17 (17/16") | Yes            | Yes            | Receptacle assembly   |
| SCRI-10-04-T-0.50-D | Power pins  | 4              | 0.5                       | 10 (10/16") | Yes            | Yes            | Receptacle assembly   |
| SCP2-17-32-F-2.00-D | Signal pins | 32             | 2                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCR2-17-32-F-.50-D  | Signal pins | 32             | 0.5                       | 17 (17/16") | Yes            | Yes            | Receptacle assembly   |
| SCP3-10-14-F-2.00-D | Micro pins  | 14             | 2                         | 10 (10/16") | Yes            | Yes            | Plug assembly         |
| SCR3-10-14-F-.50-DS | Micro pins  | 14             | 0.5                       | 10 (10/16") | Yes            | Yes            | Receptacle assembly   |
| SCPC-17-06-E-1.00-D | RF          | 6              | 1                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCRC-17-06-E-.25-D  | RF          | 6              | 0.25                      | 17 (17/16") | Yes            | Yes            | Receptacle assembly   |
| SCPE-G-3.00-D       | Ethernet    | NA             | 3                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCPE-G-2.00-D       | Ethernet    | NA             | 2                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCRE-01             | Ethernet    | NA             | NA                        | 17 (17/16") | Yes            | Yes            | Receptacle            |
| SCPFE-17-01         | Ethernet    | NA             | NA                        | NA          | Yes            | Yes            | Field termination kit |
| SCPU-G-5.00-D       | USB         | -AM, -B        | 5                         | 17 (17/16") | Yes            | Yes            | Plug assembly         |
| SCRU-01             | USB         | -A             | NA                        | 17 (17/16") | Yes            | Yes            | Receptacle            |
| SCRU-02             | USB         | -B             | NA                        | 17 (17/16") | Yes            | Yes            | Receptacle            |





## Trim Trio™ Sealed Plastic Circular Connectors

Trim Trio™ sealed plastic circular connectors address the need for economical, lightweight, and robust circular connectors. They are ideal for indoor and outdoor applications. These rugged connectors offer superior performance against water ingress, even in dynamic situations. They are available in jam nut or square flange receptacles for cable-to-panel applications, and in-line receptacles for cable-to-cable applications.

### Features ▶

- Environmentally sealed to IP 68/69K
- Full plastic construction
- Bayonet locking system
- Suitable for Trim Trio power, coax, and fiber optic contacts
- Optional PCB tail contacts

### Benefits ▶

- Suitable for indoor and outdoor applications
- Rugged construction
- Reliable and secure mating
- Simplified cabling
- Direct PCB mounting

### Applications ▶

- 3G, WiMAX base stations
- Outdoor electronic displays and billboards
- Telecom routers and enclosures
- Medical testing and measurement equipment
- Industrial capital equipment

### Product Specifications ▶

| Part Number<br>(for "live" box setup) | Description              | Alternate Part Number<br>(for "live" cable setup) | Contact Positions | Maximum Current<br>per Contact (A) | Working Voltage<br>(VAC) | Wire Range<br>(AWG) | Cable Range<br>(mm) | Water Sealing<br>Level |
|---------------------------------------|--------------------------|---|-------------------|------------------------------------|--------------------------|---------------------|---------------------|------------------------|
| UTS6JC103P                            | Cable plug               | UTS6JC103S  | 3                 | 13                                 | 500                      | 14-30               | 2-6                 | IP 68/69K              |
| UTS7103S                              | Jam nut receptacle       | UTS7103P  | 3                 | 13                                 | 500                      | 14-30               | 2-6                 | IP 68/69K              |
| UTS6JC104P                            | Cable plug               | UTS6JC104S  | 4                 | 13                                 | 500                      | 14-30               | 2-6                 | IP 68/69K              |
| UTS7104S                              | Jam nut receptacle       | UTS7104P  | 4                 | 13                                 | 500                      | 14-30               | 2-6                 | IP 68/69K              |
| UTP0104SH                             | Square flange receptacle | UTP0104PH   | 4                 | 13                                 | 500                      | 14-30               | 2-6                 | IP 68                  |
| UTS6JC124P                            | Cable plug               | UTS6JC124S  | 4                 | 13                                 | 500                      | 14-30               | 3-7                 | IP 68/69K              |
| UTS7124S                              | Jam nut receptacle       | UTS7124P  | 4                 | 13                                 | 500                      | 14-30               | 3-7                 | IP 68/69K              |
| UTS6JC106P                            | Cable plug               | UTS6JC106S  | 6                 | 7.5                                | 250                      | 18-26               | 2-6                 | IP 68/69K              |
| UTS7106S                              | Jam nut receptacle       | UTS7106P  | 6                 | 7.5                                | 250                      | 18-26               | 2-6                 | IP 68/69K              |
| UTS6JC147P                            | Cable plug               | UTS6JC147S  | 7                 | 13                                 | 500                      | 14-30               | 6-9                 | IP 68/69K              |
| UTS7147S                              | Jam nut receptacle       | UTS7147P  | 7                 | 13                                 | 500                      | 14-30               | 6-9                 | IP 68/69K              |
| UTS6JC128P                            | Cable plug               | UTS6JC128S  | 8                 | 13                                 | 500                      | 14-30               | 3-7                 | IP 68/69K              |
| UTS7128S                              | Jam nut receptacle       | UTS7128P  | 8                 | 13                                 | 500                      | 14-30               | 3-7                 | IP 68/69K              |
| UTP0128SH                             | Square flange receptacle | UTP0128PH   | 8                 | 13                                 | 500                      | 14-30               | 3-7                 | IP 68                  |
| UTS6JC1210P                           | Cable plug               | UTS6JC1210S                                       | 10                | 7.5                                | 250                      | 18-26               | 3-7                 | IP 68/69K              |
| UTS71210S                             | Jam nut receptacle       | UTS71210P   | 10                | 7.5                                | 250                      | 18-26               | 3-7                 | IP 68/69K              |
| UTS6JC1412P                           | Cable plug               | UTS6JC1412S                                       | 12                | 13                                 | 500                      | 14-30               | 6-9                 | IP 68/69K              |
| UTS71412S                             | Jam nut receptacle       | UTS71412P   | 12                | 13                                 | 500                      | 14-30               | 6-9                 | IP 68/69K              |
| UTP01412SH                            | Square flange receptacle | UTP01412PH  | 12                | 13                                 | 500                      | 14-30               | 6-9                 | IP 68                  |
| UTS6JC1419P                           | Cable plug               | UTS6JC1419S                                       | 19                | 7.5                                | 250                      | 18-26               | 6-9                 | IP 68/69K              |
| UTS71419S                             | Jam nut receptacle       | UTS71419P   | 19                | 7.5                                | 250                      | 18-26               | 6-9                 | IP 68/69K              |

### Related Information ▶

For Contact Selector see page 69.



Jam nut  
receptacle



Square flange  
receptacle



Cable plug



## Trim Trio™ Sealed Metal Circular Connectors

Trim Trio™ sealed metal circular connectors are ideal for indoor and outdoor applications. These rugged connectors offer superior performance against water ingress, even in dynamic situations. They are available in jam nut and square flange receptacles for cable-to-panel applications, and in-line receptacles for cable-to-cable applications.



### Features ▶

- Environmentally sealed to IP 68/69K
- Metal shell and coupling ring
- Bayonet locking system
- Suitable for Trim Trio power, coax, and fiber optic contacts
- Optional PCB tail contacts

### Benefits ▶

- Suitable for indoor and outdoor applications
- Rugged construction
- Reliable and secure mating
- Simplified cabling
- Direct PCB mounting

### Applications ▶

- 3G, WiMAX base stations
- Robotics and automation
- Construction equipment
- Medical testing and measurement equipment
- Industrial capital equipment

### Product Specifications ▶

| Part Number (for "live" box setup) | Description              | Alternate Part Number (for "live" cable setup) | Contact Positions | Maximum Current per Contact (A) | Working Voltage (VAC) | Wire Range (AWG) | Cable Range (mm) | Water Sealing Level |
|------------------------------------|--------------------------|--|-------------------|---------------------------------|-----------------------|------------------|------------------|---------------------|
| UT06104PH                          | Cable plug               | UT06104SH                                      | 4                 | 13                              | 500                   | 14-30            | 2-6              | IP 68/69K           |
| UT07104SH6                         | Jam nut receptacle       | UT07104PH6                                     | 4                 | 13                              | 500                   | 14-30            | 2-6              | IP 68/69K           |
| UT00104SH6                         | Square flange receptacle | UT00104PH6                                     | 4                 | 13                              | 500                   | 14-30            | 2-6              | IP 68/69K           |
| UT06106PH                          | Cable plug               | UT06106SH                                      | 6                 | 7.5                             | 250                   | 18-26            | 2-6              | IP 68/69K           |
| UT07106SH6                         | Jam nut receptacle       | UT07106PH6                                     | 6                 | 7.5                             | 250                   | 18-26            | 2-6              | IP 68/69K           |
| UT0W0106SH6                        | Square flange receptacle | UT0W0106PH6                                    | 6                 | 7.5                             | 250                   | 18-26            | 2-6              | IP 68/69K           |
| UT06128PH                          | Cable plug               | UT06128SH                                      | 8                 | 13                              | 500                   | 14-30            | 3-7              | IP 68/69K           |
| UT07128SH6                         | Jam nut receptacle       | UT07128PH6                                     | 8                 | 13                              | 500                   | 14-30            | 3-7              | IP 68/69K           |
| UT00128SH6                         | Square flange receptacle | UT00128PH6                                     | 8                 | 13                              | 500                   | 14-30            | 3-7              | IP 68/69K           |
| UT061210PH                         | Cable plug               | UT061210SH                                     | 10                | 7.5                             | 250                   | 18-26            | 3-7              | IP 68/69K           |
| UT071210SH6                        | Jam nut receptacle       | UT071210PH6                                    | 10                | 7.5                             | 250                   | 18-26            | 3-7              | IP 68/69K           |
| UT0W01210SH6                       | Square flange receptacle | UT0W01210PH6                                   | 10                | 7.5                             | 250                   | 18-26            | 3-7              | IP 68/69K           |
| UT061412PH                         | Cable plug               | UT061412SH                                     | 12                | 13                              | 500                   | 14-30            | 6-9              | IP 68/69K           |
| UT071412SH6                        | Jam nut receptacle       | UT071412PH6                                    | 12                | 13                              | 500                   | 14-30            | 6-9              | IP 68/69K           |
| UT001412SH6                        | Square flange receptacle | UT001412PH6                                    | 12                | 13                              | 500                   | 14-30            | 6-9              | IP 68/69K           |
| UT0W61419PH                        | Cable plug               | UT0W61412SH                                    | 19                | 7.5                             | 250                   | 18-26            | 6-9              | IP 68/69K           |
| UT0W71419SH6                       | Jam nut receptacle       | UT0W71419PH6                                   | 19                | 7.5                             | 250                   | 18-26            | 6-9              | IP 68/69K           |
| UT0W01419SH6                       | Square flange receptacle | UT0W01419PH6                                   | 19                | 7.5                             | 250                   | 18-26            | 6-9              | IP 68/69K           |

### Related Information ▶

For Contact Selector see page 69.



Jam nut  
receptacle



Square nut  
receptacle



Cable plug



### Trim Trio™ Mixed Power and Signal Connectors

Trim Trio™ mixed power and signal connectors simplify equipment design and cable management by integrating signal and power connections into one composite cable. This compact package makes optimum use of the panel space.

**Features ▶**

- Wire gauge of 8 AWG to 30 AWG
- Identified grounding contacts
- Bayonet locking system
- Plastic connector with metal coupling
- VDE versions available

**Benefits ▶**

- Current rating of 3A to 44A per contact
- Suitable for chassis ground use
- Reliable and secure mating
- Highly durable, lightweight, and economical
- International acceptance

**Applications ▶**

- Motion control
- Professional lighting and theatrical controls
- Robotics and automation
- Smart power distribution units (PDU)
- Telecom power supply and distribution

**Product Specifications ▶**

| Part Number (for "live" box setup) | Description              | Alternate Part Number (for "live" cable setup) | Contact Positions | Maximum Current per Contact (A) | Working Voltage (VAC) | Wire Range (AWG) | Cable Range (mm) | VDE 0110 Group C | Water Sealing Level |
|------------------------------------|--------------------------|--|-------------------|---------------------------------|-----------------------|------------------|------------------|------------------|---------------------|
| UTS6JC103P                         | Cable plug               | UTS6JC103S                                     | 2P + 1G           | 13                              | 500                   | 14-30            | 2-6              | Yes              | IP 68/69K           |
| UTS7103S                           | Jam nut receptacle       | UTS7103P                                       | 2P + 1G           | 13                              | 500                   | 14-30            | 2-6              | Yes              | IP 68/69K           |
| UTS6JC124P                         | Cable plug               | UTS6JC124S                                     | 3P + 1G           | 13                              | 500                   | 14-30            | 3-7              | Yes              | IP 68/69K           |
| UTS7124S                           | Jam nut receptacle       | UTS7124P                                       | 3P + 1G           | 13                              | 500                   | 14-30            | 3-7              | Yes              | IP 68/69K           |
| UTG6103W3PN                        | Cable plug               | NA   | 3P + 3S           | 13                              | 250                   | 14-30            | 2-6              | No               | NA                  |
| UTG1103W3S                         | Cable receptacle         | NA   | 3P + 3S           | 13                              | 250                   | 14-30            | 2-6              | No               | NA                  |
| UTS6JC147P                         | Cable plug               | UTS6JC147S                                     | 6P + 1G           | 13                              | 500                   | 14-30            | 6-9              | Yes              | IP 68/69K           |
| UTS7147S                           | Jam nut receptacle       | UTS7147P                                       | 6P + 1G           | 13                              | 500                   | 14-30            | 6-9              | Yes              | IP 68/69K           |
| UTG6123PN                          | Cable plug               | NA   | 3                 | 26                              | 250                   | 12-16            | 3-7              | No               | IP 65               |
| UTG0123SH                          | Square flange receptacle | NA   | 3                 | 26                              | 250                   | 12-16            | 3-7              | No               | IP 65               |
| UTG6148P24SNVDE                    | Cable plug               | NA   | 3P + 4S + 1G      | 26                              | 250                   | 12-30            | 6-9              | Yes              | IP 65               |
| UTG0148P24PHVDE                    | Square flange receptacle | NA   | 3P + 4S + 1G      | 26                              | 250                   | 12-30            | 6-9              | Yes              | IP 65               |
| UTG6187PNVDEE34                    | Cable plug               | UTG6187SNVDEE34                                | 6P + 1G           | 26                              | 380                   | 12-16            | 7-12             | Yes              | IP 65               |
| UTG0187SHVDEE34                    | Square flange receptacle | UTG0187PHVDEE34                                | 6P + 1G           | 26                              | 380                   | 12-16            | 7-12             | Yes              | IP 65               |
| NA                                 | Cable plug               | UTG62411SN                                     | 3P + 7S + 1G      | 44                              | 600                   | 8-30             | 13-20            | Yes              | IP 65               |
| NA                                 | Square flange receptacle | UTG02411PH                                     | 3P + 7S + 1G      | 44                              | 600                   | 8-30             | 13-20            | Yes              | IP 65               |

**Related Information ▶**

Trim Trio Signal/Power Contact Selector

|                     | CONTACT |          |          | WIRE SIZE (AWG) |                         |         |         |         |         |    |    |    |   |  |  |               |               |               |
|---------------------|---------|----------|----------|-----------------|-------------------------|---------|---------|---------|---------|----|----|----|---|--|--|---------------|---------------|---------------|
|                     | SIZE    | TYPE     |          | 30 - 28         | 26 - 24                 | 22 - 20 | 20      | 18      | 16      | 14 | 12 | 10 | 8 |  |  |               |               |               |
| Current Rating<br>↓ | 5 AMP   | SIZE 20  | STAMPED  |                 | SC20MV1_ SC20V1_        |         |         |         |         |    |    |    |   |  |  |               | SOCKET<br>PIN |               |
|                     | 7.5 AMP | SIZE 20  | MACHINED |                 | RC24MV3_ RC20V3_        | RC18V3_ |         |         |         |    |    |    |   |  |  |               | SOCKET<br>PIN |               |
|                     |         |          |          |                 | RM24MV3_ RM20V3_        | RM18V3_ |         |         |         |    |    |    |   |  |  | SOCKET<br>PIN |               |               |
|                     | 13 AMP  | SIZE 16  | STAMPED  |                 | SC24M1_ SC20M1_         |         | SC18M1_ |         | SC14M1_ |    |    |    |   |  |  |               | SOCKET<br>PIN |               |
|                     | 13 AMP  | SIZE 16  | MACHINED |                 | RC28M1_ RC24M1_ RC20M1_ | RC16M2_ |         |         | RC14M3_ |    |    |    |   |  |  |               |               | SOCKET<br>PIN |
|                     |         |          |          |                 | RM28M1_ RM24M1_ RM20M1_ | RM16M2_ |         |         | RM14M3_ |    |    |    |   |  |  |               |               |               |
| 26 AMP              | SIZE 12 | MACHINED |          |                 |                         |         |         | B291-14 |         |    |    |    |   |  |  |               | SOCKET<br>PIN |               |
| 44 AMP              | SIZE 8  | MACHINED |          |                 |                         |         |         | B291-14 |         |    |    |    |   |  |  |               |               | SOCKET<br>PIN |
|                     |         |          |          |                 |                         |         |         |         | B291-16 |    |    |    |   |  |  |               |               | SOCKET<br>PIN |
|                     |         |          |          |                 |                         |         |         | B291-16 |         |    |    |    |   |  |  |               |               | SOCKET<br>PIN |



## Industrial Ethernet

This rugged connector series meets the Ethernet/IP RJ45 requirements/standards. Designed for use in harsh environments, this series is available in an ODVA inter-operability interface or the reliable CPC interface. This product line also features a tool-less, termination-shielded connector series and printed circuit board-mount versions.



Industrial Ethernet

### Features ▶

- For category 5 and 5e cables
- Sealing performance per IP67
- Protective sealing cap available for connectors
- Shielded and unshielded product offerings
- Pass-through and field-installable receptacles and plugs available

### Benefits ▶

- Rugged design provides reliable connection in harsh environments
- Vibration-resistant
- Bulkhead receptacles mount to either outside or inside panel cutout
- Shielded and unshielded products fully intermateable
- ROHS compliant

### Applications ▶

- Industrial machinery
- Diagnostic equipment
- Communication equipment
- Outdoor communications
- Printers

### Product Specifications ▶

| Part Number | Description  |
|-------------|--|
| 1776186-1   | Receptacle kit, pass-through RJ45, CPC               |
| 1546876-1   | CPC plug kit, unshielded                             |
| 1546907-1   | CPC plug kit, shielded                               |
| 208652-1    | Receptacle sealing cap with beaded chain             |
| 1546877-1   | Receptacle kit, wire-terminated, unshielded, CPC     |
| 1986172-1   | Receptacle kit, shielded pass-through RJ45, CPC      |
| 1903527-1   | Shielded, tool-less, industrial Ethernet plug kit    |
| 1738607-1   | ODVA plug kit  |
| 1738601-1   | ODVA receptacle kit, pass-through                    |
| 1738611-1   | ODVA protective cover                                |
| 1-1546405-1 | Direct PCB 8-pin thru-hole receptacle                |
| 1-1546409-1 | Receptacle with PCB                                  |
| 1-1546410-1 | Receptacle with 12" of cable (10 Base-T)             |
| 1-1546411-1 | Receptacle with 12" of cable (568A)                  |
| 1-1546412-1 | Receptacle with 12" of cable (568B)                  |
| 1546574-1   | Female-to-female adapter                             |
| 1546641-1   | Threaded-through panel interconnect, M40 thread size |
| 1546451-2   | Overmolded 5-meter male-to-male cordset              |
| 1-1546440-1 | RJ-45 plug connector                                 |



AMP power series connectors

## AMP Power Series Connectors

The AMP Power Series Connectors provide a quick, hermaphroditic connect/disconnect means to transmit “power” levels of current and voltage. Eight series, based on approximate current-carrying capability, are available: series 15/30/45, series 50, series 50 FPR (finger probe resistant), series 75, series 120, series 175, series 180, and series 350. The product family is primarily comprised of single-pole and double-pole using cold-headed or stamped and formed contacts.

### Features ▶

- Hermaphroditic (genderless) housing
- Built-in interlocking feature
- Multiple current-carrying capability
- Multiple colors
- Molded in 2-pole polarity (positive and negative)

### Benefits ▶

- Genderless housings reduce inventory
- Stackable single-pole housings in four directions
- Intermateable with similar connectors from other manufacturers
- Adheres to Amateur Civil Emergency Service requirements

### Applications ▶

- Industrial equipment
- Amateur emergency radio
- Power supplies and charging systems
- Rechargeable batteries
- Material handling equipment

### Product Specifications ▶

| Part Number | Description                                | Part Number | Description                               |
|-------------|--|-------------|---|
| 1445957-1   | Series 15/30/45 blue, single-pole housing  | 1604041-1   | Series 175 and Series 180 1 AWG contact   |
| 1445957-2   | Series 15/30/45 black, single-pole housing | 1604054-1   | Series 350 2/0 AWG contact                |
| 647845-3    | Series 50 red, double-pole housing         | 1604051-1   | Series 350 300 MCM contact                |
| 1604342-1   | Series 50 FPR brown, double-pole housing   | 1445120     | Vertical pin header, thru-hole, tin       |
| 1445715-3   | Series 75 white, single-pole housing       | 1445121     | Vertical pin header, surface-mount, tin   |
| 1604001-4   | Series 120 green, single-pole housing      | 1445123     | Vertical pin header, thru-hole, 15 AU     |
| 1445994-1   | Series 120 gray, double-pole housing       | 1445124     | Vertical pin header, surface-mount, 15 AU |
| 1604037-1   | Series 175 yellow, double-pole housing     | 1445125     | Vertical pin header, thru-hole, 30 AU     |
| 1604062-1   | Series 180 blue, single-pole housing       | 1445126     | Vertical pin header, surface-mount, 30 AU |
| 1604050-1   | Series 350 yellow, double-pole housing     | 1445169     | Pin header, R/A, thru-hole, tin           |
| 1744042-1   | Series 15/30/45 16-20 AWG contact          | 1445170     | Pin header, R/A, thru-hole, 15 AU         |
| 1744041-1   | Series 15/30/45 12-16 AWG contact          | 1445171     | Pin header, R/A, thru-hole, 30 AU         |
| 647879-1    | Series 50 10-12 AWG contact                | 1445172     | R/A pin header, surface-mount, tin        |
| 647877-1    | Series 50 and Series 75 6 AWG contact      | 1445173     | R/A pin header, surface-mount, 15 AU      |
| 1445996-1   | Series 120 4 AWG contact                   | 1445174     | R/A pin header, surface-mount, 30 AU      |
| 1445995-1   | Series 120 2 AWG contact                   | NA          | NA  |



## Barrier Strip Terminal Blocks

The Barrier Strip Terminal Block line offers a variety of PCB and panel-mounted configurations. Products are available for high-temperature and corrosive environments. Our terminal blocks are designed to handle up to 30A, accepting up to 10 AWG wires.



Barrier strip terminal blocks

### Features ▶

- Wide variety of configurations
- Ink marking available for circuit identification
- Binding head and wire clamp screws
- Platings for corrosive environments available

### Benefits ▶

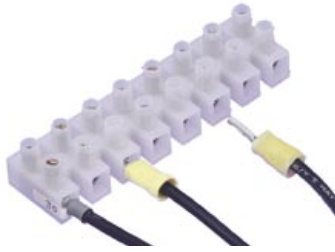
- Reduces PCB space with insulating barriers between circuits
- Reusable screw connections
- Bare wire applications; no need to pre-terminate wires
- UL/CSA-recognized components

### Applications ▶

- Security/alarm devices
- Industrial controls
- HVAC
- Commercial and building equipment
- Household/commercial appliances

### Product Specifications ▶

| Part Number | Description   |
|-------------|---|
| 1546657-4   | .250" dual-barrier, PCB mount, wire clamp, 4-position                           |
| 3-1437667-6 | .325" dual-barrier, PCB mount, wire clamp, 12-position                          |
| 2-1437667-9 | .325" dual-barrier, PCB mount, wire clamp, 6-position                           |
| 1546927-4   | .325" tri-barrier w/cover, PCB mount, wire clamp, 4-position                    |
| 1437648-2   | .325" tri-barrier, dual PCB mount, wire clamp, 2-position                       |
| 7-1437648-4 | .325" tri-barrier, PCB mount, wire clamp, 5-position                            |
| 1546306-6   | .374" double row, panel-mount, binding head screw, 6-position                   |
| 1-1546307-0 | .374" double row, panel-mount, wire clamp, 10-position                          |
| 1437666-1   | .375" dual-barrier, panel-mount, solder turret, wire clamp, 4-position          |
| 3-1437664-1 | .375" dual-barrier, PCB mount, low-profile, wire clamp, 3-position              |
| 2-1437665-2 | .375" dual-barrier, PCB mount, wire clamp, 4-position                           |
| 2-1437662-4 | .375" tri-barrier, panel-mount, quick connect feed-thru, wire clamp, 3-position |
| 5-1437652-4 | .375" tri-barrier, PCB mount, wire clamp, 3-position                            |
| 6-1437651-9 | .375" tri-barrier, R/A PCB mount, wire clamp, 3-position                        |
| 1546670-4   | .437" double row, panel-mount, binding head screw, 4-position                   |
| 3-1546561-1 | .437" dual-barrier, panel-mount, quick connect top-hardware, 2-position         |
| 2-1437416-2 | .437" dual-barrier, PCB mount, wire clamp, 6-position                           |
| 1-1437657-8 | .437" tri-barrier, dual PCB mount, binding head screw, 6-position               |
| 9-1437657-8 | .437" tri-barrier, PCB mount, wire clamp, 6-position                            |
| 1546310-3   | .563" double row, panel-mount, binding head screw, 3-position                   |



Europa blocks

## Europa Blocks

Europa Blocks are available in 8 mm, 10 mm, 12 mm, 13.5 mm, and 14.5 mm centerlines. Two connection styles are offered with and without a wire protector. The wire protector style has a plate to shield the wire from being cut by the screw. The tunnel connection option is used with solid wire, eliminating the need for a protective plate.

### Features ▶

- Broad wire range can be used with 6 AWG to 26 AWG wire, depending on model selected
- All models are available with wire protectors to eliminate breakage of stranded wire
- Captive screws supplied in open position and ready to wire
- Wire stop available on TSB500 and TSB1000 styles upon request

### Benefits ▶

- Modular design; can be cut into smaller sizes without altering electrical properties
- Parts are finger-safe
- Tubular contacts

### Applications ▶

- Motor controls
- Power supplies
- Transformers
- HVAC
- Household/commercial appliances

### Product Specifications ▶

| Part Number | Description    |
|-------------|----------------|
| 1776293-1   | TSB230 01DS    |
| 1-1776293-2 | TSB23012DS     |
| 1776294-2   | TSB230 02      |
| 1776296-2   | TSB500 02 31DS |
| 1776296-3   | TSB500 03 31DS |
| 1776296-6   | TSB500 06 31DS |
| 1-1776296-0 | TSB500 10 31DS |
| 1-1776296-2 | TSB500 12 31DS |
| 1776302-2   | TSB1000 02DS   |
| 1776302-3   | TSB 1000 03 DS |
| 1776304-6   | TSB1000 06DSHT |
| 1776312-2   | TSB2000 02 DS  |
| 1776312-3   | TSB2000 03 DS  |
| 1776312-6   | TSB2000 06 DS  |
| 1776315-3   | TSB2000 03DSUS |
| 1776315-6   | TSB2000 06DSUS |



## Eurostyle Terminal Blocks

Eurostyle terminal blocks offer many configurations based on centerline spacing, current rating, voltage rating, mounting styles, temperature rating, screw torque, and color. For instance, there are versions available in one-piece, two-piece, and screwless styles, and parts are available with side-wire, top-wire, and angled-wire entry. The product is also offered in a variety of centerlines. Most configurations are modular and many colors are available.



Eurostyle terminal blocks

### Features ▶

- Screw-wire termination styles in both cage-clamp and wire protector styles
- Various screwless-type connector styles with spring-type connection
- One and two-piece connectors available in an array of centerlines
- Blocks are supplied with open screws, which shortens time for connection

### Benefits ▶

- High reliability for cage-clamp versions
- Wire protector version lower in price
- Most parts are stackable from end to end, without loss of centerline spacing
- Connectors are interchangeable with most existing products

### Applications ▶

- Security/alarm devices
- Industrial controls
- Irrigation controls
- HVAC
- Power supplies

### Product Specifications ▶

| Part Number | Description   |
|-------------|---|
| 282830-3    | Terminal block plug 90/180 degree stacking, 5.00 mm pitch, 3P                             |
| 282830-6    | Terminal block plug 90/180 degree stacking, 5.00 mm pitch, 6P                             |
| 1546391-2   | Unshrouded pin header 5.0 mm pitch, 2P  |
| 1546391-3   | Unshrouded pin header 5.0 mm pitch, 3P  |
| 1546391-6   | Unshrouded pin header 5.0 mm pitch, 6P  |
| 282836-2    | Terminal block PCB mount, side-wire entry 5 mm pitch, green, 13.5A, 2P                    |
| 282836-3    | Terminal block PCB mount, side-wire entry 5 mm pitch, green, 13.5A, 3P                    |
| 796682-2    | Terminal block PCB mount, side-wire entry 5 mm pitch, black, 17.5A, 2P                    |
| 282837-2    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 13.5A, 2P                 |
| 282837-3    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 13.5A, 3P                 |
| 282837-6    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 13.5A, 6P                 |
| 3-282837-2  | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 13.5A, 13P, spcl. marking |
| 3-282837-3  | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 13.5A, 9P, spcl. marking  |
| 282841-3    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green 17.5A, 3P                  |
| 796949-2    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, black, 17.5A, 2P                 |
| 796949-3    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, black, 17.5A, 3P                 |
| 796949-4    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, black, 17.5A, 4P                 |
| 282857-3    | Terminal block PCB mount, side-wire entry 5.08 mm pitch, green, 24A, 3P                   |
| 796689-3    | Terminal block PCB mount, angled-wire entry, 5.0 mm pitch, black, 3P                      |
| 284093-2    | Terminal block PCB mount, top-wire entry 5.0 mm pitch, green, 2P                          |
| 284093-6    | Terminal block PCB mount, top-wire entry 5.0 mm pitch, green, 6P                          |
| 282966-6    | Terminal block pin header 90 degree, closed ends, 7.62 mm pitch, green, 6P                |

| Part Number | Description  |
|-------------|--|
| 284506-3    | Terminal block plug 90 degree stacking, 3.5 mm pitch, green, 3P            |
| 796693-7    | Terminal block plug 90 degree stacking, 3.5 mm pitch, blue, 7P             |
| 284507-4    | Terminal block plug 90 degree stacking, 3.81 mm pitch, green, 4P           |
| 284512-3    | Terminal block pin header 90 degree, closed ends, 3.5 mm pitch, green, 3P  |
| 284513-7    | Terminal block pin header 90 degree, closed ends, 3.81 mm pitch, green, 7P |
| 284514-5    | Terminal block pin header straight closed ends, 3.5 mm pitch, green, 5P    |
| 796694-3    | Terminal block pin header straight closed ends, 3.5 mm pitch, blue, 3P     |
| 796694-8    | Terminal block pin header straight closed ends, 3.5 mm pitch, blue, 8P     |
| 1-796694-0  | Terminal block pin header straight closed ends, 3.5 mm pitch, blue, 10P    |
| 1776263-2   | Terminal block flush-mount plug, w/wire protection, 5.0 mm pitch, blue, 2P |
| 1776263-3   | Terminal block flush-mount plug, w/wire protection, 5.0 mm pitch, blue, 3P |
| 1776263-6   | Terminal block flush-mount plug, w/wire protection, 5.0 mm pitch, blue, 6P |
| 1776489-2   | Unshrouded pin header 5.0 mm pitch, blue, 2P                               |
| 796634-3    | Terminal block plug 90 degree stacking, 5.08 mm pitch, green, 3P           |
| 796634-4    | Terminal block plug 90 degree stacking, 5.08 mm pitch, green, 4P           |
| 796634-6    | Terminal block plug 90 degree stacking, 5.08 mm pitch, green, 6P           |
| 796634-7    | Terminal block plug 90 degree stacking, 5.08 mm pitch, green, 7P           |
| 796634-8    | Terminal block plug 90 degree stacking, 5.08 mm pitch, green, 8P           |
| 796638-3    | Terminal block pin header 90 degree, closed ends, 5.08 mm pitch, green, 3P |
| 796638-4    | Terminal block pin header 90 degree, closed ends, 5.08 mm pitch, green, 4P |
| 796638-6    | Terminal block pin header 90 degree, closed ends, 5.08 mm pitch, green, 6P |
| 796638-8    | Terminal block pin header 90 degree, closed ends, 5.08 mm pitch, green, 8P |



Circular Plastic Connectors (CPC)

## Circular Plastic Connectors (CPC)

Tyco's circular plastic connectors offer a circular design consisting of a receptacle and plug assembly. They are available in standard density using size 16 signal contacts (series 1), high density using size 20 signal contacts (series 2), power density using type XII contacts (series 3), power and signal combination (series 4), sealable power using 0.125 powerband contacts (series 5), and a sealable power and signal combination (series 6). These connectors support wire-to-wire, wire-to-panel, and wire-to-board applications.

### Features ▶

- Quick connect/disconnect coupling ring
- Positive lock mating threads
- Removable contacts
- Multiple shell sizes
- Sealing available

### Benefits ▶

- Packaging versatility
- Design/application flexibility
- Easy field repair
- Readily available

### Applications ▶

- Industrial machinery
- Electronic/thermal controls
- Rail
- Mil aero
- Highway equipment

### Product Specifications ▶

| Part Number | Description   |
|-------------|---|
| 206061-1    | Receptacle square flange, series 1, size 11-4           |
| 206060-1    | Plug, size, series 1, 11-4                              |
| 208131-1    | Receptacle square flange, series 1, size 13-9           |
| 206708-1    | Plug, series 1, size 13-9                               |
| 206036-8    | Receptacle square flange, series 1, size 17-16          |
| 206037-1    | Plug, series 1, size 17-16                              |
| 211839-1    | Receptacle square flange, series 1, size 23-24          |
| 206837-1    | Plug, series 1, size 23-24                              |
| 206151-1    | Receptacle square flange, series 1, size 23-37          |
| 206150-1    | Plug, series 1, size 23-37                              |
| 205841-1    | Receptacle square flange, series 2, size 11-8           |
| 205838-1    | Plug, series 2, size 11-8                               |
| 206036-2    | Receptacle square flange, series 3, size 17-3           |
| 206037-2    | Plug, series 3, size 17-3                               |
| 207486-1    | Receptacle square flange, series 4, size 23-16          |
| 207485-1    | Plug, series 4, size 23-16                              |
| 788189-1    | Receptacle square flange, series 5, size 17-3           |
| 788188-1    | Plug, series 5, size 17-3                               |
| 213893-2    | Receptacle square flange, reverse, series 6, size 17-10 |
| 213906-1    | Plug, reverse, series 6, size 17-10                     |



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