MILITARY | MOTORSPORT | INDUSTRIAL

PRODUCT RANGE
VGL Impex Pty Ltd, trading as Allied Connectors, is an Australian based distributor of industrial electrical components and complementary products. Established in 1989, we strive to provide expert advice and outstanding service to both local and international markets.

- MILSPEC AND INDUSTRIAL CONNECTORS
- CABLE CHAIN AND CONDUIT
- TERMINALS AND SWITCHGEAR
- COPPER AND ALUMINIUM CONNECTIONS
### Capabilities

- **Global Supplier Network**
- **Technical Expertise**
- **Application Support**
- **Connector Design**
- **Cable Assembly Services**
- **Custom Cable Design and Production**

### Accreditations

- **ISO 9001:2008 Quality Management System**
- **Australian Industry Defence Network Member**
- **Defence Recognised Supplier**
- **Energy Safe Victoria - Compliance of 3-Phase/Single Phase Connectors to AS/NZS 3123:2005**
- **Certified IPC Specialists:**
  - IPC/WHMA-A-620B (Requirements and Acceptance for Cable and Wire Harness Assemblies)
5015 SERIES (BASED ON Mil-DTL-5015)

**Mil-DTL-5015**

Threaded coupling
Aluminium alloy shell with various plating options

Solder / Crimp contacts; gold/silver plated; 1 - 104 contact arrangements

*Operating Temperature*: -55°C to 125°C
*Current / Voltage Rating*: 10 - 150 A, 250 - 4200 V DC, 200 - 3000 V AC rms

IP65-IP67 mating with back-shells for EMC 360° screen termination, shrink boot, metric adaptors

**Mil-DTL-MS3450**

Threaded coupling
Aluminium alloy shell with various plating options

Solder / Crimp contacts; gold plated; 1 - 104 contact arrangements

*Operating Temperature*: -55°C to 200°C
*Current / Voltage Rating*: 10 - 150 A, Up to 300 V AC rms

IP65-IP67 mating with backshells for EMC 360° screen termination, shrink boot, metric adaptors

**MG Series VG95234**

Reverse bayonet coupling
Aluminium alloy shell

Solder / Crimp contacts; gold/silver plated; 1 - 104 contact arrangements

*Operating Temperature*: -55°C to 200°C
*Current / Voltage Rating*: 10 - 150 A, 250 - 4200 V DC, 200 - 3000 V AC rms

IP65-IP67 mating with back-shells for EMC 360° screen termination, shrink boot, metric adaptors

**MG Stainless Steel**

Reverse bayonet coupling
304 stainless steel natural passivated rugged shell

7 insert arrangements

*Operating Temperature*: -55°C to 125°C
*Current / Voltage Rating*: 10 - 25 A; 250 - 4200 V DC, 200 - 3000 V AC rms

IP67 with stainless steel metric adaptors and glands
## Mil-DTL-26482 Series I

Miniature bayonet coupling, manufactured to Mil-DTL-26482 Series I  
Aluminium alloy shell with various plating options, ROHS compliant  
Solder / Crimp contacts; PCB gold plated; 2 - 61 contact arrangements  

*Operating Temperature*: -55°C to 125°C  
*Current / Voltage Rating*: 10 - 150 A, Up to 1500 V DC or AC Peak  
IP65-IP67 mating with back-shells for EMC 360° screen termination, shrink boot, metric adaptors

## Mil-DTL-26482 Series II

Miniature bayonet coupling, manufactured to Mil-DTL-26482 Series II  
Aluminium alloy shell with various plating options, ROHS compliant  
Crimp contacts; PCB gold plated; 3 - 61 contact arrangements  

*Operating Temperature*: -55°C to 200°C  
*Current / Voltage Rating*: 23 A, Up to 2300 V AC  
IP65-IP67 mating with back-shells for EMC 360° screen termination, shrink boot, metric adaptors

## Mil-DTL-26482 Filter Connectors

Manufactured to MIL-DTL-26482 Series I  
Filter version for EMI Suppression  
PCB gold plated contacts  
Individual or combined circuit types and capacitance values  
Reduces board space required for filtering  
RoHS compliant & cadmium-free finishes available
Mil-DTL-38999 Series I

Bayonet coupling

Light weight/high density aluminium alloy shell with various plating options

Crimp (removable), PCB gold plated, 2 - 128 contact arrangements

*Operating Temperature:* -65°C to 200°C
*Current / Voltage Rating:* 1.5 - 23 A, Up to 2300 V AC

Back shells for EMC 360° screen, shrink boot, metric adaptors

Full QPL certification

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Mil-DTL-38999 Series II

Bayonet coupling

Light weight/high density aluminium alloy shell with various plating options

Crimp (removable), PCB gold plated, 3 - 128 contact arrangements

*Operating Temperature:* -65°C to 200°C
*Current / Voltage Rating:* 1.5 - 23 A, Up to 2300 V AC

Back shells for EMC 360° screen, shrink boot, metric adaptors

Full QPL certification

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Mil-DTL-38999 Series III

Tri-start, self locking screw coupling

Light weight/high density aluminium alloy Shell with various plating options

Crimp (removable), PCB gold plated, 3 - 128 contact arrangements

*Operating Temperature:* -65°C to 200°C
*Current / Voltage Rating:* 1.5 - 46 A, Up to 2300 V AC

Back shells for EMC 360° screen, shrink boot, metric adaptors

Full QPL certification
Mil-DTL-38999 SERIES III Composite

Tri-start, self locking screw coupling

25 - 30% lighter than standard aluminium connector; cadmium or electroless nickel plating options

Crimp (removable), PCB gold plated, 2 - 128 contact arrangements

*Operating Temperature*: -55°C to 125°C

*Current / Voltage Rating*: 1.5 - 46 A, Up to 2300 V AC

Qualified to 500 mating cycles

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Mil-DTL-38999 SERIES III Stainless Steel

Tri-start, self locking mechanism prevents unscrewing at high vibration

Stainless steel firewall scoop-proof, high density connector

Passivated and nickel plating available

Crimp (removable), PCB gold plated, 2 - 128 contact arrangements

*Operating Temperature*: -55°C to 200°C

*Current / Voltage Rating*: 1.5 - 46 A, Up to 2300 V AC

Qualified to 500 mating cycles

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Mil-DTL-38999 SERIES QUADRAX

Robust with self-locking screw mechanism for high vibration applications

Shell material available in aluminium, composite, stainless steel and bronze

Crimp (removable), PCB gold plated, 2 - 128 contact arrangements

Contacts in both 100Ω & 150Ω

Contact size 8 layouts fit in standard #8 cavities

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Mil-DTL-38999 SERIES III Elio®

Elio® High speed, fibre optic connectors housed in Mil-DTL-38999 connector platforms

1 - 24 contacts for harsh environment in aluminium, composite, stainless steel and bronze shell

Plating finish in ROHS compliant zinc nickel and zinc cobalt

Termination and polishing available

Supply of Elio pigtails and patch cords to Elio to SC/LC/FC/ST terminations
**38999 SERIES**

**Mil-DTL-38999 SERIES III JVC Marine**

- Nickel aluminium bronze alloy shells
- Outstanding saltwater corrosion protection
- Signal, power, coaxial, triax, quadrax and optical contacts available
- Grounding fingers allowing shell to shell continuity

**Mil-DTL-38999 SERIES III Protective Caps**

- Protective caps in rubber and metal with wire rope or nylon cords
- Wide choice of plating finishes available
- Full QPL certification

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**MICRO MINIATURE CIRCULAR**

**2M Series**

- 71% lighter and 52% smaller than standard Mil-DTL-38999 connectors
- Coupling in Tri-Start, Push-pull, Quarter turn bayonet-lock and threaded coupling half turn to full mate
- Shell styles black anodised, electroless nickel, cadmium, Dumalon passivated & zinc-nickel
- Crimp, gold plated, 1 - 130 contact arrangements

*Operating Temperature:* -55°C to 200°C
*Current / Voltage Rating:* 20 A, Up to 1800 V AC

**8DA / 8BA / 8LTA**

- For harsh environment environments requiring high performance and miniaturized connectors
- Silicone elastomer grommet and sealing from -55°C to 175°C
- 3 plating finishes and 3 shell sizes, removable contacts #22D & #26D
- Qualified for 250, 500 and 1000 mating cycles depending on material PCB tails on request; scoop-proof
- 8DA threaded coupling, triple start thread
- 8BA Break-away for quick disconnect
- 8LTA bayonet coupling miniaturization of Mil-DTL-38999 Series I
### AUDIO AND D-SUB

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>Mil-DTL-55116</td>
<td>164 Series full QPL certification to Mil-DTL-55116&lt;br&gt;Audio 5 &amp; 6 Pin for low voltage audio frequency&lt;br&gt;3 Point bayonet coupling for quick disconnect and self-wipe contact, 500 mA per contact&lt;br&gt;&lt;br&gt;<em>Operating Voltage:</em> 60 V max&lt;br&gt;<em>Material:</em> Stainless steel sand blasted; alternative black finish available</td>
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<tr>
<td>Mil-DTL-24308</td>
<td>High density insert arrangement&lt;br&gt;Full QPL certification to Mil-DTL-24308&lt;br&gt;Aluminium, stainless steel or brass shell material&lt;br&gt;Crimp, solder or PCB terminations in tin/gold and gold plating&lt;br&gt;&lt;br&gt;<em>Operating Temperature:</em> -55°C to 125°C</td>
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<tr>
<td>Mil-DTL-83513</td>
<td>Aluminium alloy shell styles&lt;br&gt;9 - 100 circuits; Crimp, PCB &amp; coaxial terminations in gold plating&lt;br&gt;&lt;br&gt;<em>Operating Temperature:</em> -55°C to 125°C&lt;br&gt;<em>Current / Voltage Rating:</em> 2.5 A, 600 V AC</td>
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### HIGH SPEED SERIES

<table>
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<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>RJ45 / USB</td>
<td>Mil-DTL-26482 &amp; Mil-DTL-38999 Derived&lt;br&gt;High reliability USB (2.0) 480 Mbit/s; RJ Cat 5e pe ISO/IEC 11801 or RJ45 - Cat 6a (10Gb)&lt;br&gt;IP68 sealing for fluid and dust environment; high shock, vibration and mechanical impact protection&lt;br&gt;Threading push-pull, bayonet, triple start threaded&lt;br&gt;Shell styles in aluminium, marine bronze, stainless steel along with titanium and composite options for light weight applications&lt;br&gt;<em>Shell Plating:</em> cadmium anodised, electroless nickel, zinc cobalt black or green&lt;br&gt;<em>Temperature Rating:</em> -40°C to 85°C&lt;br&gt;Fully 360° EMC &amp; mechanical protection</td>
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MOTOR SPORT SERIES

8STA Standard

- Rugged aluminium body in the harshest environments
- Plating in conductive zinc or nickel
- 128 contacts, 5 shell styles, 6 or 7 colour coded
- Sealed to IP67 with integrated back shell to accommodate heat shrink boot
- Operating Temperature: -55°C to 175°C

8STA High Density, PCB

- High density available in 7 sizes; contacts #26 for AWG 24 to 30
- Compact solution for motor sport engine and data acquisition
- PCB connectors derived from Mil-DTL-38999 & Eurofighter JN 1003
- Available in 12 shell sizes to specific PC tail lengths

8STA Power

- Common size #4 contact for wire sizes 8, 10, 16, 25 & 35 mm²
- Ideal for high power applications up to 200 A
- Space and cost saving with mixed connectors allowing one connector to transmit power and signal
**MOTOR SPORT SERIES**

**8STA Hermetic / Fuel Immersible**

- Hermetic Shell Size 02 - smallest hermetic 5-way PC tail connector
- Light weight 8STA ideal for welding directly to sensor bodies
- Hermetically sealed to 1.10-7 cm³/s
- Hermetic Fuel Tank sealed to 1.10-7 cm³/s @ 15 PSI
- Excellent resistance to racing fuels and fluids and pressure differential without loss of electrical performance
- Continuous fuel immersion without loss of performance using special fuel resistant insert

**8STA/8TA Derived Series**

- Blind mating for quick connection to hard to reach places using 8STA plug compensating for misalignment
- Through bulkhead offering advantage over conventional plugs and receptacles
- Double receptacle mounted offering simplified connection through a bulkhead
- Male/female single way power contact size 4 in shell size 12
- Steering Boss System in 2 sizes 10 & 12 with standard insulators

**8STA Gaskets, Nut Plates, Protective Caps**

- Viton® rubber gaskets designed for two-hole mounting; available in 13 sizes
- Excellent resistance to motorsport fuels and fluids; nut plates designed for two hole mounting in autosport / motorsport connectors
- Speed up installation in hard to reach locations
- Light-weight, corrosion resistant, anti-vibration with self locking design
- Protective caps in aluminium body for long life in harsh environment
- Ultra-compact, lightweight, shock, vibration and salt spray resistant available in 12 sizes

**Heat Shrink Boots**

- Hellermann Tyton heat shrink boots for strain relief for connector back shells to cable terminations
- Range of adhesive lined, plain and specialised shapes
- Available for all circular connectors including Souriau 8STA, 38999 and micro 38999 range
### AMPHE-EX

- **Aluminium alloy, brass and stainless steel**
- Shell plating anodised black
- Crimp (removable) contacts; thermocouple, coaxial and pre-terminated;
  2 - 79 contact arrangements
- Signal, power, coaxial, triax, quadrax, and optical contacts available
- **Operating Temperature:** -20°C to 140°C
- **Current / Voltage Rating:** 1.5 - 46 A; Up to 2300 V AC

### AMPHE-Star-Line EX

- **Aluminium allow, brass or stainless steel**
- Hard anodic black shell plating
- **Operating Temperature:** -20°C to 140°C; working voltage up to 2300 V AC
- **Current / Voltage Rating:** Up to high amperage to 1135 A at 1000 V AC or DC;
  working voltage up to 2300 V AC
- 1 - 143 contact arrangements
- ATEX certified & IEC Ex Certified

### TROLEX FALCON Series

- Three stage, double bayonet locking system
- Rear loading assembly reducing time
- Multi-spring contacts with low insertion force with high contact and
  low insertion force
- Shell material in stainless steel or hard anodised marine grade aluminium
- ATEX Certified & IEC Ex Certified

### Explosion Proof Cable Assembly

Data, Power, Fiber Optics and signalling design and manufacture (Engineered Zone 1 and 2 Hazardous Area)
This includes the standard cable assemblies and Exe/Exd Enclosures with connectors and cable attachments
Tests include high voltage, continuity, insulation resistance and dielectric withstand
IPC620 Certified

Please contact us for further information.
HIGH VOLTAGE CONNECTORS

MILSPEC Single Phase / 3-Phase

MIL-Specification 3-Phase/5-Pin
MIL-Specification Single-Phase/3-Pin

ESV Approved connectors - certified for low voltage electrical installation
One dedicated earth contact with mate-first/break-last features, positively connected to the body of the connector
Panel mount, cable connecting, straight & right angle, jam nut/in-line

CONNECTOR ACCESSORIES

ACCESSORIES

Back shells, adaptors, heat shrink boots, dust covers in metal, plastic and rubber
Accessories available for military circular or non-circular connectors
Circular non-screened and screened adaptors in 45° and 90° options
Non-circular screened and non-screened rectangular adaptors with wide choice of styles
Shrink boot adaptors / Shorting cap back shells; Environmental and non-environmental back shells
EMI-RFI back shells both environmental and non-environmental
Banding and crimp ring screen termination back shells
Micro D and D subminiature back shells
Various plating options available upon request
EXTENDED PRODUCT RANGE

TRIM TRIO

CEEtyp PLUGS AND SOCKETS

PROCON RECTANGULAR

SWITCHGEAR

FLEXIBLE BRAIDS & CONNECTIONS

DIN RAIL TERMINALS

CABLE CHAIN

CONDUIT & FITTINGS