



# INDIA'S FIRST CONNECTOR COMPANY

Since its inception in 1966, the name Allied Electronics Corporation - widely known as Allied Connectors - has been synonymous with reliability and trust. Allied is one of the leading manufacturers of a wide range of circular multi-pin connectors. Allied has pioneered the development and indigenisation of connectors for sectors that have driven India's economic growth over the last few decades - such as Defence, Railways, Power Plants, Construction Equipment, Process Control Electronics, CNC Machines, and many others.



Research Design & Standards  
Organisation



## WHAT MAKES ALLIED THE BEST IN CLASS

Allied is the supplier of choice for hundreds of customers around the world.

Following are just some of the reasons why the company has earned the trust of its customers:

- **Focused expertise and experience** of over five decades
- Zero Compromise on **Quality**
- Integrated **in-house manufacturing** facility
- **Capacity** to handle projects of all magnitudes
- Proficiency in **Customization**
- **Quick Prototype Sampling**
- **Quick Delivery** for standard products
- **Personal Attention** and Swift Response
- **Commitment to Relationships**



## Qualifications & Approvals

- Range MS, Range MG, Range Russian/Metric, Range MGE qualification approved by LCSO - Ministry of Defence, Government of India
- Approved supplier to Indian Railways by R.D.S.O (Research Design and Standards Organisation) and CLW (Chittaranjan Locomotive Works)
- ISO 9001:2015 certified company
- Allied MS and MG range have been tested and certified as 'CE' compliant
- RoHS and REACH compliant finishes approved by TUV
- Halogen-free flame-retardant insulator material qualified to EN45545 and conforms to French standard NF F 16-101 classification 12F1 and British specification BS 6853app. A clause A.9 and app. B clause B.5.1
- A flame-retardant version of Polychloroprene insulating material available, qualified to UL 94 V-0
- IP65, IP67 performance on select connectors, tested at ERTL



## MS CONNECTORS



### Circular Threaded Connectors as per JSS 50812 (equivalent to MIL C 5015)

Allied MS connectors are ideal for use in harsh environments, where power/signal has to be transmitted in an environment of extremely low or high temperatures, humidity, and vibration. Apart from providing mechanical protection to the contacts, the connectors are lightweight and easy to handle, which facilitates ease of mating/un-mating.

- Shell - Aluminium alloy
- Finish - Olive drab cadmium (standard),
- RoHS + REACH finishes - Zinc cobalt black, Zinc Cobalt green, Nickel, Zinc Nickel black
- Insulator - Polychloroprene (standard), Silicon, Viton, Flame retardant halogen free elastomer EN45545, Polychloroprene UL94V-0
- Contacts - copper base alloy, silver plated (standard) or gold plated (optional)
- Contact termination – solder (standard), crimp type (optional)
- Over 150 insert arrangements and 13 shell sizes for signal, power, and combination of signal-power interconnections
- Qualification approved by LCSO, Government of India
- Connectors with EMI/RFI shielding facility, IP 67 compliance, Pre-Mating Earth Contact, and many other special and customised features available – *please see 'customised products' section and consult factory for more details*



## RAILWAY CONNECTORS



Allied offers a wide range of internationally compatible connectors for railway locomotives of different origins - diesel as well as electric. The applications include locomotive control systems, safety systems, communication systems, signalling systems, air-conditioning systems, critical braking systems, amongst many others.

- Allied Railway connectors inter-mate with connector types GB, CA, CIR, IT, etc.
- Connectors available with flame retardant halogen free insulating material (EN45545 qualified)
- Interconnect solutions such as Shore Supply Unit, Work Shop Supply Unit, connector for Woodward Governor, railway specific cable harnesses also developed
- Connectors also supplied for Suburban Trains such as MEMU, DEMU, EMU, and Metro trains





# MG CONNECTORS



## Circular Bayonet Coupling Connectors as per JSS 50815 (equivalent to VG95234)

Allied MG connectors are quick coupling connectors. Complete mating is achieved with a 120 degree rotation of the coupling nut, providing an audible and tactile 'click' on mating. These connectors provide all the salient features of the MS range, with additional ease of use for applications requiring frequent coupling/decoupling, ruggedized construction, improved ingress protection, and higher resistance to vibration.

The 'MGR' Range is an advanced version of the MG range, which incorporates a stainless steel 'wear pin' on the receptacle, and cable plug with spring and washer under coupling nut. This helps achieve enhanced coupling/uncoupling performance (2000 mating cycles) and superior performance under vibration.

- Quick coupling/decoupling with an audible and tactile 'click'
- Resistant to heavy vibration
- Qualification approved by LCSO, Government of India
- Connectors with EMI/RFI shielding facility, IP 67 compliance, Pre-Mating Earth Contact, and many other special and customised features available - *please see 'customised products' section and consult factory for more details*
- Single pin high power connectors - Allied MGE range (which conforms to VG96929) - for high current (upto 750A), low voltage power connections for military and industrial applications





## METRIC CONNECTORS

### Circular Threaded Coupling Connectors conforming to Russian specification

Manufactured as per JSS 50860, Allied Metric series connectors are mainly used in tanks, naval vessels, and military vehicles which are based on Russian design.

- Designed, manufactured and qualified to JSS 50860 (Eqv. GOST Russian Stds.)
- Rugged Military Design
- Fully Compatible with Connectors on Russian Equipments
- Tropicalised Construction for Indian Conditions
- Variety of Power & Signal Combinations
- Available with Hard Thermoset glass fibre filled Insulator
- Approved by LCSO – Electronic Components Standards Organisation, Ministry of Defence, Government of India



## D38999 CONNECTORS

Allied is the exclusive Assembly Distributor (V.A.D.) of Souriau – France for D38999 Series III connectors in India.

These Connectors are in accordance with Mil C 38999 Series III and PrEN 3645 standard. Applications include Aeronautics & Military, Marine & Offshore and Industrial.

- QPL qualified
- High contact density up to 128 pins (AWG 22D, 20, 16, 12 & 8)
- 100% scoop proof offering polarizing options by angular positioning of keys
- EMI enhanced protection by shielding ring and shell to shell bottoming
- Endurance: > 500 cycles

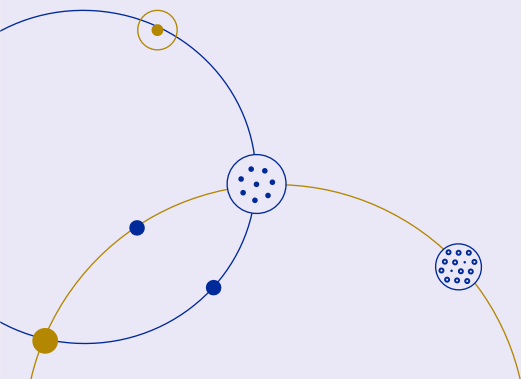


  
**SOURIAU**  
Connection Technology

## CABLE HARNESS ASSEMBLIES

Allied offers industrial, defence and railways customers complete cable harness assembly solutions.

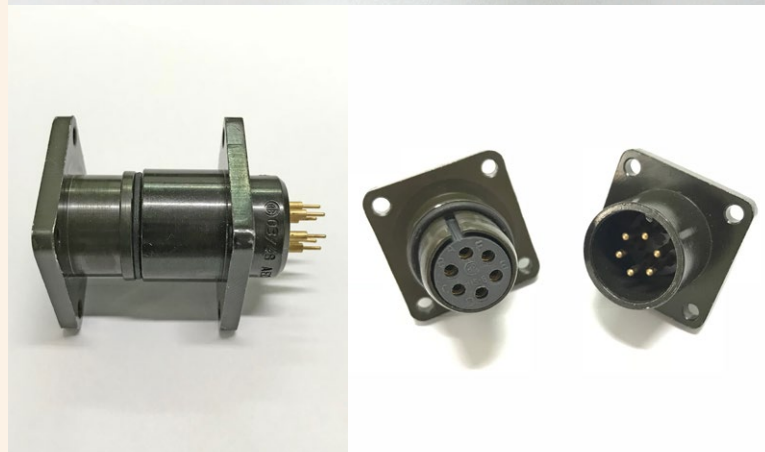
- Both 'built to spec' and 'built to print' harnesses available
- Harnesses include **one-to-one, one-to-many branch, and multi-branched** complex types
- Built up wires, jacketed cable, braided and heat shrink sleeve shrouded and cable conduit type assemblies available for signal and power applications
- Various special variants, backshells, adaptors, and application specific terminations designed and manufactured as part of the complete solution



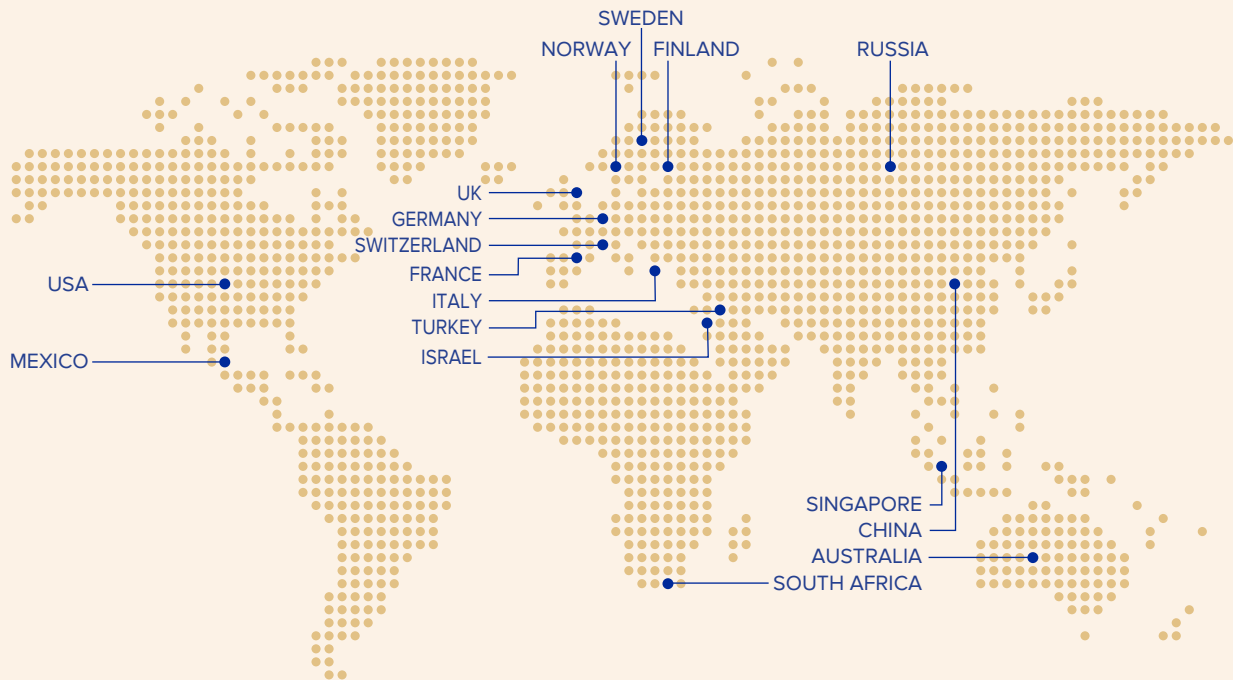
## CUSTOMISED CONNECTORS

Allied's USP lies in its ability to provide customized solutions for challenging applications. With an experience of over 5 decades and an integrated manufacturing infrastructure, Allied helps convert customer ideas into cost effective, reliable and robust connector solutions.

- Ruggedised RJ45 Cat6a Ethernet connector - IP67 compliant
- **Stainless Steel** connectors with **Viton** insulation
- **Screw termination, PCB termination, Lug termination** contacts in select sizes
- Single pin high power connectors - **Allied MGE range** (conforming to VG96929) for high current (**up to 750A**), low voltage power connections for military and industrial applications
- First mate last break type 'pre-mating' contact with **permanent grounding** option
- Panel mount plug and receptacle pair for push-pull connection
- Connectors to withstand extreme high voltage applications (**up to 7kV**)
- And many more!!



## GLOBAL PRESENCE



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