



CIRCULAR CONNECTORS FOR RAILWAY APPLICATIONS

Allied Connectors components are used widely within the Indian railway industry and its many contractors across the Indian subcontinent. They are utilized in up to 70-80% of equipment parts of the locomotive namely;

- 3-phase electric WAG locomotives
- direct current conventional WAP locomotives
- diesel electric WDG & WDP GM - EMD locomotives
- diesel electric WDM locomotives (Siemens)
- Alco locomotives (GE)
- suburban passenger trains & passenger carriages
- railway signalling & train anti-collision equipment

Testing & Certification

1. Connectors manufactured to Joint Service Specifications - Government of India JSS 50815 (equivalent to European Specification VG95234)
2. Vibration & Shock Test - IEC61373:2010
3. Fire Retardant Test - For non-metallic parts of the connector, as per IS11731, Part 1 & Part 2
4. Water Ingress Test

CURRENT APPLICATIONS

Application: Passenger announcement system in coach
Customer: Bombardier Transportation



AEC CHMG 4 PIN

4-Pin connector with Gold Flash contacts, cable assembly with braided cable and PG13.5 Brass Cable Gland for screening cable

Application: Coach to coach intercom
Customer: Bombardier Transportation



AEC CHMG 48 PIN

48-Pin connector with Gold Flash contacts cable assembly with braided cable and PG13.5 Brass Cable Gland for screening cable

Application: Auxiliary converter and power converter for 3-phase electric locomotive (WAG9 & WAP5)
Customer: Bombardier Transportation



Wall Mount Receptacle

Male, Shell Size 40, 35-Pin, 12 AWG contacts



Straight Plug

Female, Shell Size 40, 35-Pin, 12 AWG contacts

Note: Special back-shell designed to accommodate cable tie or ring clamps. Insulator is Flame Retardant Halogen Free. Plating is Zinc Cobalt Green capable of withstanding 200+ hours salt spray.

Applications: Air-break units for 3-phase locomotives (WAG9 & WAP5)
 Conventional DC current locomotives (WAP4 & WAG7)
 Control circuit breaker (WDP4)
 WDG4 of GM-EMD locomotives + LCO and WDM locomotives

Customer: KNORR-BREMSE



Wall Mount Receptacle

Male 3-Pin, Shell Size 10, 16 AWG 0.6µ Gold contacts
 Mounting designed for rear of panel
 Stainless steel wear pin located for improved mating cycle
 Plating: Nickel finish



Straight Plug

Female 3-Pin, Shell Size 10, 16 AWG 0.6µ Gold contacts
 Backshell cable clamp style with Neoprene Boot
 Plating: Nickel finish



Straight Plug

Female 19-Pin, Shell Size 22, 16 AWG 0.6µ Gold Contacts
 Back-shell cable clamp style with Neoprene Boot
 Plating: Nickel finish



90° Angle Plug

Male 19-Pin, Shell Size 22, 16 AWG Gold Flash contacts
 Backshell cable clamp style with Neoprene Boot
 Connector has a special coarse ribbed rubber coupling ring to enable ease of connection with gloves
 Plating: Olive Drab Cadmium



90° Angle Plug

Male 37-Pin, Shell Size 28, 16 AWG Gold Flash Contacts
 Back-shell cable clamp style with Neoprene Boot
 Connector has a special coarse ribbed rubber coupling ring to enable ease of connection with gloves
 Plating: Olive Drab Cadmium



Wall Mount Receptacle

Male, Shell Size 22, 19 Socket Contact 16 AWG 0.6µ Gold contacts
 Mounting designed for rear of Panel
 Stainless Steel wear pin located for improved mating cycle
 Plating: Nickel finish

Note: Connector insulator is Neoprene withstanding -55 to +125°C. Plating can withstand 200+ hours salt spray.
 Please contact our offices for any variation specific to your requirements.



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