



# 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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