



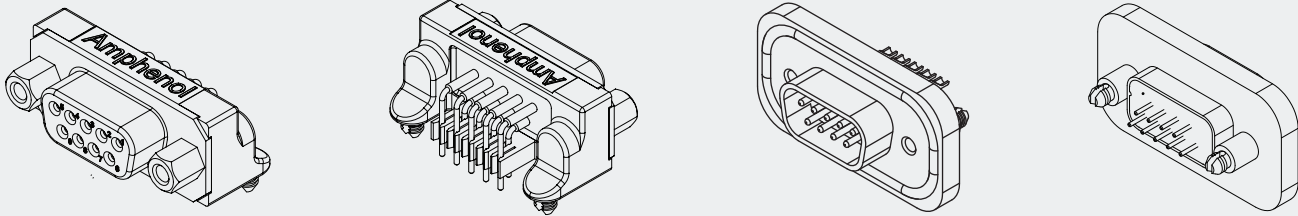
Generation 1 Features

- Provides a standard D-Sub interface ideal for enclosures exposed to harsh environments
- Protection is provided for IP67 applications per IEC 60529 specification
- Provides protection from ingress of water when immersed in 1.0m depth for 30 mins and ingress of dust less than 75 microns under 2kPa vacuum pressure
- Sturdy die cast shell provides excellent strength and durability



Markets

Amphenol's line of Rugged D-Sub connectors serve many markets and applications across the globe including Transportation, Military, Medical and Industrial.



Photos Shown: MDB-E09SA-700, MDB-E09SA-700, MDB-E09PE-860, MDB-E09PM-860

Technical Specifications

| | |
|---|---|
| External Shell: | Die Cast Zinc, Nickel Plated, |
| Insulator Housing: | High Temperature Resistant Nylon, Glass Reinforced, UL94V-0, Black |
| Contacts: | Machined Phosphor Bronze or Brass Alloy Plated with 0.76 μ m (30 μ "") min Gold over 1.27 μ m (50 μ "") min Nickel |
| Gaskets & O-rings: | Silicone Rubber, Black or Red |
| Jack Sockets: | Stainless Steel |
| Dust Covers | Silicone Rubber, Grey, with Nickel Plated Brass Bushing |
| Threaded Inserts: | Nickel Plated Steel |
| Water & Dust Protection Level: | Code IP67 per IEC 60529 |
| Operating Temperature: | -40°C to +105°C |
| Contact Insertion Force: | <i>Standard Density</i> - 5.0N (18oz.) max, 3.3N (12oz.) max Average Initial <i>High Density</i> - 5.0N (18oz.) max, 2.6N (9.5oz.) max Average Initial |
| Durability: | Per EIA 364-09, 500 Mating Cycles |
| Vibration: | Per EIA 364-28 Condition V, Letter D, 4.5 Hrs, No Discontinuity \geq 1 μ s |
| Shock: | Per EIA 364-27 Test Condition A (11ms, 50g, 1/2 Sine), No Discontinuity \geq 1 μ s |
| Temperature Life w/o Load: | Per EIA-364-17, 105°C, 1000 Hours |
| Thermal Shock: | Per EIA-364-32, -55°C to +105°C, 25 Cycles |
| Humidity: | Per EIA-364-31, 10 Cycles, 240 Hrs, 25°C to 65°C, 90-95%RH, with -10°C Cold Shock |
| Thermal Cycling: | Per EIA-364-110, 500 Cycles, 15°C to 85°C |
| Mixed Flowing Gas: | Per EIA 364-65 Class IIA (Cl ₂ , NO ₂ , H ₂ S, & SO ₂), 14 Day Exposure |
| Solvent Resistance: | Isopropyl Alcohol & 5% Sodium Hydroxide Solution, 24 Hrs Each |
| Solderability: | Per EIA-364-52, 95% Coverage after Category 2 Steam Aging |
| Current Rating: | <i>Standard Density</i> - 5A max <i>High Density</i> - 3A max |
| Contact Resistance: | 20 m Ω max |
| Insulation Resistance: | 5000 M Ω min |
| DWV: | 1000 VDC |