

ARC14052

Specifications

Attribute	Value
1. Electrical Performance	
Current Rating	Typically 13 Amps to 22 Amps per contact (highly dependent on the contact gauge, usually size #16 or size #12 AWG).
Operating Voltage	Rated for 500V to 700V AC (RMS) at sea level under standard military service ratings (e.g., Service Rating A).
Insulation Resistance	Minimum 5,000 Megohms at 500 VDC.
Dielectric Withstanding Voltage	1,500V to 2,000V AC.
2. Environmental & Material Specifications	
Operating Temperature	Usually -55°C to +125°C (or up to +200°C for modern silicone variants).
Shell Material	High-grade Aluminum Alloy (6061-T6 or similar).
Plating Options	Cadmium over nickel (olive drab) or modern RoHS-compliant Black Zinc Nickel.
Insulator & Seals	Resilient synthetic rubber, rigid plastic dielectric, or silicone-based elastomers for moisture barriers.
Ingress Protection	Typically rated to IP67 or IP68 when correctly mated with a sealed backshell.
3. Mechanical Properties	
Mating Cycle Life	Minimum 500 to 2,000 mating/unmating cycles depending on the specific series coupling style.
Coupling Mechanism	Usually a threaded or a 3-pin reverse bayonet coupling with keyway polarization to prevent cross-mating.
Contact Termination	Solder cups or rear-release crimp contact mechanisms.