

100 Series Contacts

Aptiv's 100 Series Contacts are snap-in electrical contacts for use with appropriate rectangular connectors (MRAC series, etc.). They are suitable for rack and panel applications and offer fast-in/fast-out performance, replacement, and serviceability. 100 Series Contacts are often used in military, industrial, and telecom applications that require a modular solution and easy maintenance. 100 Series Contacts are available in different termination styles and wire gauges, designed to provide robust retention, high conductivity, and long life.

KEY FEATURES & BENEFITS

- Removable Design – Enables individual contact replacement without disturbing others
- Circuit Flexibility – Supports circuit revisions without reworking the full connector
- Lower Installation Costs – Wires can be pre-assembled and easily serviced
- High Retention Force – Secure mechanical and electrical engagement
- Exceptional Reliability – Often conforms to MIL-C-39029 for performance assurance
- Multiple Termination Options – Crimp, solder, dip solder, and wire-wrap available
- Gold Plated Contacts – Ensures conductivity and corrosion resistance
- Wide Wire Gauge Compatibility – Accepts 28 AWG to 14 AWG wires
- Closed Entry Sockets – Protect against oversized or misaligned pins

100 SERIES CONTACTS

PRODUCT SPECIFICATIONS

Electrical Properties	
Current Rating	5A to 13A per contact
Voltage Rating	Up to 1600 VRMS
Insulation Resistance	1000 MΩ to 2000 MΩ min
Dielectric Withstanding Voltage	1000 VAC to 2000 VAC
Contact Resistance	10 mΩ to 20 mΩ max
Operating Frequency	Up to 60 Hz (higher for some)

Environmental Properties	
Operating Temperature	Up to +105°C (some to +200°C)
Storage Temperature	–65°C to +80°C
Humidity	MIL-STD-1344, Method 1002.2
Thermal Shock	EIA-364-32, –55°C to +105°C
Vibration	MIL-STD-202, Method 204
Shock	MIL-STD-202, Method 213
Salt Spray / Corrosion	EIA-364-26
Fluid Immersion	ANSI/EIA-364-10

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PRODUCT SPECIFICATIONS CONTD.

Mechanical Properties	
Mating Cycles	500 to 1000 cycles
Wire Sizes Accepted	28 AWG to 14 AWG
Contact Material	Copper Alloy, Phosphor Bronze
Contact Plating	Gold over Nickel, or Tin
Termination Type	Crimp, Solder, Dip Solder, Wire-Wrap
Insertion/Removal	Compact and self-aligning
Contact Retention Force	High retention force
Housing Material	Thermoplastic, Diallyl Phthalate