

Amphenol®



Amphenol® AT Contacts meet the needs of the Heavy Equipment Interconnect Marketplace

Amphenol® AT Series Reliable Contact System for Heavy Equipment Interconnects

Amphenol® “AT” contacts were designed using existing MIL-C-39029 technology, which has long been a requirement for military procurement. These reliable, high performance contacts are ideal for use in heavy equipment for environments such as construction, mining and agricultural machinery.

Contacts are nickel plated or gold plated, and are made from a high quality copper alloy. The socket utilizes a stainless steel hood to protect against probe damage. Contacts are rated for 13 Amps max current.

Material Specifications

| Pins | Sockets | |
|--------------------------------|---------|------------------------|
| Body Copper Alloy | Body | Copper Alloy |
| Plating Nickel; Gold available | Hood | Stainless Steel |
| | Plating | Nickel, Gold available |



Electrical Specifications- using nickel plated contacts and unplated copper wiring

| | |
|--|---|
| Durability (Mating Cycle) | No electrical or mechanical defects after 100 cycles of engagement or disengagement |
| Contact Resistance Pre & Post Life Test (simulated life testing 120°C for 500 hours) | Contacts will meet 100 millivolts or less, with a voltage of 4.50VDC (open circuit), and a test current of 13Amps. |
| Low Level Contact Resistance (after life testing) | Contacts when measured using MIL-STD-1344 method 3002-1 shall have a resistance of 6 milliohms. |
| Operating Temperature Range | -40° / +125°C |
| Crimp Tensile Strength | Contacts crimped to 16AWG wire shall withstand a tensile axial force of 156N (35 lb) without pulling out of the crimp barrel. Contacts crimped to 18AWG wire shall withstand a tensile axial force of 111N (25 lb). |



PIN CONTACTS

| Part Number | Contact Size | Description | Wire Gauge Size |
|---------------|--------------|----------------------------|-----------------|
| AT0-202-16141 | 16 | Pin contact, nickel plated | AWG 16-18 |
| AT0-215-16141 | 16 | Pin contact, nickel plated | AWG 14-16 |
| AT0-202-1631 | 16 | Pin contact, gold plated | AWG 16-18 |
| AT0-215-1631 | 16 | Pin contact, gold plated | AWG 14-16 |

SOCKET CONTACTS

| Part Number | Contact Size | Description | Wire Gauge Size |
|---------------|--------------|-------------------------------|-----------------|
| AT2-201-16141 | 16 | Socket contact, nickel plated | AWG 16-18 |
| AT2-209-16141 | 16 | Socket contact, nickel plated | AWG 14-16 |
| AT2-201-1631 | 16 | Socket contact, gold plated | AWG 16-18 |
| AT2-209-1631 | 16 | Socket contact, gold plated | AWG 14-16 |

See Amphenol® Industrial Overview Brochure SL-381.
Consult Amphenol Industrial Operations for interconnects that utilize the AT Contact System. See Amphenol® AT Circular Connectors Product DataSheet #199. 9-pin receptacles with AT contacts in a square flange jam nut design shell. The interface is in accordance with the diagnostic connector of the J1939/13

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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