

Product Data Sheet

Amphenol® AT Series Reliable Contact System for Heavy Equipment Interconnects

No. 198-3

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.



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

Material Specifications

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

Mechanical Specifications

Durability (Mating Cycle)	No electrical or mechanical defects after 100 cycles of engagement or disengagement
Corrosion Resistance	Terminal shows no evidence of corrosion after exposure to 48 hours of salt spray per MIL STD 1344, Method 1001
Vibration	Maintains continuity and exhibits no mechanical or physical damage during or while subject to sinusoidal vibration, having an amplitude of .060 inches double amplitude and the frequency varied linearly between limits of 10 to 2000 to 10 Hz with a maximum force of 20 G's. No electrical.
Operating Temperature Range	-40° / +125°C
Thermal Shock	-40° / +125°C, 100 cycles, 1 hour per cycle
Physical Shock	No unlocking, unmating or other unsatisfactory result during or after 50 G's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL STD 202, Method 213, Condition “C”.
Crimp Tensile Strength	25 lbs.



Electrical Specifications

Current Rating at 125° C	Contact Size*	Max. Current	
	16	13 Amps	
Contact Millivolt Drop	Wire Gauge	Test Current	Millivolt Drop
	16	13	60

* Currently AT Contacts are available in size 16. Consult Amphenol for future availability of other sizes.

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

For additional information on this product or other Amphenol products contact:

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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 Data Sheet #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.



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