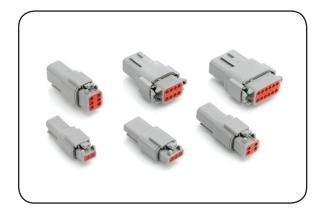


Amphenol Sine Systems

Perfect for Smaller AWG Applications

ATM Series™ connectors are a high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line.



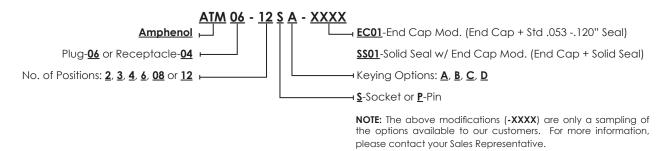


2, 3, 4, 6, 8 and 12 positions available

- 16-22AWG, 7.5A, Size 20
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of an internal and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

ATM Series[™] Part Numbering Sequence



For more information, contact:

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Features & Benefits **Current Capacity** Size 20, 7.5A (max) Size 20 contacts will accept wire ranges of 16 thru 22AWG Wire Range Temperature Operating temperature range: -55°C to +125°C at rated current **Dielectric Value** Meets or exceeds 1500 volts minimum Shall not become detached or loosened when placed at 750mm and dropped to concrete Drop Test eight times Shock No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z) Continued continuity without degradation to mechanical or physical attributes following Vibration vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz) **Connector Terminal** When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs. Retention Connector Retention A mated connector subjected to a pulling force by the exiting wire bundle at 89 lbs. times the number of contacts to a maximum of 356 lbs. applying load for 30 seconds Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage **Thermal Shock** detrimental to the normal operation of the connector Insulation Resistance Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied Following 100 cycles of connection engagement and disengagement, degradation either Mating Cycle Durability mechanical or electrical is not evident Size 20 (stamped & formed) contacts with 20AWG conductor - 60 (solid contact) millivolt Contact Millivolt Drop drop max; 100 (stamped & formed contact) millivolt drop max at 7.5A test current Water Immersion A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter for 4 hours without loss of electronic performance Product Material Thermoplastic Housings Silicone Elastomer Seals Thermoplastic Secondary Locks Contacts Copper Alloy, Nickel Plated, Gold optional

Standard ATM Series[™] Contacts

Sockets and Pins

Size	AWG	Туре	Part Number	Description
20-22	20	Solid	AT62-201-2031	Female Contact - Socket, Gold-plated
			AT62-201-20141	Female Contact - Socket, Nickel-plated
			AT60-202-2031	Male Contact - Pin, Gold-plated
			AT60-202-20141	Male Contact - Pin, Nickel-plated
Size	AWG	Туре	Part Number	Description
16-22	20	S & F	AT62-20-0122	Female Contact - Socket, Nickel-plated
			AT62-20-0144	Female Contact - Socket, Gold-plated
			AT60-20-0122	Male Contact - Pin, Nickel-plated
			AT60-20-0144	Male Contact - Pin, Gold-plated

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