



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

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[™] connectors are compatible with other existing standard products industry-wide.

FEATURES & BENEFITS:

- Current Capacity: Size 20, 7.5A (max)
- Wire Range: Size 20 contacts will accept wire ranges of 16 thru 22AWG
- Temperature: Operating temperature range: -55°C to +125°C at rated current
- Dielectric Value: Meets or exceeds 1500 volts minimum
- Drop Test: Shall not become detached or loosened when placed at 750mm and dropped to concrete 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)
- Vibration: Continued continuity without degradation to mechanical or physical attributes following

vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)

• **Connector Terminal Retention:** When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs

- **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
- Thermal Shock: Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage
 detrimental to the normal operation of the connector

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- Insulation Resistance: Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied
- **Mating Cycle Durability:** Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident
- Contact Millivolt Drop: Size 20 (stamped & formed) contacts with 20AWG conductor -60 (solid contact) millivolt 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:

- Housings: Thermoplastic
- Seals: Silicone Elastomer
- Secondary Locks: Thermoplastic
- Contacts: Copper Alloy, Nickel Plated, Gold optional
- ATM SERIES[™] PART NUMBERING SEQUENCE:



NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

Plugs & Wedgelocks - 2, 3, 4, 6, 8 and 12 positions

Plug	Face View	Part Number		Wedgelock	Part Number
	0-00	ATM06-2S		and the second s	AWM-2S
a sale	0-000	ATM06-3S			AWM-3S
	0 0 0	ATM06-4S	Ĩ	A.	AWM-4S
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ATM06-6S	, , , , , , , , , , , , , , , , , , ,		AWM-6S
	0000	ATM06-08SA			AWM-8S
	000000	ATM06-12SA		THE	AWM-12S

Receptacles & Wedgelocks - 2, 3, 4, 6, 8 and 12 positions

Plug	Face View	Part Number	Wedgelock	Part Number	
		ATM04-2P		AWM-2P	
		ATM04-3P		AWM-3P	
		ATM04-4P	The	AWM-4P	
		ATM04-6P		AWM-6P	
		ATM04- 08PA		AWM-8P	
and the second s	5 0 0 5 0 0 5 0 0 5 0 0	ATM04- 12PA	TRACT	AWM-12P	
NOTE: B, C, and D keying positions are available for all 8 and 12 positions receptacles. For more information, please contact your Sales Representative.			NOTE: Wedgelocks are required for all receptacles.		