

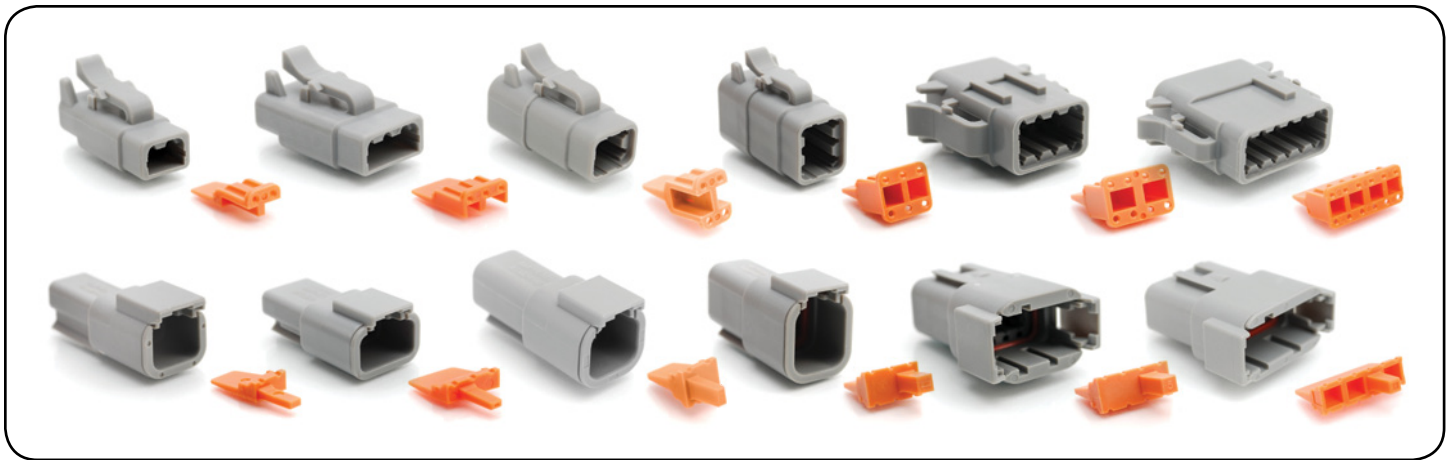
ATM Series™

Overview

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.

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

ATM Series™

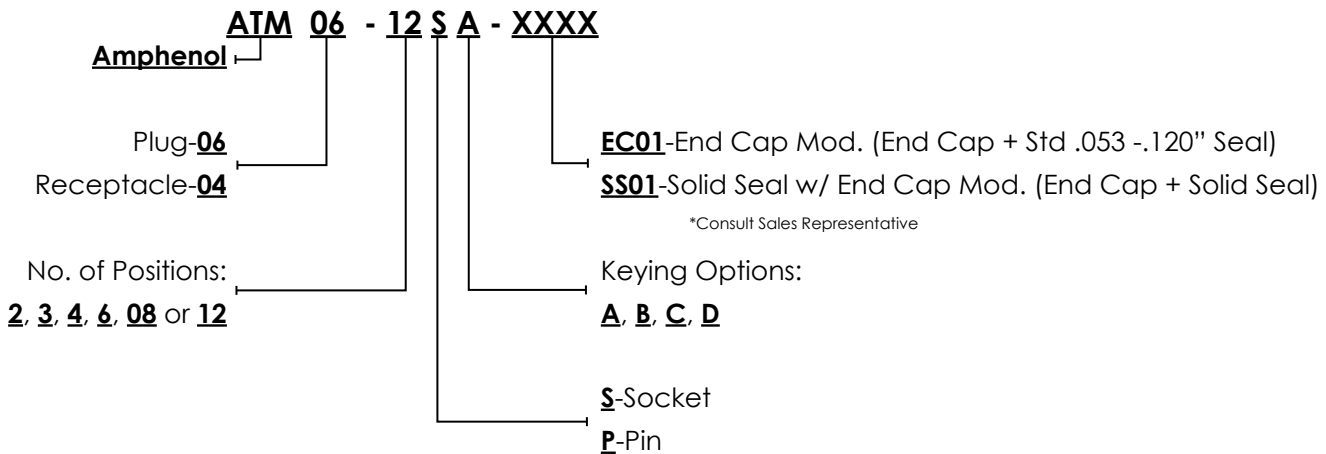
Features & Benefits, cont.

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
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


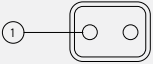

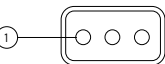

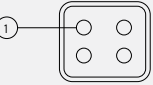

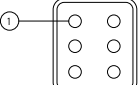

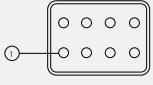

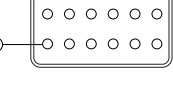
ATM Series™ Part Numbering Sequence





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

ATM Series™ Standard Products

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

Plug	Face View	Part Number	Description
		ATM06-2S	Plug, 2-Way
		ATM06-3S	Plug, 3-Way
		ATM06-4S	Plug, 4-Way
		ATM06-6S	Plug, 6-Way
		ATM06-08SA	Plug, 8-Way, A Position
		ATM06-12SA	Plug, 12-Way, A Position


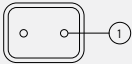

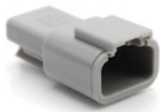
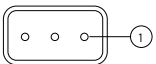

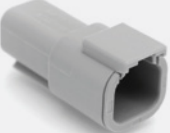
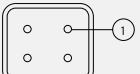


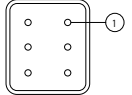


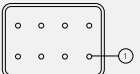


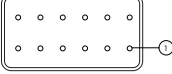

NOTE: B, C, and D keying positions are available for all 8 and 12 positions plugs. For more information, please contact your Sales Representative.

Wedgelock	Part Number	Part Description
	AWM-2S	Wedgelock Plug, 2-Way
	AWM-3S	Wedgelock Plug, 3-Way
	AWM-4S	Wedgelock Plug, 4-Way
	AWM-6S	Wedgelock Plug, 6-Way
	AWM-8S	Wedgelock Plug, 8-Way
	AWM-12S	Wedgelock Plug, 12-Way

NOTE: Wedgelocks are required for all plugs.

ATM Series™ Standard Products

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

Receptacle	Face View	Part Number	Description	Wedgelock	Part Number	Part Description
		ATM04-2P	Receptacle, 2-Way		AWM-2P	Wedgelock Receptacle, 2-Way
		ATM04-3P	Receptacle, 3-Way		AWM-3P	Wedgelock Receptacle, 3-Way
		ATM04-4P	Receptacle, 4-Way		AWM-4P	Wedgelock Receptacle, 4-Way
		ATM04-6P	Receptacle, 6-Way		AWM-6P	Wedgelock Receptacle, 6-Way
		ATM04-08PA	Receptacle, 8-Way, A Position		AWM-8P	Wedgelock Receptacle, 8-Way
		ATM04-12PA	Receptacle, 12-Way, A Position		AWM-12P	Wedgelock Receptacle, 12-Way

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.