

# AT Series™

## Overview

AT Series™ connectors are a high-performance, cost-effective solution able to be used in a variety of interconnect applications: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. They contain superior environmental seals, seal retention capabilities and feature RockSolid™ Contact technology.

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 a front and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

AT Series™ connectors are compatible with other existing standard products industry-wide.



## Features & Benefits

Current Capacity	Size 16, 13A (max)
Wire Range	Size 16 contacts will accept wire ranges of 14 thru 20AWG
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 25 lbs.
Connector Retention	A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 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
Insulation Resistance	1000 megohms minimum at 25°C
Mating Cycle Durability	Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident

# AT Series™

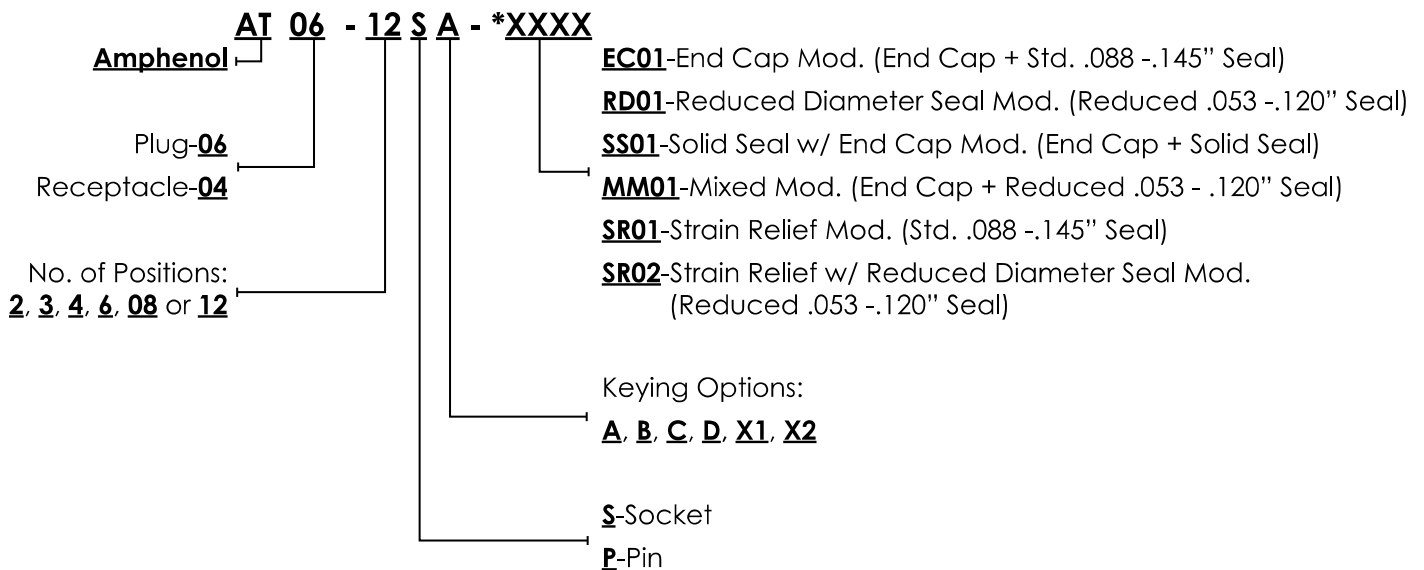
## Features & Benefits, cont.

<p>Contact Millivolt Drop</p> <p>Water Immersion</p>	<p>Size 16 contacts with 16AWG conductor - 100 mV drop max at 13A test current</p> <p>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</p>
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## Product Material

<p>Housings</p> <p>Seals</p> <p>Secondary Locks</p> <p>Contacts</p>	<p>Thermoplastic</p> <p>Silicone Elastomer</p> <p>Thermoplastic</p> <p>Copper Alloy, Nickel Plated, Gold optional</p>
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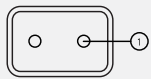


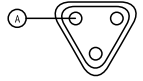


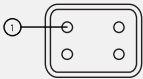


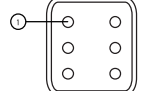


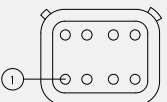


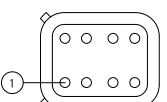

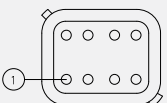

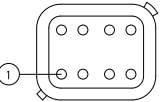
## AT Series™ Part Numbering Sequence



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


# AT Series™ Standard Products


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

Plug	Face View	Part Number	Description	Wedgelock	Part Number	Description
		AT06-2S	Plug, 2-Way		AW2S	Wedgelock Plug, 2-Way
		AT06-3S	Plug, 3-Way		AW3S	Wedgelock Plug, 3-Way
		AT06-4S	Plug, 4-Way		AW4S	Wedgelock Plug, 4-Way
		AT06-6S	Plug, 6-Way		AW6S	Wedgelock Plug, 6-Way
		AT06-08SA	Plug, 8-Way A Position		AW8S	Wedgelock Plug, 8-Way
		AT06-08SB	Plug, 8-Way B Position			
		AT06-08SC	Plug, 8-Way C Position			
		AT06-08SD	Plug, 8-Way D Position			

**NOTE:** Wedgelocks are required for all plugs.

# AT Series™ Standard Products

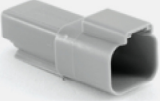
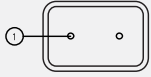


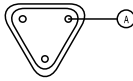


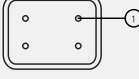


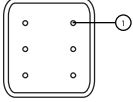


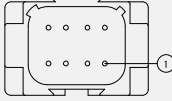
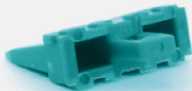

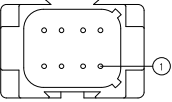

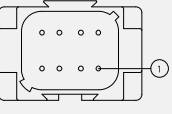

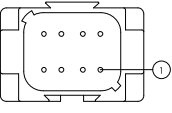
Plug	Face View	Part Number	Description
		AT06-12SA	Plug, 12-Way A Position
		AT06-12SB	Plug, 12-Way B Position
		AT06-12SC	Plug, 12-Way C Position
		AT06-12SD	Plug, 12-Way D Position
		AT06-12SX1	Plug, 12-Way X1 Position
		AT06-12SX2	Plug, 12-Way X2 Position
		AT16-18SB-K004	Plug, 18-Way (Wedglock/ Endcap Included)

Wedglock	Part Number	Description
	AW12S	Wedglock Plug, 12-Way

**NOTE:** Wedglocks are required for all plugs.


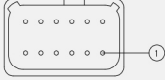


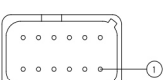

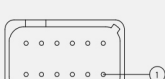

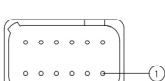


# AT Series™ Standard Products

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

Receptacle	Face View	Part Number	Description	Wedgelock	Part Number	Description
		AT04-2P	Receptacle, 2-Way		AW2P	Wedgelock Recep., 2-Way
		AT04-3P	Receptacle, 3-Way		AW3P	Wedgelock Recep., 3-Way
		AT04-4P	Receptacle, 4-Way		AW4P	Wedgelock Recep., 4-Way
		AT04-6P	Receptacle, 6-Way		AW6P	Wedgelock Recep., 6-Way
		AT04-08PA	Receptacle, 8-Way A Position		AW8P	Wedgelock Recep., 8-Way
		AT04-08PB	Receptacle, 8-Way B Position			
		AT04-08PC	Receptacle, 8-Way C Position			
		AT04-08PD	Receptacle, 8-Way D Position			

**NOTE:** Wedgelocks are required for all receptacles.

# AT Series™ Standard Products

Receptacle	Face View	Part Number	Description	Wedgelock	Part Number	Description
		AT04-12PA	Receptacle, Extended Shroud, 12-Way, A Position		AW12P	Wedgelock Recep., 12-Way
		AT04-12PB	Receptacle, Extended Shroud, 12-Way, B Position			
		AT04-12PC	Receptacle, Extended Shroud, 12-Way, C Position			
		AT04-12PD	Receptacle, Extended Shroud, 12-Way, D Position			
		AT04-12PA-NES	Receptacle, Non-Extended Shroud, 12-Way, A Position			

**NOTE:** Wedgelocks are required for all receptacles.