



Now you're connected!

AT Series™ PRODUCT SHORTFORM

Amphenol Australia Pty Ltd



AT Series

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 and seal retention capabilities. 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 1500volts 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 25lbs. 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.
Contact Millivolt Drop	Size 16 contacts with 16AWG conductor -100mV drop max at 13A 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 1 meter for 4 hours without loss of electronic performance

PRODUCT MATERIAL

Housings	Thermoplastic
Seals	Silicone Elastomer
Secondary Locks	Thermoplastic




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PRODUCT FIGURE	DESCRIPTION	PART NUMBER	PRODUCT FIGURE	DESCRIPTION	PART NUMBER
	2-Way PLUG, SKT contacts	AT06-2S		2-Way Wedgeloek PLUG	AW2S
	2-Way RECP, PIN contacts	AT04-2P		2-Way Wedgeloek RECP	AW2P
	3-Way PLUG, SKT contacts	AT06-3S		3-Way Wedgeloek PLUG	AW3S
	3-Way RECP, PIN contacts	AT04-3P		3-Way Wedgeloek RECP	AW3P
	4-Way PLUG, SKT contacts	AT06-4S		4-Way Wedgeloek PLUG	AW4S
	4-Way RECP, PIN contacts	AT04-4P		4-Way Wedgeloek RECP	AW4P

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	6-Way PLUG, SKT contacts	AT06-6S		6-Way Wedglock PLUG	AW6S
	6-Way RECP, PIN contacts	AT04-6P		6-Way Wedglock RECP	AW6P
	8-Way PLUG, SKT contacts	AT06-08SA		8-Way Wedglock PLUG	AW8S
	8-Way RECP, PIN contacts	AT04-08PA		8-Way Wedglock RECP	AW8P
	12-Way PLUG, SKT contacts	AT06-12SA		12-Way Wedglock PLUG	AW12S
	12-Way RECP, PIN contacts	AT04-12PA		12-Way Wedglock RECP	AW12P
	2-Way PLUG, Standard Seal, SKT contacts standard seal .88-.145"	AT06-2S-SR01BLK		2-Way Wedglock PLUG	AW2S

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	2-Way RECP, Standard Seal, PIN contacts standard seal .88-.145"	AT04-2P-SR01BLK		2-Way Wedgeloock RECP	AW2P
	4-Way PLUG, Standard Seal, SKT contacts standard seal .88-.145"	AT06-4S-SR01BLK		4-Way Wedgeloock PLUG	AW4S
	4-Way RECP, Standard Seal, PIN contacts standard seal .88-.145"	AT04-4P-SR01BLK		4-Way Wedgeloock RECP	AW4P
	4-Way PLUG, Standard Seal, SKT contacts, reduced seal .53-.120"	AT06-4S-SR02BLK		4-Way Wedgeloock PLUG	AW4S
	4-Way RECP, Standard Seal, PIN contacts, reduced seal .53-.120"	AT04-4P-SR02BLK		4-Way Wedgeloock RECP	AW4P
	6-Way PLUG, Standard Seal, SKT contacts standard seal .88-.145"	AT06-6S-SR01BLK		6-Way Wedgeloock PLUG	AW6S
	6-Way RECP, Standard Seal, PIN contacts standard seal .88-.145"	AT04-6P-SR01BLK		6-Way Wedgeloock RECP	AW6P

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		AT04-2P-PM12	2-Way RECP, Self-Threading, PIN contacts, RD01 seal		
		AT04-4P-PM12	4-Way RECP, Self-Threading, PIN contacts, RD01 seal		
		AT04-4P-PM13	4-Way RECP, Self-Threading, PIN contacts, Cap		
	Seal Plugs, White	A114017		Used for removal of contacts & wedges for the AT Series™ products	ATRT-100
	Solid Male Contact – PIN, Nickel-plated, Size 16, 16-20AWG	AT60-202-16141		Solid Female Contact – SKT, Nickel-plated, Size 16, 16-20AWG	AT62-201-16141
	Solid Male Contact – SKT, Gold-plated, Size 16, 16-20AWG	AT60-202-1631		Solid Female Contact – SKT, Gold-plated, Size 16, 16-20AWG	AT62-201-1631
	Solid Male Contact – SKT, Gold-plated, Size 16, 14AWG	AT60-215-1631		Solid Female Contact – SKT, Gold-plated, Size 16, 14AWG	AT62-209-1631

	<p>Tool Frame</p>	<p>M22520/1-01</p>		<p>Turret</p>	<p>M22520/1-02</p>
	<p>AT Series large field repair kit containing the following:</p> <ul style="list-style-type: none"> AT04-2P: 2 Pin Receptacle (15) AT04-3P: 3 Pin Receptacle (10) AT04-4P: 4 Pin Receptacle (10) AT04-6P: 6 Pin Receptacle (10) AT04-08PA: 8 Pin Receptacle (5) AT04-12PA: 12 Pin Receptacle (5) AT06-2S: 2 Pin Plug (15) AT06-3S: 3 Pin Plug (10) AT06-4S: 4 Pin Plug (10) AT06-6S: 6 Pin Plug (10) AT06-08SA: 8 Pin Plug (5) AT06-12SA: 12 Pin Plug (5) AW2P: 2 Pin Receptacle Wedge (15) AW3P: 3 Pin Receptacle Wedge (10) AW4P: 4 Pin Receptacle Wedge (10) AW6P: 6 Pin Receptacle Wedge (10) AW8P: 8 Pin Receptacle Wedge (5) AW12P: 12 Pin Receptacle Wedge (5) AW2S: 2 Pin Plug Wedge (15) AW3S: 3 Pin Plug Wedge (10) AW4S: 4 Pin Plug Wedge (10) AW6S: 6 Pin Plug Wedge (10) AW8S: 8 Pin Plug Wedge (5) AW12S: 12 Pin Plug Wedge (5) AT62-201-16141: Female Contacts – Machined (150) AT60-201-16141: Male Contacts – Machined (150) AT-RT100: Removal Tool for Contact/Wedges (1) AT-RCT100: Universal Repair Case Tool (1) AT-RM100: Repair Manual (1) A114017: Blank Seal 16Awg (20) 			<p>AT-RK100</p>	