



Now you're connected!

ATM Series™ PRODUCT SHORTFORM

Amphenol Australia Pty Ltd



ATM Series

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 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 89 lbs.
Connector Retention	A mated connector subjected to a pulling force by the exiting wire bundle at 89lbs. 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
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 20 contacts with 20AWG conductor -60mV (solid) 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 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

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PRODUCT FIGURE	DESCRIPTION	PART NUMBER	PRODUCT FIGURE	DESCRIPTION	PART NUMBER
	2-Way PLUG, SKT contacts	ATM06-2S		2-Way Wedgelock (for) PLUG	AWM-2S
	2-Way RECP, PIN contacts	ATM04-2P		2-Way Wedgelock (for) RECP	AWM-2P
	3-Way PLUG, SKT contacts	ATM06-3S		3-Way Wedgelock (for) PLUG	AWM-3S
	3-Way RECP, PIN contacts	ATM04-3P		3-Way Wedgelock (for) RECP	AWM-3P
	4-Way PLUG, SKT contacts	ATM06-4S		4-Way Wedgelock (for) PLUG	AWM-4S
	4-Way RECP, PIN contacts	ATM04-4P		4-Way (for) Wedgelock RECP	AWM-4P

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	6-Way PLUG, SKT contacts	ATM06-6S		6-Way Wedglock (for) PLUG	AWM-6S
	6-Way RECP, PIN contacts	ATM04-6P		6-Way Wedglock (for) RECP	AWM-6P
	8-Way PLUG, SKT contacts	ATM06-08SA		8-Way Wedglock (for) PLUG	AWM-8S
	8-Way RECP, PIN contacts	ATM04-08PA		8-Way Wedglock (for) RECP	AWM-8P
	12-Way PLUG, SKT contacts	ATM06-12SA		12-Way Wedglock (for) PLUG	AWM-12S
	12-Way RECP, PIN contacts	ATM04-12PA		12-Way Wedglock (for) RECP	AWM-12P
	2-Way PLUG with Strain Relief, Standard Seal, SKT contacts, Black	ATM06-2S-SR01BK		2-Way Wedglock (for) PLUG	AWM-2S

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	2-Way RECP with Strain Relief, Standard Seal, SKT contacts, Black	ATM04-2P-SR01BK		2-Way Wedglock (for) RECP	AWM-2P
	3-Way PLUG with Strain Relief, Standard Seal, SKT contacts, Black	ATM06-3S-SR01BK		3-Way Wedglock (for) PLUG	AWM-3S
	3-Way RECP with Strain Relief, Standard Seal, SKT contacts, Black	ATM04-3P-SR01BK		3-Way Wedglock (for) RECP	AWM-3P
	4-Way PLUG with Strain Relief, Standard Seal, SKT contacts, Black	ATM06-4S-SR01BK		4-Way Wedglock (for) PLUG	AWM-4S
	4-Way RECP with Strain Relief, Standard Seal, SKT contacts, Black	ATM04-4P-SR01BK		4-Way Wedglock (for) RECP	AWM-4P
	6-Way PLUG with Strain Relief, Standard Seal, SKT contacts, Black	ATM06-6S-SR01BK		6-Way Wedglock (for) PLUG	AWM-6S
	6-Way RECP, with Strain Relief, Standard Seal, SKT contacts, Black	ATM04-6P-SR01BK		6-Way Wedglock (for) RECP	AWM-6P

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	<p>Seal Plugs, White</p>	<p>AT13-204-2005</p>		<p>Seal Plugs, Black (for SR01 Series)</p>	<p>AT13-204-2005-SR</p>
	<p>Solid Male Contact – PIN, Nickel-plated, Size 20, 20-22AWG</p>	<p>AT60-202-20141</p>		<p>Solid Female Contact – SKT, Nickel-plated, Size 20, 20-22AWG</p>	<p>AT62-201-20141</p>
	<p>Solid Male Contact – SKT, Gold-plated, Size 20, 20-22AWG</p>	<p>AT60-202-2031</p>		<p>Solid Female Contact – SKT, Gold-plated, Size 20, 20-22AWG</p>	<p>AT62-201-2031</p>
	<p>ATR-100 Used for removal of contacts & wedges for the AT Series™ products</p>		<p>M22520/1-01 (Tool Frame)</p>		<p>M22520/1-02 (Turret)</p>