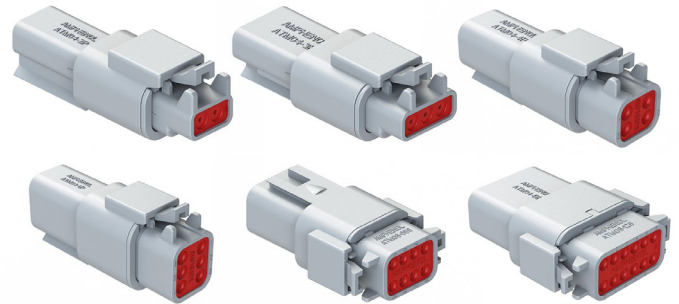




ATM ATM Series™

Heavy-Duty, Multi-Pin, 7.5A,
Thermoplastic Connectors



Available in 2, 3, 4, 6, 8 and 12 positions

Amphenol Sine Systems' **ATM Series™** connectors are an IP67-rated (mated condition), high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line. All of our ATM Series™ connectors have been developed to be compatible with other existing standard products industry-wide.

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.

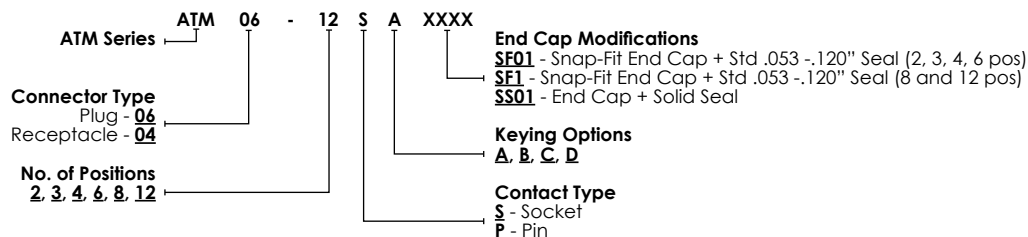
Applications: Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

Available in an **ATMH Series™ - High Temperature** option which **features an increased operating temperature range of -55°C to 150°C**, ideal for "under the hood" applications, along with an IP68 (1M of water for a period of 24 hours, mated condition) & IP69K (in mated condition) rating. Also available in **BoardLock™ ATM** options, featuring flanged, 90° right angle or 180° straight, wire-to-board functionality, along with an IP67 rating (in mated condition).



Standard products. Custom solutions
Customer Service +1 800 394 7732

ATM Series™ - Part Numbering Sequence



ATM Series™ - Features & Benefits

Current Capacity	Size 20, 7.5A
Wire Range	Size 20 contacts will accept wire ranges of 16 thru 22AWG
Operating Temperature	-55°C to +125°C at rated current
IP Rating	IP67 (in mated condition)
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
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 contacts with 20AWG conductor - 60mV (solid contact) drop max; 100mV (stamped & formed contact) drop max at 7.5A test current

ATM Series™ - Product Material

Housings	Thermoplastic
Seals	Silicone Elastomer
Secondary Locks	Thermoplastic
Contacts	Copper Alloy, Nickel Plated, Gold optional

ATM Series™ - Contacts (For a complete contact list, see individual ATM Plug and Receptacle datasheets.)

Part Number	Description	Size	AWG	Type
AT62-201-2031	Female Contact - Socket, Gold-plated	20-22	20	Solid
AT60-202-2031	Male Contact - Pin, Gold-plated	20-22	20	Solid
AT62-201-20141	Female Contact - Socket, Nickel-plated	20-22	20	Solid
AT60-202-20141	Male Contact - Pin, Nickel-plated	20-22	20	Solid
AT62-20-0144	Female Contact - Socket, Gold-plated	16-22	20	Stamped & Formed
AT60-20-0144	Male Contact - Pin, Gold-plated	16-22	20	Stamped & Formed
AT62-20-0122	Female Contact - Socket, Nickel-plated	16-22	20	Stamped & Formed
AT60-20-0122	Male Contact - Pin, Nickel-plated	16-22	20	Stamped & Formed



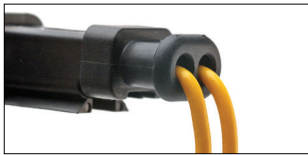
ATM ATM Series™ SR01

Extended Strain Relief Series

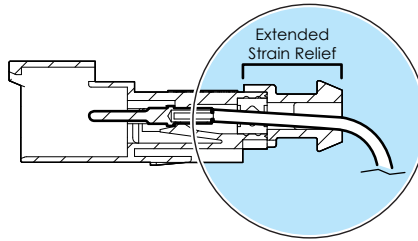
Available in 2, 3, 4, 6, 8 and 12 position



Amphenol Sine Systems' **ATM Series™ SR01** connectors are a high-performance, thermoplastic, cost-effective solution with specifically-designed, wire cavities that protect each individual wire seal, eliminating stress on the rear seal while maintaining an IP68/69K rated (mated) performance regardless of wire bundle direction or improper installation. **The ATM Series™ SR01 meets all the performance criteria and specifications of the ATM Series™**, is available in a wide variety of custom colors, and accepts all **A Series™** Size 20 contacts. Required wedgelock sold separately.



PROTECTS each wire cavity to maximize sealing integrity.



MAINTAINS proper wire routing 100% of the time.



Standard Diameter Rear Seals (Red) -
1.35mm (.053") - 3.05mm (.120")

Applications: Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

Key Features

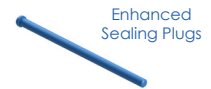
- Heat-shrink capable shroud for applications requiring heat shrink (The use of heat shrink is NOT required to meet existing IP standards)
- Enhanced Sealing Plugs for simplified insertion/removal, improved retention capabilities and include a positive 'stop' for full insertion verification
- Thermoplastic housing with excellent UV resistance
- Wedgelocks ensure proper contact alignment & retention
- Integrated latch for mating ensures a secure connection
- Superior front and rear environmental sealing
- Compatible with existing standard products industry-wide



Standard vs SR01



Heat-Shrink Capable Shroud



Enhanced Sealing Plugs



Standard products. Custom solutions
Customer Service +1 800 394 7732

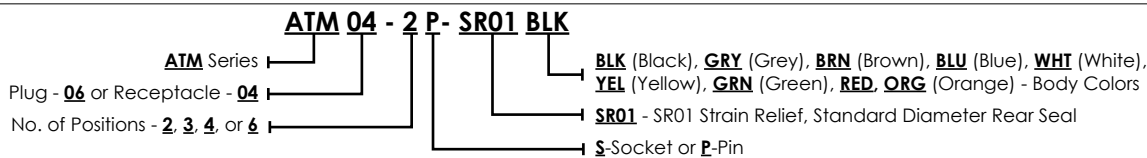
Specifications

Operating Temperature	-55°C to +125°C	Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)
Max Current Rating (Amp)	7.5A		
Mating Cycles	>100	Connector Terminal Retention	When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.
IP Rating	IP68/69K (in mated condition)	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
Wire Range	Size 20, 16-22AWG		
Contacts	Machined; Stamped & Formed; Copper Alloy, Nickel-Plated Gold plating optional	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
Housing/Latch Material	Thermoplastic/Integrated latch for mating		
Sealing Material	Silicone Rubber		
Dielectric Withstanding Voltage	Less than 2 mA current leakage @ 1500V AC		
Insulation Resistance	1000 megohms minimum at 25°C		
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)		

Custom Color Options

Black	Grey	Brown	Blue	White	Yellow	Green	Red	Orange
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Part Numbering Sequence (2, 3, 4 and 6 position)






Part Numbering Sequence (08 and 12 position)





2 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

Image	Part Number	Description	Size	Amp
	ATM06-2S-SR01BK	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01BL	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01BN	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01GN	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01GY	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01OR	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01RD	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01WT	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A
	ATM06-2S-SR01YL	2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-2S. Keyed Options Available.)	20	7.5A



2 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

Image	Part Number	Description	Size	Amp
	AWM-2S	2 Position, Plug Wedgelock, Orange	-	-
	AWM-2SA	2 Position, Plug Wedgelock, Keyed A, Grey	-	-
	AWM-2SB	2 Position, Plug Wedgelock, Keyed B, Black	-	-



3 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

	ATM06-3S-SR01BK	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01BL	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01BN	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01GN	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01GY	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01OR	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01RD	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01WT	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-3S.)	20	7.5A
	ATM06-3S-SR01YL	3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-3S.)	20	7.5A
	AWM-3S	3 Position, Plug Wedgelock, Orange	-	-



4 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

	ATM06-4S-SR01BK	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01BL	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01BN	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01GN	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01GY	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01OR	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01RD	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01WT	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-4S.)	20	7.5A
	ATM06-4S-SR01YL	4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-4S.)	20	7.5A
	AWM-4S	4 Position, Plug Wedgelock, Orange	-	-



6 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

Image	Part Number	Description	Size	Amp
	ATM06-6S-SR01BK	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01BL	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01BN	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01GN	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01GY	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01OR	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01RD	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01WT	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-6S.)	20	7.5A
	ATM06-6S-SR01YL	6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-6S.)	20	7.5A
	AWM-6S	6 Position, Plug Wedgelock, Orange	-	-





8 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

	ATM06-08SA-SR1GY	8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-8S.)	20	7.5A
	ATM06-08SB-SR1BK	8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-8S.)	20	7.5A
	ATM06-08SC-SR1GN	8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-8S.)	20	7.5A
	ATM06-08SD-SR1BN	8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown Body (Requires Wedgelock AWM-8S.)	20	7.5A
	AWM-8S	8 Position, Plug Wedgelock, Orange	-	-

12 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

	ATM06-12SA-SR1GY	12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-12S.)	20	7.5A
	ATM06-12SB-SR1BK	12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Black Body (Requires Wedgelock AWM-12S.)	20	7.5A
	ATM06-12SC-SR1GN	12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Green Body (Requires Wedgelock AWM-12S.)	20	7.5A
	ATM06-12SD-SR1BN	12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Brown Body (Requires Wedgelock AWM-12S.)	20	7.5A
	AWM-12S	12 Position, Plug Wedgelock, Orange	-	-



2 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

Image	Part Number	Description	Size	Amp
	ATM04-2P-SR01BK	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01BL	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01BN	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01GN	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01GY	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01OR	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01RD	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01WT	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	ATM04-2P-SR01YL	2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-2P. Keyed Options Available.)	20	7.5A
	AWM-2P	2 Position, Receptacle Wedgelock, Orange	-	-
	AWM-2PA	2 Position, Receptacle Wedgelock, Keyed A, Grey	-	-
	AWM-2PB	2 Position, Receptacle Wedgelock, Keyed B, Black	-	-

3 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

	ATM04-3P-SR01BK	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01BL	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01BN	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01GN	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01GY	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01OR	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01RD	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01WT	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-3P.)	20	7.5A
	ATM04-3P-SR01YL	3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-3P.)	20	7.5A
	AWM-3P	3 Position, Receptacle Wedgelock, Orange	-	-


4 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

Image	Part Number	Description	Size	Amp
	ATM04-4P-SR01BK	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01BL	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01BN	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01GN	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01GY	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01OR	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01RD	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01WT	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-4P.)	20	7.5A
	ATM04-4P-SR01YL	4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-4P.)	20	7.5A
	AWM-4P	4 Position, Receptacle Wedgelock, Orange	-	-


6 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

	ATM04-6P-SR01BK	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01BL	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01BN	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01GN	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01GY	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01OR	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01RD	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01WT	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-6P.)	20	7.5A
	ATM04-6P-SR01YL	6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-6P.)	20	7.5A
	AWM-6P	6 Position, Receptacle Wedgelock, Orange	-	-



8 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

	ATM04-08PA-SR1GY	8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-8P.)	20	7.5A
	ATM04-08PB-SR1BK	8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-8P.)	20	7.5A
	ATM04-08PC-SR1GN	8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-8P.)	20	7.5A
	ATM04-08PD-SR1BN	8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown body (Requires Wedgelock AWM-8P.)	20	7.5A

8 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

Image	Part Number	Description	Size	Amp
	AWM-8P	8 Position, Receptacle Wedgelock, Orange	-	-

12 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

	ATM04-12PA-SR1GY	12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-12P.)	20	7.5A
	ATM04-12PB-SR1BK	12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-12P.)	20	7.5A
	ATM04-12PC-SR1GN	12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-12P.)	20	7.5A
	ATM04-12PD-SR1BN	12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown body (Requires Wedgelock AWM-12P.)	20	7.5A
	AWM-12P	12 Position, Receptacle Wedgelock, Orange	-	-

ATM Series™ SR01 Accessories

	ATM13-217-2005-SR	Blank Locking Sealing Plug, Blue, Replaces Size 20 Contacts	20	-
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For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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ATMH Series™



Heavy-Duty, Multi-Pin, 7.5A, High Temperature Thermoplastic Connectors



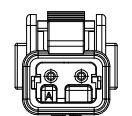
Available in 2 position

Amphenol Sine Systems' **ATMH Series™** connectors, an extension of our ATM Series™, are an IP68/69K rated (mated condition), high-performance, cost-effective solution designed for smaller AWG applications, and ideally suited for "under the hood" applications where higher temperatures are required. While our ATM Series™ connectors have an Operating Temperature Range of -55°C to 125°C, **our ATMH Series™ has an increased operating temperature range of -55°C to 150°C.** All of our ATMH Series™ connectors have been developed to be compatible with other existing standard products industry-wide.

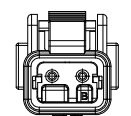
Applications: Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

ATMH Series™ plugs and receptacles both arrive with an integrated, "unseated", **Terminal Position Assurance (TPA) Lock.** Once the contacts have been installed by the user, the TPA's can then be fully "seated" for proper use. The TPA's are color-coded for their respective keying position: **Keyed A-Grey**, **Keyed B-Black**, **Keyed C-Green**, and **Keyed D-Brown.**

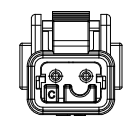
ATMH Series™ Keying Options (Plug TPAs are shown "seated". Receptacle TPAs are hidden from view.)



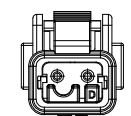
Keyed A Plug
ATMH06-2SA
TPA Color: Grey



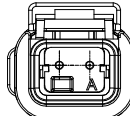
Keyed B Plug
ATMH06-2SB
TPA Color: Black



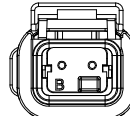
Keyed C Plug
ATMH06-2SC
TPA Color: Green



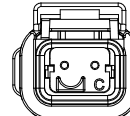
Keyed D Plug
ATMH06-2SD
TPA Color: Brown



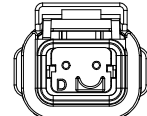
Keyed A Recep
ATMH04-2PA
TPA Color: Grey



Keyed B Recep
ATMH04-2PB
TPA Color: Black



Keyed C Recep
ATMH04-2PC
TPA Color: Green



Keyed D Recep
ATMH04-2PD
TPA Color: Brown

Important: ATMH Series™ plugs and receptacles are capable of mating with ATM Series™ plugs and receptacles, but will only retain the lower ATM Series™ operating temperature range of -55°C to +125°C when mixed.

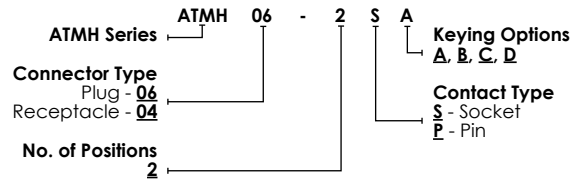


A Series™ Family



Standard products. Custom solutions
Customer Service +1 800 394 7732

ATMH Series™ - Part Numbering Sequence



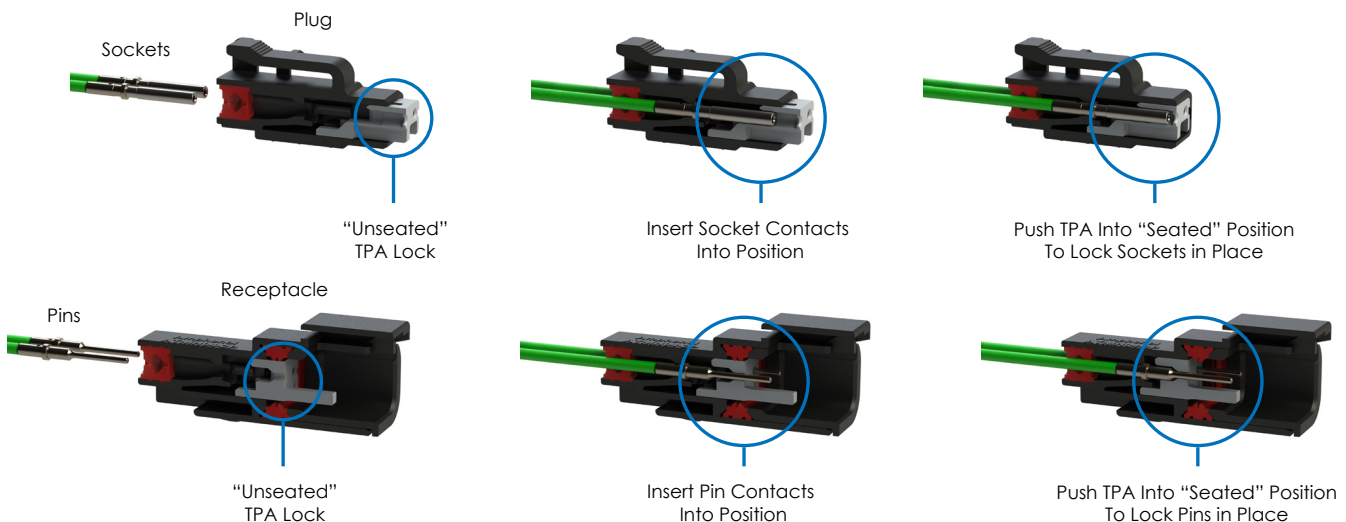
ATMH Series™ - Features & Benefits

Current Capacity	Size 20, 7.5A
Wire Range	Size 20 contacts will accept wire ranges of 16-22AWG
Operating Temperature	-55°C to +150°C at rated current
IP Rating	IP68 (1M of water for a period of 24 hours, mated condition) & IP69k (in mated condition)
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
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 contacts with 20AWG conductor - 60mV (solid contact) drop max; 100mV (stamped & formed contact) drop max at 7.5A test current





ATMH Series™ - Product Material

Housings	Thermoplastic
Seals	Silicone Elastomer
Terminal Position Assurance Lock	Thermoplastic
Contacts	Copper Alloy, Nickel Plated, Gold optional





ATMH Series™ - How to Install Contacts with Terminal Position Assurance (TPA) Locks



2 Position - ATMH™ Series Plugs

Image	Part Number	Description	Size	Amp
	ATMH06-2SA	2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Grey), Keyed A, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH06-2SB	2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Black), Keyed B, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH06-2SC	2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Green), Keyed C, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH06-2SD	2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Brown), Keyed D, Standard Diameter Rear Seal (Red), Black Body	20	7.5A

2 Position - ATMH Series™ Receptacles

	ATMH04-2PA	2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Grey), Keyed A, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH04-2PB	2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Black), Keyed B, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH04-2PC	2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Green), Keyed C, Standard Diameter Rear Seal (Red), Black Body	20	7.5A
	ATMH04-2PD	2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Brown), Keyed D, Standard Diameter Rear Seal (Red), Black Body	20	7.5A

ATMH Series™ - Contacts (For a complete contact list, see individual ATMH Series™ Plug and Receptacle datasheets.)

Part Number	Description	Size	AWG	Type
AT62-201-2031	Female Contact - Socket, Gold-plated	20-22	20	Solid
AT60-202-2031	Male Contact - Pin, Gold-plated	20-22	20	Solid
AT62-201-20141	Female Contact - Socket, Nickel-plated	20-22	20	Solid
AT60-202-20141	Male Contact - Pin, Nickel-plated	20-22	20	Solid
AT62-20-0144	Female Contact - Socket, Gold-plated	16-22	20	Stamped & Formed
AT60-20-0144	Male Contact - Pin, Gold-plated	16-22	20	Stamped & Formed
AT62-20-0122	Female Contact - Socket, Nickel-plated	16-22	20	Stamped & Formed
AT60-20-0122	Male Contact - Pin, Nickel-plated	16-22	20	Stamped & Formed

For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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ATM ATM Series™ 2-Wire CAN



J1939/15 2-Wire CAN Connectors

Amphenol Sine Systems' **ATM Series™ 2-Wire CAN System** is offered in accordance with SAE J1939/15 requirements and can provide low amperage power splits. The "Y-Splitter" has three connection points and is used in conjunction with a standard ATM2S connector with specialized keyways identifying Inlet 1 and Outlet 2, and 2 position keyed plugs/receptacles with end caps and molded-in 120Ω resistors for network terminations.

Applications: Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments



Technical Specifications

Temperature Range	-55°C - +125°C
Max. Current (AMP)	7.5A
Voltage Rating (AC/DC)	250V
Contact Resistance	< 15mΩ
Contacts	Copper Alloy, Gold Plating
Contact Size	20

Min. Mating Cycles	> 100
IP Rating	IP67 in mated condition
Wire Range	20-22AWG
Housing Body	Thermoplastic
Insulation Resistance	1000 megohms at 25°C
Dielectric Withstanding Voltage	Less than 2 mA current leakage @ 1500V AC

Part Number	Description	Amperage	Voltage	AWG
ATM04-2P-P007	ATM, 6 Position, 2 Position Receptacle, Y Splitter (Contacts & Wedgelock Included)	7.5A	250	20-22
ATM04-2P-RA120GY	ATM, 2 Position, Receptacle, A Key, 120 OHM Resistor, Gray (Contacts & Wedgelock Included)	7.5A	250	20-22
ATM04-2P-RB120BK	ATM, 2 Position, Receptacle, B Key, 120 OHM Resistor, Black (Contacts & Wedgelock Included)	7.5A	250	20-22
ATM06-2S-R120GRY	ATM, 2 Position, Plug, A Key, 120 OHM, 1/2W, Gray, Endcap (Contacts & Wedgelock Included)	7.5A	250	20-22
ATM06-2S-RB120BK	ATM, 2 Position, Plug, B Key, 120 OHM Resistor, Black (Contacts & Wedgelock Included)	7.5A	250	20-22
AWM-2PA	ATM, 2 Position Pin Wedgelock, A Keyed	NA	NA	NA
AWM-2PB	ATM, 2 Position Pin Wedgelock, B Keyed	NA	NA	NA
AWM-2SA	ATM, 2 Position Socket Wedgelock, A Keyed	NA	NA	NA
AWM-2SB	ATM, 2 Position Socket Wedgelock, B Keyed	NA	NA	NA



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