



ATV Series™

18 Position Heavy Duty Connectors

The ATV Series™ connectors further expands the proven reliability of the AT Series™ with a compact 18 position sealed flange design. The durable thermoplastic housings feature built-in contact sealing to eliminate individual wire-sealing grommets, while an integral interfacial seal protects mated connectors. The ATV Series™ is perfectly suited to on and off highway applications, marine, industrial, and agriculture markets in harsh environments.

Key Features

- 18 Position cavity arrangement
- Rectangular, thermoplastic housing
- Accepts contact size 16 (13A)
- 14-22AWG
- Flange Mount or In-line (Flangeless) Capability
- Integrated latch for mating
- Integrated wedgelock confirms contact alignment/retention
- Available in custom color options



ATV Series™ - Specifications (Reference Individual Datasheets)

IP Rating (in mated condition)	IP68
Max. Current (Amperage)	Up to 13A
Max. Voltage Rating	250V
Operating Temperature	-40°C to +125°C
Coupling System	Integrated Latch
Secondary Locks	Thermoplastic
Housing Body	Thermoplastic
Contact Types	Stamped & Formed, Machined
Contact Material	Copper Alloy, Nickel Plated (Gold option)
Wire Range	14-22AWG (See datasheets)
Sealing Material	Silicone Elastomer
Min. Mating Cycles	>100
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
Test Voltage Rating	1500V or 2000V
Insulation Resistance	1000 megohms min. of 25°C

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
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
Contact Millivolt Drop	Size 16 contacts with 16AWG conductor - 100 mV drop max at 13A test current
RoHS Compliant	ALL materials meet the requirements of the European Directive. (See website for documentation)

A Series™ Family



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

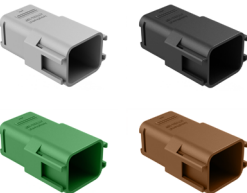
ATV Series™ - Plugs

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

Image	Part Number	Description
	ATV06-18SA	18 Position, Plug, Size 16 Contact, ATV Series™, Key A, Standard Seal, Grey Body
	ATV06-18SA-RR01	18 Position, Plug, Size 16 Contact, ATV Series™, Key A, Double Reduced Seal, Grey Body
	ATV06-18SB	18 Position, Plug, Size 16 Contact, ATV Series™, Key B, Standard Seal, Black Body
	ATV06-18SB-RR01	18 Position, Plug, Size 16 Contact, ATV Series™, Key B, Double Reduced Seal, Black Body
	ATV06-18SC	18 Position, Plug, Size 16 Contact, ATV Series™, Key C, Standard Seal, Green Body
	ATV06-18SC-RR01	18 Position, Plug, Size 16 Contact, ATV Series™, Key C, Double Reduced Seal, Green Body
	ATV06-18SD	18 Position, Plug, Size 16 Contact, ATV Series™, Key D, Standard Seal, Brown Body
	ATV06-18SD-RR01	18 Position, Plug, Size 16 Contact, ATV Series™, Key D, Double Reduced Seal, Brown Body
	AWV-18S	Plug Wedgelock, 18 Position, ATV Series™, Green Body

ATV Series™ - Receptacles

Note: Refer to individual datasheets on www.amphenol-sine.com for full specs, faceviews, keying location and product dimensions.

Image	Part Number	Description
	ATV02-18PA	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key A, Grey Body
	ATV02-18PA-RR01	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key A, Double Reduced Seal, Grey Body
	ATV02-18PB	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key B, Black Body
	ATV02-18PB-RR01	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key B, Double Reduced Seal, Black Body
	ATV02-18PC	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key C, Green Body
	ATV02-18PC-RR01	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key C, Double Reduced Seal, Green Body
	ATV02-18PD	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key D, Brown Body
	ATV02-18PD-RR01	18 Position, Flange Mount Receptacle, Size 16 Contact, ATV Series™, Key D, Double Reduced Seal, Brown Body
	ATV04-18PA	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key A, Grey Body
	ATV04-18PA-RR01	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key A, Double Reduced Seal, Grey Body
	ATV04-18PB	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key B, Black Body
	ATV04-18PB-RR01	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key B, Double Reduced Seal, Black Body
	ATV04-18PC	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key C, Green Body
	ATV04-18PC-RR01	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key C, Double Reduced Seal, Green Body
	ATV04-18PD	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key D, Brown Body
	ATV04-18PD-RR01	18 Position, In-Line Receptacle, Size 16 Contact, ATV Series™, Key D, Double Reduced Seal, Brown Body
	AWV-18P	Receptacle Wedgelock, 18 Position, ATV Series™, Green Body