



AT ATSeries™ 18 Pos

Heavy-Duty, Multi-Pin, 13A,
Thermoplastic Connectors



18 x Size 16 Contacts Configuration

Amphenol Sine Systems' **AT Series™** connectors are a high-performance, IP68/69K rated (mated), thermoplastic, cost-effective solution with superior environmental seals and seal retention capabilities available in 2, 3, 4, 6, 8, 12, 13 (Mixed), 15 (Mixed) and 18 position. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our **AT Series™** connectors offer a wide range of end caps and strain relief options and have been developed to be compatible with all other existing standard products industry-wide. The 18 Position is available in a **PanelMate™** option.

Key Features

- Optional keying A, B, C, D and E (color-specified)
- Optional **SR02 Strain Relief** protects each wire cavity to maximize sealing integrity
- Plug and receptacle housings are pre-assembled with internal rear seals and covers
- Superior front and rear environmental seals and seal retention capabilities provide a multi-sealing perimeter against environmental ingress

Applications: Heavy Duty, Transportation, Marine, Diagnostic, Alternative Energy, Agricultural and other demanding interconnect architectures.

Operating Temperature	-55°C to +125°C
Max Current Rating (Amperage)	13A
Mating Cycle Durability	>100
IP Rating	IP68/69K (in mated condition)
Wire Range	Size 16 (14-20AWG) contacts
Contacts	Available in Machined and Stamped & Formed; Copper Alloy, Nickel-Plated, Gold plating optional
Housing/Latch Material	Thermoplastic/Integrated latch for mating
Sealing Material	Silicone Rubber
Dielectric Withstanding Voltage	Less than 2 milliamps 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)
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


















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18 Position - AT Series™ Plugs

Image	Part Number	Description	Size	Amp
	AT16-18SA-K004	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SB-K004	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SC-K004	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SD-K004	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SE-K004	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SA-EK02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Gray Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SC-EK02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SD-EK02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Brown Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SE-EK02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Gray Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SA-SR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SB-SR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SC-SR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SD-SR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SE-SR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SA-EKSR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Grey Body (No Add'l Wedgelock Required)	16	13A







18 Position - **AT Series™** Plugs, cont.

Image	Part Number	Description	Size	Amp
	AT16-18SC-EKSR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SD-EKSR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Brown Body (No Add'l Wedgelock Required)	16	13A
	AT16-18SE-EKSR02	18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Grey Body (No Add'l Wedgelock Required)	16	13A

 18 Position - **AT Series™** Receptacles

	AT16-18PA-K004	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PB-K004	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-K004	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PD-K004	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PE-K004	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PA-EK02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-EK02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PD-EK02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Brown Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PE-EK02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PA-SR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PB-SR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-SR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Black Body (No Add'l Wedgelock Required)	16	13A


18 Position - **AT Series™** Receptacles, cont.

Image	Part Number	Description	Size	Amp
	AT16-18PD-SR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PE-SR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PA-EKSR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-EKSR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PD-EKSR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Brown Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PE-EKSR02	18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Grey Body (No Add'l Wedgelock Required)	16	13A




 18 Position - **PanelMate™ AT** Receptacles

	AT16-18PA-PM11	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed A, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PB-PM11	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-PM11	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PD-PM11	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed D, Brown Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PE-PM11	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed E, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PA-PM15	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed A, Grey Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PB-PM15	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed B, Black Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PC-PM15	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed C, Green Body (No Add'l Wedgelock Required)	16	13A
	AT16-18PD-PM15	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed D, Brown Body (No Add'l Wedgelock Required)	16	13A

18 Position - **PanelMate™ AT** Receptacles, cont.

Image	Part Number	Description	Size	Amp
	AT16-18PE-PM15	18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed E, Grey Body (No Add'l Wedgelock Required)	16	13A

18 Position - **AT Series™** Accessories

	AT16-1518S-CAP	Protective Cover for 12, 15, 18 Position AT Series™ Plugs, Black Body		-
	ATBS-PS-1805	Backshell for 15 & 18 Pos, AT Series™, Black Body		-
	AT11-310-1605	Contact Removal Tool, Plastic, Size 16		-

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

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