



AT ATSeries™ 15 Pos

Heavy-Duty, Multi-Pin, 13A/25A (Mixed) Thermoplastic Connectors

13 x Size 16 Contacts / 2 x Size 12 Contacts - Mixed 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.

Keyed Features

- Optional Keying configurations A, B, C, D and E (color-specified)
- 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) | 25A (Size 12), 13A (Size 16) |
| Mating Cycle Durability | >100 |
| IP Rating | IP68/69K (in mated condition) |
| Wire Range | 10-14AWG (Size 12) & 14-20AWG (Size 16) 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 |











A ASeries™ Family







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





15 Position - AT Series™ Plugs

| Image | Part Number | Description | Size | Amp |
|--|----------------|---|--------|--------------------------------------|
|  | AT16-15SA-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SB-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed B, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SC-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SD-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SE-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SA-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SC-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Green Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SD-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Brown Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15SE-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |





15 Position - AT Series™ Receptacles

| | | | | |
|--|----------------|--|--------|--------------------------------------|
|  | AT16-15PA-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PB-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed B, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PC-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PD-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PE-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |

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

| Image | Part Number | Description | Size | Amp |
|--|----------------|--|--------|--------------------------------------|
|  | AT16-15PA-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PC-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Green Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PD-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Brown Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |
|  | AT16-15PE-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required) | 12, 16 | 25A (Size 12) 13A (Size 16) |

 15 Position - **AT Series™** Accessories

| | | | | |
|---|----------------|--|---|---|
|  | AT16-1518S-CAP | Protective Cover for 12, 15, 18 Position Plugs, Black Body | - | - |
|  | ATBS-PS-1805 | Backshell for 15 & 18 Position, AT Series™, Black Body | - | - |
|  | AT11-337-1205 | Contact Removal Tool, Plastic, Size 12 | - | - |
|  | AT11-310-1605 | Contact Removal Tool, Plastic, Size 16 | - | - |

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

© 2021 Amphenol Sine Systems Corporation, 44724 Morley Drive, Clinton Township MI 48036 USA. www.amphenol-sine.com. Customer Service +1 800 394 7732 Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.