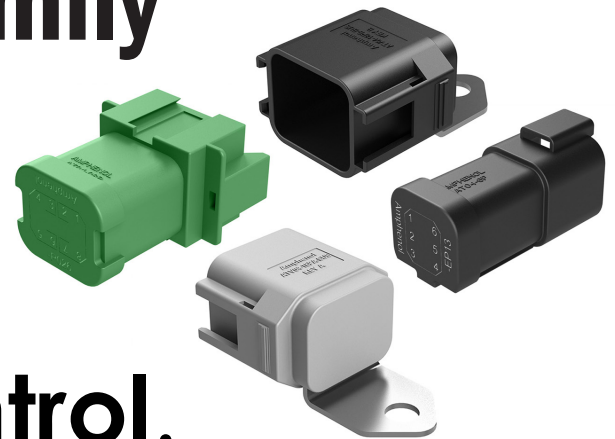




# **HB** **HYPERBUSS™** Family

**More Power.  
More Data.  
More Control.**



Amphenol Sine Systems' **HYPERBUSS™ Family** of Receptacle Connectors are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required. They contain superior environmental seals and seal retention capabilities.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

Currently available in **HYPERBUSS™ AT Series** and **HYPERBUSS™ ATV Series** options, each intermateable with their respective industry standard connectors.



## Key Features

- **HYPERBUSS™ AT Series:** Available in 2, 4, 6, 8, and 12 Position Receptacles
- **HYPERBUSS™ ATV Series:** Available in 18 Position Receptacles
- Sealed Integrated Bussed Feedback Assembly
- Rectangular, thermoplastic housing
- Integrated latch for mating
- Included wedgelock confirms contact alignment and retention



**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural



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# HB HYPERBUSS™ AT



## AT Series™ Heavy Duty Bussed Receptacles

Amphenol Sine Systems' **HYPERBUSS™ AT** Receptacle Connectors are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. They contain superior environmental seals and seal retention capabilities. All **HYPERBUSS™ AT** Receptacle Connectors are intermateable with standard AT Series™ Plugs as well as industry standard connectors.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

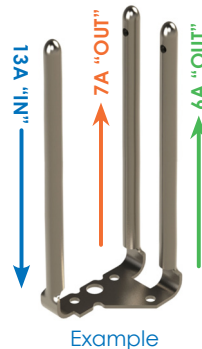
### Key Features

- Available in 2, 4, 6, 8 and 12 Position Receptacles
- Sealed Integrated Bussed Feedback Assembly
- Rectangular, thermoplastic housing
- Included wedgelock confirms contact alignment/retention
- Integrated latch for mating
- Mates with standard AT Series™ Plugs

**Applications:** Bussed Feedback Receptacles used as a Splice Block or Tap Block

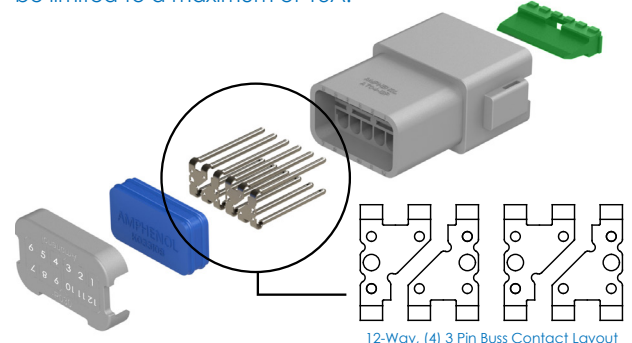
### Technical Specifications

Housings	Thermoplastic
Secondary Locks	Thermoplastic (Included)
Contacts	Nickel or Gold
Temperature	Operating temperature range: -55°C to +125°C at rated current
IP Rating	IP67
Mates with	All AT06-(XXXX) Plugs
Contact Size	16
Current Rating	13A MAX Per Contact
Contacts	Pins, Integral
Connector Type	In-line
Keying Options	Available in 8 & 12 Position A and B Coding



Example

Maximum rated current is determined by the combined current across the entire buss. In the example to the left, various combinations of current can be achieved, but must be limited to a maximum of 13A.



12-Way, (4) 3 Pin Buss Contact Layout



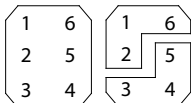
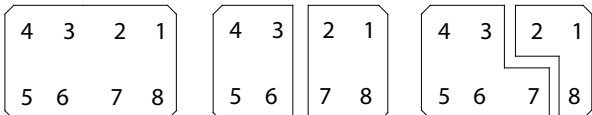
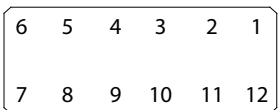
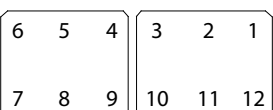
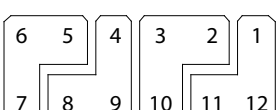
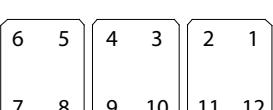
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**HYPERBUS™ AT Heavy Duty Bussed Connectors**

Pin Layout	Part Number	Type
 -P060	AT04-2P-P060	AT, HYPERBUS™, 2-Way Receptacle, (1) 2 Pin (*13A), Nickel, Black
 -EP13 / -P021	AT04-4P-EP13	AT, HYPERBUS™, 4-Way Receptacle, (1) 4 Pin (*26A), Nickel, Black
	AT04-4P-P021	AT, HYPERBUS™, 4-Way Receptacle, (1) 4 Pin (*26A), Nickel, Grey
 -EP13 / -P021    -EP14	AT04-6P-EP13	AT, HYPERBUS™, 6-Way Receptacle, (1) 6 Pin (*39A), Nickel, Black
	AT04-6P-P021	AT, HYPERBUS™, 6-Way Receptacle, (1) 6 Pin (*39A), Nickel, Grey
	AT04-6P-EP14	AT, HYPERBUS™, 6-Way Receptacle, (2) 3 Pin (*13A ea), Nickel, Black
 -P021    -P026    -P028	AT04-08PA-P021	AT, HYPERBUS™, 8-Way Receptacle, (1) 8 Pin (*52A), Nickel, Keyed A, Grey
	AT04-08PB-P021	AT, HYPERBUS™, 8-Way Receptacle, (1) 8 Pin (*52A), Nickel, Keyed B, Black
	AT04-08PA-P026	AT, HYPERBUS™, 8-Way Receptacle, (2) 4 Pin (*26A ea), Nickel, Keyed A, Grey
	AT04-08PB-P026	AT, HYPERBUS™, 8-Way Receptacle, (2) 4 Pin (*26A ea), Nickel, Keyed B, Black
	AT04-08PA-P028	AT, HYPERBUS™, 8-Way Receptacle, (1) 3 Pin (*13A), (1) 5 Pin (*26A), Nickel, Keyed A, Grey
	AT04-08PB-P028	AT, HYPERBUS™, 8-Way Receptacle, (1) 3 Pin (*13A), (1) 5 Pin (*26A), Nickel, Keyed B, Black
 -P016 / -P021   -P026 / -P027   -P030 / -P031   -P075	AT04-12PA-P016	AT, HYPERBUS™, 12-Way Receptacle, (1) 12 Pin (*78A), Gold, Keyed A, Grey
	AT04-12PB-P016	AT, HYPERBUS™, 12-Way Receptacle, (1) 12 Pin (*78A), Gold, Keyed B, Black
	AT04-12PA-P021	AT, HYPERBUS™, 12-Way Receptacle, (1) 12 Pin (*78A), Nickel, Keyed A, Grey
	AT04-12PB-P021	AT, HYPERBUS™, 12-Way Receptacle, (1) 12 Pin (*78A), Nickel, Keyed B, Black
	AT04-12PA-P026	AT, HYPERBUS™, 12-Way Receptacle, (2) 6 Pin (*39A ea), Nickel, Keyed A, Grey
	AT04-12PB-P026	AT, HYPERBUS™, 12-Way Receptacle, (2) 6 Pin (*39A ea), Nickel, Keyed B, Black
	AT04-12PB-P027	AT, HYPERBUS™, 12-Way Receptacle, (2) 6 Pin (*39A ea), Gold, Keyed B, Black
	AT04-12PA-P030	AT, HYPERBUS™, 12-Way Receptacle, (4) 3 Pin (*13A ea), Nickel, Keyed A, Grey
	AT04-12PB-P030	AT, HYPERBUS™, 12-Way Receptacle, (4) 3 Pin (*13A ea), Nickel, Keyed B, Black
	AT04-12PA-P031	AT, HYPERBUS™, 12-Way Receptacle, (4) 3 Pin (*13A ea), Gold, Keyed A, Grey
	AT04-12PB-P031	AT, HYPERBUS™, 12-Way Receptacle, (4) 3 Pin (*13A ea), Gold, Keyed B, Black
	AT04-12PA-P075	AT, HYPERBUS™, 12-Way Receptacle, (3) 4 Pin (*26A ea), Nickel, Keyed A, Grey

\*Maximum current rating is the total amperage for the buss

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# HB HYPERBUSS™ ATV



## ATV Series™ Heavy Duty Bussed Receptacles

Amphenol Sine Systems' **HYPERBUSS™ ATV Series 18 Position Receptacles** are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required: Heavy Duty, Transportation, Marine, Military, Alternative Energy and Agricultural. All **HYPERBUSS™ ATV Receptacles** are intermateable with standard **ATV Series™ Plugs**, as well as industry standard connectors. They offer superior environmental seals and seal retention capabilities in the mated condition.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

### Key Features

- Size 16 (13A) Contacts
- Integrated latch confirms mating and retention
- Available in A and B keying options
- Available in custom color options



Housings	Thermoplastic
Contacts	Copper Alloy
Temperature	Operating temperature range: -55°C to +125°C at rated current
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 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
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 16 contacts with 16AWG conductor - 100 mV drop max at 13A test current




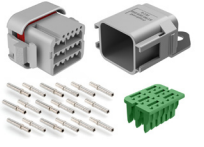

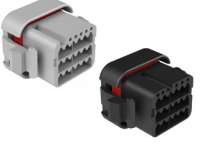

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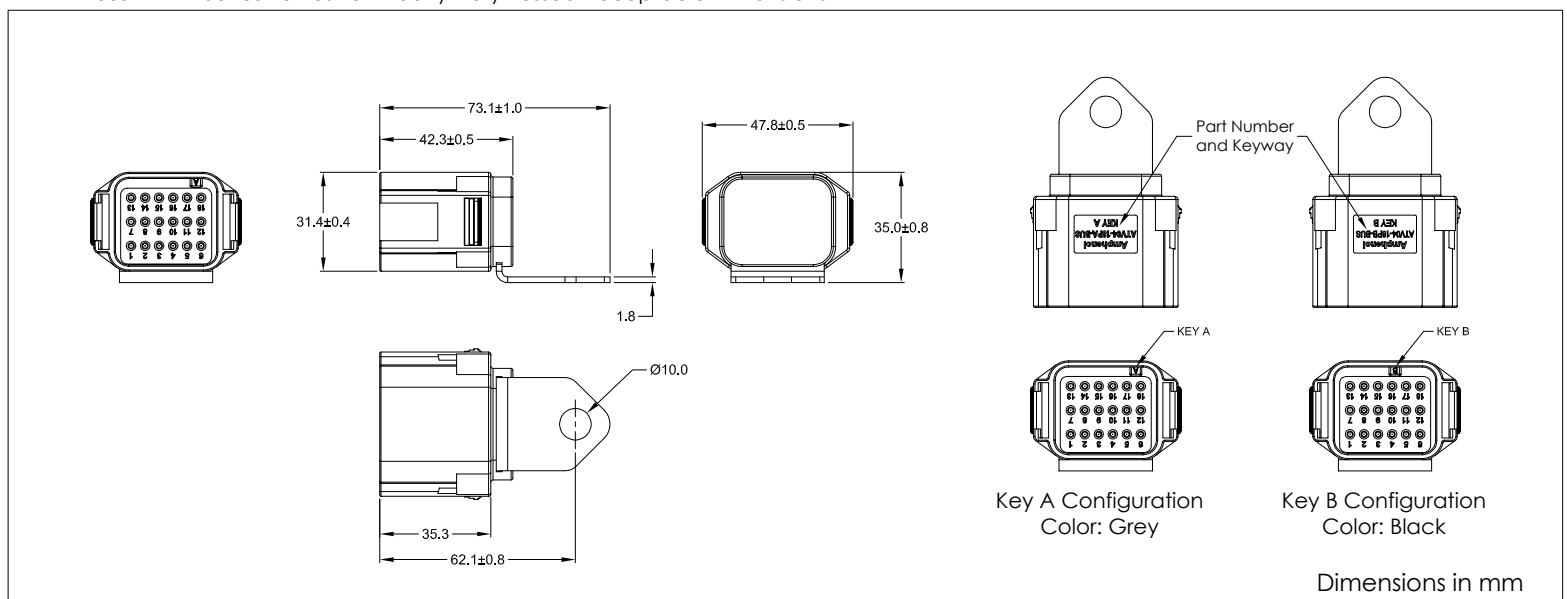
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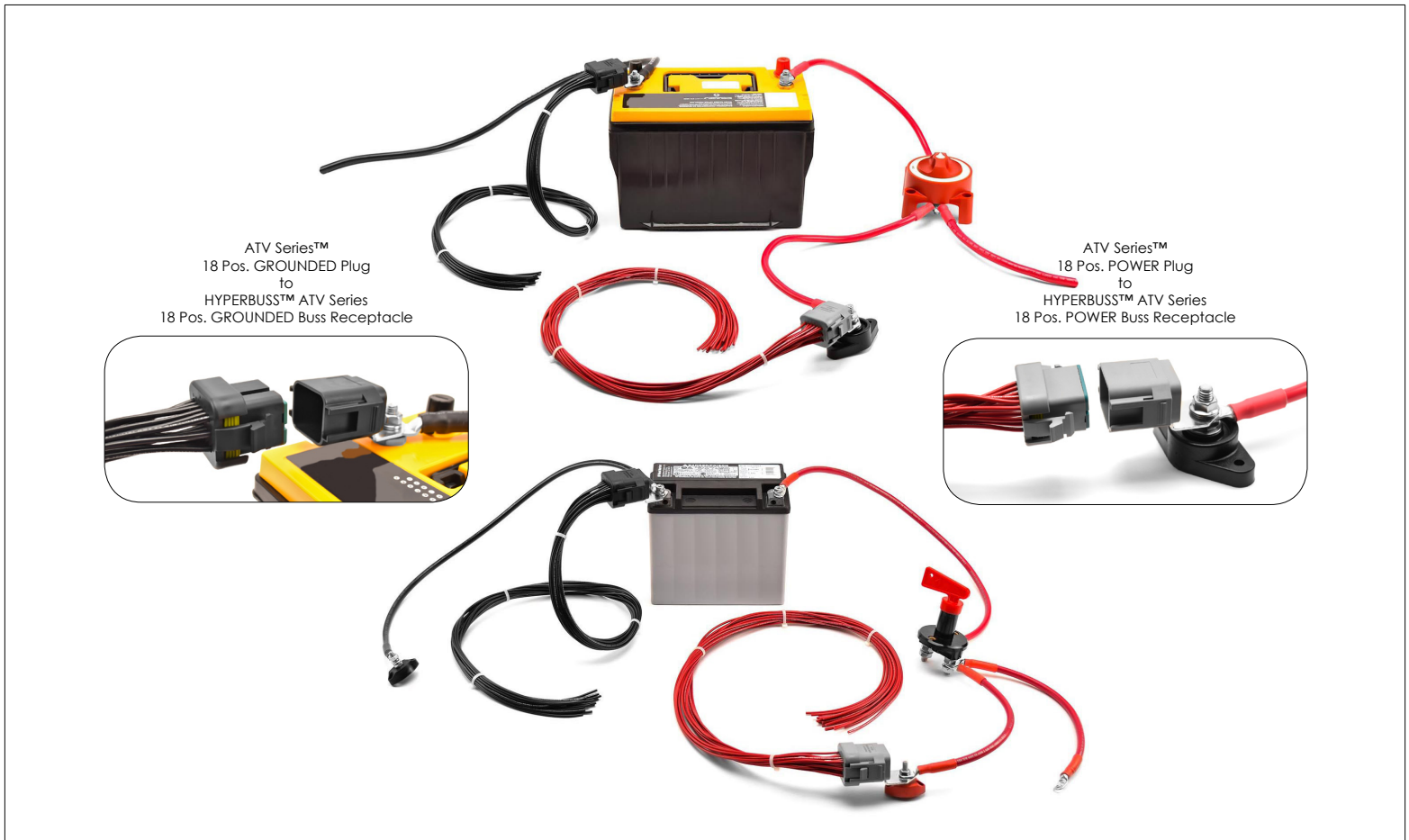
**HYPERBUSSTM ATV Series 18 Position Heavy Duty Bussed Receptacles and Kits**

Image	Part Number	Description
	ATV04-18PA-BUS	HYPERBUSSTM ATV Series, 18 Position, Receptacle, Size 16 Contact, Key A, Grey
	ATV04-18PB-BUS	HYPERBUSSTM ATV Series, 18 Position, Receptacle, Size 16 Contact, Key B, Black
	ATV46-18PSA-BUSCKIT	HYPERBUSSTM ATV Series Kit, 18 Position Contains: (1) HYPERBUSSTM ATV Receptacle/(1) ATV SeriesSTM Plug, (18) Size 16 Contacts, Key A, Grey
	ATV46-18PSB-BUSCKIT	HYPERBUSSTM ATV Series Kit, 18 Position Contains: (1) HYPERBUSSTM ATV Receptacle/(1) ATV SeriesSTM Plug, (18) Size 16 Contacts, Key A, Black
	ATV06-18SA	ATV SeriesSTM, 18 Position, Plug, Size 16 Contact, Key A, Standard Seal, Grey
	ATV06-18SB	ATV SeriesSTM, 18 Position, Plug, Size 16 Contact, Key B, Standard Seal, Black
	AWV-18S	ATV SeriesSTM, Wedgelock For 18 Position Plug, Green

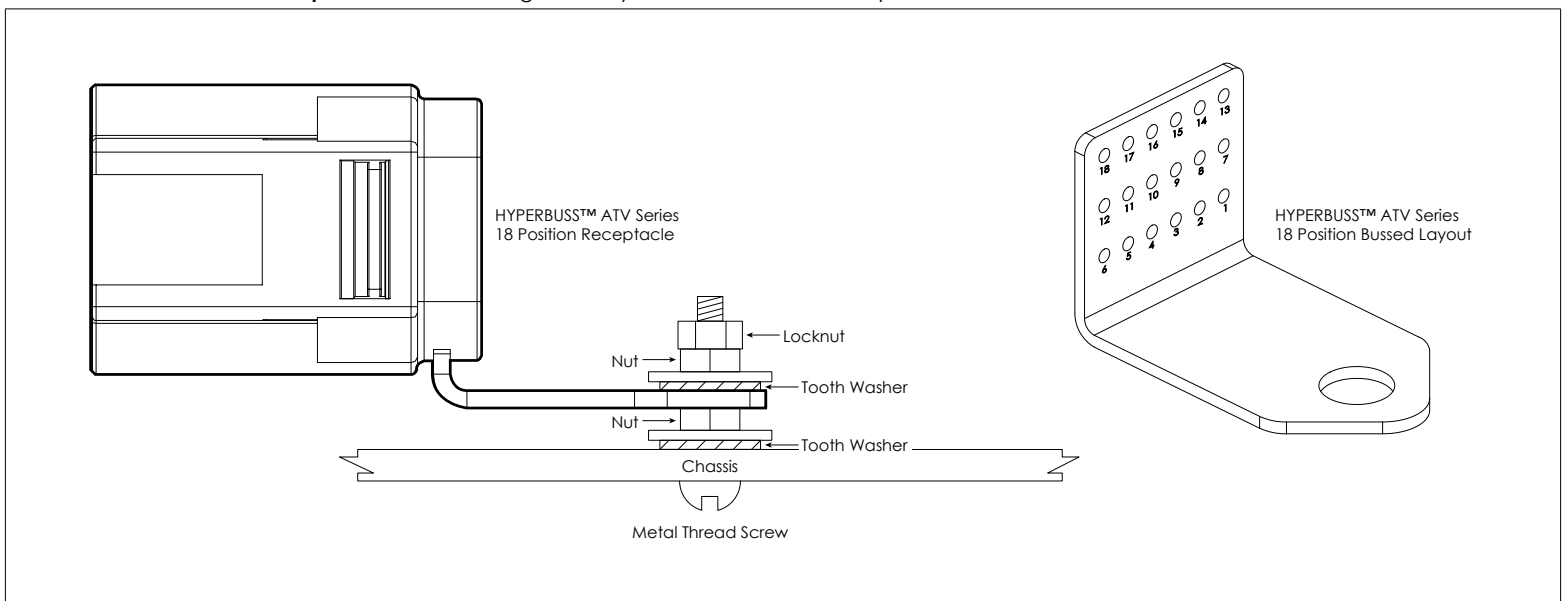
**HYPERBUSSTM ATV Series 18 Position Heavy Duty Bussed Receptacle Dimensions**



**HYPERBUSS™ ATV Series Sample Architecture: Plug and Play Battery GROUND/Battery POWER Buss System**



**HYPERBUSS™ ATV Series Sample Architecture: Plug and Play Chassis GROUND Buss System**



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