



A Series Thermoplastic Connectors

Standard products. Custom solutions.









We Are Amphenol

Global Interconnect Solution Supplier

For over 80 years Amphenol has enjoyed success as the interconnection technology provider of choice for industry leading companies around the world. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, Information Technology and Data Communications Equipment, Mobile Devices, Mobile Networks, Broadband Communication, Military and Commercial Aerospace, Industrial, Automotive and Chip Card Readers - enabling smarter, faster and better technologies to connect products to customer solutions.

Our engineers design innovative combinations of industry standard connectors and application specific shielding components to create assembly systems that set the standards for performance, reliability, and cost effectiveness. Our engineering, materials, and manufacturing organizations meet the high standards imposed by ISO 9001:2008 as well as many customer specific quality systems. Our performance has earned us ship to stock and world class performance awards from many major OEMs.

We are one of the largest interconnect solution suppliers in the world and supply a wide range of product solutions globally. The industrial market footprint of Amphenol covers more than 30 countries.



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Standard products. Custom solutions.

Our A Series[™] product lines, which include AT, ATP, ATM and AHD Series[™], have key placement in all areas of Heavy Duty Equipment, Agriculture, Marine, Automotive, Military, Alternative Energy and other demanding interconnect applications. Based on our superior build quality, high-performance capabilities and having been developed to be compatible with all other existing standard products industry-wide, our A Series[™] products are perfect alternatives for you.

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

By combining locally-based Program Management & Engineering, along with the associated cost advantages derived from manufacturing in our low-cost production centers in North America and Asia, our Team will work with you to design the most cost-efficient and reliable interconnect system available.



Features and Benefits

Plastic Rectangular & Circular Connectors

Amphenol's plastic rectangular & circular connectors encompass a wide range of products serving a variety of industries

High Performance / Cost Effective

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

Industry Standard

Our superior built quality, high-performance connectors have been developed to be compatible with all other existing standard products industry-wide

Environmental

A Series connectors span the gap between controlled environments to harsh conditions. Rated IP67+

Standards

A Series connectors are testested to perform to the highest industry standards. See performance standards for more information.

A Series[™] Amphenol Transportation

Typical Applications







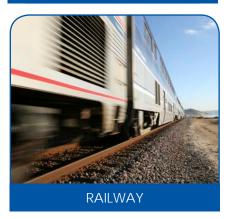














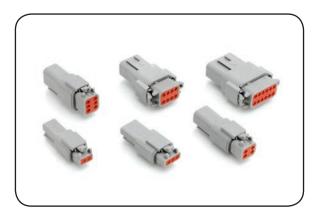




A Series Amphenol Transportation

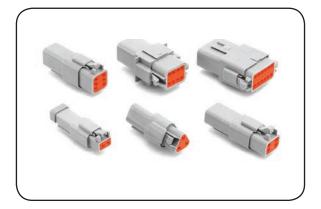
Product Overview

Amphenol's A Series™ connectors encompass a wide range of products serving a variety of industries. With applications in Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural industries, as well as spanning the gap between controlled to harsh environmental conditions, our A Series™ connectors keep you connected with confidence. While our mission is to always provide the best economic alternatives to today's existing standard connector markets, it is through our constant efforts to improve on those standard products that truly display our innovative product designs.



ATM Series[™] See page 21 2, 3, 4, 6, 8 and 12 positions available

- 16-22AWG, 7.5A, Size 20
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide.



AT Series™ See page 41 2, 3, 4, 6, 8 and 12 positions available

- 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Superior environmental seal retention
- RockSolid™ Contact technology (optional)
- Compatible with existing standard products industry-wide



ATP Series™ See page 87 2 and 4 position available

- 10-14AWG, 25A, Size 12
- High-performance, cost-effective
- Superior environmental seal retention capabilities
- Compatible with existing standard products industry-wide

Standard Products. Custom Solutions.



Panel | Mate[™] See page 81 2, 3, 4, 6, 8 and 12 Position / Size 16, 13A 13 Position / Size 12, 25A; Size 16, 13A

- lange mounting options
- Mates with AT/ATP Series Plugs
- Harsh environment applications



Boardlock™ See page 75 2, 3, 4, 6, 8 and 12 Position / Size 16, 13A 13 Position / Size 12, 25A; Size 16, 13A

- Environmentally sealed thermoplastic connection system
- Perfect for power or data signal applications
- Compatible with existing standard products industrywide



AHD Series™ See page 105 6 and 9 positions available

- 6 position: 10-14AWG, 25A, Size 12
- 9 position: 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Ideal for controlled/uncontrolled environmental conditions
- Compatible with existing standard products industrywide



DuraMate™ See page 127 Available in Size 24 with 7, 19, 21, 23, 27, 29, 31 and 47 Position Insert Arrangements and Size 18 with 14 Positions

- 2.3.4.6.8.12 and 13 Positions Size 16 / 13A
- 14-20AWG, 13A, Size 16
- Polarized for proper mating of connector halves
- High density signal and mixed power insert configurations
- High Current configurations incorporating RADSOK contacts.

Product Overview (con't)



Multi | Mate[™] See page 179 Trunk (Size 12, 25A Max) and Drop (Size 16, 13A Max), or

Trunk (Size 16, 13A Max) and Drop (Size 16, 13A Max)

- Overmolded "Plug & Play" connections for power, signal and data
- Mates with AT/ATP Series Plugs
- Heavy-duty applications



HydroNet™ See page 175 Two 4 Pin AT/DT Interfaces

- Multi-Hub Adapter
- Provides flexibility and reliability when connecting multiple devices to NMEA 2000 network
- Powers the NMEA network in a rugged compact and environmentally sealed package



Magna | Mate[™] See page 183

2 Positions Heavy Duty HIgh Power Connector

- Designed to withstand the extreme conditions
- Features Amphenol's RADSOK contact technology
- Constructed of heavy-duty thermoplastic
- Able to withstand extreme vibration and mechanical shock
- IP67 and IP69k rated



ATC Series™ See page 121 Cylindrical, Thermoplastic, Harsh Environment, Power Connector

- Jam nut and square flange mounting styles solution
- · Quick mating and unmating reverse bayonet coupling
- Environmentally sealed



ATHD Series™ See page 125

1 Positions Heavy Duty HIgh Power Connector

- Size 8 crimp contacts are rated to 70A with RADSOK technology
- Size 12 crimp contacts are rated to 35A with RADSOK technology
- Constructed of heavy-duty thermoplastic

Custom Cable and Assemblies

Custom Cable Assemblies are available for any application, and carry with them the capabilities of being overmolded in any size or length necessary. We have many specialized configurations. For more information, please contact a Sales Representative at 1-800-394-7732.



Insert Arrangements - Faceviews

2-3 Positions

	Se	ries			
No. of Positions	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size(s)	20	16	12	12,16	12,16,20
	0 0	0 0	0 0		
	STANDARD 2 POSITIONS / 7.5A page 26	STANDARD 2 POSITIONS / 13A page 46	STANDARD 2 POSITIONS / 25A page 92		
		BOARDLOCK			
2 POSITIONS		2-13 POSITIONS / 13A page 77	A		
			A) 20 () () () () () () () () () (
		MULTIMATE 2,4 POSITIONS /13A, 25A page 181	MULTIMATE 2,4 POSITIONS /13A, 25A page 181		
		PANELMATE 2-13 POSITIONS / 13A page 81	PANELMATE 2,4,13 POSITION / 16A, 25A page 99		
	0 0 0	() () () () () () () () () ()			
	STANDARD 3 POSITIONS / 7.5A page 27	STANDARD 3 POSITIONS / 13A page 47			
3 POSITIONS		0 0			
		BOARDLOCK 2-13 POSITIONS / 13A page 77			
		PANELMATE 2-13 POSITIONS / 13A page 81			

Insert Arrangements - Faceviews

4-6 Positions

	Se	ries			
No. of Positions	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
4 POSITIONS	STANDARD 4 POSITIONS / 7.5A page 28	STANDARD 4 POSITIONS / 13A page 48 BOARDLOCK 2-13 POSITIONS / 13A page 77 MULTIMATE 2,4 POSITIONS / 13A, 25A page 181 PANELMATE 2-13 POSITIONS / 13A page 81 HYDRONET 4 POSITIONS AT NEEMA ADAPTER on page 177	STANDARD 4 POSITIONS / 25A page 93 PANELMATE 2,4,13 POSITIONS / 13A, 25A page 99		
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	Se	eries			
No. of Positions	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
7 POSITIONS					DURAMATE 7 POSITIONS / 25A,80A page 133
8 POSITIONS	STANDARD 8 POSITIONS / 7.5A page 30	STANDARD 8 POSITIONS / 13A page 50 BOARDLOCK 2-13 POSITIONS / 13A page 77 PANELMATE 2-13 POSITIONS / 13A page 81			
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Insert Arrangements - Faceviews

13-23 Positions

	Se				
No. of Positions	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
13 POSITIONS		STANDARD 13 POSITIONS / 13A page 54 BOARDLOCK 2-13 POSITION / 13A,25A page 77 PANELMATE 2-13 POSITIONS / 13A page 81	PANELMATE 2,4,13 POSITIONS / 16A, 25A, page 99		
14 POSITIONS					DURAMATE 14 POSITIONS / 13A page 135
18 POSITIONS		STANDARD 18 POSITIONS / 13A page 54			
19 POSITIONS					DURAMATE 14 POSITIONS / 13A page 135
21 POSITIONS					DURAMATE 21 POSITIONS / 25A,13A page 147
23 POSITIONS					DURAMATE 23 POSITIONS /13A page 151

	Se	eries			
No. of Positions	ATM	AT	ATP	AHD	AHDP Dura Mate™
Contact Size	20	16	12	12,16	12,16,20
27 POSITIONS					DURAMATE 27 POSITIONS / 25A,13A page 153
29 POSITIONS					DURAMATE 29 POSITIONS 7.5A,13A,25A page 155
31 POSITIONS					DURAMATE 31 POSITIONS / 13A page 159
47 POSITIONS					DURAMATE 47 POSITIONS / 7.5A,13A page 165

High Power & Standard Insert Arrangements - Faceviews 1-9 POSITIONS

	Ser	ies	
No. of Positions	MAGNA MATE	ATC	ATHD
Contact Size(s)	3.6mm, 6mm, 8mm	16	8,12
1 POSITIONS High Power			ATHD 1 POSITION / 25A, 35A, 60A, 70A page 125
2 POSITIONS High Power	MAGNAMATE 2 POSITIONS / 86A, 120A, 180A page 183		
3 POSITIONS		ATC 3 POSITIONS / 13A page 121	
5 POSITIONS		ATC 5 POSITIONS / 13A page 121	
9 POSITIONS		ATC 9 POSITIONS / 13A page 121	

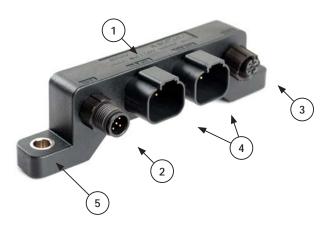
Introducing

Hydro NetTM

- Provides OEM's flexibility and increased reliability when connecting multiple devices to NMEA 2000 network
- Two 4 pin AT/DT interfaces easily adapts devices to field proven, sealed, and serviceable electrical connections
- Powers the NMEA network in a rugged, compact, and environmentally sealed package
- Factory assembled for true Plug and Play capability
- Reduces the need to modify or assemble NMEA connections onto cables
- Allows for customized and built-to-length electrical harnesses eliminating costly coils of unused cable

Feature & Benefits

- Factory assembled part for simplified mounting
- Environmentally-sealed to IP67 rating
- Rugged thermoplastic overmold (UL94-V0) (1)
- Micro NMEA Male (2) and Female (3)
- 2 Four (4) position receptacles (AT/DT) with gold pins (4)
- Stainless steel inserts for mounting (5)







See page 177 for more information

Connector Solutions

We Are Amphenol

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3 POSITIONS	7.5A	27
4 POSITIONS	7.5A	
6 POSITIONS	7.5A	
8 POSITIONS	7.5A	
8 POSITIONS- B,C,D K		
12 POSITIONS	7.5A	
	(EYS 7.5A	
STRAIN RELIEF	7.5A	
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4 POSITIONS	13A	
6 POSITIONS	13A	
8 POSITIONS	13A	
8 POSITIONS- B,C,D	13A	
12 POSITIONS		
	13A	
12 POSITIONS- B,C,D,		
13 POSITIONS	13A, 25A	
18 POSITIONS	13A	
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COVERS	13A	
J-1939	13A	
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AT Panel Mate™		
2-13 POSITIONS	13A	81
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END CAPS	25A	94
REDUCED DIA. SEALS	25A	95
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ATM SeriesTM



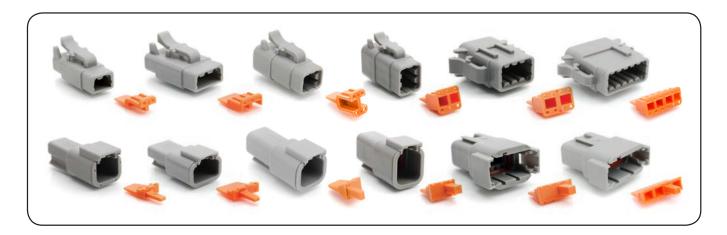
ATM Series™

Overview

ATM Series™ connectors are a high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line.

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.

ATM Series™ connectors are compatible with other existing standard products industry-wide.



Features & Benefits

Current Capacity Size 20, 7.5A (max)

Size 20 contacts will accept wire ranges of 16 thru 22AWG Wire Range Operating temperature range: -55°C to +125°C at rated current Temperature

Dielectric Value Meets or exceeds 1500 volts minimum

Shall not become detached or loosened when placed at 750mm and dropped to **Drop Test**

concrete eight times

No latch disengagement or discontinuity shall be the result when subjected to 50 g's Shock

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 Reten-

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

When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs.

Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other Thermal Shock

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

For custom insert configurations, please consult factory



ATM Series™

Features & Benefits, cont.

Contact Millivolt Drop Size 20 (stamped & formed) contacts with 20AWG conductor - 60 mV (solid contact)

drop max; 100 mV (stamped & formed contact) drop max at 7.5A test current

Water Immersion A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then

placed immediately in a depth of water of 1 meter for 4 hours without loss of

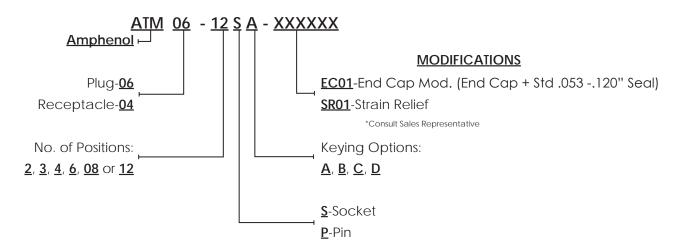
electronic performance

Product Material

Housings Thermoplastic
Seals Silicone Elastomer
Secondary Locks Thermoplastic

Contacts Copper Alloy, Nickel Plated, Gold optional

ATM Series™ Part Numbering Sequence



Plug & Receptacle Body Color Modification

A wide range of standard color options are available for all A Series™ product lines. 8 and 12 position plugs and receptacles require special order. For more information, please contact a Sales Representative.

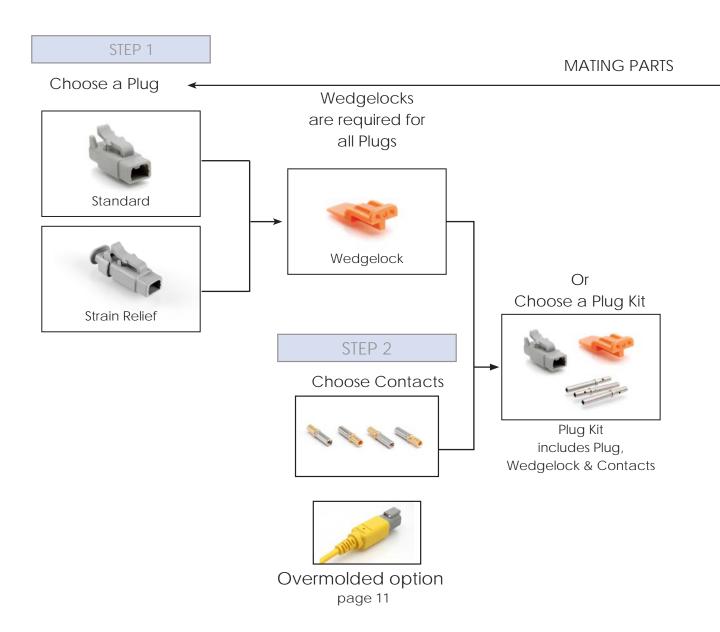
Color	Modification Number
Black	XXXX-XXXX- BLK
White	XXXX-XXXX-WHT
Brown	XXXX-XXXX- BRN
Grey	XXXX-XXXX-GRY

Color	Modification Number
Yellow	XXXX-XXXX- YEL
Green	XXXX-XXXX- GRN
Blue	XXXX-XXXX- BLU
Red	XXXX-XXXX- RED



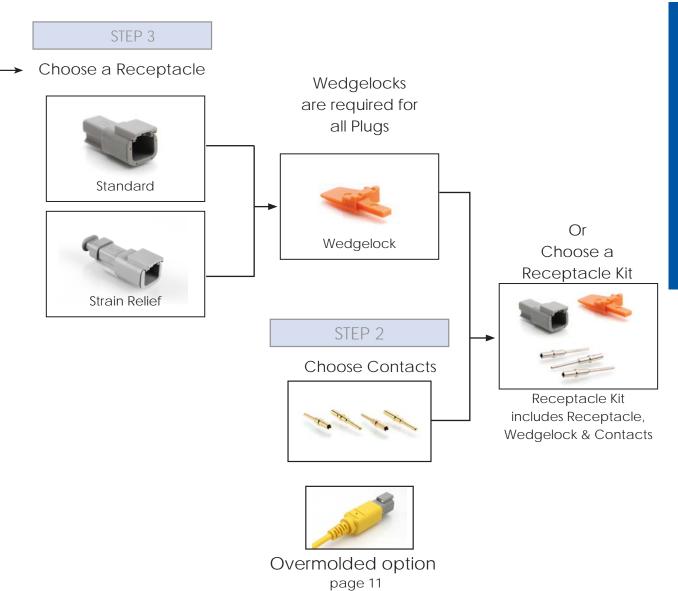
NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

ATM Series[™] Connector Configurations



Need a complete Cable Assembly?

See page 11 or contact the factory for assistance Toll Free: 1-800-394-7732



Or Choose a Plug & Receptacle Kit



Plug & Receptacle Kit includes Plug, Receptacle, Wedgelock & Contacts



ATM SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description		Wedgelock	Part Number	Description
	ATM06-2S	Plug, 2-Way			AWM-2S	Wedgelock Plug, 2-Way
	ATM06-2S- KIT01	2 Socket Plug, Wedge and Contacts Kit				s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-2P	Receptacle, 2-Way		AWM-2P	Wedgelock Receptacle, 2-Way
	ATM04-2P- KIT01	2 Pin Receptacle, Wedge and Contacts Kit		cts Kit	

Plug & Receptacle Kit	Part Number	Description
	ATM2PS-CKIT	2-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options:

Strain Relief Series see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all plugs.



ATM SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS



Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description	Wedgelock	Part Number	Description	
A COLOR	ATM06-3S	Plug, 3-Way		AWM-3S	Wedgelock Plug, 3-Way	
	ATM06-3S- KIT01	3 Socket Plug, Wedge and Contacts Kit				

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATM04-3P	Receptacle, 3-Way			AWM-3P	Wedgelock Receptacle, 3-Way
	ATM04-3P- KIT01	3 Pin Receptacle, Wedge and Contacts Kit				cts Kit

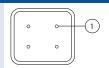
Plug & Receptacle Kit Part Number		Description
	ATM3PS-CKIT	3-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options:

Strain Relief Series: see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all receptacles.

ATM 4 POSITIONS 7.5A



ATM SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description		Wedgelock	Part Number	Description
	ATM06-4S	Plug, 4-Way			AWM-4S	Wedgelock Plug, 4-Way
	ATM06-4S- KIT01		4	Socket Plug, Wedge	and Contacts	s Kit

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATM04-4P	Receptacle, 4-Way		The state of the s	AWM-4P	Wedgelock Receptacle, 4-Way
	ATM04-4P- KIT01	4 Pin Receptacle, Wedge and Contacts Kit				cts Kit

Plug & Receptacle Kit	Part Number	Description
	ATM4PS-CKIT	4-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options: Strain Relief Series: page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all plugs.



ATM SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS





Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description	Wedgelock	Part Number	Description
	ATM06-6S	Plug, 6-Way		AWM-6S	Wedgelock Plug, 6-Way
	ATM06-6S- KIT01	6 Socket Plug, Wedge and Contacts Kit			

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATM04-6P	Receptacle, 6-Way			AWM-6P	Wedgelock Receptacle, 6-Way
	ATM04-6P- KIT01	6 Pin Receptacle, Wedge and Contacts Kit				cts Kit

Plug & Receptacle Kit	Part Number	Description
	ATM6PS-CKIT	6-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options:

Strain Relief Series: see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all receptacles.





ATM SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

Description

Wedgelock

Plug, 8-Way

Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description		Wedgelock	Part Number	
	ATM06-08SA	Plug, 8-Way, A Position*			AWM-8S	W Pl
	ATM06-08SA-KT01		8	Socket Plug, Wedge	and Contacts	Kit

The same					
Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-08PA	Receptacle, 8-Way, A Position*		AWM-8P	Wedgelock Receptacle, 8-Way
	ATM04-08PA-KT01	8-Way Pin Receptacle, Wedge and Contacts Kit			

Plug & Receptacle Kit	Part Number	Description
	ATM8PS-CKIT	8-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options:

Strain Relief Series see page 34 Shrink Boot Adaptor: see page 34 Additional Colors: see page 23 Contacts on page 38

Tools on page 39

*Alternate keying postions available (B,C,D): see page 31

NOTE: Wedgelocks are required for all plugs.



ATM SERIES ALTERNATE POSITION O O O O O PLUGS, RECEPTACLES & WEDGELOCKS





Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description
	ATM06-08SB	Plug, 8-Way, B Position, Black
	ATM06-08SC	Plug, 8-Way, C Position, Green
	ATM06-08SD	Plug, 8-Way, D Position, Brown

Wedgelock	Part Number	Description
	AWM-8S	Wedgelock Plug, 8-Way

Receptacle	Part Number	Description
	ATM04-08PB	Receptacle, 8-Way, B Position, Black
The second second	ATM04-08PC	Receptacle, 8-Way, C Position, Green
	ATM04-08PD	Receptacle, 8-Way, D Position, Brown

Wedgelock	Part Number	Description
	AWM-8P	Wedgelock Receptacle, 8-Way

Other Available Options: Strain Relief Series see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all plugs.

ATM 12 POSITIONS 7.5A



Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description	Wedgelock	Part Number	Description
	ATM06-12SA	Plug, 12-Way, A Position*		AWM-12S	Wedgelock Plug, 12-Way
	ATM06-12SA-KT01	12-Way Socket Plug, Wedge and Contacts Kit		acts Kit	

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-12PA	Receptacle, 12-Way, A Position*	THE	AWM-12P	Wedgelock Receptacle, 12-Way
1860	ATM04-12PA-KT01	12 -Way Receptacle, Wedge and Contacts Kit		acts Kit	

Plug & Receptacle Kit	Part Number	Description
	ATM12PS-CKIT	12-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

Other Available Options:

Strain Relief Series see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

*Alternate keying postions available (B,C,D): see page 33

NOTE: Wedgelocks are required for all receptacles.



ATM SERIES ALTERNATE POSITION PLUGS, RECEPTACLES & WEDGELOCKS



ATM 12 POSITIONS-B,C,D KEYS 7.5A

Contact Size	20
Wire Range (AWG)	20-22 AWG
Amperage	7.5

Plug	Part Number	Description
	ATM06-12SB	Plug, 12-Way, B Position, Black
	ATM06-12SC	Plug, 12-Way, C Position, Green
	ATM06-12SD	Plug, 12-Way, D Position, Brown

Wedgelock	Part Number	Description
Wedgelook .	AWM-12S	Wedgelock Plug, 12-Way

Receptacle	Part Number	Description
	ATM04-12PB	Receptacle, 12-Way, B Position, Black
	ATM04-12PC	Receptacle, 12-Way, C Position, Green
	ATM04-12PD	Receptacle, 12-Way, D Position, Brown

Wedgelock	Part Number	Description
	AWM-12P	Wedgelock Receptacle, 12-Way

Other Available Options:

Strain Relief Series see page 34 Additional Colors: see page 23 Contacts on page 38 Tools on page 39

NOTE: Wedgelocks are required for all receptacles.

ATM SERIES STANDARD PLUG STRAIN RELIEF SERIES

The ATM Strain Relief Series' specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP67 sealing performance regardless of wire bundle direction or improper installation. It is a cost-effective and highly-reliable solution for wire routing, strain relief and sealing issues common in Heavy Duty applications. It ensures a complete environmental seal and necessary strain relief on the production line and in the field.

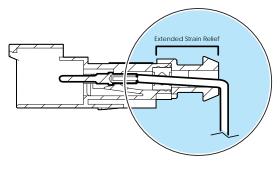
ATM-SR01 has Standard Seals

Plug	Part Number	Description		Wedgelock	Part Number	Description
Con .	ATM06-2S-SR01GY	2-Way Plug, Female Connector with Strain Relief			AWM-2S	Wedgelock Plug, 2-Way
	ATM06-3S-SR01GY	3-Way Plug, Female Connector with Strain Relief			AWM-3S	Wedgelock Plug, 3-Way
	ATM06-4S-SR01GY	4-Way Plug, Female Connector with Strain Relief			AWM-4S	Wedgelock Plug, 4-Way
	ATM06-6S-SR01GY	6-Way Plug, Female with Strain Relief		THE	AWM-6S	Wedgelock Plug, 6-Way
	ATM06-08SA-SR1GY	8-Way Plug, Female Connector with A Position Key and Strain Relief			AWM-8S	Wedgelock Plug, 8-Way
	ATM06-08SB-SR1BK	Plug, 8-Way, B Position Black, with Strain Relief				
	ATM06-08SC-SR1GN	Plug, 8-Way, C Position Green, with Strain Relief				
	ATM06-08SD-SR1BN	Plug, 8-Way, D Position Brown, with Strain Relief				

NOTE: Wedgelocks are required for all plugs.



ATM SERIES STANDARD PLUG STRAIN RELIEF SERIES



Plug	Part Number	Description
Series Series	ATM06-12SA-SR1GY	12-Way Plug, Female Connector, A Position Key with Strain Relief
	ATM06-12SB-SR1BK	Plug, 12-Way, B Position Black, with Strain Relief
	ATM06-12SC-SR1GN	Plug, 12-Way, C Position Green, with Strain Relief
	ATM06-12SD-SR1BN	Plug, 12-Way, D Position Brown, with Strain Relief

	I	I
Wedgelock	Part Number	Description
	AWM-12S	Wedgelock Plug, 8-Way

ATM SERIES STANDARD RECEPTACLE STRAIN RELIEF SERIES

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-2P-SR01GY	2-Way Receptacle, Male Connector with Strain Relief		AWM-2P	Wedgelock Receptacle, 2-Way
	ATM04-3P-SR01GY	3-Way Receptacle, Male Connector with Strain Relief		AWM-3P	Wedgelock Receptacle, 3-Way
	ATM04-4P-SR01GY	4-Way Receptacle, Male with Strain Relief		AWM-4P	Wedgelock Receptacle, 4-Way
	ATM04-6P-SR01GY	6-Way Receptacle, Male with Shrink Boot Adaptor		AWM-6P	Wedgelock Receptacle, 6-Way
	ATM04-08PA-SR1GY	8-Way Receptacle, Male Connector with A Position Key, with Strain Relief			
	ATM04-08PB-SR1BK	Receptacle, 8-Way, B Position, Black, with Strain Relief		AWM-8P	Wedgelock Receptacle,
	ATM04-08PC-SR1GN	Receptacle, 8-Way, C Position, Green, Strain Relief		7,000	8-Way
	ATM04-08PD-SR1BN	Receptacle, 8-Way, D Position, Brown, with Strain Relief			

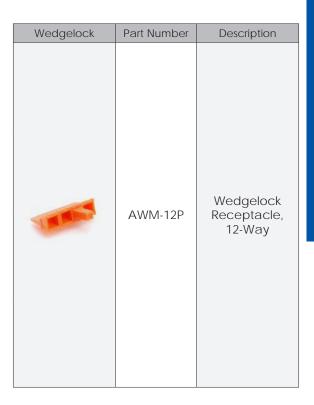
NOTE: Wedgelocks are required for all receptacles.

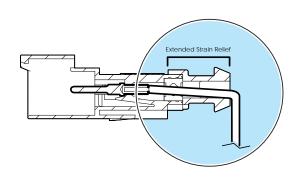


ATM SERIES STANDARD RECEPTACLE STRAIN RELIEF SERIES

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Receptacle	Part Number	Description
	ATM04-12PA-SR1GY	12-Way Receptacle, Male Connector with A Position Key with Strain Relief
	ATM04-12PB-SR1BK	Receptacle, 12-Way, B Position, Black, with Strain Relief
	ATM04-12PC-SR1GN	Receptacle, 12-Way, C Position, Green, with Strain Relief
	ATM04-12PD-SR1BN	Receptacle, 12-Way, D Position, Brown, with Strain Relief



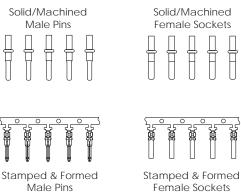


ATM SERIES CONTACTS

Contacts

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.





Standard Contacts - Solid Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
ATM	20	20-22	Solid	AT62-201-2031	Female Contact - Socket, Gold-plated
ATM	20	20-22	Solid	AT62-201-20141	Female Contact - Socket, Nickel-plated
ATM	20	20-22	Solid	AT60-202-2031	Male Contact - Pin, Gold-plated
ATM	20	20-22	Solid	AT60-202-20141	Male Contact - Pin, Nickel-plated

Standard Contacts - Stamped & Formed Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
ATM	20	16-22	S & F	AT62-20-0122	Female Contact - Socket, Nickel-plated
ATM	20	16-22	S & F	AT62-20-0144	Female Contact - Socket, Gold-plated
ATM	20	16-22	S & F	AT60-20-0122	Male Contact - Pin, Nickel-plated
ATM	20	16-22	S & F	AT60-20-0144	Male Contact - Pin, Gold-plated

Crimp Tools

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only
	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3974	Crimp Die - Size 20 (Stamped & Formed Contacts)
PROJECT AMERICA	ATT-20-00	Size 20, 20AWG, Stamped & Formed Contact Tool

AT Series™ Contact Removal Tool

Part	Part Number	Description
Amphanol ATRT4000 urent almos sum	ATRT-100	Used for removal of contacts for AT Series™ products

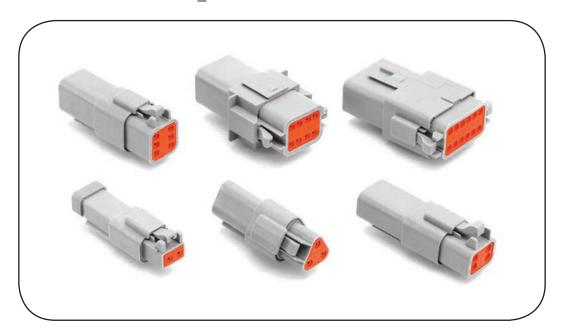
ATM SERIES ACCESSORIES

Seal Plugs



Series	Contact Size	AWG	Part No.	Description
ATM	20	20-22	AT13-204-2005	Seal Plugs, White
ATM	20	20-22	AT13-204-2005-SR	Seas Plugs, Black (For SR01 Series)

AT SeriesTM



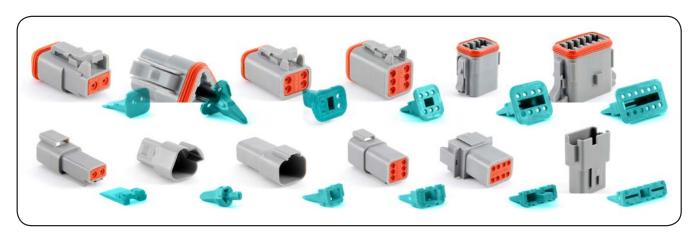
AT Series™

Overview

AT Series™ connectors are a high-performance, cost effective solution able to be used in a variety of interconnect applications: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. They contain superior environmental seals and seal retention capabilities.

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 a front and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

AT Series™ connectors are compatible with other existing standard products industry-wide.



Features & Benefits

Current Capacity Size 16, 13A (max)

Wire Range Size 16 contacts will accept wire ranges of 14 thru 20AWG Operating temperature range: -55°C to +125°C at rated current Temperature

Dielectric Value Meets or exceeds 1500 volts minimum

Shall not become detached or loosened when placed at 750mm and dropped to **Drop Test**

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 When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs. Retention

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



AT Series™

Features & Benefits, cont.

Contact Millivolt Drop Water Immersion Size 16 contacts with 16AWG conductor - 100 mV drop max at 13A test current

A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then

placed immediately in a depth of water of 1 meter for 4 hours without loss of

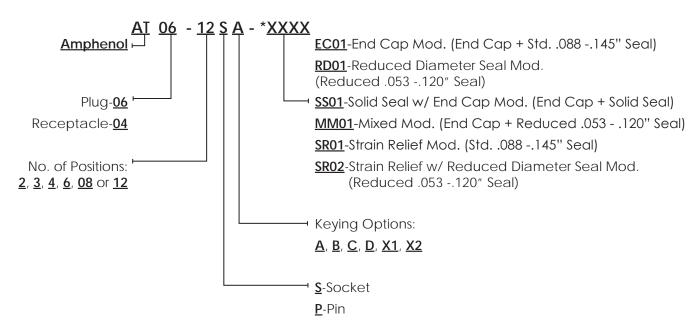
electronic performance

Product Material

Housings Thermoplastic
Seals Silicone Elastomer
Secondary Locks Thermoplastic

Contacts Copper Alloy, Nickel Plated, Gold optional

AT Series™ Part Numbering Sequence



Plug & Receptacle Body Color Modification

A wide range of standard color options are available for all A Series™ product lines. 8 and 12 position plugs and receptacles require special order. For more information, please contact a Sales Representative.

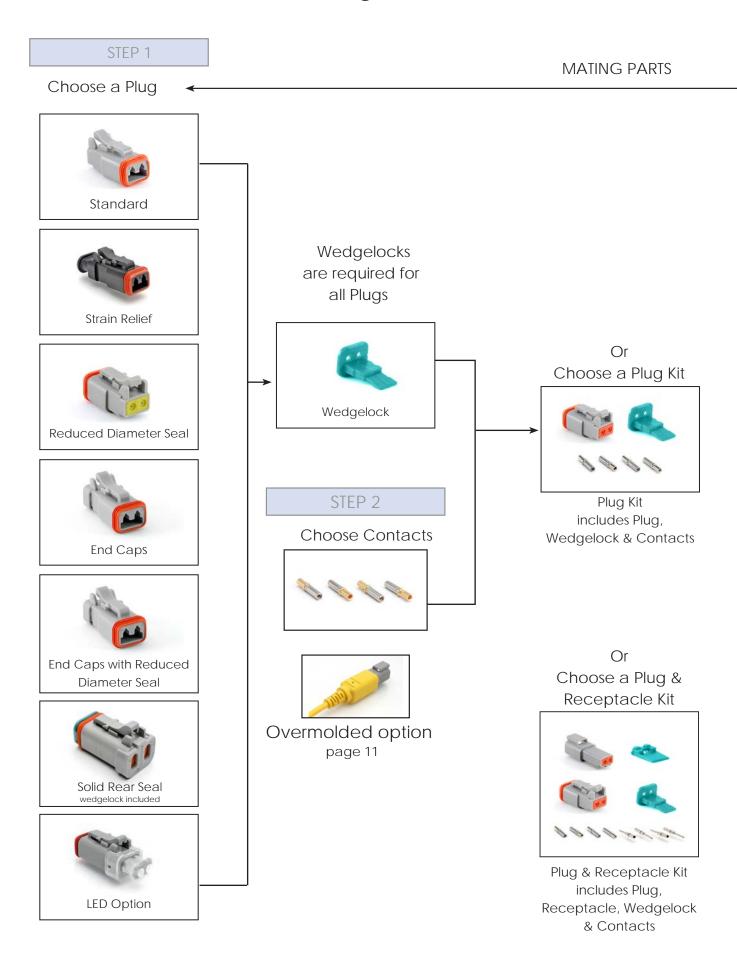
Color	Modification Number
Black	XXXX-XXXX- BLK
White	XXXX-XXXX-WHT
Brown	XXXX-XXXX-BRN
Grey	XXXX-XXXX- GRY

Color	Modification Number
Yellow	XXXX-XXXX- YEL
Green	XXXX-XXXX- GRN
Blue	XXXX-XXXX- BLU
Red	XXXX-XXXX-RED



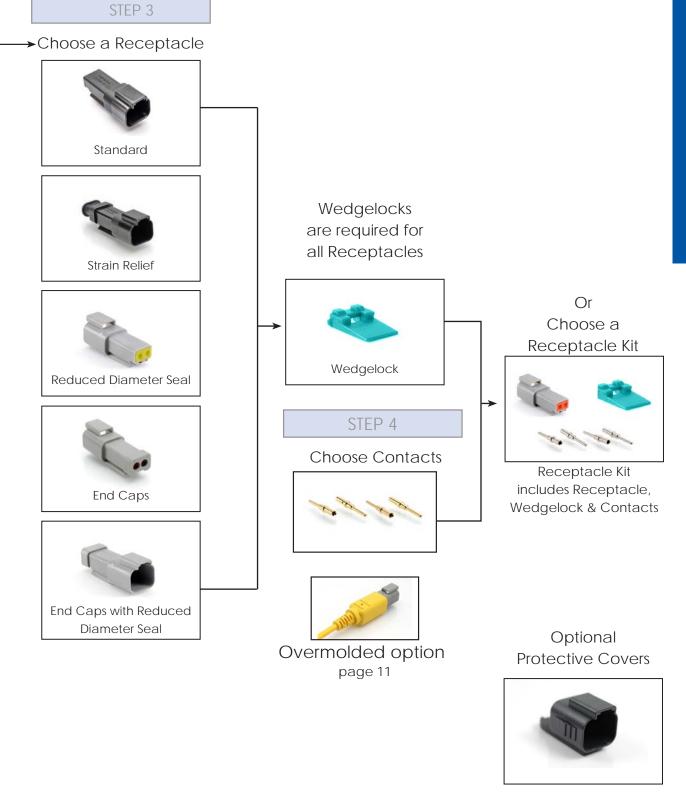
NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

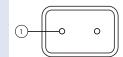
AT Series[™] Connector Configurations



Need a complete Cable Assembly?

See page 11 or contact the factory for assistance Toll Free: 1-800-394-7732





Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock
	AT06-2S	Plug, 2-Way	e.
	AT06-2S-KIT01		2 Socket Plug, Wed

	Wedgelock	Part Number	Description
	8	AW2S	Wedgelock Plug, 2-Way
2	Socket Plug, Wedge	and Contacts	s Kit

Receptacle	Part Number	Description	Wedg
	AT04-2P	Receptacle, 2-Way	•
See See	AT04-2P-KIT01	2 Pir	n Receptac

Wedgelock	Part Number	Description		
	AW2P	Wedgelock Receptacle, 2-Way		
Receptacle, Wedge and Contacts Kit				

Plug & Receptacle Kit	Part Number	Description
	AT2PS-CKIT	2-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all plugs.

Other Available Options:

Strain Relief Series see page 56

Reduced Diameter Seal: see page 58

Endcaps: see page 62

Endcaps + Reduced Diameter Seal: see page 64

Protective Cover: see page 70

LED: see page 68

Terminating Resistors and Diodes: see page 73

Additional Colors: see page 43 Contacts sold separately on page 83

Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO BOARD CONNECTORS see page 77







Description

Wedgelock

Plug, 3-Way



Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock	Part Number	С
	AT06-3S	Plug, 3-Way	Wodgolook	AW3S	W Pl
	AT06-3S-KIT01	;	3 Socket Plug, Wedge	and Contacts	. Kit

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	AT04-3P	Receptacle, 3-Way		%	AW3P	Wedgelock Receptacle, 3-Way
No de la	AT04-3P-KIT01	3 Pir	n R	Receptacle, Wedç	ge and Conta	cts Kit

Plug & Receptacle Kit	Part Number	Description
	AT3PS-CKIT	3-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all receptacles.

Other Available Options:

Strain Relief Series see page 56

Reduced Diameter Seal: see page 58

Endcaps: see page 62

Endcaps + Reduced Diameter Seal: see page 64

Solid Rear Seal: see page 66 Protective Covers: see page 70 Terminating Resistor: see page 73 J-1939 Modifications: see page 71 Additional Colors: see page 43

Contacts on page 83 Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO **BOARD CONNECTORS** see page 77





Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock	Part Number	Е
	AT06-4S	Plug, 4-Way		AW4S	W PI
	AT06-4S-KIT01		4 Socket Plug, Wedge	and Contacts	s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-4P	Receptacle, 4-Way		AW4P	Wedgelock Receptacle, 4-Way
The first	AT04-4P-KIT01	4 Pin	Receptacle, Wedç	ge and Conta	cts Kit

Plug & Receptacle Kit	Part Number	Description
	AT4PS-CKIT	4-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all plugs.

Other Available Options:

Strain Relief Series see page 56 Reduced Diameter Seal: see page 58

Endcaps: see page 62

Endcaps + Reduced Diameter Seal: see page 64

Solid Rear Seal: see page 66 Protective Cover: see page 70 Additional Colors: see page 43

Contacts sold separately on page 83

Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO **BOARD CONNECTORS** see page 77

Description

Wedgelock Plug, 4-Way







Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock	Part Number	Description
	AT06-6S	Plug, 6-Way		AW6S	Wedgelock Plug, 6-Way
1000	AT06-6S-KIT01	6 Socket Plug, Wedge and Contacts Kit		s Kit	

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	AT04-6P	Receptacle, 6-Way			AW6P	Wedgelock Receptacle, 6-Way
10 10 10 10 10 10 10 10 10 10 10 10 10 1	ATO4-6P-KITO1	6 Pin Receptacle, Wedge and Contacts Kit		cts Kit		

Plug & Receptacle Kit	Part Number	Description
	AT6PS-CKIT	6-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all receptacles.

Other Available Options:

Strain Relief Series see page 57

Reduced Diameter Seal: see page 58

Endcaps: see page 63

Endcaps + Reduced Diameter Seal: see page 65

Solid Rear Seal: see page 66 Protective Covers: see page 70 Additional Colors: see page 43 Adapter 6 Pin to RJ45: see page 72

Contacts on page 83 Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO **BOARD CONNECTORS** see page 77





Description

Wedgelock

Plug, 8-Way

Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

					_
Plug	Part Number	Description	Wedgelock	Part Number	
	AT06-08SA	Plug, 8-Way A Position*		AW8S	
	AT06-08SA-KIT01	8 Sc	ocket Plug, Wedge an	d Contacts Kit	İ

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-08PA	Receptacle, 8-Way A Position*		AW8P	Wedgelock Receptacle, 8-Way
The Roy	AT04-08PA-KIT01	8 Pin I	Receptacle, Wedç	ge and Contac	cts Kit

Plug & Receptacle Kit Part Number		Description
	AT8PS-CKIT	8-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

^{*}Alternate keying postions available (B,C,D) see page 51

Other Available Options:

Strain Relief Series see page 56

Reduced Diameter Seal: see page 58

Endcaps: see page 62

Endcaps + Reduced Diameter Seal: see page 64

Solid Rear Seal: see page 66 Protective Cover: see page 70 Additional Colors: see page 43 Contacts sold separately on page 83

Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO **BOARD CONNECTORS** see page 77





AT SERIES 8-WAY B,C,D POSITION KEY PLUGS, RECEPTACLES & WEDGELOCKS

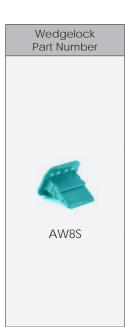




Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

STANDARD CONNECTORS

Plug	Part Number	Description
	AT06-08SB	Plug, 8-Way, B Position,Black
	AT06-08SC	Plug, 8-Way, C Position, Green
	AT06-08SD	Plug, 8-Way, D Position,Brown



Receptacle	Part Number	Description
	AT04-08PB	Receptacle, 8-Way,B Position, Black
	AT04-08PC	Receptacle, 8-Way, C Position, Green
	AT04-08PD	Receptacle, 8-Way, D Position, Brown



Other Available Options: Reduced Diameter Seal page 58 Contacts on page 83

Tools on page 85



AT BOARD | LOCK FLANGELESS WIRE TO BOARD CONNECTORS see page 77





Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock	Part Number	Description
	AT06-12SA	Plug, 12-Way A Position*		AW12S	Wedgelock Plug, 12-Way
	AT06-12SA- KIT01	1	2 Socket Plug, Wedge	and Contact	s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-12PA	Receptacle, 12-Way A Position*		AW12P	Wedgelock Receptacle, 12-Way
18 18 18 18 18 18 18 18 18 18 18 18 18 1	AT04-12PA- KIT01	12 Pin Receptacle, Wedge		ge and Conta	acts Kit

Plug & Receptacle Kit	Part Number	Description
	AT12PS-CKIT	12-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

^{*}Alternate keying postions available (B,C,D) see page 53

NOTE: Wedgelocks are required for all receptacles.

Other Available Options:

Strain Relief Series see page 57

Reduced Diameter Seal: see page 58

Endcaps: see page 63

Endcaps + Reduced Diameter Seal: see page 65

Solid Rear Seal: see page 66 Protective Covers: see page 70 Additional Colors: see page 43 Adapter 12 Pin to RJ45: see page 72

Contacts on page 83 Tools on page 85



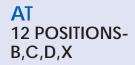
AT BOARD | LOCK FLANGELESS WIRE TO BOARD CONNECTORS see page 77





AT SERIES 12-WAY B,C, D, X POSITION KEY PLUGS, RECEPTACLES & WEDGELOCKS





Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

STANDARD CONNECTORS

Plug	Part Number	Description
	AT06-12SB	12-Way Plug, Female Connector with B Position Key, Black
	AT06-12SC	12-Way Plug, Female Connector with C Position Key, Green
	AT06-12SD	12-Way Plug, Female Connector with D Position Key, Brown
SSE	AT06-12SX1	12-Way Plug, Female Connector, X1 Position Key
	AT06-12SX2	12-Way Plug, Female Connector, X2 Position Key

Wedgelock Part Number
AW12S

Receptacle	Part Number	Description
	AT04-12PB	12-Way Receptacle, Male Connector with B Position Key and Extended Shroud, Black
	AT04-12PC	12-Way Receptacle, Male Connector with C Position Key and Extended Shroud, Green
	AT04-12PD	12-Way Receptacle, Male Connector with D Position Key, Extended Shroud, Brown



Other Available Options: Reduced Diameter Seal: see page 58 Contacts on page 83 Tools on page 85

AT BOARD | LOCK FLANGELES'S WIRE TO BOARD CONNECTORS see page 77







AT SERIES 13-WAY STANDARD PLUGS & RECEPTACLES

Contact Size	16 &12
Wire Range (AWG)	14-20 AWG/ 10-14 AWG
Amperage	13, 25

MIXED CONNECTORS - POWER & SIGNAL

Plug	Part Number	Description
	AT1612-13SB	13-Way Plug, Female Connector with B Position Key, Black (Wedgelock not required)

Receptacle	Part Number	Description
	AT1612-13PB	13-Way Receptacle, Male Connector with B Position Key, No Gasket, Black (Wedgelock not required)
	AT1612-13PB-G	13-Way Receptacle, Pin, Panel Mount, Self-Threading, Standard Seal, Cap, Keyed B. (Wedgelock not required)
	AT1612-13PBNF13	13-Way 90° Receptacle, Pin, Keyed B, PCB Mount (Wedgelock not required, contacts included)

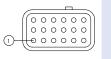
REDUCED DIAMETER SEAL (.053" - .120")

Plug	Part Number	Description			
	AT1612-13SB-RD	13-Way Plug, Female Connector with B Position Key and Reduced Diameter Seal (E-Seal), Black (Wedgelock not required)			

Receptacle	Part Number	Description
	AT1612-13PB-RD	13-Way Panel Mount Receptacle, Key Position B, No Gasket, Reduced Diameter Seal (E-Seal). Black. (Wedgelock not required)
	AT1612-13PB-RDG	13-Way, Flange Mount Receptacle, Gasket, Reduced Diameter Seal (E-Seal), Black. (Wedgelock not required)

Contacts on pages 83,101 Tools on page 85 Gasket on page 84

AT SERIES 18-WAY STANDARD PLUG





Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

STANDARD CONNECTORS

Plug	Part Number	Description
Tiiii	AT16-18SB-K004	18-Way Plug with Wedgelock and End Cap Included

Contacts on page 83 Tools on page 85

AT SERIES PLUG STRAIN RELIEF SERIES

The AT Strain Relief Series' specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP67 sealing performance regardless of wire bundle direction or improper installation. It is a cost-effective and highly-reliable solution for wire routing, strain relief and sealing issues common in Heavy Duty applications. It ensures a complete environmental seal and necessary strain relief on the production line and in the field.

AT-SR01 has Standard Seals (.088 - .145") AT-SR02 has Reduced Diameter Seals (.053 - .120" seals)

Plug	Face View	Part Number	Description
		AT06-2S-SR01BLK	Plug, 2-Way, Standard Seal
100		AT06-2S-SR02BLK	Plug, 2-Way, Reduced Seal .053120"
	A (O)	AT06-3S-SR01BLK	Plug, 3-Way, Standard Seal
		AT06-3S-SR02BLK	Plug, 3-Way, Reduced Seal .053120"
	0 0	ATO6-4S-SR01BLK	Plug, 4-Way, Standard Seal
		AT06-4S-SR02BLK	Plug, 4-Way, Reduced Seal .053120"
The state of the s	0 0	AT06-6S-SR01BLK	Plug, 6-Way, Standard Seal
		AT06-6S-SR02BLK	Plug, 6-Way, Reduced Seal .053120"
	(0000)	AT06-08SA-SRGRY	Plug, 8-Way, Position A, Standard Seal
	1 0000	AT06-08SA-SR2GY	Plug, 8-Way, Pos. A, Reduced Seal .053120"
	(00000)	AT06-12SA-SRGRY	Plug, 12-Way, Pos. A, Standard Seal
	0 00000	AT06-12SA-SR2GY	Plug, 12-Way, Pos. A, Reduced Seal .053120"





Color options pertain to connector body only. (see page 43 for options.)

NOTE: Wedgelocks are required for all plugs.



The AT Strain Relief Series' specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP67 sealing performance regardless of wire bundle direction or improper installation. It is a cost-effective and highly-reliable solution for wire routing, strain relief and sealing issues common in Heavy Duty applications. It ensures a complete environmental seal and necessary strain relief on the production line and in the field.

AT-SR01 has Standard Seals (.088 - .145") AT-SR02 has Reduced Diameter Seals (.053 - .120" seals)

Receptacle	Face View	Part Number	Description
		ATO4-2P-SR01BLK	Receptacle 2-Way, Standard Seal
		ATO4-2P-SRO2BLK	Receptacle 2-Way, Reduced Seal .053120
	(° 9)—(A)	AT04-3P-SR01BLK	Receptacle 3-Way, Standard Seal
		ATO4-3P-SRO2BLK	Receptacle 3-Way, Reduced Seal .053120
	° ° ° ()	ATO4-4P-SR01BLK	Receptacle 4-Way, Standard Seal
		AT04-4P-SR02BLK	Receptacle 4-Way, Reduced Seal .053120
		ATO4-6P-SR01BLK	Receptacle 6-Way, Standard Seal
		ATO4-6P-SRO2BLK	Receptacle 6-Way, Reduced Seal .053120
		AT04-08PA-SRGRY	Receptacle 8-Way, Pos. A, Standard Seal
		AT04-08PA-SR2GY	Receptacle 8-Way, Pos. A, Reduced Seal .053120
	000000	AT04-12PA-SRGRY	Receptacle 12-Way, Pos. A, Standard Seal
1		AT04-12PA-SR2GY	Receptacle 12-Way, Pos. A, Reduced Seal .053120





Color options pertain to connector body only. (see page 43 for options.)

NOTE: Wedgelocks are required for all receptacles.

AT SERIES PLUG REDUCED DIAMETER SEAL PLUGS

Reduced Diameter Seals (.053 - .120" seals)

Plug	Face View	Part Number	Description	Wedgelock Part Number
		AT06-2S-RD01	2-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	
		AT06-2S-RD01BLK	2-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW2S
	(A	AT06-3S-RD01	3-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	
		AT06-3S-RD01BLK	3-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW3S
	0 0	AT06-4S-RD01	4-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	Wet:
	0 0	AT06-4S-RD01BLK	4-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW4S
	0 0 0	AT06-6S-RD01	6-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	223
	0 0	AT06-6S-RD01BLK	6-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW6S
	1 0000	AT06-08SA-RD01	8-Way Plug, Female Connector with A Position Key, Reduced Diameter Seals (E-Seal)	
	1 0000	AT06-08SB-RD01	8-Way Plug, Female Connector with B Position Key and Reduced Diameter Seal (E-Seal), Black	22.22
	1 0000	AT06-08SC-RD01	8-Way Plug, Female Connector with C Position Key and Reduced Diameter Seal (E-Seal), Green	AW8S
	1 0000	AT06-08SD-RD01	8-Way Plug, Female Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown	

NOTE: Wedgelocks are required for all plugs.



AT SERIES PLUG REDUCED DIAMETER SEAL PLUGS

Reduced Diameter Seals (.053 - .120" seals)

Plug	Face View	Part Number	Description
	000000	AT06-12SA-RD01	12-Way Plug, Female Connector with A Position Key and Reduced Diameter Seal (E-Seal)
		AT06-12SB-RD01	12-Way Plug, Female Connector with B Position Key and Reduced Diameter Seal (E-Seal), Black
SST	00000	AT06-12SC-RD01	12-Way Plug, Female Connector with C Position Key and Reduced Diameter Seal (E-Seal), Green
	00000	AT06-12SD-RD01	12-Way Plug, Female Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown



AT SERIES RECEPTACLE REDUCED DIAMETER SEAL

Reduced Diameter Seals (.053 - .120" seals)

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
		AT04-2P-RD01	2-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
		ATO4-2P-RD01BLK	2-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW2P
10		AT04-3P-RD01	3-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
		ATO4-3P-RD01BLK	3-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW3P
		AT04-4P-RD01	4-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
	0 0	ATO4-4P-RD01BLK	4-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW4P
		AT04-6P-RD01	6-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
		ATO4-6P-RD01BLK	6-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW6P
		AT04-08PA-RD01	8-Way Receptacle, Male Connector with A Position Key, Reduced Diameter Seal (E-Seal)	
9		AT04-08PB-RD01	8-Way Receptacle, Male Connector with B Position Key and Reduced Diameter Seal (E-Seal). Black	
		AT04-08PC-RD01	8-Way Receptacle, Male Connector with C Position Key and Reduced Diameter Seal (E-Seal), Green	AW8P
		AT04-08PD-RD01	8-Way Receptacle, Male Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown	

NOTE: Wedgelocks are required for all receptacles



AT SERIES RECEPTACLE REDUCED DIAMETER SEAL

AT REDUCED DIA. SEALS 13A

Reduced Diameter Seals (.053 - .120" seals)

Receptacle	Face View	Part Number	Description
		AT04-12PA-RD01	12-Way Receptacle, Male Connector with A Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal)
	0 0 0 0 0 0 0	AT04-12PB-RD01	12-Way Receptacle, Male Connector with B Position Key and Reduced Diameter Seal (E-Seal). Black
	000000	AT04-12PC-RD01	12-Way Receptacle, Male Connector with C Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal), Green
		AT04-12PD-RD01	12-Way Receptacle, Male Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown



AT SERIES PLUG END CAPS

Modifications: Endcap over standard rear seal (.088 - .145")

Plug	Faceview	Part Number	Description	Wedgelock Part Number
C. Common of the		AT06-2S-EC01	2-Way Plug, Female Connector with End Cap	6. 0.
		AT06-2S-EC01BLK	2-Way Plug, Black Female Connector with End Cap, Black	AW2S
	A O	AT06-3S-EC01	3-Way Plug, Female Connector with End Cap	
		AT06-3S-EC01BLK	3-Way Plug, Black Female Connector with End Cap, Black	AW3S
		AT06-4S-EC01	4-Way Plug, Female Connector with End Cap	Wet!
	0 0	AT06-4S-EC01BLK	4-Way Plug, Black Female Connector with End Cap	AW4S
	0 0	AT06-6S-EC01	6-Way Plug, Female Connector with End Cap	200
		AT06-6S-EC01BLK	6-Way Plug, Black Female Connector with End Cap	AW6S
	1 0000	AT06-08SA-EC01	8-Way Plug, Female Connector with A Position Key and End Cap	AW8S
	00000	AT06-12SA-EC01	12-Way Plug, Female Connector with A Position Key and End Cap	AW12S

NOTE: Wedgelocks are required for all plugs.

Modifications: Endcap over standard rear seal (.088 - .145")

Receptacle	Faceview	Part Number	Description	Wedgelock Part Number
		AT04-2P-EC01	2-Way Receptacle, Male Connector with End Cap	
		AT04-2P-EC01BLK	2-Way Receptacle, Black Male Connector with End Cap, Black	AW2P
	(O O) (A)	AT04-3P-EC01	3-Way Receptacle, Male Connector with End Cap	
		AT04-3P-EC01BLK	3-Way Receptacle, Male Connector with End Cap, Black	AW3P
	0 0 0	AT04-4P-EC01	4-Way Receptacle, Male Connector with End Cap	
		AT04-4P-EC01BLK	4-Way Receptacle, Black Male Connector with End Cap, Black	AW4P
O	0 0 0	AT04-6P-EC01	6-Way Receptacle, Male Connector with End Cap	-025
		AT04-6P-EC01BLK	6-Way Receptacle, Black Male Connector with End Cap, Black	AW6P
		AT04-08PA-EC01	8-Way Receptacle, Male Connector with A Position Key and End Cap	AW8P
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AT04-12PA-EC01	12-Way Receptacle, Male Connector with A Position Key and Extended Shroud and End Cap	AW12P

NOTE: Wedgelocks are required for all receptacles.

AT SERIES PLUG END CAP + REDUCED DIAMETER SEAL

Mixed modifications: Endcap plus reduced diameter seal (.053-.120")

Plug	Face View	Part Number	Description	Wedgelock Part Number
		AT06-2S-MM01	2-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		AT06-2S-MM01BLK	2-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and Enhanced Seal Retention (P012) and End Cap	AW2S
	<u> </u>	AT06-3S-MM01	3-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		AT06-3S-MM01BLK	3-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW3S
	0 0	AT06-4S-MM01	4-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	No.
		AT06-4S-MM01BLK	4-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW4S
	0 0 0	AT06-6S-MM01	6-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	223
		AT06-6S-MM01BLK	6-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW6S
	1 0000	AT06-08SA-MM01	8-Way Plug, Female Connector with A Position Key, Reduced Diameter Seals (E-Seal) and End Cap	20.00
S		AT06-08SA-MMBLK	8-Way Plug, Black Female Connector with A Position Key, Reduced Diameter Seals (E-Seal) and End Cap	AW8S
	00000	AT06-12SA-MM01	12-Way Plug, Female Connector with A Position Key and Reduced Diameter Seal (E-Seal) and End Cap	
THE WAY		AT06-12SA-MM01BLK	12-Way Plug, Black Female Connector with A Position Key and Reduced Diameter Seal (E-Seal) and Enhanced Seal Retention(P012) and End Cap	AW12S
		AT1612-13SB-RD	13 Position Plug, Reduced Diameter Seal, End Cap	not required

AT SERIES RECEPTACLE END CAP + REDUCED DIAMETER SEAL

AT END CAPS + REDUCED DIA. SEAL 13A

Mixed modifications: Endcap plus reduced diameter seal (.053-.120")

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
	0 0	AT04-2P-MM01	2-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		AT04-2P-MM01BLK	2-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW2P
	(°)) ()	AT04-3P-MM01	3-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		ATO4-3P-MM01BLK	3-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)and End Cap	AW3P
		AT04-4P-MM01	4-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		ATO4-4P-MM01BLK	4-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW4P
		AT04-6P-MM01	6-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		AT04-6P-MM01BLK	6-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW6P
		AT04-08PA-MM01	8-Way Receptacle, Male Connector with A Position Key, Reduced Diameter Seal (E-Seal) and End Cap	
		ATO4-08PA-MMBLK	8-Way Receptacle, Black Male Connector with A Position Key, Reduced Diameter Seal (E-Seal) and End Cap	AW8P
		AT04-12PA-MM01	12-Way Receptacle, Male Connector with A Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal) and End CAP	
		ATO4-12PA-MMBLK	12-Way Receptacle, Black Male Connector with A Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal) and End Cap	AW12P

NOTE: Wedgelocks are required for all receptacles



SOLID REAR SEAL AT SERIES PLUGS SOLID REAR SEAL

Modification: Solid Rear Seal + End cap for maintaing an environmental seal with unmated connectors

Plugs	Face View	Part Number	Description	Wedgelock
	0 0	AT06-2S-SS01	2-Way Plug, Female Connector Grommet. Wedgelock in	
	0-00	AT06-3S-SS01	3-Way Plug, Female Connector Grommet. Wedgelock in	
Con	0 0	AT06-4S-SS01	4-Way Plug, Female Connector Grommet. Wedgelock in	
	0 0 0	AT06-6S-SS01	6-Way Plug, Female Connector Grommet. Wedgelock in	
	0000	AT06-08SA-SS01	8-Way Plug, Female Connector wi and Solid Rear Grommet. Wedg	
	00000	AT06-12SA-SS01	12-Way Plug, Female Connector w and Solid Rear Grommet. Wedg	

AT SERIES RECEPTACLES SOLID REAR SEAL



Modification: Solid Rear Seal + End cap for maintaing an environmental seal with unmated connectors

Receptacles	Face View	Part Number	Description
	0 0	AT04-2P-SS01	2-Way Receptacle, Male Connector with Solid Rear Grommet
1000	0 0	AT04-3P-SS01	3-Way Receptacle, Male Connector with Solid Rear Grommet
	0 0 0	AT04-4P-SS01	4-Way Receptacle, Male Connector with Solid Rear Grommet
	0 0 0	AT04-6P-SS01	6-Way Receptacle, Male Connector with Solid Rear Grommet
	0000	AT04-08PA-SS01	8-Way Receptacle, Male Connector with A Position Key and Solid Rear Grommet
		AT04-12PA-SS01	12-Way Receptacle, Male Connector with A Position Key and Extended Shroud and Solid Rear Grommet



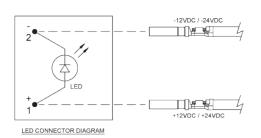
Designed for electromechanical applications where a visible LED light is integrated into a 2 position plug allowing the user to determine the device is receiving power. Environmentally sealed, field serviceable and cost effective while reducing costly trouble shooting time. 12V and 24V versions available.

12 VOLT				
Part	Part Number	Description	Wedgelock	
	AT06-2S-LED1201	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)		
	AT06-2S-LED1202	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, Reduced Seal, SR01, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)		
Contraction	AT06-2S-LED1220	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, SR01, RED LED (Requires Wedgelock P/N: AW2S-LED)	AWS2S-LED	
Con	AT06-2S-LED1230	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, SR01, GREEN LED (Requires Wedgelock P/N: AW2S-LED)		
	AT06-2S-LED12K1	2-Way LED Plug Kit, 12V, Contacts and Wedge iclud endcap, CLEAR LED	ed, Grey, Clear	
	AT06-2S-LED12K2	2-Way LED Plug Kit, 12V, Contacts and Wedge icluded, Reduced Seal, Grey, Clear endcap, CLEAR LED		

Connector Body Colors:

Gray 12V Black 24V

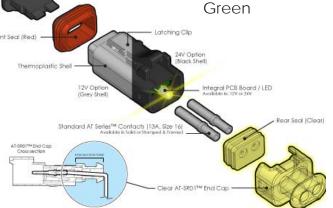




LED Color Options:

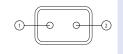
Clear Red

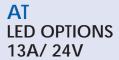






AT SERIES PLUG © 24 VOLT LED OPTIONS





Features & Benefits

- Integral PCB Board/LED, Front and Rear Seals, and AT-SR01 End Cap Strain Reliefs come factory assembled on the Plug.
- Simply crimp the contact style of your choice...Insert...Snap the wedgelock into place.
- NO ADDITIONAL ASSEMBLY REQUIRED

24 VOLT				
Part	Part Number	Description	Wedgelock	
Ca	AT06-2S-LED2401	2-Way, Plug, LED, 24V, Clear Endcap, Black Body, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)		
	AT06-2S-LED2402	2-Way, Plug, LED, 24V, Clear Endcap, Reduced Seal, Black Body, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)	400	
	AT06-2S-LED2420	2-Way, Plug, LED, 24V, Clear endcap, Grey Body, SR01, RED LED (Requires Wedgelock P/N: AW2S-LED)	AWS2S-LED	
	AT06-2S-LED2430	2-Way, Plug, LED, 24V, Clear endcap, Black Body, SR01, GREEN LED (Requires Wedgelock P/N: AW2S-LED)		
	AT06-2S-LED24K1	2-Way LED Plug Kit, 24V, Contacts and Wedge iclud endcap, CLEAR LED	ed, Black, Clear	
	AT06-2S-LED24K2	2-Way LED Plug Kit, 24V, Contacts and Wedge icluded, Reduced Seal, Black, Clear endcap, CLEAR LED		

Solenoids | Valves | Sensors | Manifolds Coils | Diagnostics | Electronic Controls

- Field Serviceable Cost-effective
- Quick diagnosis reduces troubleshooting time
- Environmentally-sealed for harsh environments
- Plug and Play assembled the same as a standard connector



^{*}Certain chosen devices must be diode-protected

AT SERIES RECEPTACLE PROTECTIVE COVERS

Part	Face View	Part Number	Description
		AT06-2S-CAP	2-way Protective Cover for Plug, Black
2.111		AT06-3S-CAP	3-way Protective Cover for Plug, Black
		AT06-4S-CAP	4-way Protective Cover for Plug, Black
FI		AT06-6S-CAP	6-way Protective Cover for Plug, Black
		AT06-08S-CAP	8-way, All Keys Protective Cover for Plug, Black
		AT06-12S-CAP	12-way, All Keys Protective Cover for Plug, Black



Mounting Hole provided on all sizes. Please go to www.amphenol-sine.com and search by part number to view datasheets.

AT SERIES RECEPTACLE J-1939 MODIFICATIONS

J-1939 Modifications - Plug, Receptacles & Wedgelocks

AT Series™ J-1939/11, 3-Pin connectors offer a high performance, reliable and cost effective solution for the SAE 3 position CAN Network requirements. This series is designed to be completely compatible with existing industry standard J1939/11 connectors and provides a complete line of connectors including Y receptacles, network terminations with 120 ohm resistors, and keyed wedgelocks to prevent mis-mating. Additionally, the AT Series offers the –SR01 Strain Relief series in both 3 way receptacles and plugs for critical J1939 in-line connections requiring increased environmental protection and strain relief.

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
60		AT04-3P-RY01	"Y" Receptacle, 3-Way, Grey *Wedgelock included	
		AT04-3P- RJ120BK	Receptacle, 3-Way, J-1939,120 Ohm, Terminating Resistor, Black, *Wedgelock Included	AW3P-1939
		AT04-3P-RJ120	Recep., 3-Way, J-1939, 120 Ohm, Terminating Resistor, Grey, *Wedgelock Included	Wedgelock, 3-Way, J-1939, Blue
Plug	Face View	Part Number	Description	Wedgelock Part Number
E B		AT06-3S-SR- 01BLK	Plug, 3-Way, Strain Relief, Black	AW3S-1939 Wedgelock,Plug, 3-Way, J-1939, Blue AW3S Wedgelock, Plug, 3-Way
S (iii)		AT06-3S-RJ120	Plug, 3-Way, J-1939, 120 Ohr (Blue wedgelod	
		AT06-3S-RJL120	Plug, 3-Way, J-1939, 120 Ohm Re Guard (Blue wedg	

AT SERIES PLUG ADAPTER 6/12 PIN TO RJ45

Adapter, 6/12 Pin to RJ45

AT Series[™] 6 Pin to RJ45 Adapters are developed to provide a direct connection between industry standard 6 position connectors and 8 position ethernet RJ45 connections.

Part	Face View	Part Number	Description
	XXXXXX)	D00007 VV	AT Series™ 6-Way Receptacle to RJ45 8-Way Receptacle
	TXXXXXX I	P30307-XX	AT Series™ 12-Way Receptacle to RJ45 8-Way Receptacle
	NA	ATRJ8-FSSR	RJ Plug, Sealed Strain Relief, Field Installable/ Serviceable Assembly, 13/16-28 Thread Receptacles (RJ plug not included)

AT SERIES ELECTRONIC PACKAGING



TERMINATING RESISTORS AND DIODES

AT Series™ connectors are available with custom resistor values to meet specific application requirements. Consult Sales Representative for resistor, diode and other electronic packaging solutions.

Part	Face View	Part Number	Туре	Description
8	0 0	AT04-2P-R120YEL	Resistor	2-Way, Receptacle, 120 Ohm Resistor, NI Pins, Wedgelock, Yellow
-	· • •	AT04-2P-THM10K	Thermistor	2-Way, Receptacle, 10K Ohm Thermistor, NI Pins, Wedgelock, Red
	· • •	AT04-2P-DIN4GRY	Diode	2-Way, Receptacle, Diode, 1N4004, NI Pins, Wedgelock, Gray
		AT04-3P-RJ120BK	Resistor	3-Way, Receptacle, J1939-11,120 Ohm Resistor, Gold Pins, Blue Wedgelock, Black
		AT04-3P-RJ120	Resistor	3-Way, Receptacle, J1939-11, 120 Ohm Resistor, Gold Pins, Blue Wedgelock, Gray
	· • • • • • • • • • • • • • • • • • • •	AT04-4P-R1K2K	Resistor	4-Way, Receptacle, 1.2K & 2.7K Ohm Resistor, NI Pins, Wedgelock, Gray
	· · · · · · · ·	AT04-6P-R120BL	Resistor	6-Way, Receptacle, 6 Gang Buss w/ 120 Ohm Resistor, Gold Pins, Wedgelock, Blue
Part	Face View	Part Number	Туре	Description

Part	Face View	Part Number	Туре	Description
Co	0 0	AT06-2S-R120YEL	Resistor	2-Way, Plug, 120 Ohm Resistor, NI Sockets, Standard Wedgelock, Yellow
		AT06-3S-RJ120BK	Resistor	3-Way, Plug, J1939-11, 120 Ohm Resistor, Gold Sockets, Blue Wedgelock, Black
(a)	0	AT06-3S-RJ120	Resistor	3-Way, Plug, J-1939, 120 Ohm Resistor, End Cap, Blue Wedgelock, Grey
	0	AT06-3S-R680	Resistor	3-Way, Plug, 680 Ohm Resistor, End Cap, Standard Wedgelock, Grey NOTE: Resistor is between A and B position.



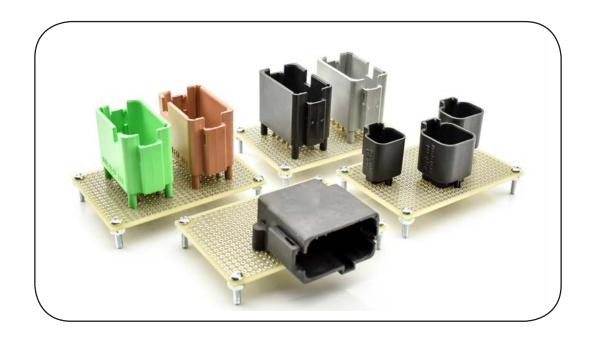
Extended Body AT Plugs Designed for Overmolding

Custom Cable Assemblies are available for any application, and carry with them the capabilities of being overmolded in any size or length necessary. We have many specialized configurations. For more information, please contact a Sales Representative at 1-800-394-7732.

Part	Face View	Part Number	Description	Wedglock
		AT06-2S-OMGRY	2-Way Custom Overmold Plug, Socket, Gray	
		AT06-2S-OMBLK	2-Way Custom Overmold Plug, Socket, Black	
		AT06-2S-OMBLU	2-Way Custom Overmold Plug, Socket, Blue	
	0 0 1	AT06-2S-OMBRN	2-Way Custom Overmold Plug, Socket, Brown	10
		AT06-2S-OMGRN	2-Way Custom Overmold Plug, Socket, Green	AW2S
		AT06-2S-OMRED	2-Way Custom Overmold Plug, Socket, Red	
		AT06-2S-OMWHT	2-Way Custom Overmold Plug, Socket, White	
		AT06-2S-OMYEL	2-Way Custom Overmold Plug, Socket, Yellow	

NOTE: These custom products are a sampling of the options available. For more options, please contact your Sales Representative.

$\textbf{Board} | \textbf{Lock}^{\text{\tiny{TM}}}$



Board | Lock™ Series

2, 3, 4, 6, 8, 12 and 13 Pos. / Size 16, 13A

13 Pos. (Mixed Power & Signal) / Size 12, 25A; Size 16, 13A



The Amphenol Board | Lock™ series combines flangeless wire-to-board versatility with the proven reliability of the A Series™ environmentally sealed thermoplastic connection system. Perfect for power or data signal applications, Board | Lock™ features a unique design which is compact, low-profile, lightweight and delivers proven durability in off-road and harsh environments. The snap-in board features allow for rapid placement and the enclosed latch-receiver design benefits potting and overmold applications. When combined with the economical A Series™ positive polarization & available coding options, mis-mating occurrences are dramatically reduced.

Our engineering teams can provide unique mixed-power & signal arrangements, 90° or straight PCB pins, or custom flange mount designs to reduce overall connector size and save space. We are committed to work with you to ensure a design that meets your needs.

Wire Range	Size 12 contacts will accept wire ranges of 12-14AWG; Size 16 contacts will accept 14-20AWG
Temperature	Operating temperature range: -55°C to +125°C at rated current
Housing/Latch	Thermoplastic/Integrated latch for mating
Dielectric Value	Meets or exceeds 1500 volts minimum
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
Water Immersion	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter without loss of electronic performance

AT Series Board | LockTM meets all the performance criteria and specifications of the AT SeriesTM, and is also available in a wide variety of custom colors. Consult factory for complete specifications.

AT SERIES BOARD | LOCK RECEPTACLES

Contact Size:	16 (Included)
Wire Range (AWG):	14-20 AWG
Amperage:	13

Go to AT Standard Connectors for Plug options starting on page 46

	Part Number	Description
	AT04-2P-BM01	2 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-2P-BM02	2 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-2P-BM03	2 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
	AT04-2P-BM04	2 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-2P-BM01	2 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
	ATF13-2P-BM02	2 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
	AT04-3P-BM01	3 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-3P-BM02	3 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-3P-BM03	3 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
	AT04-3P-BM04	3 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-3P-BM01	3 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
	ATF13-3P-BM02	3 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
	AT04-4P-BM01	4 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-4P-BM02	4 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-4P-BM03	4 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
	AT04-4P-BM04	4 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-4P-BM01	4 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
	ATF13-4P-BM02	4 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
	AT04-6P-BM01	6 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-6P-BM02	6 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-6P-BM03	6 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
0 0	AT04-6P-BM04	6 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-6P-BM01	6 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
	ATF13-6P-BM02	6 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
	AT04-08PA-BM01	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Gray
	AT04-08PA-BM02	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Gray
	AT04-08PA-BM03	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Gray
	AT04-08PA-BM04	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Gray
	ATF13-08PA-BM01	8 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Gray
	ATF13-08PA-BM02	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Gray
	AT04-08PB-BM01	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-08PB-BM02	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-08PB-BM03	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
Щ	AT04-08PB-BM04	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-08PB-BM01	8 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
	ATF13-08PB-BM02	8 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
	AT04-08PC-BM01	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Green
	AT04-08PC-BM02	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Green
	AT04-08PC-BM03	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Green
	AT04-08PC-BM04	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Green
	ATF13-08PC-BM01	8 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Green

Continued on next page



AT SERIES BOARD | LOCK RECEPTACLES

Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Go to AT Standard Connectors for Plug options starting on page 52

	AT04-08PD-BM01	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Brown
	AT04-08PD-BM02	8 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Brown
	AT04-08PD-BM03	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Brown
	AT04-08PD-BM04	8 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Brown
	ATF13-08PD-BM01	8 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Brown
	ATF13-08PD-BM02	8 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Brown
	AT04-12PA-BM01	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Gray
	AT04-12PA-BM02	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Gray
	AT04-12PA-BM03	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Gray
	AT04-12PA-BM04	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Gray
	ATF13-12PA-BM01	12 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Gray
	ATF13-12PA-BM02	12 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Gray
	AT04-12PB-BM01	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Black
	AT04-12PB-BM02	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Black
	AT04-12PB-BM03	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black
	AT04-12PB-BM04	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Black
	ATF13-12PB-BM01	12 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Black
# · · · · · · h	ATF13-12PB-BM02	12 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
H	AT04-12PC-BM01	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Green
	AT04-12PC-BM02	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Green
	AT04-12PC-BM03	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Green
	AT04-12PC-BM04	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Green
	ATF13-12PC-BM01	12 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Green
	ATF13-12PC-BM02	12 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Green
	AT04-12PD-BM01	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, No potting, Brown
	AT04-12PD-BM02	12 Pos. Recep., Pin, Gold contact plating, PCB, Board Mount, Potting, Brown
	AT04-12PD-BM03	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Brown
	AT04-12PD-BM04	12 Pos. Recep., Pin, Nickel contact plating, PCB, Board Mount, Potting, Brown
	ATF13-12PD-BM01	12 Pos. 90° Recep., Pin, Gold contact plating, PCB, Board Mount, Brown
	ATF13-12PD-BM02	12 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Brown
	AT1612-13PBNF13	13 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, No potting, Black, Keyed B. Contact sizes 12, 16

AT Panel Mate[™]



Panel | MateTM Series 2, 3, 4, 6, 8 and 12 Position / Size 16, 13A

13 Position / Size 12, 25A; Size 16, 13A















The Amphenol Panel | Mate™ series combines flange mounting options with the proven reliability of the AT/ATP Series™ environmentally-sealed thermoplastic connection system. Engineered with a onepiece sealed flange design for rapid and secure mounting, its durable high temperature silicone facial seal provides a barrier of protection from lubricating oils, hydraulic fluids and fossil fuels to withstand the challenges and complexities of harsh environment applications.

Wire Range	Size 12 contacts will accept wire ranges of 12-14AWG; Size 16 contacts will accept 14-20AWG.
Temperature	Operating temperature range: -55°C to +125°C at rated current
Housing/Latch	Thermoplastic/Integrated latch for mating
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
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
Water Immersion	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter without loss of electronic performance

AT/ATP Series Panel | Mate™ meets all the performance criteria and specifications of the AT Series™, and is also available in a wide variety of custom colors. Consult factory for complete specifications.

AT PANEL MATE SERIES RECEPTACLES

AT Panel | Mate 2-13 POSITIONS 13A

Go to AT Standard Connectors for Plug options starting on page 46

	Part Number	Description	Contact Size
	AT04-2P-PM11	2 Pos. Receptacle, Pin, Panel Mount, Self-Threading	16
	AT04-2P-PM12	2 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal	16
	AT04-2P-PM13	2 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap	16
	AT04-2P-PM14	2 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap	16
	AT04-3P-PM11	3 Pos. Receptacle, Pin, Panel Mount, Self-Threading	16
	AT04-3P-PM12	3 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal	16
	AT04-3P-PM13	3 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap	16
	AT04-3P-PM14	3 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap	16
	AT04-4P-PM11	4 Pos. Receptacle, Pin, Panel Mount, Self-Threading	16
	AT04-4P-PM12	4 Pos. Receptacle, Pin, Panel Mount, Self-Threading,, RD01 Seal	16
	AT04-4P-PM13	4 Pos. Receptacle, Pin, Panel Mount, Self-Threading,, Self-Threading, Cap	16
	AT04-4P-PM14	4 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap	16
	AT04-6P-PM05	6 Pos. Flange Mount Receptacle with Gasket, Pin, Threaded	16
	AT04-6P-PM11	6 Pos. Receptacle, Pin, Panel Mount, Self-Threading	16
	AT04-6P-PM12	6 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal	16
	AT04-6P-PM13	6 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap	16
	AT04-6P-PM14	6 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap	16
	AT04-08PA-PM05	8 Pos. Flange Mount Receptacle with Gasket, Pin, Threaded, Keyed A	16
	AT04-08PA-PM11	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed A	16
	AT04-08PA-PM12	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed A	16
	AT04-08PA-PM13	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed A	16
	AT04-08PA-PM14	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed A	16
	AT04-08PB-PM11	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed B	16
	AT04-08PB-PM12	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed B	16
	AT04-08PB-PM13	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed B	16
	AT04-08PB-PM14	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed B	16
	AT04-08PC-PM11	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed C	16
	AT04-08PC-PM12	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed C	16
	AT04-08PC-PM13	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed C	16
	AT04-08PC-PM14	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed C	16
	AT04-08PD-PM11	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed D	16
	AT04-08PD-PM12	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed D	16
	AT04-08PD-PM13	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed D	16
	AT04-08PD-PM14	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed D	16
00000	AT04-12PA-PM05	12 Pos. Flange Mount Receptacle with Gasket, Pin, Threaded, Keyed A	16

AT PANEL MATE SERIES RECEPTACLES (con't)

Go to AT Standard Connectors for Plug options starting on page 46

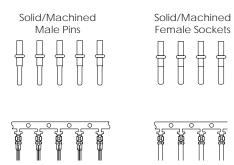
Part Number	Description	Contact Size
AT04-12PA-PM11	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed A	16
AT04-12PA-PM12	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed A	16
AT04-12PA-PM13	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed A	16
AT04-12PA-PM14	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed A	16
AT04-12PB-PM11	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed B	16
AT04-12PB-PM12	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed B	16
AT04-12PB-PM13	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed B	16
AT04-12PB-PM14	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed B	16
AT04-12PC-PM11	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed C	16
AT04-12PC-PM12	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed C	16
AT04-12PC-PM13	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed C	16
AT04-12PC-PM14	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed C	16
AT04-12PD-PM11	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed D	16
AT04-12PD-PM12	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed D	16
AT04-12PD-PM13	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed D	16
AT04-12PD-PM14	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed D	16
AT1612-13PB-RDG	13 Pos., Receptacle, Pin, Panel Mount, Self Threading, RD01 Seal, Cap, Keyed B	16-12
AT1612-13PB-G	13 Pos., Receptacle, Pin, Panel Mount, Self Threading, Standard Seal, Cap, Keyed B	16-12
AT04-XP-PM1X-G7	Gasket for 2, 3, 4, 6 Position Receptacles (AT Size 16 receptacles only)	-
AT04-08PB-G7	Gasket for 8 Position Receptacle	-
AT1612-PB-G7	Gasket for 12, 13 Position Receptacle	-

Stamped & Formed

Male Pins

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.





Formed

Female Sockets

Standard Contacts - Solid Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
AT	16	14	Solid	AT62-209-1631	Female Contact - Socket, Gold-plated
AT	16	14	Solid	AT62-209-16141	Female Contact - Socket, Nickel-plated
AT	16	16-20	Solid	AT62-201-1631	Female Contact - Socket, Gold-plated
AT	16	16-20	Solid	AT62-201-16141	Female Contact - Socket, Nickel-plated
AT	16	14	Solid	AT60-215-1631	Male Contact - Pin, Gold-plated
AT	16	14	Solid	AT60-215-16141	Male Contact - Pin, Nickel-plated
AT	16	16-20	Solid	AT60-202-1631	Male Contact - Pin, Gold-plated
AT	16	16-20	Solid	AT60-202-16141	Male Contact - Pin, Nickel-plated

Standard Contacts - Stamped & Formed Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
AT	16	14-16	S & F	AT62-14-0122	Female Contact - Socket, Nickel-plated
AT	16	14-16	S & F	AT62-14-0144	Female Contact - Socket, Gold-plated
AT	16	16-18	S & F	AT62-16-0122	Female Contact - Socket, Nickel-plated
AT	16	16-18	S & F	AT62-16-0144	Female Contact - Socket, Gold-plated
AT	16	18-20	S & F	AT62-16-0622	Female Contact - Socket, Nickel-plated
AT	16	18-20	S & F	AT62-16-0644	Female Contact - Socket, Gold-plated
AT	16	14-16	S & F	AT60-14-0122	Male Contact - Pin, Nickel-plated
AT	16	14-16	S & F	AT60-14-0144	Male Contact - Pin, Gold-plated
AT	16	16-18	S & F	AT60-16-0122	Male Contact - Pin, Nickel-plated
AT	16	16-18	S & F	AT60-16-0144	Male Contact - Pin, Gold-plated
AT	16	18-20	S & F	AT60-16-0622	Male Contact - Pin, Nickel-plated
AT	16	18-20	S & F	AT60-16-0644	Male Contact - Pin, Gold-plated

AT ACCESSORIES & TOOLS

AT SERIES ACCESSORIES & TOOLS

Seal Plugs



AT	16	12-16	-	A114017	Seal Plugs, White
AT	16	16	-	A114017-SR	Seal Plugs, Black

Gasket



AT	16	12-16	-	AT1612-PB-G7	Gasket for 13-Way Receptacle (ONLY)
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Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only
	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3950	Crimp Die - Size 16, 18-20AWG (Stamped & Formed Contacts)
	MFX-3953	Crimp Die - Size 16, 16-18AWG (Stamped & Formed Contacts)
	MFX-3975	Crimp Die - Size 16, 14-16AWG (Stamped & Formed Contacts)
O TOTAL MARKET MARKET	ATT-16-00	Size 16, 14-16AWG, Stamped & Formed Contact Tool
	ATT-16-01	Size 16, 18-20AWG, Stamped & Formed Contact Tool

AT Series™ Contact Removal Tools

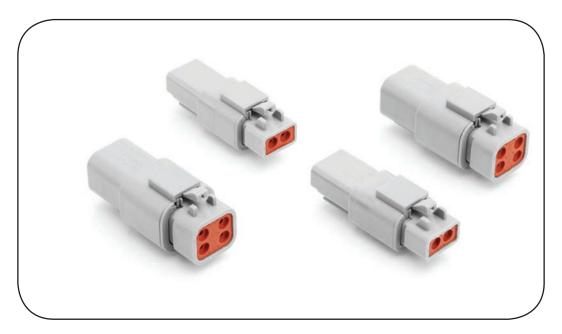
Part	Part Number	Description
Ampharol ATRT-ION user/Leituos.com	ATRT-100	Used for removal of contacts for AT Series™ products
	AT11-310-1605	Contact Removal Tool, plastic, Size 16 (Used on AT1612 Series connectors, where wedgelock is not required. See pages 54,64,78,82,99)
	AT11-337-1205	Contact Removal Tool, plastic Size 12 (Used on AT1612 Series connectors, where wedgelock is not required. See pages 54,64,78,82,99)

AT SERIES FIELD REPAIR KITS

The AT Series™ Field Repair Kits are the ideal companion for anyone performing on-site or in-the-field maintenance. They contains a full range of plugs, receptacles, wedges, contacts, seals and tools, as well as a cross-reference guide, all in a heavy duty plastic carrying case, easily labeled for quick identification.

Part	Part Number	Description
	AT-RK100	Large Field Repair Kit contents: AT04-2P: 2 Pos. Recep. (15 qty.) AT04-4P: 4 Pos. Recep. (10 qty.) AT04-4P: 4 Pos. Recep. (10 qty.) AT04-6P: 6 Pos. Recep. (10 qty.) AT04-0BPA: 8 Pos. Recep. (5 qty.) AT04-12PA: 12 Pos. Recep. (5 qty.) AT06-2S: 2 Pos. Plug (15 qty.) AT06-3S: 3 Pos. Plug (10 qty.) AT06-3S: 3 Pos. Plug (10 qty.) AT06-6S: 6 Pos. Plug (10 qty.) AT06-6S: 6 Pos. Plug (10 qty.) AT06-12SA: 12 Pos. Plug (5 qty.) AW2P: 2 Pos. Recep. Wedge (15 qty.) AW3P: 3 Pos. Recep. Wedge (10 qty.) AW4P: 4 Pos. Recep. Wedge (10 qty.) AW6P: 6 Pos. Recep. Wedge (5 qty.) AW1P: 12 Pos. Recep. Wedge (5 qty.) AW2S: 2 Pos. Plug Wedge (15 qty.) AW3S: 3 Pos. Plug Wedge (10 qty.) AW3S: 3 Pos. Plug Wedge (10 qty.) AW3S: 4 Pos. Plug Wedge (10 qty.) AW4S: 4 Pos. Plug Wedge (10 qty.) AW6S: 6 Pos. Plug Wedge (10 qty.) AW5: 12 Pos. Plug Wedge (10 qty.) AW6S: 6 Pos. Plug Wedge (5 qty.) AW12S: 12 Pos. Plug Wedge (5 qty.) AW12S: 12 Pos. Plug Wedge (5 qty.) AW6S: 6 Pos. Plug Wedge (5 qty.) AW12S: 12 Pos. Plug Wedge (10 qty.) AW6S: 6 Pos. Plug Wedge (10 qty.) AW6S: 6 Pos. Plug Wedge (5 qty.) AT60-202-16141: Amale Contacts - Machined (150 qty.) AT60-202-16141: Male Contacts - Machined (150 qty.) ATRT-100: Removal Tool for Contact/Wedges (1 qty.) AT-RCT100: Universal Repair Case Tool (1 qty.) AT-RM100: Repair Manual (1 qty.) AT14017: Blank Seal 16Awg (20 qty.)
	AT-RK200	Miniature Field Repair Kit contents: AT04-2P: 2 Pos. Recep. (5 qty.) AT04-3P: 3 Pos. Recep. (5 qty.) AT04-4P: 4 Pos. Recep. (5 qty.) AT04-6P: 6 Pos. Recep. (3 qty.) AT04-08PA: 8 Pos. Recep. (1 qty.) AT04-12PA: 12 Pos. Recep. (1 qty.) AT06-2S: 2 Pos. Plug (5 qty.) AT06-3S: 3 Pos. Plug (5 qty.) AT06-3S: 3 Pos. Plug (5 qty.) AT06-6S: 6 Pos. Plug (3 qty.) AT06-6S: 6 Pos. Plug (3 qty.) AT06-6S-A: 8 Pos. Plug (1 qty.) AT06-12SA: 12 Pos. Plug (1 qty.) AW2P: 2 Pos. Recep. Wedge (5 qty.) AW3P: 3 Pos. Recep. Wedge (5 qty.) AW4P: 4 Pos. Recep. Wedge (5 qty.) AW6P: 6 Pos. Recep. Wedge (1 qty.) AW8P: 8 Pos. Recep. Wedge (1 qty.) AW3P: 12 Pos. Recep. Wedge (1 qty.) AW3P: 2 Pos. Plug Wedge (5 qty.) AW3S: 3 Pos. Plug Wedge (5 qty.) AW3S: 3 Pos. Plug Wedge (5 qty.) AW3S: 4 Pos. Plug Wedge (5 qty.) AW3S: 8 Pos. Plug Wedge (1 qty.) AW6S: 6 Pos. Plug Wedge (1 qty.) AW5S: 12 Pos. Plug Wedge (1 qty.) AW5S: 12 Pos. Plug Wedge (1 qty.) AW6S: 6 Pos. Plug Wedge (1 qty.) AW6S: 6 Pos. Plug Wedge (1 qty.) AW6S: 6 Pos. Plug Wedge (1 qty.) AW6S: 12 Pos. Plug Wedge (1 qty.) AW6S: 12 Pos. Plug Wedge (1 qty.) AW6S: 14 Pos. Plug Wedge (1 qty.) AW6S: 15 Pos. Plug Wedge (1 qty.) AW6S: 16 Pos. Plug Wedge (1 qty.) AW6S: 17 Pos. Plug Wedge (1 qty.) AW6S: 18 Pos. Plug Wedge (1 qty.) AW6S: 19 Pos. Plug Wedge (1 qty.) AW6S: 10 Pos. Plug Wedge (1 qty.)

ATP | Series

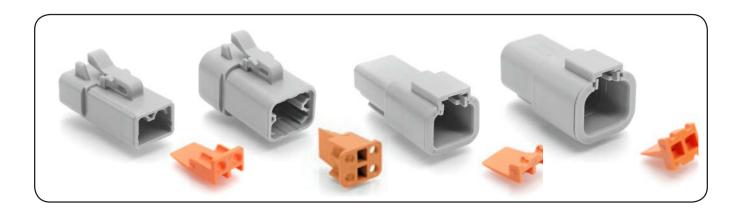


ATP Series™

Overview

ATP Series™ connectors are designed as a high-performance, cost-effective, thermoplastic solution to be used within the Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy fields, as well as other demanding interconnect applications. Available in 2 and 4 position options, the ATP Series™ Connectors contain superior environmental seals, seal retention capabilities and are designed for use with 10-14AWG with size 12 contacts handling up to 25A.

ATP Series™ connectors are compatible with other existing standard products industry-wide.



Features & Benefits

Current Capacity

Wire Range

Temperature

Dielectric Withstanding Voltage

Physical Shock

Vibration

Insulation Resistance

Corrosion Resistance

Submersion

Fluid Resistance

Contact Retention Contacts (minimum load)

Thermal Cycle

Durability

Size 12, 25A (max)

Size 12 contacts will accept wire ranges of 12 thru 14AWG

Operative at temperatures from -55°C to +125°C. Continuous at rated current.

Current leak less than 2 milliamps at 1500 VAC

No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202. Method 213, Condition "C".

Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.

1000 megohms minimum at 25°C

Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.

IP67. Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.

Connectors show no damage when exposed to most fluids used in industrial application.

70lbs. for Size 12 contacts.

No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.

No electrical or mechanical defects after 100 cycles of engagement and disengagement.

discrigagement

ATP Series™

Features & Benefits, cont.

Contact Resistence Wire Sealing Range

Contacts Size 12 Contacts Size 12

Wire Guage 12AWG Recommended Wire Standard (S-Seal) .134-.195"

Installation O.D. Thin Wall (RD-Seal) .097-.158"

Contact Milivolt Drop Size 12 (stamped & formed) contacts with 12AWG conductor - 60 mV

(solid contact) drop max; 100 mV (stamped & formed contact) drop max

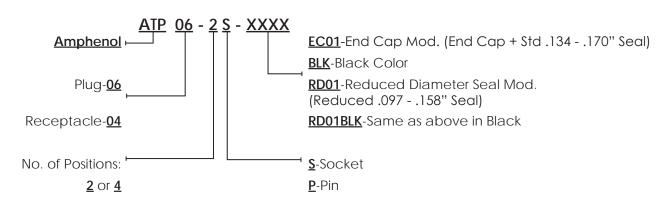
at 25A test current

Product Material

ShellThermoplasticSealsSilicone ElastomerWedgeThermoplastic

Contacts Pins: Copper alloy; Sockets: Copper alloy; Finish: Nickel-plated (optional Gold)

ATP Series™ Part Numbering Sequence

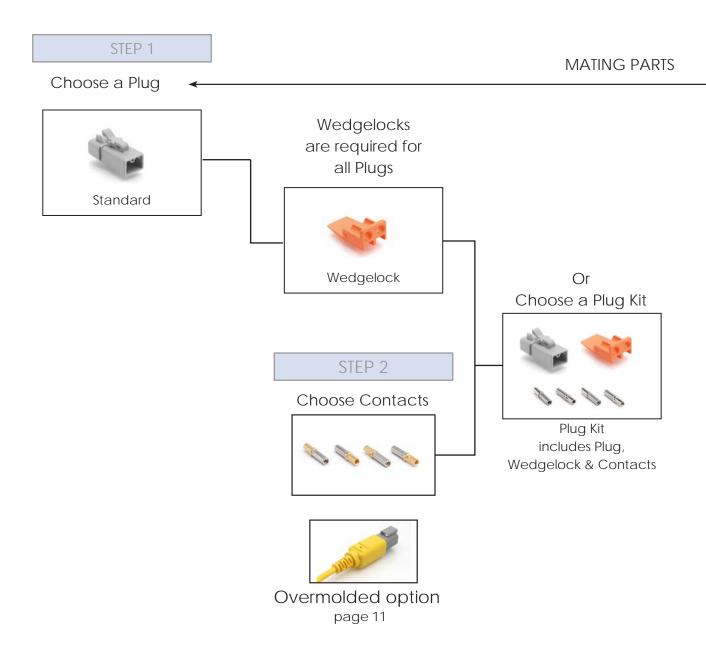


Color	Modification Number	Color	Modification Number
Black	XXXX-XXXX- BLK	Yellow	XXXX-XXXX- YEL
White	XXXX-XXXX-WHT	Green	XXXX-XXXX- GRN
Brown	XXXX-XXXX- BRN	Blue	XXXX-XXXX- BLU
Grey	XXXX-XXXX- GRY	Red	XXXX-XXXX- RED



NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

ATP Series™ Connector Configurations

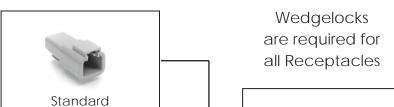


Need a complete Cable Assembly?

See page 11 or contact the factory for assistance Toll Free: 1-800-394-7732



Choose a Receptacle



STEP 4

Wedgelock

Choose Contacts



Receptacle Kit includes Receptacle, Wedgelock & Contacts

Or Choose a

Receptacle Kit



Overmolded option page 11

Or Choose a Plug & Receptacle Kit



Plug & Receptacle Kit includes Plug, Receptacle, Wedgelock & Contacts

ATP SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

Contact Size	12
Wire Range (AWG)	10-14 AWG
Amperage	25

Plug	Part Number	Description	Wedgeloc
	ATP06-2S	Plug, 2-Way	100
1000	ATP06-2S-KIT01	2.5	Socket Plug, We
	ATP06-2S-BLK	Plug, 2-Way Black	132

ocket Plug, Wedge	and Contact	s Kit
170	AWP-2S	Wedgelock Plug, 2-Way

Part Number

AWP-2S

Description

Wedgelock

Plug, 2-Way

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATP04-2P	Receptacle, 2-Way		ST.	AWP-2P	Wedgelock Receptacle, 2-Way
1010	ATP04-2P- KIT01	2 Pin Receptacle, Wedge and Contacts Kit				
	ATP04-2P-BLK	Receptacle, 2-Way Black		92	AWP-2P	Wedgelock Receptacle, 2-Way

Plug & Receptacle Kit	Part Number	Description
10101010	ATP2PS-CKIT	2-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all plug and receptacles

Other Available Options:

End Caps see page 9⁴ Reduced Diameter Seals see page 95 Contacts see page 101 Tools see page 102



ATP PANEL | MATE FLANGE MOUNT HARSH EN-VIRNOMENT CONNECTORS see page 99

ATP SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS



Contact Size	12
Wire Range (AWG)	10-14 AWG
Amperage	25

Plug	Part Number	Description		Wedgelock	Part Number	Description
	ATP06-4S	Plug, 4-Way		No.	AWP-4S	Wedgelock Plug, 4-Way
	ATP06-4S-KIT01	4 Socket Plug, Wedge and Contacts Kit				s Kit
	ATP06-4S-BLK	Plug, 4-Way Black		No.	AWP-4S	Wedgelock Plug, 4-Way

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATP04-4P	Receptacle, 4-Way			AWP-4P	Wedgelock Receptacle, 4-Way
1111	ATP04-4P- KIT01	4 Pin Receptacle, Wedge and Contacts Kit				
	ATP04-4P-BLK	Receptacle, 4-Way Black			AWP-4P	Wedgelock Receptacle, 4-Way

Plug & Receptacle Kit	Part Number	Description
© 5	ATP4PS-CKIT	4-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

NOTE: Wedgelocks are required for all plug and receptacles

Other Available Options:

End Caps see page 94 Reduced Diameter Seals see page 95 Contacts see page 101 Tools see page 102



ATP PANEL | MATE FLANGE MOUNT HARSH EN-VIRNOMENT CONNECTORS see page 99



ATP SERIES STANDARD PLUG and RECEPTACLE END CAPS

Contact Size	12
Wire Range (AWG)	10-14 AWG
Amperage	25

AT Series™ connectors offer several modifications for increased design flexibility or special application requirements.

END CAPS

Plug	Faceview	Part Number	Description	Wedgelock Part Number
The state of the s	0 0	ATP06-2S-EC01	2-Way Plug, Female Con- nector with End Cap	AWP-2S
	0 0	ATP06-4S-EC01	4-Way Plug, Female Con- nector with End Cap	AWP-4S

Receptacle	Faceview	Part Number	Description
	①——• •	ATP04-2P-EC01	2-Way Receptacle, Male Connector with End Cap
	0 0 1	ATP04-4P-EC01	4-Way Receptacle, Male Connector with End Cap



NOTE: Wedgelocks are required for all plug and receptacles.

ATP SERIES STANDARD PLUG and RECEPTACLE REDUCED DIAMETER SEALS



Contact Size	12
Wire Range (AWG)	10-14 AWG
Amperage	25

REDUCED DIAMETER SEALS (.053" - .120")

Plug	Faceview	Part Number	Description	Wedgelock Part Number
all and a second		ATP06-2S-RD01	2-Way Plug, Female Con- nector with Reduced Diam- eter Seal	
		ATP06-2S-RD01BK	2-Way Plug, Female Con- nector with Reduced Diam- eter Seal, Black	AWP-2S
	0 0	ATP06-4S-RD01	4-Way Plug, Female Con- nector with Reduced Diam- eter Seal	
		ATP06-4S-RD01BK	4-Way Plug, Female Con- nector with Reduced Diam- eter Seal, Black	AWP-4S

Receptacle	Faceview	Part Number	Description
	0 0	ATP04-2P-RD01	2-Way Receptacle, Male, Reduced Diameter Seal
	0 0 0	ATP04-4P-RD01	4-Way Receptacle, Male, Reduced Diameter Seal



NOTE: Wedgelocks are required for all plug and receptacles.

ATP Panel | Mate[™]



ATP Panel | Mate™ Series

2, 4, 13 Position / Size 12, 25A

13 Position / Size 12, 25A; Size 16, 13A











The Amphenol Panel | MateTM series combines flange mounting options with the proven reliability of the AT/ATP SeriesTM environmentally-sealed thermoplastic connection system. Engineered with a one-piece sealed flange design for rapid and secure mounting, its durable high temperature silicone facial seal provides a barrier of protection from lubricating oils, hydraulic fluids and fossil fuels to withstand the challenges and complexities of harsh environment applications.

Current Capacity

Wire Range

Temperature

Dielectric Withstanding Voltage

Physical Shock

Vibration

Insulation Resistance Corrosion Resistance

Submersion

Fluid Resistance

Contact Retention Contacts (minimum load)
Thermal Cycle

Durability

Size 12, 25A (max)

Size 12 contacts will accept wire ranges of 10 thru 14AWG

Operative at temperatures from -55°C to +125°C. Continuous at rated current.

Current leak less than 2 milliamps at 1500 VAC

No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer

than 1 microsecond. MIL-STD 202. Method 213, Condition "C".

Maintains continuity and exhibits no mechanical or physical damage after

vibration levels of 20 G's at 10-2000 Hz.

1000 megohms minimum at 25°C

Connectors show no evidence of corrosion after exposure to 48 hours of salt

spray per MIL - STD 1344, method 1001.

IP67. Wired and mated connection will withstand immersion under three feet

of water without loss of electronic qualities or leakage.

Connectors show no damage when exposed to most fluids used in industrial

application.

70lbs. for Size 12 contacts.

No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.

No electrical or mechanical defects after 100 cycles of engagement and

disengagement.

AT/ATP Series Panel | Mate™ meets all the performance criteria and specifications of the AT Series™, and is also available in a wide variety of custom colors. Consult factory for complete specifications.

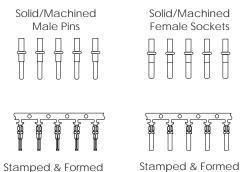


Go to ATP Standard Connectors for Plug options starting on page 92

	Part Number	Description	Contact Size	AMP
	ATP04-2P-PM07G	2 Pos. Recep., Pin, Panel Mount, w Gasket, Black		25
	ATP04-2P-PM07GEC	2 Pos. Recep., Pin, Panel Mount, w Gasket, End Cap, Black		25
	ATP04-2P-PM08G	2 Pos. Recep., Pin, Panel Mount, w Gasket, Grey	12	25
	ATP04-2P-PM08GEC	2 Pos. Recep., Pin, Panel Mount, w Gasket, End Cap, Grey	12	25
	ATP04-4P-PM07G	4 Pos. Recep., Pin, Panel Mount, w Gasket , Black	12	25
	ATP04-4P-PM07GEC	4 Pos. Recep., Pin, Panel Mount, w Gasket, End Cap, Black	12	25
	ATP04-4P-PM08G	4 Pos. Recep., Pin, Panel Mount, w Gasket, Grey	12	25
	ATP04-4P-PM08GEC	4 Pos. Recep., Pin, Panel Mount, w Gasket, End Cap, Grey	12	25
	AT1612-13PB-RDG	13 Pos., Recep., Pin, Panel Mount, Self Threading, RD01 Seal, Cap, Keyed B	16-12	13-25
	AT1612-13PB-G	13 Pos., Recep., Pin, Panel Mount, Self Threading, Standard Seal, Cap, Keyed B	16-12	13-25
	AT1612-PB-G7	Gasket for 12, 13 Position Receptacle	-	-

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.





Female Sockets

Male Pins

Standard Contacts - Solid Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
ATP	12	12-14	Solid	AT62-210-1231	Female Contact - Socket, Gold-plated
ATP	12	12-14	Solid	AT62-203-12141	Female Contact - Socket, Nickel-plated
ATP	12	12-14	Solid	AT60-220-1231	Male Contact - Pin, Gold-plated
ATP	12	12-14	Solid	AT60-204-12141	Male Contact - Pin, Nickel-plated

Standard Contacts - Stamped & Formed Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
ATP	12	12-14	S & F	AT62-12-0166	Female Contact - Socket, Nickel-plated
ATP	12	12-14	S & F	AT62-12-0144	Female Contact - Socket, Gold-plated
ATP	12	12-14	S & F	AT60-12-0166	Male Contact - Pin, Nickel-plated
ATP	12	12-14	S & F	AT60-12-0144	Male Contact - Pin, Gold-plated
ATP	12	10-12	S & F	AT62-12-0222	Female Contact - Pin, Nickel-plated
ATP	12	10-12	S & F	AT60-12-0222	Male Contact - Pin, Nickel-plated

Specialty Contacts - DiagnosticGrade™ Solid Sockets & Pins

Smaller AWG for diagnostic applications; Gold-plated; increased mating cycles; cost-effective.

Series	Size	AWG	Туре	Part Number	Description
ATP	12	20	Solid	AT62-210- 1231-1820	Female Contact - Socket, DiagnosticGrade, Gold-plated
ATP	12	20	Solid	65-54749	Male Contact - Pin, DiagnosticGrade, Gold-plated

ATP SERIES STANDARD TOOLS

Crimp Tools

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description		
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only		
	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only		
	MFX-3973	Crimp Die - Size 12 (Stamped & Formed Contacts)		
TEXTEND AND THE PARTY OF THE PA	ATT-12-00	Size 12, 12AWG, Stamped & Formed Contact Tool		

AT Series™ Contact Removal Tool

Part	Part Number	Description
Amphurol ATRT-4000 usent almost stm	ATRT-100	Used for removal of contacts for AT Series™ products

ATP SERIES ACCESSORIES







	ATP	16	12-16	-	A114017	Seal Plugs, White
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Backshells

Part	Part Number	Description
	ATP06-4S-NC12	Backshell for 4 Position Plug or Receptacle

AHD SeriesTM



AHD Series™

Overview

AHD Series[™] connectors were developed in response to the overwhelming need for an economic alternative to today's existing diagnostic product options. Designed specifically as a cost-conscious, reliable alternative, intermateable to industry standard 6 and 9 pin connectors, the AHD Series[™] is ideal for any situation where either controlled and/or uncontrolled environmental conditions exist.

AHD Series™ Connectors offer both a smooth, non-sealing option for controlled applications, as well as an environmentally-sealed, threaded option for more demanding applications.

AHD Series™ connectors are completely compatible with all other existing standard products industry-wide.



Features & Benefits

Current Capacity 6 position: Size 12, 25A (max) 9 position: Size 16, 13A (max)

Wire Range Size 12 contacts will accept wire ranges of 10 thru 14AWG Size 16 contacts will accept wire ranges of 14 thru 20AWG

Temperature DiagnosticGrade™ / Military Style: Operating temperature range: -55°C TO

+125°C at rated current.

Dielectrical Strength | DiagnosticGrade™ / Military Style: 1500 volts minimum

Physical Shock Military Style: No locking, unmating or other unsatisfactory result after 50 g's in

each of three mutually perpendicular planes.

Vibration Military Style: Maintains continuity and exhibits no mechanical or physical damage

after vibration. (20 g's at 10-2000 Hz)

Insulation Resistance DiagnosticGrade™ / Military Style: 1000 megohms minimum at 25°C.

Durability DiagnosticGrade™ / Military Style: No electric or mechanical defects after 100

cycles of engagement and disengagement.

AHD Series™

Features & Benefits, cont.

Integrated Alignment Keys
Strong Thermoplastic Housing

Operating Temperature Range Economically Sound

Rohs Compliant Ul Approval

Contact Current Rating

Corrosion Resistance

Tactile verification for blind mating

Extended service life

-55°C TO +125°C - Wide range compatibility

Low overall cost

Environmentally friendly Certified and compliant

DiagnosticGrade $^{\text{TM}}$ / Military Style: At +125 $^{\circ}$ C, continuous, less thru wire:

#12 contact = 25A max. current; #16 contact = 13A max. current

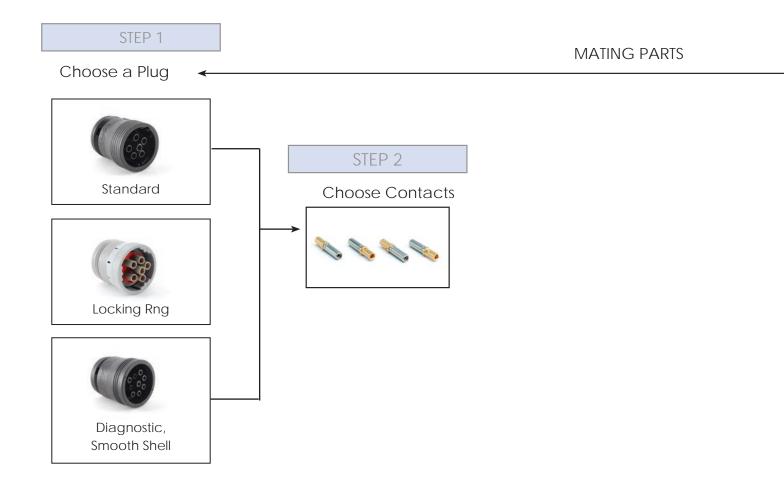
DiagnosticGrade™ / Military Style: Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL-STD 1344 method 1001.

Product Material

Housings Thermoplastic
Seals Silicone Elastomer

Contacts Copper alloy/Gold plated

AHD Series[™] Connector Configurations



Need a complete Cable Assembly?

See page 11 or contact the factory for assistance

Toll Free: 1-800-394-7732



Choose a Receptacle



Standard



Jam Mount, Extended Shroud



Flange



Reduced Seal



In-Line Threaded Rear



Diagnostic



Choose Contacts



Optional Receptacle Caps



Optional Panel Nut







AHD SERIES STANDARD PLUGS & RECEPTACLES

Contact Size:	12
Wire Range (AWG):	10-14 AWG
Amperage:	25

Plug	Part Number	Description
	AHD16-6-12S	6 Position, Plug, Smooth Shell Diagnostic Grade Size 12 socket contacts only
	AHD16-6-12SB010	6 Position, Plug, Locking Ring Size 12 socket contacts only
	P23232	6 -Way Plug, LED. LED light is integrated into a 6 position plug for determining if device is receiving power. Environmentally sealed, field seviceable, and cost effective.
Receptacle	Part Number	Description
	AHD10-6-12P-L	6 Position, Receptacle Size 12 pin contacts only

AHD SERIES STANDARD PLUGS & RECEPTACLES





Contact Size:	16
Wire Range (AWG):	14-20 AWG
Amperage:	13

Plug	Part Number	Description
	AHD16-9-1939S	9 Position, Plug, Locking Ring Size 16 socket contacts only
689	AHD16-9-1939SE	9 Position, Plug, Locking Ring, Reduced Seal Size 16 socket contacts only
	AHD17-9-1939S	9 Position, Plug, Smooth Shell Size 16 socket contacts only
	AHD16-9-96S	9 Position, Plug, Locking Ring (non-J1939) Size 16 socket contacts only
	AHD16-9-1939S80	9 Position, Plug, HD Series, Locking Ring, Green, Type II Size 16 socket contacts only
	AHD16-9-1939S8R	9 Position, Plug, HD Series, Locking Ring, Green Reduced Seal, Type II Size 16 socket contacts only
Receptacle	Part Number	Description
	AHD10-9-96P	9 Position, Receptacle Size 16 pin contacts only
(Fig.	AHD10-9-1939P	9 Position, Receptacle, Flange Size 16 pin contacts only
100	AHD10-9-1939PE	9 Position, Receptacle, Flange, Reduced Seal Size 16 pin contacts only
	AHD10-9-1939P80	9 Position, Receptacle, HD Series, Flange, Green, Type II Size 16 pin contacts only
	AHD10-9-1939P8R	9 Position, Receptacle, HD Series, Flange, Reduced Seal, Green, Type II Size 16 pin contacts only
	AHD14-9-96P	9 Position, Receptacle, In Line Threaded Rear Size 16 pin contacts only
Cas	AHD14-9-1939P	9 Position, Receptacle, In-Line Threaded Rear J1939 Size 16 pin contacts only
	AHD17-9- 1939PES	AHD Series™, 9-Way, Jam Mount Extended Shroud, Receptacle
	AHD17-9- 1939PES80	HD Series 9 Pin Receptacle (TYPE 2) Jam Mount / Extended Shroud
0	AHD17-PN01	AHD Series™ Panel Nut (for use with P/N: AHD17-9-1939PES)
0	AHD17-PN01- GRN	HD Series 9 Pin PANEL NUT (for use with P/N: AHD17-9-1939PES80) GREEN

AHD 9 POSITIONS 13A



AHD Series™ Unsealed Diagnostic Receptacle

AHD Series™ unsealed diagnostic 9-way receptacle that is cost effective, yet rugged. Mates with industry standard diagnostic 9-way plugs.

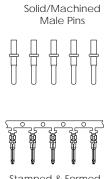
Receptacle	Mod. Number	Description
	AHD10-9-1939PNR	AHD Series™, 9-Way, Receptacle, Unsealed

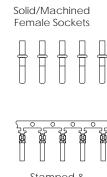
Receptacle Caps - 6 and 9 positions

Сар	Part Number	Description
	AHDC-16-6	6 Position, Receptacle, Cap, Grey
	AHDC-16-9	9 Position, Receptacle, Cap, Grey
	AHDC-16-9-BLK	9 Position, Receptacle, Cap, Black
	AHDC-16-9-OBDGN	9 Position Receptacle Cap, Green, OBD Label
	AHDC-16-9-OBDBK	9 Position, Receptacle, Cap, Black, OBD Label
	AHDC169-T-OBDGN	9 Pin Receptacle Cap w/ Rubber Tether Green, OBD Label
	AHDC169-T-OBDBK	9 Position, Receptacle, Cap w/ Tether, Black, OBD Label
	AHDC169-TMOBDBK	9 Position, Receptacle, Cap w/ Wire Tether, Black, OBD Label
	AHDC169-TMOBDGN	9 Position, Receptacle, Cap w/ Wire Tether, Green, OBD Label
8	AHDC169-T	9 Position, Receptacle, Cap w/ Tether, Grey
	AHDC169-T-BLK	9 Position, Receptacle, Cap w/ Tether, Black
	AHDC169-TMBLK	9 Position, Receptacle, Cap w/ Wire Tether, Black
	AHDC169-TM	9 Position, Receptacle, Cap w/ Wire Tether, Grey

AHD SERIES CONTACTS







Stamped & Formed Male Pins

Stamped & Formed Female Sockets

Standard Contacts - Solid Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
AHD-6	12	12-14	Solid	AT62-210-1231	Female Contact - Socket, Gold-plated
AHD-6	12	12-14	Solid	AT62-203-12141	Female Contact - Socket, Nickel-plated
AHD-9	16	14	Solid	AT62-209-1631	Female Contact - Socket, Gold-plated
AHD-9	16	14	Solid	AT62-209-16141	Female Contact - Socket, Nickel-plated
AHD-9	16	16-20	Solid	AT62-201-1631	Female Contact - Socket, Gold-plated
AHD-9	16	16-20	Solid	AT62-201-16141	Female Contact - Socket, Nickel-plated
AHD-6	12	12-14	Solid	AT60-220-1231	Male Contact - Pin, Gold-plated
AHD-6	12	12-14	Solid	AT60-204-12141	Male Contact - Pin, Nickel-plated
AHD-9	16	14	Solid	AT60-215-1631	Male Contact - Pin, Gold-plated
AHD-9	16	14	Solid	AT60-215-16141	Male Contact - Pin, Nickel-plated
AHD-9	16	16-20	Solid	AT60-202-1631	Male Contact - Pin, Gold-plated
AHD-9	16	16-20	Solid	AT60-202-16141	Male Contact - Pin, Nickel-plated

Standard Contacts - Stamped & Formed Sockets & Pins

Series	Size	AWG	Туре	Part Number	Description
AHD-6	12	12-14	S & F	AT62-12-0166	Female Contact - Socket, Nickel-plated
AHD-6	12	12-14	S & F	AT62-12-0144	Female Contact - Socket, Gold-plated
AHD-9	16	14-16	S & F	AT62-14-0122	Female Contact - Socket, Nickel-plated
AHD-9	16	14-16	S & F	AT62-14-0144	Female Contact - Socket, Gold-plated
AHD-9	16	16-18	S & F	AT62-16-0122	Female Contact - Socket, Nickel-plated
AHD-9	16	16-18	S & F	AT62-16-0144	Female Contact - Socket, Gold-plated
AHD-9	16	18-20	S & F	AT62-16-0622	Female Contact - Socket, Nickel-plated
AHD-9	16	18-20	S & F	AT62-16-0644	Female Contact - Socket, Gold-plated
AHD-6	12	12-14	S & F	AT60-12-0166	Male Contact - Pin, Nickel-plated
AHD-6	12	12-14	S & F	AT60-12-0144	Male Contact - Pin, Gold-plated
AHD-9	16	14-16	S & F	AT60-14-0122	Male Contact - Pin, Nickel-plated
AHD-9	16	14-16	S & F	AT60-14-0144	Male Contact - Pin, Gold-plated
AHD-9	16	16-18	S & F	AT60-16-0122	Male Contact - Pin, Nickel-plated
AHD-9	16	16-18	S & F	AT60-16-0144	Male Contact - Pin, Gold-plated
AHD-9	16	18-20	S & F	AT60-16-0622	Male Contact - Pin, Nickel-plated
AHD-9	16	18-20	S & F	AT60-16-0644	Male Contact - Pin, Gold-plated

Crimp Tools

Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only
	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3973	Crimp Die - Size 12 (Stamped & Formed Contacts)
	MFX-3950	Crimp Die - Size 16, 18-20AWG (Stamped & Formed Contacts)
	MFX-3953	Crimp Die - Size 16, 16-18AWG (Stamped & Formed Contacts)
	MFX-3975	Crimp Die - Size 16, 14-16AWG (Stamped & Formed Contacts)
	ATT-12-00	Size 12, 12AWG, Stamped & Formed Contact Tool
	ATT-16-00	Size 16, 14-16AWG, Stamped & Formed Contact Tool
	ATT-16-01	Size 16, 18-20AWG, Stamped & Formed Contact Tool

AT Series™ Contact Removal Tool

Part	Part Number	Description
	AT11-337-1205	Contact Removal Tool, plastic Size 12
	AT11-310-1605	Contact Removal Tool, plastic, Size 16

AHD ACCESSORIES

AHD SERIES ACCESSORIES



	AHD	16	12-16	-	A114017	Seal Plugs, White
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Amphenol Sine Systems offers customized solutions across all our standard product lines. Whether you are looking for a custom connector solution or a complete turn-key cable assembly solution, Amphenol Sine Systems is your one source for proven, reliable and innovative results on a global level. While our Standard products are a competitive option on a Global level, it is our Custom solutions that set us apart.

Contact Customer Service today to speak with one of our Program Managers or Engineers regarding your next custom project using our live chat, call toll free +1 800 394 7732 or email at csr@amphenol-sine.com.





ATC SeriesTM



ATC Series™

Cylindrical, Thermoplastic, Non Threaded Coupling, Harsh Environment, Power Connector

Overview

Amphenol Industrial Products Group introduces a series of thermoplastic receptacles featuring Amphenol's AT contact technology. This series is designed to perform in the demanding applications found on construction and farm equipment, plus truck environments. The AT Circular series is a molded thermoplastic receptacle with a positive reverse bayonet retention system and sealed by redundant grommet wire sealing. The square flange design ensures a drop in replacement to existing panel designs and the jam nut version makes for easy installation. The 9 pin black receptacles are in accordance with the interface of the J1939 diagnostic connector.

AT Contact technology is already used successfully at major OEM's and features machined contacts with both Nickel and Gold plating.



Features:

- Jam nut and square flange mounting styles solution
- Quick mating and unmating reverse bayonet coupling
- Environmentally sealed sealed against moisture and contaminants
- Contact retention system decreases installation costs and increases reliability
- RoHs compliant product
- Heavy duty industrial connector, economical connector selection

Material Specifications:

Receptacle Square Flange	Thermoplastic
Grommet Seal	Neoprene Rubber for 3 and 5 pin Silicone Rubber for 9 pin
Contact (AT Series)	Copper Alloy (Nickel and Gold plating available)

Electrical Specifications based on AT Machined:

Dielectric Withstanding Voltage (Test Voltage)	Current leakage less than 2 milliamps at 1500 VAC
Current Rating at 125 degree C	13 A
Contact Millivolt Drop	60 (AWG 16 Wire, 13 A)
Insulation Resistance	1000 megaohms min. at 25°C

ATC Series™

Mechanical Specifications:

Operating Temperature Range	Current leakage less than 2 milliamps at 1500 VAC
Durability (Mating Cycle)	13 A
Corrosion Resistance	60 (AWG 16 Wire, 13 A)
Moisture Resistance	1000 megaohms min. at 25°C
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial applications
Thermal Shock	-40°/+125°C, 100 cycles, 1 hour per cycle
Crimp Tensile Strength	25 lbs
Vibration	Maintains continuity and exhibits no mechanical or physical damage during or while subject to sinusoidal vibration, having an amplitude of .060 inches double amplitude and the frequency varied linearly between limits of 10 to 2000 to 10 Hz with a maximum force of 20g's. No electrical discontinuities longer than 1 microsecond
Physical Shock	No unlocking, unmating or other unsatisfactory result during or after 50 g's in each of three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL STD 202, Method 213, Condition "C"

PART NUMBERING SEQUENCE

ATC	<u>10</u>	- <u>9-1939</u>	<u>P</u>	<u>N</u>
1	2	3	4	

1 designates AT Circular Connector

2 Shell Style

09 = Small Flange Jam Nut Receptacle (includes jam nut)

10 = Square Flange Receptacle

17 = Jam Nut Receptacle (jam nut sold separately)

11 = Round Nut Receptacle

3 Shell Sizes and Insert Arrangements

3, 5, 9-1939

4 Contact

P for Pin (only available for Receptacles)

ACCESSORIES

PART NUMBER	DESCRIPTION
ATC10-RC3C	Cap with Lanyard for Size 3 Square Flange Receptacle
ATC10-RC3	Cap less Lanyard for Size 3 Receptacle
ATC10-RC5C	Cap with Lanyard for Size 5 Square Flange Receptacle
ATC10-RC5	Cap less Lanyard for Size 5 Receptacle
ATC10-RC9C	Cap with Lanyard for Size 9 Square Flange Receptacle
ATC10-RC9	Cap less Lanyard for Size 9 Receptacle
ATC10-RC9L	Cap with Lanyard for Size 9 Jam nut Receptacle
ALHN-19	Hex Nut for ATC-17-9-1939PN
ASR9-1939	Strain Relief for Small Flange J1939 Receptacle
AWS9-1939	Wave Spring for Small Flange J1939 Receptacle



ATHD | SeriesTM



ATHD Series™

Overview

The heavy duty ATHD connector series for size 12 and size 8 power contacts are sealed, single pole, in-line connection systems to replace splices and/or provide power wherever needed. These thermoplastic connectors are field installable and repairable and can thus replace expensive and unrepairable splices. The power connectors are ruggedized and designed for high vibration applications in the Heavy Equipment and Mining markets. Additional styles and custom solutions to mate to the ATHD plugs are available upon request, including higher temperature resin and seals for harsh fluid applications.



Features:

- Size 8 crimp contacts are rated to 70 amps*
- Size 12 crimp contacts are rated to 35 amps*
- Both will meet 100 mating cycles
- Designed for temperatures of -55 °C to 125 °C
- Operating voltage of 500 VAC
- Dielectric withstanding voltage of 1500 VAC
- RoHS compliant
- Clip slots for a variety of mounting solutions
- IP67 rated
- * Using Amphenol's exclusive RADSOK® technology



ATHD Size 12 with Stamped and Formed Contacts

Mechanical Specifications:

	Size 12 System	Size 8 System
Current Rating	35A with RADSOK®, 25A with standard contacts	70A with RADSOK®, and 60A with standard contacts
Contact Quantity	1	1
Contact Size	12 AWG	8 AWG
Operating Temperature	-55 °C to 125 °C with 150°C upon request	-55 °C to 125 °C with 150°C upon request
Contact Retention	133N	156N
Mating Cycles	100	100
Insulation Resistance	1000MΩ Min. (at 25 °C)	1000MΩ Min. (at 25 °C)
Dielectric Withstanding Voltage	1500 AC (RMS)	1500 AC (RMS)
Moisture Resistance	IP67 (mated)	IP67 (mated)
Operating Voltage	500 VAC	500 VAC
Allowable Wire Size	16-12 AWG	10-8 AWG

ATHD Series™ PLUGS & RECEPTACLES

ATHD Series™

PART NUMBERS FOR TERMINALS

ATHD - 1 P - N - S - 12 XX 1 2 3 4 5 6 7

1 Series

2 One terminal

3 Gender

P = Pin

4 Plating

S = Socket

G= Gold

S= Silver (machined only)

N= Nickel T= Tin

5 Contacts

S= Stamped & Formed

(size 12 only)
M= Machined

6 Contact Size 8 or 127 Special Additions:

16 = 16 Gauge Cable

(Size 12 only)

R= Radsok (Machined only)

PART NUMBERS FOR PLASTIC

ATHD - 1 PS - 12 XX 1 2 3 4 5

1 Series

2 One terminal

3 Housing + Terminal*

PS = Plug with Socket RP = Receptacle with Pin

4 Contact Size 8 or 125 Special Additions:

16 = 16 Gauge Cable

*Note: Housing Plug must use the Socket terminal (PS) and Housing Receptacle must use the Pin terminal (RP)

Part Numbers:

	Size 12 System for 12 gauge cable	Size 12 System for 16 gauge cable	Size 8 System
Plug	ATHD-1PS-12	ATHD-1PS-12 (16)	ATHD-1PS-8
Receptacle	ATHD-1RP-12	ATHD-1RP-12 (16)	ATHD-1RP-8





	ATHD Plug		1	ATHD Receptacle	;	
Contact Size	ct Size Overall Length			Overall Length		
	А	В	С	А	В	С
12	1.498(38.05)	771 (19.58)	570(14.48)	2.073(52.65)	850(21.59)	710(18.08)
8	1.498(38.05)	861 (21.87)	660(16.76)	2.073(52.65)	940(23.88)	800(20.32)

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

Dura MateTM



Circular Plastic Connectors for Heavy Duty Applications

Dura | Mate

Circular Plastic Connectors for Heavy Duty Applications Available in Size 24 with 7, 9,18, 19, 21, 23, 27, 29, 31, 35 and 47 Insert Arrangements Available in Size 18 with 14 Insert Arrangement

The Amphenol Dura | Mate[™] environmentally sealed multi-pin thermoplastic circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.



While maintaining compatibility with existing shell size 24 industry standard designs, ease of use was exceeded through enhanced ergonomics using an easy grip coupling system and visual and tactile indicators ensuring reliable mating confirmation. Wire management improvements include two different back shell systems that thread onto the rear of the connectors to provide strain relief and additional wire seal protection. The low cost, tie wrap option and the fully enclosed back shell are interchangeable for specific application requirements. Its rugged high performance capability is ideal for panel mount or in-line heavy-duty applications such as commercial vehicle, agriculture, construction or marine installations.









24-7 6 Size 12 1 Size 8 RADSOK®





24-9 1 Size 4 2 Size 8 6 Size 12





24-18 1 Size 8 3 Size 12 14 Size 16





24-19 6 Size 12 13 Size 16





24-21 4 Size 12 17 Size 16





24-23 23 Size 16





24-27 4 Size 12 23 Size 16





24-29 4 Size 12 19 Size 16 6 Size 20





24-31 31 Size 16





24-35 3 Size 16 32 Size 20





24-47 5 Size 16 42 Size 20



Features and Benefits

- Polarized for proper mating of connector halves
- High density signal and mixed power insert configurations
- Operating temperature range: -55C to +125C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight thermoplastic housings
- Contacts available in economical reel-mounted high volume machine termination or in machined loose-piece form.
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Wire entry sealing available in three separate ranges for discrete wire applications:

	Recommended W	ire Insulation Overall Diameter (OD)	
Contact Size	Normal Seal	Thin Seal	Reduced Seal
20	N/A	N/A	1.02mm (.040") - 2.41mm (.095")
16	2.54mm (.100") - 3.40 mm (.134")	2.23mm (.088") - 3.40mm (.134")	1.35mm (.053") - 3.05mm (.120")
12	3.43mm (.135") - 4.32mm (.170")	N/A	2.46mm (.097") - 4.01mm (.158")
8	4.83mm (.190") - 6.10mm (.240")	N/A	3.43mm (.135") - 5.50mm (.220")
4	N/A	N/A	6.63mm (.261") - 7.42mm (.292")

- Standard WTA(Wide Thread Adapter) provides maximum access to rear grommet and improved serviceability.
- Engineered rapid and secure mating system achieves IP69K protection from ingress of dust, water mud and other contaminants
- Redundant sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels.
- Rigid back shells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges.

Performance Specifications

Shell Specifications

Current Rating per Contact	Size 4 100A; Size 8, 60A; Size 12, 25A; Size 16, 13A; Size 20, 7.5A	Coupling Nut	Thermoplastic
Operating Temperature	-55°C to +125°C	Insulation Insert	Thermoplastic
Dielectric Withstanding Voltage	Current Leakage - 12 milliamp at 1500 VAC	Seal	Silicone Rubber
Degree of Protection	IP67/IP69K	Color	Black
Mating Cycle Durability	100 Cycles	Contact	Common System
RoHS	Compliant		

Features and Benefits (con't)

- Utilizes industry standard contact system
- Environmentally-sealed to IP69K and vibration resistant
- Wide threaded collar ring for increased serviceability and connector access (1)
- Highly visible indicators for quick alignment and 100% positive mating (2)
- Enclosed 1-piece threaded backshell with low-cost strain relief (3)
- Optional 2-piece threaded backshell with compression nut 4
- Optional Size 24 snap over staight and 90°conduit strain relief backshell (5)



7 POSITION PLUGS & RECEPTACLES





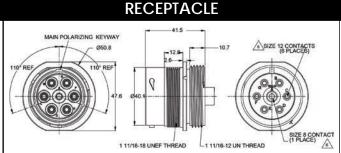
24

Contact Size	12	8
Contact Qty	6	1 RADSOK®
Seal OD Range NORMAL SEAL	3.43mm(.135") - 4.32mm (.170")	4.83mm (.190") - 6.10mm (.240")
Wire Range	10-14 AWG	7-10 AWG
Amperage	25	80





SIZE 8 CONTACT (1 PLACES) AND THE SIZE 8 CONTACT (1 PLACES)



Standard and reverse terminal genders allows for custom polarization

Part Number AHDP06-24-07SN-WTA

Gender: Standard Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 7 positions, Socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-07PN-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 7 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-07SN-WTA

See Plug column on this page for more details

Part Number Gender: Reversed AHDP06-24-07PN-WTA Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 7 positions, Pin, reverse arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-07SN-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed AHDP04-24-07SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 7 positions, Socket, reverse arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-07PN-WTA

See Plug column on this page for more details

For custom insert configurations, please call 1 800 394 7732

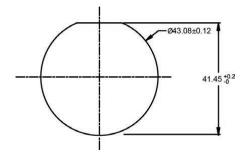


7 POSITION PLUGS & RECEPTACLES - CONTACTS

Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
8	SC000345	Machined Radsok®	Pin	7-10	80	Silver
8	SC000346	Machined Radsok®	Socket	7-10	80	Silver
8	SC000345-141	Machined	Pin	8-10	60	Nickel
8	SC000379	Machined	Socket	8-10	60	Nickel
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm



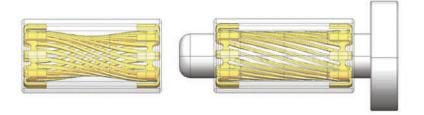




For custom insert configurations, please call 1 800 394 7732



RADSOK® Contacts





The RADSOK® Design

- Socket cylinder within female contact has several equally spaced longitudinal beams twisted into a hyperbolic shape
- As a male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss
- The hyperbolic, stamped grid configuration ensures a large, coaxial, face-to-face surface area engagement
- Ideal for crimp termination applications requiring repeated mating cycles and high current with a low multi-volt drop

RADSOK® Technical Data

High Reliability

Unique $RADSOK^{\circledR}$ design and construction technology creates an electrical contact interface that exceeds typical interconnect requirements. Applications in Aerospace, Medical, Industrial, Automotive, Mining, Offshore and other harsh environments depend on the high reliability of Amphenol $RADSOK^{\circledR}$ technology.

Low Contact Engagement/Separation Forces

The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

Low Contact Resistance

The large interface between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts high current ratings compared to traditional power contact designs.

High Mating Cycle Durability

RADSOK[®] contacts with typical silver plating finishes have demonstrated survival of 10,000 mating cycles. Even with continuous exposure to harsh environmental abuse (salt, sand and high humidity), **RADSOK**[®] contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.

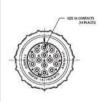
Shell Size 18

Contact Size	16
Contact Qty	14
Seal OD Range	
NORMAL SEAL	2.54mm (.100") - 3.40mm (.134")
REDUCED SEAL	1.35mm (.053") - 3.05mm (.120")
Wire Range	14-20 AWG
Amperage	13

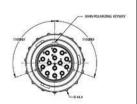


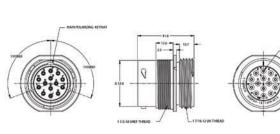


PLUG RECEPTACLE









Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-18-14SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 18 Plug with 14 positions, Socket, standard arrangement, norm`al seal, wide thread adapter

Mating Part(s): AHDP04-18-14PN-WTA, AHDP04-18-14PR-WTA

See Receptacle column on this page for more details

AHDP04-18-14PN-WTA Gender: Standard Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 18 Receptacle with 14 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-18-14\$N-WTA, AHDP06-18-14\$R-WTA

See Plug column on this page for more details

Part Number Gender: Standard Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 18 Plug with 14 positions, Socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-18-14PN-WTA, AHDP04-18-14PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 18 Receptacle with 14 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-18-14SN-WTA, AHDP06-18-14SR-WTA

See Plug column on this page for more details

For custom insert configurations, please call 1 800 394 7732



14 POSITION PLUGS & RECEPTACLES



Shell Size 18

PLUG RECEPTACLE

Part Number Gender: Reversed AHDP06-18-14PN-WTA Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 18 Plug with 14 positions, Pin, reversed arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-18-14SN-WTA, AHDP04-18-14SR-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed AHDP06-18-14PR-WTA Contact: Pin

Rear Seal Type: REDUCED SEAL Blue

Description: Size 18 Plug with 14 positions, Pin, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-18-14SN-WTA, AHDP04-18-14SR-WTA

See Receptacle column on this page for more details

AHDP04-18-14SN-WTA Gender: Reversed Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 18 Receptacle with 14 positions, Socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-18-14PN-WTA, AHDP06-18-14PR-WTA

See Plug column on this page for more details

Part Number Gender: Reversed AHDP04-18-14SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 18 Receptacle with 14 positions, Socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-18-14PN-WTA, AHDP06-18-14PR-WTA

See Plug column on this page for more details

CONTACTS

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel

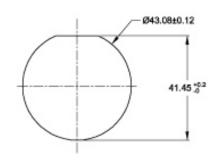


14 POSITION PLUGS & RECEPTACLES- CONTACTS (con't)

Shell Size 18

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm



Part Number AHDP18-PN01
Panel Nut, Shell Size 18



9 POSITION PLUGS & RECEPTACLES



24

Contact Size	04	08	12	
Contact Qty	1	2	6	
Seal OD Range				
REDUCED SEAL	6.63mm (.261")- 7.42mm (.292")	3.43mm (.135")- 5.59mm (.220")	2.46mm (.097") - 4.01mm (.158")	
Wire Range	6 AWG	8-10 AWG	10-14 AWG	
Amperage	100	60	25	





PLUG RECEPTACLE MAIN FOLKED RETWENT 1107 SEZE ACONTACTS OF RACES 1107 REF 1107 R

Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-24-09SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 9 positions, Socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-09PR-WTA

See Receptacle column on this page for more details

AHDP04-24-09PR-WTA Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 9 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-09SR-WTA

See Plug column on this page for more details

AHDP06-24-09PR-WTA Gender: Reversed Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug, 9 positions, Pin, reversed arrangment, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-09SR-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle, 9 positions, Socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-09PR-WTA

See Plug column on this page for more details

For custom insert configurations, please call 1 800 394 7732

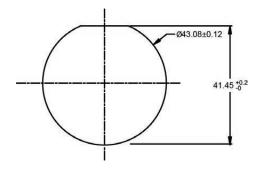


9 POSITION PLUGS & RECEPTACLES - CONTACTS

Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
04	AT60-204-0490	Machined	Pin	6	100	Nickel
04	AT62-203-04141	Machined	Socket	6	100	Nickel
08	AT62-203-08141	Machined	Socket	6	100	Nickel
08	AT60-204-08141	Machined	Pin	8-10	60	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm



Part Number AHDP24-PN01
Panel Nut, Shell Size 24



18 POSITION PLUGS & RECEPTACLES



24

Contact Size	08	12	16	
Contact Qty	1	3	14	
Seal OD Range				
NORMAL SEAL	4.83mm (.190")- 6.10mm (.240")	3.43mm (.135")- 4.32mm (.170")	2.54mm (.100")- 3.40mm (.134")	
REDUCED SEAL	3.43mm (.135")- 5.59mm (.220")	2.46mm (.097")- 4.01mm (.158")	1.35mm (.053")- 3.05mm (.120"))	
Wire Range	8-10 AWG	10-14 AWG	14-20 AWG	
Amperage	60	25	13	





RECEPTACLE *** SET IN COMPACTS | PRACES | *** SET IN COMPACTS | *

Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-24-18SN-WTA Contact: Socket

Rear Seal Type: NORMAL, GREEN

Description: Size 24 Plug, 18 positions, socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-18PN-WTA, AHDP04-24-18PR-WTA

See Receptacle column on this page for more details

AHDP06-24-18SR-WTA Gender: Standard Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug, 18 positions, socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-18PN-WTA, AHDP04-24-18PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard AHDP04-24-18PN-WTA Contact: Pin

Rear Seal Type: NORMAL, GREEN

Description: Size 24 Receptacle, 18 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-18SN-WTA, AHDP06-24-18SR-WTA

See Plug column on this page for more details

AHDP04-24-18PR-WTA Gender: Standard Contact: Pin

Rear Seal Type: NORMAL, Blue

Description: Size 24 Receptacle, 18 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-18SN-WTA, AHDP06-24-18SR-WTA

See Plug column on this page for more details

For custom insert configurations, please call 1 800 394 7732



Shell Size 24

> **PLUG RECEPTACLE**

Standard and reverse terminal genders allows for custom polarization

Part Number AHDP06-24-18PN-WTA Gender: Reversed Contact: Pin

Rear Seal Type: NORMAL, GREEN

Description: Size 24 Plug, 18 positions, pin, reversed arangment, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-18SN-WTA, AHDP04-24-18SR-WTA

See Receptacle column on this page for more details

Part Number AHDP06-24-18PR-WTA Gender: Reversed Contact: Pin

Description: Size 24 Plug, 18 positions, pin, reversed arangment, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-18SN-WTA, AHDP04-24-18SR-WTA

See Receptacle column on this page for more details

Part Number AHDP04-24-18SN-WTA

Gender: Reversed Contact: Socket

Rear Seal Type: NORMAL, GREEN

Description: Size 24 Receptacle, 18 positions, socket, reversed arrangment, normal seal, wide thread

Mating Part(s): AHDP06-24-18PN-WTA,

AHDP06-24-18PR-WTA

See Plug column on this page for more details

Part Number

AHDP04-24-18SR-WTA

Gender: Reversed Contact: Socket

Description: Size 24 Receptacle, 18 positions, socket, reversed arrangment, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-18PN-WTA, AHDP06-24-18PR-WTA

See Plug column on this page for more details

For custom insert configurations, please call 1 800 394 7732

18 POSITION PLUGS & RECEPTACLES



CONTACTS

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
08	AT60-204-08141	Machined	Pin	8-10	60	Nickel
08	AT60-203-08141	Machined	Pin	8-10	60	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel

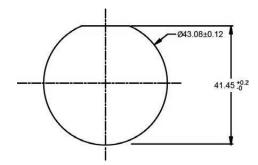


Shell Size 24





Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm



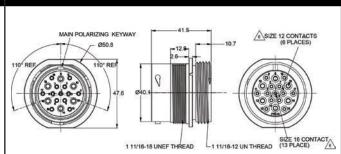


Shell Size 24

Contact Size	12	16
Contact Qty	6	13
Seal OD Range		
NORMAL SEAL	3.43mm (.135")-4.32mm (.170")	2.54mm (.100")-3.40mm (.134")
REDUCED SEAL	2.46mm (.097")-4.01mm (.158")	1.35mm (.053")-3.05mm (.120")
Wire Range	10-14 AWG	14-20 AWG
Amperage	25	13







RECEPTACLE

Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-24-19SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 19 positions, Socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-19PN-WTA, AHDP04-24-19PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 19 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-19SN-WTA, AHDP06-24-19SR-WTA

See Plug column on this page for more details

Part Number
AHDP06-24-19SR-WTA
Gender: Standard
Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 19 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-19PN-WTA, AHDP04-24-19PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 19 positions, Pin, standard arrangement, RD01 reduced diameter, wide thread adapter

Mating Part(s): AHDP06-24-19SN-WTA, AHDP06-24-19SR-WTA

See Plug column on this page for more details

PLUG

Gender: Reversed

AHDP06-24-19PN-WTA

Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 19 positions, Pin, reverse arrangement, normal seal, wide thread

adapter

Mating Part(s): AHDP04-24-19SN-WTA, AHDP04-24-19SR-WTA

See Receptacle column on this page for more details

Part Number

Gender: Reversed

AHDP06-24-19PR-WTA Contact: Pin

Description: Size 24 Plug with 19 positions, Pin, reverse arrangement, RD01 reduced diameter seal,

wide thread adapter

Mating Part(s): AHDP04-24-19SN-WTA, AHDP04-24-19SR-WTA

See Receptacle column on this page for more details

RECEPTACLE

AHDP04-24-19SN-WTA

Gender: Reversed

Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 19 positions, Socket, reverse arrangement, normal seal, wide

thread adapter

Mating Part(s): AHDP06-24-19PN-WTA,

AHDP06-24-19PR-WTA

See Plug column on this page for more details

Part Number

AHDP04-24-19SR-WTA

Gender: Reversed Contact: Socket

Description: Size 24 Receptacle with 19 positions, Socket, reverse arrangement, RD01 reduced

diameter, wide thread adapter

Mating Part(s): AHDP06-24-19PN-WTA, AHDP06-24-19PR-WTA

See Plug column on this page for more details

19 Position Plugs & Receptacles- Contacts

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel

19 POSITION PLUGS & RECEPTACLES- CONTACTS (con't)



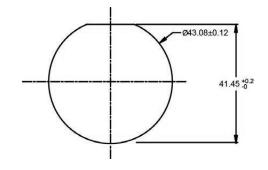
Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel





Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm



Contact Size	12	16
Contact Qty	4	17
Seal OD Range		
NORMAL SEAL	3.43mm (.135")-4.32mm (.170")	2.54mm (.100")-3.40mm (.134")
REDUCED SEAL	2.46mm (.097")-4.01mm (.158")	1.35mm (.053")-3.05mm (.120")
Wire Range	10-14 AWG	14-20 AWG
Amperage	25	13





RECEPTACLE MAIN MARIENT SEPRING MAIN MARIE

Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-24-21SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 21 positions, Socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-21PN-WTA, AHDP04-24-19PR-WTA

See Receptacle column on this page for more details

AHDP04-24-21PN-WTA Gender: Standard Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 21 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-21SN-WTA, AHDP06-24-21SR-WTA

See Plug column on this page for more details

Part Number
AHDP06-24-21SR-WTA
Gender: Standard
Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 21 positions, Socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-21PN-WTA, AHDP04-24-19PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard AHDP04-24-21PR-WTA Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 21 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-21SN-WTA, AHDP06-24-21SR-WTA

See Plug column on this page for more details



21 POSITION PLUGS & RECEPTACLES - CONTACTS





Shell Size 24

PLUG RECEPTACLE

Part Number Gender: Reversed AHDP06-24-21PN-WTA Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 21 positions, Pin, reversed arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-21SN-WTA, AHDP04-24-21SR-WTA

See Receptacle column on this page for more details

See Plug column on this page for more details

Part Number Gender: Reversed AHDP06-24-21PR-WTA Contact: Pin

Description: Size 24 Plug with 21 positions, Pin, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-21SN-WTA, AHDP04-24-21SR-WTA

See Receptacle column on this page for more details

Gender: Reversed AHDP04-24-21SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 21 positions, Socket, reversed arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-21PN-WTA, AHDP06-24-21PR-WTA

Part Number Gender: Reversed

Contact: Socket

AHDP04-24-21SR-WTA

Description: Size 24 Receptacle with 21 positions, Socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-21PN-WTA, AHDP06-24-21PR-WTA

See Plug column on this page for more details

21 Position Plugs & Receptacles- Contacts

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel



21 POSITION PLUGS & RECEPTACLES- CONTACTS (con't)

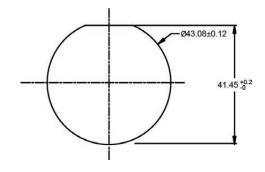
Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel





Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm





Shell Size 24

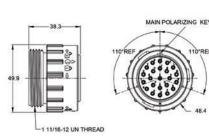
Contact Size	16
Contact Qty	23
Seal OD Range	
NORMAL SEAL	2.54mm (.100") - 3.40mm (.134")
REDUCED SEAL	1.35mm (.053") - 3.05mm (.120")
Wire Range	14-20 AWG
Amperage	13

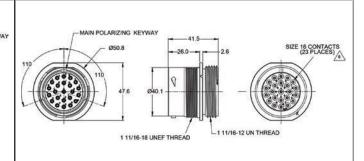




UG RECEPTACLE







Standard and reverse terminal genders allows for custom polarization

Part Number
AHDP06-24-23SN-WTA

Gender: Standard Contact: Socket

Rear Seal Type: NORMAL SEAL, Blue

Description: Size 24 Plug with 23 positions, Socket, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP04-24-23PN-WTA, AHDP04-24-23PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard AHDP04-24-23PN-WTA Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 23 positions, Pin, standard arrangement, normal seal, wide thread adapter

Mating Part(s): AHDP06-24-23SN-WTA, AHDP06-24-23SR-WTA

See Plug column on this page for more details

Part Number AHDP06-24-23SR-WTA

Gender: Standard Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-23PN-WTA, AHDP04-24-23PR-WTA

See Receptacle column on this page for more details

Part Number
AHDP04-24-23PR-WTA

Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 23 positions, Pin, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-23SN-WTA, AHDP06-24-23SR-WTA

See Plug column on this page for more details



PLUG

Gender: Reversed

AHDP06-24-23PN-WTA Contact: Pin

Rear Seal Type: NORMAL, Green

Description: Size 24 Plug with 23 positions, Pin, reverse arrangement, normal seal, wide thread

adapter

Part Number

Shell Size 24

Mating Part(s): AHDP04-24-23SN-WTA, AHDP04-24-23SR-WTA

See Receptacle column on this page for more details

Part Number AHDP06-24-23PR-WTA

Gender: Reversed Contact: Pin

Description: Size 24 Plug with 23 positions, Pin, reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-23SN-WTA, AHDP04-24-23SR-WTA

See Receptacle column on this page for more details

RECEPTACLE

Part Number

Gender: Reversed AHDP04-24-23SN-WTA Contact: Socket

Rear Seal Type: NORMAL, Green

Description: Size 24 Receptacle with 23 positions, Socket, reverse arrangement, normal seal, wide

thread adapter

Mating Part(s): AHDP06-24-23PN-WTA, AHDP06-24-23PR-WTA

See Plug column on this page for more details

Part Number

AHDP04-24-23SR-WTA

Gender: Reversed Contact: Socket

Description: Size 24 Receptacle with 23 positions, Socket, reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-23PN-WTA, AHDP06-24-23PR-WTA

See Plug column on this page for more details

23 Position Plugs & Receptacles - Contacts

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold

For custom insert configurations, please consult factory



23 POSITION PLUGS & RECEPTACLES - CONTACTS

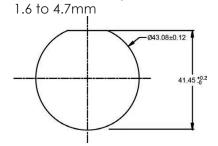




Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold

Recommended Panel Mounting Hole Recommended panel thickness:







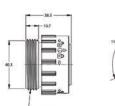


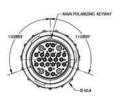
Contact Size	12	16
Contact Qty	4	23
Seal OD Range		
REDUCED SEAL	2.46mm (.097")-4.01mm (.158")	1.35mm (.053")-3.05mm (.120")
Wire Range	10-14 AWG	14-20 AWG
Amperage	25	13



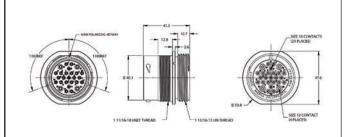


PLUG





RECEPTACLE



Standard and reverse terminal genders allows for custom polarization

Part Number
AHDP06-24-27SR-WTA

Gender: Standard Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 27 positions, Socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-27PR-WTA

See Receptacle column on this page for more details

Part Number CHAPP04-24-27PR-WTA

Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 27 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-27SR-WTA

See Plug column on this page for more details

Part Number AHDP06-24-27PR-WTA Gender: Reversed Contact: Pin

Rear Seal Type: REDLICED SEAL Blue

Description: Size 24 Plug with 27 positions, Pin, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-27SR-WTA

See Receptacle column on this page for more details

Part Number AHDP04-24-27SR-WTA

Gender: Reversed Contact: Socket

Rear Seal Type: REDUCED SEAL Blue

Description: Size 24 Receptacle with 27 positions, Socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-27PR-WTA

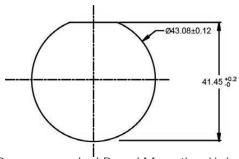
See Plug column on this page for more details



27 Position Plugs & Receptacles- Contacts

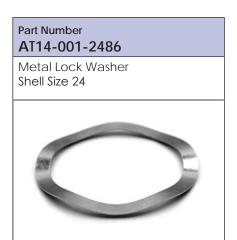
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel





Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm

Part Number AHDP24-PN01
Panel Nut, Shell Size 24





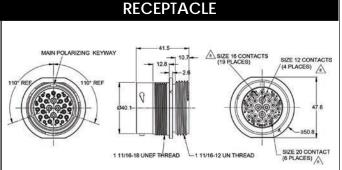
Shell Size 24

Contact Size	20	16	12
Contact Qty	6	19	4
Seal OD Range			
REDUCED SEAL	1.02mm (.040'') - 2.41mm (.095'')	1.35mm (.053") - 3.05mm (.120")	2.46mm (.097'') - 4.01mm (.158'')
Wire Range	16-22 AWG	14-20 AWG	10-14 AWG
Amperage	7.5	13	25





PLUG SIZE 16 CONTACTS (19 PLACES) MAIN POLARIZING KEYWAY 110 REF 110 REF 110 REF 110 REF 110 REF 110 REF 111 REF 110 REF 110 REF 110 REF 110 REF



Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard AHDP06-24-29SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 29 positions, Socket standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-29PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 29 positions, Pin, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-29SR-WTA

See Plug column on this page for more details

Part Number Gender: Reversed Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 29 positions, Pin reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-29SR-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed AHDP04-24-29SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 29 positions, Socket, reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-29PR-WTA

See Plug column on this page for more details





29 POSITION PLUGS & RECEPTACLES - CONTACTS

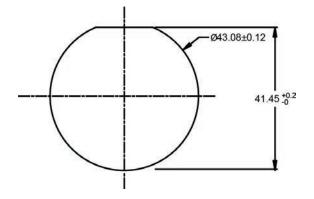
Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25	Nickel
12	AT60-12-0244	Stamped & Formed	Pin	10-12	25	Gold
12	AT62-12-0222	Stamped & Formed	Socket	10-12	25	Nickel
12	AT62-12-0244	Stamped & Formed	Socket	10-12	25	Gold
12	AT60-12-0166	Stamped & Formed	Pin	12-14	25	Nickel
12	AT60-12-0144	Stamped & Formed	Pin	12-14	25	Gold
12	AT62-12-0166	Stamped & Formed	Socket	12-14	25	Nickel
12	AT62-12-0144	Stamped & Formed	Socket	12-14	25	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
20	AT60-202-20141	Machined	Pin	20-22	7.5	Nickel
20	AT60-202-2031	Machined	Pin	20-22	7.5	Gold
20	AT62-201-20141	Machined	Socket	20-22	7.5	Nickel
20	AT62-201-2031	Machined	Socket	20-22	7.5	Gold
20	AT60-20-0122	Stamped & Formed	Pin	16-22	7.5	Nickel
20	AT60-20-0144	Stamped & Formed	Pin	16-22	7.5	Gold
20	AT62-20-0122	Stamped & Formed	Socket	16-22	7.5	Nickel
20	AT62-20-0144	Stamped & Formed	Socket	16-22	7.5	Gold



Shell Size 24

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm









24

31 POSITION PLUGS & RECEPTACLES

Con
Con
Seal

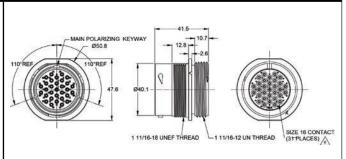
Contact Size	16
Contact Qty	31
Seal OD Range	
REDUCED SEAL	1.35mm (.053") - 3.05mm (.120")
THIN SEAL	2.23mm (.088") - 3.40mm (.134")
Wire Range (AWG)	14-20 AWG
Amperage	13





RECEPTACLE

SIZE 16 CONTACT (31 PLACES) 1 11/16-12 UN THREAD



Standard and reverse terminal genders allows for custom polarization

Part Number

Gender: Standard AHDP06-24-31SR-WTA Contact: Socket

Description: Size 24 Plug with 31 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-31PR-WTA, AHDP04-24-31PT-WTA

See Receptacle column on this page for more details

Part Number

AHDP04-24-31PR-WTA

Gender: Standard Contact: Pin

Description: Size 24 Receptacle with 31 positions, Pin, standard arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-31SR-WTA, AHDP06-24-31ST-WTA

See Plug column on this page for more details

Part Number AHDP06-24-31ST-WTA

Gender: Standard Contact: Socket

Rear Seal Type: THIN SEAL, Grey

Description: Size 24 Plug with 31 positions, Socket, standard arrangement, thin seal, wide thread adapter

Mating Part(s): AHDP04-24-31PR-WTA, AHDP04-24-31PT-WTA

See Receptacle column on this page for more details

Part Number AHDP04-24-31PT-WTA Gender: Standard Contact: Pin

Rear Seal Type: THIN SEAL, Grey

Description: Size 24 Receptacle with 31 positions, Pin, standard arrangement, thin seal, wide thread adapter

Mating Part(s): AHDP06-24-31SR-WTA, AHDP06-24-31ST-WTA

See Plug column on this page for more details





Gender: Reversed

Shell Size 24

PLUG RECEPTACLE

Part Number

Part Number Gender: Reversed AHDP06-24-31PR-WTA Contact: Pin

Description: Size 24 Plug with 31 positions, Pin, reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP04-24-31SR-WTA, AHDP04-24-31ST-WTA

See Receptacle column on this page for more details

AHDP04-24-31SR-WTA Contact: Socket

Description: Size 24 Receptacle with 31 positions, Socket, reverse arrangement, RD01 reduced diameter seal, wide thread adapter

Mating Part(s): AHDP06-24-31PR-WTA, AHDP06-24-31PT-WTA

See Plug column on this page for more details

Part Number Gender: Reversed AHDP06-24-31PT-WTA Contact: Pin

Rear Seal Type: THIN SEAL, Grey

Description: Size 24 Plug with 31 positions, Pin, reverse arrangement, thin seal, wide thread adapter

Mating Part(s): AHDP04-24-31SR-WTA, AHDP04-24-31ST-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed AHDP04-24-31ST-WTA Contact: Socket

Rear Seal Type: THIN SEAL, Grey

Description: Size 24 Receptacle with 31 positions, Socket, reverse arrangement, thin seal, wide thread adapter

Mating Part(s): AHDP06-24-31PR-WTA, AHDP06-24-31PT-WTA

See Plug column on this page for more details

31 Pin Plugs & Receptacles - Contacts

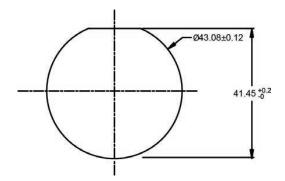
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold



Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold

Recommended Panel Mounting Hole Recommended Panel thickness: 1.6 to 4.7mm









Shell Size 24

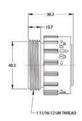
Contact Size	20	16
Contact Qty	32	3
Seal OD Range		
REDUCED SEAL	1.02mm (.040'') - 2.41mm (.095")	1.35mm (.053") - 3.05mm (.120")
Wire Range	16-22 AWG	14-20 AWG
Amperage	7.5	13

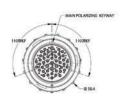


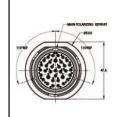


PLUG RECEPTACLE













Standard and reverse terminal genders allows for custom polarization

Part Number Gender: Standard
AHDP06-24-35SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug, 35 positions, socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-35PR-WTA, AHDP04-24-35PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle, 35 positions, pin, standard arrangement, reduced seal wide thread adapter

Mating Part(s): AHDP06-24-35SR-WTA, AHDP06-24-35SR-WTA

See Plug column on this page for more details

Part Number Gender: Reversed Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug, 35 positions, pin, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-35SR-WTA, AHDP04-24-35SN-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle, 35 positions, socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-47PR-WTA

See Plug column on this page for more details



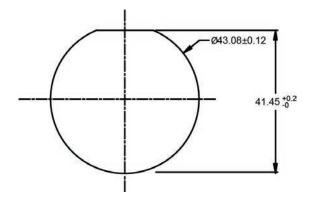
35 POSITION PLUGS & RECEPTACLES - CONTACTS

24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
20	AT60-202-20141	Machined	Pin	20-22	7.5	Nickel
20	AT60-202-2031	Machined	Pin	20-22	7.5	Gold
20	AT62-201-20141	Machined	Socket	20-22	7.5	Nickel
20	AT62-201-2031	Machined	Socket	20-22	7.5	Gold
20	AT60-20-0122	Stamped & Formed	Pin	16-22	7.5	Nickel
20	AT60-20-0144	Stamped & Formed	Pin	16-22	7.5	Gold
20	AT62-20-0122	Stamped & Formed	Socket	16-22	7.5	Nickel
20	AT62-20-0144	Stamped & Formed	Socket	16-22	7.5	Gold

Shell Size 24

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm









47 POSITION PLUGS & RECEPTACLES - CONTACTS

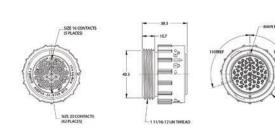
Shell Size 24

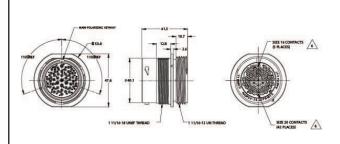
Contact Size	20	16
Contact Qty	42	5
Seal OD Range		
REDUCED SEAL	1.02mm (.040'') - 2.41mm (.095")	1.35mm (.053") - 3.05mm (.120")
Wire Range	16-22 AWG	14-20 AWG
Amperage	7.5	13





PLUG RECEPTACLE





Standard and reverse terminal genders allows for custom polarization

Part Number

AHDP06-24-47SR-WTA

Gender: Standard
Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 47 positions, Socket, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-47PR-WTA

See Receptacle column on this page for more details

Part Number Gender: Standard Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 47 positions, Pin, standard arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-47SR-WTA

See Plug column on this page for more details

Part Number
AHDP06-24-47PR-WTA
Gender: Reversed
Contact: Pin

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Plug with 47 positions, Pin, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP04-24-47SR-WTA

See Receptacle column on this page for more details

Part Number Gender: Reversed AHDP04-24-47SR-WTA Contact: Socket

Rear Seal Type: REDUCED SEAL, Blue

Description: Size 24 Receptacle with 47 positions, Socket, reversed arrangement, reduced seal, wide thread adapter

Mating Part(s): AHDP06-24-47PR-WTA

See Plug column on this page for more details



47 Position Plugs & Receptacles



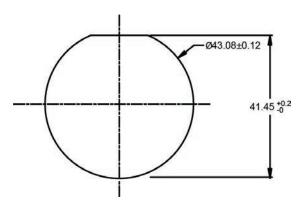


Shell Size 24

Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT62-201-16141	Machined	Socket	16-20	13	Nickel
16	AT62-201-1631	Machined	Socket	16-20	13	Gold
16	AT60-14-0122	Stamped & Formed	Pin	14-16	13	Nickel
16	AT60-14-0144	Stamped & Formed	Pin	14-16	13	Gold
16	AT62-14-0122	Stamped & Formed	Socket	14-16	13	Nickel
16	AT62-14-0144	Stamped & Formed	Socket	14-16	13	Gold
16	AT60-16-0122	Stamped & Formed	Pin	16-18	13	Nickel
16	AT60-16-0144	Stamped & Formed	Pin	16-18	13	Gold
16	AT62-16-0122	Stamped & Formed	Socket	16-18	13	Nickel
16	AT62-16-0144	Stamped & Formed	Socket	16-18	13	Gold
16	AT60-16-0622	Stamped & Formed	Pin	18-20	13	Nickel
16	AT60-16-0644	Stamped & Formed	Pin	18-20	13	Gold
16	AT62-16-0622	Stamped & Formed	Socket	18-20	13	Nickel
16	AT62-16-0644	Stamped & Formed	Socket	18-20	13	Gold
20	AT60-202-20141	Machined	Pin	20-22	7.5	Nickel
20	AT60-202-2031	Machined	Pin	20-22	7.5	Gold
20	AT62-201-20141	Machined	Socket	20-22	7.5	Nickel
20	AT62-201-2031	Machined	Socket	20-22	7.5	Gold
20	AT60-20-0122	Stamped & Formed	Pin	16-22	7.5	Nickel
20	AT60-20-0144	Stamped & Formed	Pin	16-22	7.5	Gold
20	AT62-20-0122	Stamped & Formed	Socket	16-22	7.5	Nickel
20	AT62-20-0144	Stamped & Formed	Socket	16-22	7.5	Gold

Shell Size 24

Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm







Part Number WA23-DS

Heavy Duty Pneumatic Crimp Tool



Part Number WA23-138DA

Die Assembly for WA23-DS Heavy Duty Pneumatic Crimp Tool, Size 4



Part Number WA23-2

Die Assembly for WA23-DS Heavy Duty Pneumatic Crimp Tool, Size 8



Part Number WA23-11

Contact Locater, Size 4



Part Number WA23-10

Contact Locater, Size 8



Part Number MFX-3973

Size 12 Crimp Die for Stamped and Formed Contacts



Part Number MFX-3950

Size 16 Crimp Die for Stamped and Formed Contacts 18-20 AWG



Part Number MFX-3953

Size 16 Crimp Die for Stamped and Formed Contacts 16-18 AWG



Part Number MFX-3974

Size 20 Crimp Die for Stamped and Formed Contacts



Part Number CA-5D12

Universal Hand Crimp Tool, Size 12/16/20 Solid Contacts Only



Part Number CA-5E12

Pneumatic Crimp Tool, Size 12/16/20 Solid Contacts Only



Part Number ATT-20-00

Size 20 Stamped and Formed Contact Tool 20 AWG



Part Number ATT-16-00

Size 16 Stamped and Formed Contact Tool 14-16 AWG



Part Number ATT-16-01

Size 16 Stamped and Formed Contact Tool 18-20 AWG



Part Number ATT-12-00

Size 12 Stamped and Formed Contact Tool 12 AWG



Part Number **AT11-240-2005**

Contact Removal Tool, plastic, Size 20



Part Number AT11-310-1605

Contact Removal Tool, plastic Size 16



Part Number **AT11-337-1205**

Contact Removal Tool, plastic Size 12



Part Number AT11-001-3.6M

Contact Removal Tool, plastic Size 8 (3.6 mm)



Part Number AT114008

Contact Removal Tool, plastic Size 8



Part Number **AT11-027-0405**

Contact Removal Tool, plastic Size 4, 4AWG



Part Number AT114009

Contact Removal Tool, plastic Size 4, 6AWG



DURAMATE ACCESSORIES

Part Number AHDPBS-0406-001

Size 24 Backshell WTA



Part Number AHDPBS-0406-002

Size 24 Backshell WTA with compression nut Cable diameter range: .57-.71"



Part Number AHDPBS-0406-003

Size 24 Backshell WTA with compression nut

Cable diameter range: ..76-.95"



Part Number AHDPBS-18-001

Size 18 Backshell WTA



Part Number AHDPBS-18-002

Size 18 Backshell WTA with compression nut . Cable diameter range 14.5mm - 18.0mm



Part Number AHDPBS-010-2405

Size 24 Backshell, Conduit snap over straight



Part Number AHDPBS-011-2405

Size 24 Backshell, Conduit snap over right angle



Part Number AHDP-16-04477

Size 24 Rubber Flange Seal



Part Number AHDP-16-04978

Size 18 Rubber Flange Seal



Part Number AHDC04-18

Size 18 Plug cap, sealed



Part Number AHDC06-18

Size 18 Receptacle cap, sealed



Part Number AHDC06-24

Size 24 Receptacle cap, sealed



Part Number AHDC04-24-PM

Size 24 Protective Plug Cap threaded and sealed



Part Number AHDC04-24-PMT

Size 24 Protective Plug Cap threaded and sealed with tether



Part Number AHDC04-24

Size 24 Protective Plug Cap,



Part Number AHDC04-24-T

Size 24 Protective Plug Cap, sealed with tether



Part Number A114018

Seal Plug, Size 8, 8-10 AWG



Part Number A114019

Seal Plug, Size 4, 4-6 AWG



Part Number Cross Reference

Comp	etitor's Compatible Part	Number	Amphenol PN	Page
Exclu	sive to Amphenol Sine S	ystems	AHDP06-24-07SN-WTA	133
Exclu	sive to Amphenol Sine S	ystems	AHDP04-24-07PN-WTA	133
Exclu	sive to Amphenol Sine S	ystems	AHDP06-24-07PN-WTA	133
Exclu	sive to Amphenol Sine S	ystems	AHDP04-24-07SN-WTA	133
HDP26-18-14SN	HDP26-18-14SN-L015	HDP26-18-14SN-L024	AHDP06-18-14SN-WTA	134
HDP26-18-14SE	HDP26-18-14SE-L015	HDP26-18-14SE-L024	AHDP06-18-14SR-WTA	134
HDP24-18-14PN	HDP24-18-14PN-L015	HDP24-18-14PN-L024	AHDP04-18-14PN-WTA	134
HPD24-18-14PE	HPD24-18-14PE-L015	HPD24-18-14PE-L024	AHDP04-18-14PR-WTA	134
HDP26-18-14PN	HDP26-18-14PN-L015	HDP26-18-14PN-L024	AHDP06-18-14PN-WTA	135
HDP26-18-14PE	HDP26-18-14PE-L015	HDP26-18-14PE-L024	AHDP06-18-14PR-WTA	135
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HDP26-24-19SN	HDP26-24-19\$N-L015	HDP26-24-19SN-L024	AHDP06-24-19SN-WTA	143
HDP26-24-19SE	HDP26-24-19SE-L015	HDP26-24-19SE-L024	AHDP06-24-19SR-WTA	143
HDP24-24-19PN	HDP24-24-19PN-L015	HDP24-24-19PN-L024	AHDP04-24-19PN-WTA	143
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HDP26-24-19PN	HDP26-24-19PN-L015	HDP26-24-19PN-L024	AHDP06-24-19PN-WTA	144
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HDP24-24-19SN	HDP24-24-19\$N-L015	HDP24-24-19SN-L024	AHDP04-24-19SN-WTA	144
HDP24-24-19SE	HDP24-24-19SE-L015	HDP24-24-19SE-L024	AHDP04-24-19SR-WTA	144
HDP26-24-21SN	HDP26-24-21SN-L015	HDP26-24-21SN L024	AHDP06-24-21SN-WTA	146
HDP26-24-21SE	HDP26-24-21SE-L015	HDP26-24-21SE L024	AHDP06-24-21SR-WTA	146
HDP24-24-21PN	HDP24-24-21PN-L015	HDP24-24-21PN L024	AHDP04-24-21PN-WTA	146
HPD24-24-21PE	HPD24-24-21PE-L015	HPD24-24-21PE L024	AHDP04-24-21PR-WTA	146
HDP26-24-21PN	HDP26-24-21PN-L015	HDP26-24-21PN L024	AHDP06-24-21PN-WTA	147
HDP24-24-21SN	HDP24-24-21SN-L015	HDP24-24-21SN L024	AHDP06-24-21PR-WTA	147
HDP24-24-21SN	HDP24-24-21SN-L015	HDP24-24-21SN L024	AHDP04-24-21SN-WTA	147
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HDP26-24-23PN	HDP26-24-23PN-L015	HDP26-24-23PN-L024	AHDP06-24-23PN-WTA	151
HDP26-24-23PE	HDP26-24-23PE-L015	HDP26-24-23PE-L024	AHDP06-24-23PR-WTA	151
HDP24-24-23SN	HDP24-24-23SN-L015	HDP24-24-23SN-L024	AHDP04-24-23SN-WTA	151
HDP24-24-23SE	HDP24-24-23SE-L015	HDP24-24-23SE-L024	AHDP04-24-23SR-WTA	151

Part Number Cross Reference (con't)

DURA | MATE CROSS REFERENCE

Compe	titor's Compatible Part	Number	Amphenol PN	Page
Exclus	Exclusive to Amphenol Sine Systems		AHDP06-24-27SR-WTA	152
Exclus	ive to Amphenol Sine S	ystems	AHDP04-24-27PR-WTA	152
Exclus	ive to Amphenol Sine S	ystems	AHDP06-24-27PR-WTA	153
Exclus	ive to Amphenol Sine S	ystems	AHDP04-24-27SR-WTA	153
HDP24-24-29PE	HDP24-24-29PE-L015	HDP24-24-29PE-L024	AHDP04-24-29PR-WTA	155
HDP26-24-29PE	HDP26-24-29PE-L015	HDP26-24-29PE-L024	AHDP06-24-29PR-WTA	155
HDP24-24-29SE	HDP24-24-29SE-L015	HDP24-24-29SE-L024	AHDP04-24-29SR-WTA	155
HDP24-24-29SE	HDP24-24-29SE-L015	HDP24-24-29SE-L024	AHDP06-24-29SR-WTA	155
HDP26-24-31SE	HDP26-24-31SE-L015	HDP26-24-31SE-L024	AHDP06-24-31SR-WTA	159
HDP26-24-31ST	HDP26-24-31ST-L015	HDP26-24-31ST-L024	AHDP06-24-31ST-WTA	159
HDP24-24-31PE	HDP24-24-31PE-L015	HDP24-24-31PE-L024	AHDP04-24-31PR-WTA	159
HDP24-24-31PT	HDP24-24-31PT-L015	HDP24-24-31PT-L024	AHDP04-24-31PT-WTA	159
HDP26-24-31PE	HDP26-24-31PE-L015	HDP26-24-31PE-L024	AHDP06-24-31PR-WTA	159
HDP26-24-31PT	HDP26-24-31PT-L015	HDP26-24-31PT-L024	AHDP06-24-31PT-WTA	159
HDP24-24-31SE	HDP24-24-31SE-L015	HDP24-24-31SE-L024	AHDP04-24-31SR-WTA	159
HDP24-24-31ST	HDP24-24-31ST-L015	HDP24-24-31ST-L024	AHDP04-24-31ST-WTA	159
HDP26-24-47SE	HDP26-24-47SE-L015	HDP26-24-47SE-L024	AHDP06-24-47SR-WTA	165
HDP26-24-47PE	HDP26-24-47PE-L015	HDP26-24-47PE-L024	AHDP06-24-47PR-WTA	165
HPD24-24-47PE	HPD24-24-47PE-L015	HPD24-24-47PE-L024	AHDP04-24-47PR-WTA	165
HDP24-24-47SE	HDP24-24-47SE-L015	HDP24-24-47SE-L024	AHDP04-24-47SR-WTA	165

$\mathbf{Hydro} \, | \mathbf{Net}^{\mathsf{TM}}$

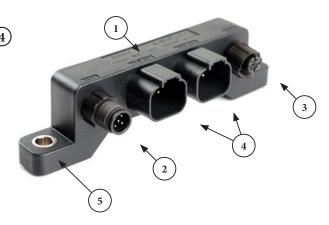


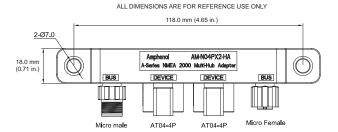
Hydro | Net™ Series

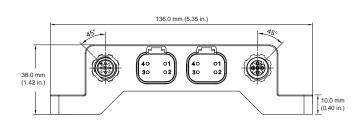
Feature & Benefits

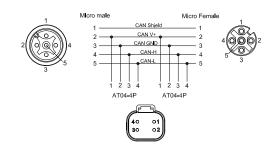
- Provides OEM's flexibility and increased reliability when connecting multiple devices to NMEA 2000 network
- Two 4 pin AT/DT interfaces easily adapts devices to field proven, sealed, and serviceable electrical connections
- Powers the NMEA network in a rugged, compact, and environmentally sealed package
- Factory assembled for true Plug and Play capability
- Reduces the need to modify or assemble NMEA connections onto cables
- Allows for customized and built-to-length electrical harnesses eliminating costly coils of unused cable
- Factory assembled part for simplified mounting
- Environmentally-sealed to IP67 rating
- Rugged thermoplastic overmold (UL94-V0) (1)
- Micro NMEA Male $\stackrel{\frown}{2}$ and Female $\stackrel{\frown}{3}$
- 2 Four (4) position receptacles (AT/DT) with gold pins (4)
- Stainless steel inserts for mounting (5)











Performance and Material Specifications

Current Rating	4A	
Voltage Rating	60V AC/DC	
Operating Temperature	-20°C to +130°C	
Dielectric Withstanding Voltage	Less than 2 milliamps current leakage @ 1000 Volts AC	
Degree of Protection	IP67 (Mated condition)	
Degree of Pollution	3 per UL840	
Overvoltage Category	III per UL840	
Mating Cycle Durability	>100 cycles	

RoHS	Compliant
Coupling Nut	PA66 UL94V-0
Insulation Insert	PA66, UL94 V0
Seal	Silicon Rubber
Overmold Material	Thermoplastic
Color	Black
Contact	Gold Flash-plating over Copper Alloy



HydroNet 4 POSITIONS AT NMEA ADAPTER

Performance and Material Specifications

Current Rating	4A
Voltage Rating	60V AC/DC
Operating Temperature	-20°C to +130°C
Dielectric Withstanding Voltage	Less than 2 milliamps current leakage @ 1000 Volts AC
Degree of Protection	IP67 (Mated condition)
Degree of Pollution	3 per UL840
Overvoltage Category	III per UL840
Mating Cycle Durability	>100 cycles

Compliant
PA66 UL94V-0
PA66, UL94 V0
Silicon Rubber
Thermoplastic
Black
Gold Flash-plating over Copper Alloy















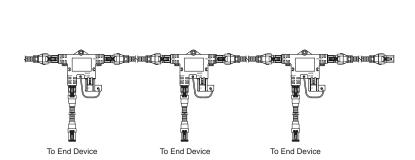
-	
Part Number	Description
AM-N04PX2-HA	Multi-Hub, Hydro Net Adapter, AT/ NMEA 2000
AM-N05-TEE	Multi-Hub, Tee, NMEA 2000
AM-N05P-TERM	Multi-Hub, Terminator Plug, NMEA 2000, Male Pin w/ LED
AM-N05S-TERM	Multi-Hub, Terminator Plug, NMEA 2000, Female Socket w/ LED
AM-N05PS-M0.3	Double-ended, NMEA 2000, M/F Plug, 0.3 Meter
AM-N05PS-M1	Double-ended, NMEA 2000, M/F Plug, 1 Meter
AM-N05PS-M3	Double-ended, NMEA 2000, M/F Plug, 3 Meter
AM-N05PS-M5	Double-ended, NMEA 2000, M/F Plug, 5 Meter
AM-N05PS-M9	Double-ended, NMEA 2000, M/F Plug, 9 Meter
AM-N05PS-M20	Double-ended, NMEA 2000, M/F Plug, 20 Meter
AM-N05P-M0.3	Single-ended, NMEA 2000, Plug, Male Pin, 0.3 Meter
AM-N05P-M1	Single-ended, NMEA 2000, Plug, Male Pin, 1 Meter
AM-N05P-M3	Single-ended, NMEA 2000, Plug, Male Pin, 3 Meter
AM-N05P-M5	Single-ended, NMEA 2000, Plug, Male Pin, 5 Meter
AM-N05P-M9	Single-ended, NMEA 2000, Plug, Male Pin, 9 Meter
AM-N05P-M20	Single-ended, NMEA 2000, Plug, Male Pin, 20 Meter
AM-N05S-M0.3	Single-ended, NMEA 2000, Plug, Female Socket, 0.3 Meter
AM-N05S-M1	Single-ended, NMEA 2000, Plug, Female Socket, 1 Meter
AM-N05S-M3	Single-ended, NMEA 2000, Plug, Female Socket, 3 Meter
AM-N05S-M5	Single-ended, NMEA 2000, Plug, Female Socket, 5 Meter
AM-N05S-M9	Single-ended, NMEA 2000, Plug, Female Socket, 9 Meter
AM-N05S-M20	Single-ended, NMEA 2000, Plug, Female Socket, 20 Meter
ATO4-4P-KITO1	AT, 4P, Kit Wedge & Contacts
AT4PS-CKIT	AT, Complete Pin & Socket Wedge Kit

Multi | MateTM



Multi | Mate™ Series

Trunk (Size 12, 25A Max) and Drop (Size 16, 13A Max), or Trunk (Size 16, 13A Max) and Drop (Size 16, 13A Max)





The Amphenol Multi | Mate™ expands upon the proven reliability of the A Series™ environmentally sealed thermoplastic connection system with rugged over-molded "Plug & Play" connection types for power, signal and data for your diverse electrical requirements. Today's ever evolving wiring protocols have dictated the rapid acceleration of "Quick-Connect" topologies increasing designers options with streamlined and proven connectivity systems. The objective is to provide cost reductions within all phases of design, installation and service of pre-existing electrical architectures by simplifying your wiring requirements.

Built upon the versatility and economy of the A Series[™] product line, a full complement of options including high impact resistant connectors, contacts and accessory options are readily available to meet your changing demands. Cable requirements can be ordered as complete assemblies direct from Amphenol or assembled at time of installation, this system is ideal for heavy-duty applications such as commercial vehicle, agriculture, construction or marine installations.

Features and Benefits

- Rapid install due to scalable modular design at startup
- Faster commissioning with reliable "Plug & Play" capability dramatically reduces cost
- Fuse protection provides protection for "Drop" device.
- Lower fused values possible at device versus main "Trunk"
- Accepts any standard automotive "ATO" fuse
- · Quick disconnects minimize downtime from removal or replacement of failed equipment
- High strength impact resistant & lightweight thermoplastic housings
- Contacts available in economical reel-mounted high volume machine termination or machined loose-piece form
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Engineered rapid and secure mating system achieves IP67 protection from ingress of dust, water mud and other contaminants
- Redundant sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels.
- Rigid back shells provide strain-relief for convoluted tubing.

The Multi|Mate[™] system meets all the performance criteria and specifications of the AT and ATP Series[™] of connectors. For more information, refer to the AT and ATP Series[™] documentation found online, or contact Customer Service.

MULTI | MATE SERIES PLUGS, RECEPTACLES & HARNESSES



AT 2 Pos.





AT 2 Pos Recep.







AT 4 Pos Recep.

S.	Part Number	Description - Panel Mount Receptacles with Wire Leads
	P31142-XX	ATP, 2 Position Panel Recep., Male(Size 12) with 12AWG Wire Leads, 25A
S.	P31143-XX	ATP, 4 Position Panel Recep., Male(Size 12) with 12AWG Wire Leads, 25A
	P31144-XX	AT, 2 Position Panel Recep., Male(Size 16) with 14AWG Wire Leads, 13A
	P31145-XX	AT, 4 Position Panel Recep., Male(Size 16) with 14AWG Wire Leads, 13A

ATP 2 Pos. Plug





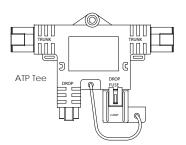


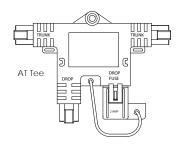






ATP 4 Pos. Recep.





ATP Double-ended Harness "Trunk"



AT Double-ended Harness "Trunk"



AT Double-ended Harness "Drop"



Part Number	Description - Tee's	
P31134	ATP, Tee, 2 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder	
P31135 ATP, Tee, 2 Position Recep., Male 25A (Trunk), Recep. Male, 13A (Drop)		
P31136 ATP, Tee, 4 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop) w/ fuse		
P31137	ATP, Tee, 4 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop)	
P31138	AT, Tee, 2 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder	
P31139	AT, Tee, 2 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop)	
P31140	AT, Tee, 4 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder	
P31141	AT, Tee, 4 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop)	

Part Number	Description - Double-ended Harness "Trunk"
P31146-XX	ATP, 2 Position Plug(Size 12) Double-ended Harness Female, w/ 12AWG Wire Leads & Tubing, 25A
P31147-XX	ATP, 4 Position Plug(Size 12) Double-ended Harness Female, w/ 12AWG Wire Leads & Tubing, 25A
P31148-XX	ATP, 4 Position Double-ended Harness Plug Female, w/ 2 Pos.(Size 12) 12AWG(25A) & 2 Pos., "Can Lo/Can Hi" 18AWG, with Tubing
P31149-XX	AT, 2 Position(Size 16) Double-ended Harness Plug Female, w/ 16AWG Wire Leads & Tubing, 13A
P31150-XX	AT, 4 Position(Size 16) Double-ended Harness Plug Female, w/ 16AWG Wire Leads & Tubing, 13A
P31151-XX	AT, 4 Position Double-ended Harness Plug Female, w/ 2 Pos.(Size 16) 16AWG(13A) & 2 Pos., "Can Lo/Can Hi" 18AWG, with Tubing

Part Number	Description - Double-ended Harness "Drop"
P31170-XX	AT, 2 Position, (Size 16) Double-ended Harness Plug Female w/ 16AWG Wire Leads & Tubing, 13A
P31171-XX	AT, 4 Position, (Size 16) Double-ended Harness Plug Female w/ 16AWG Wire Leads & Tubing, 13A

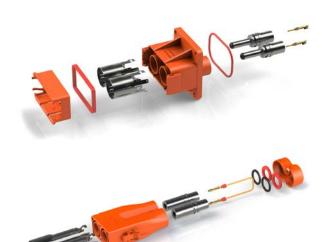
Part Number	Description - Plug "Terminators"			
P31172	AT, 2 Position, Plug Terminator Female, (Size 16)			
P31173	AT, 4 Position, Plug Terminator Female, (Size 16)			
P31174	AT, 4 Position, Plug Terminator Female, (Size 16) w/ 120 ohm resistor			
P31175	ATP, 2 Position, Plug Terminator Female, (Size 12)			
P31176	ATP, 4 Position, Plug Terminator Female, (Size 12)			
P31177	ATP, 4 Position, Plug Terminator Female, (Size 12) w/ 120 ohm resistor			

Magna MateTM



Magna | Mate™ Series ² Positions

- Designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries.
- Features Amphenol's RADSOK contact technology
- Current rating of 86 amps for the 10mm² wire, 120 amps for the 25mm² wire, 180 amps for the 35-50mm² wire
- Constructed of heavy-duty thermoplastic
- Able to withstand extreme vibration and mechanical shock
- IP67 rated in mated condition
- Operationg temperature range of -40°C to 130°C
- Inline or panel mount
- OPTIONAL Last Mate / First Break HVIL Circuit

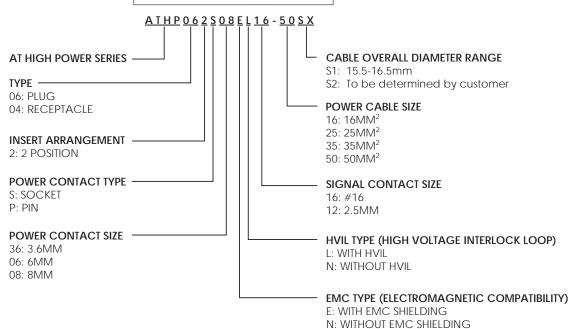


Plug/Receptacle	RADSOK® Contacts
Material Specifications	
Shell: Thermoplastic UL94-V0	Pin: Copper Alloy
Grommet: Silicone Rubber	Socket: Copper Alloy
	Finish: Silver-plated (Power contact) Gold-plated(Signal contact)
General Specifications	
Current Ratings	
	Power contact: 8mm 180 amps Signal contact: 16# 13 amps; 2,5mm 23 amps
General Specifications	
Dielectric Withstanding Voltage:	
Current leak less than 2 milliamps at 6000 VAC	Insulation Resistance: 5000 megohms minimum 25°C
Rated voltage: 1000V AC/DC	
EMC Shielding: Available	HVIL (High Voltage Interlock Loop): Available
Protection: Mated condition IP67	Temperature Operation: temperatures from -40°C to +130°C.
Vibration: No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond.	Fluid Resistance: Connectors show no damage when exposed to most fluids used in industrial application.
Thermal Cycle No cracking, chipping or leaking after 20 test cycles from -40°C to +130°C	Durability: No electrical or mechanical defects after 500 cycles of engagement and disengagement.

PART NUMBER SEQUENCE

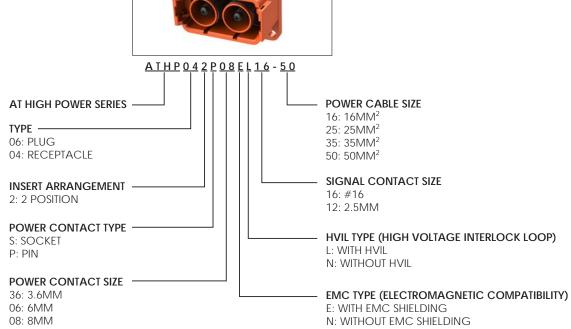
PLUG





RECEPTACLE





Magna | Mate SERIES PLUGS & RECEPTACLES STANDARD

Uses 8mm Contact





PLUGS

Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)
ATHP062S08NN12-35S1	Socket	2.5mm	35mm²	15.5 - 16.5 mm
ATHP062S08NN12-35S2	Socket	2.5mm	35mm²	customer requirements
ATHP062S08NN16-35S1	Socket	16	35mm²	15.5 - 16.5 mm
ATHP062S08NN16-35S2	Socket	16	35mm²	customer requirements
ATHP062S08NN12-50S1	Socket	2.5mm	50mm²	15.5 - 16.5 mm
ATHP062S08NN12-50S2	Socket	2.5mm	50mm²	customer requirements
ATHP062S08NN16-50S1	Socket	16	50mm²	15.5 - 16.5 mm
ATHP062S08NN16-50S2	Socket	16	50mm²	customer requirements

RECEPTACLES

Part Number	Power Contact Type	Signal Contact Size	Power Cable Size
ATHP042P08NN12-35	Pin	2.5mm	35mm²
ATHP042P08NN16-35	Pin	16	35mm²
ATHP042P08NN12-50	Pin	2.5mm	50mm²
ATHP042P08NN16-50	Pin	16	50mm²

Magna | Mate SERIES PLUGS & RECEPTACLES STANDARD

Uses 8mm Contact





PLUGS

STANDARD Plug with High Voltage Interlock Loop					
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)	
ATHP062S08NL12-35S1	Socket	2.5mm	35mm²	15.5 - 16.5 mm	
ATHP062S08NL12-35S2	Socket	2.5mm	35mm²	customer requirements	
ATHP062S08NL16-35S1	Socket	16	35mm²	15.5 - 16.5 mm	
ATHP062S08NL16-35S2	Socket	16	35mm²	customer requirements	
ATHP062S08NL12-50S1	Socket	2.5mm	50mm²	15.5 - 16.5 mm	
ATHP062S08NL12-50S2	Socket	2.5mm	50mm²	customer requirements	
ATHP062S08NL16-50S1	Socket	16	50mm²	15.5 - 16.5 mm	
ATHP062S08NL16-50S2	Socket	16	50mm²	customer requirements	

RECEPTACLES

STANDARD Plug with High Voltage Interlock Loop				
Part Number Power Contact Type Signal Contact Size Power Cable S				
ATHP042P08NL12-35	Pin	2.5mm	35mm²	
ATHP042P08NL16-35	Pin	16	35mm²	
ATHP042P08NL12-50	Pin	2.5mm	50mm²	
ATHP042P08NL16-50	Pin	16	50mm²	

Magna | Mate SERIES PLUGS EMC SHIELDING

Uses 8mm Contact



PLUGS

EMC Plugs with High Voltage Interlock Loop					
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)	
ATHP062S08EL12-35S1	Socket	2.5mm	35mm²	15.5 - 16.5 mm	
ATHP062S08EL12-35S2	Socket	2.5mm	35mm²	customer requirements	
ATHP062S08EL16-35S1	Socket	16	35mm²	15.5 - 16.5 mm	
ATHP062S08EL16-35S2	Socket	16	35mm²	customer requirements	
ATHP062S08EL12-50S1	Socket	2.5mm	50mm²	15.5 - 16.5 mm	
ATHP062S08EL12-50S2	Socket	2.5mm	50mm²	customer requirements	
ATHP062S08EL16-50S1	Socket	16	50mm²	15.5 - 16.5 mm	
ATHP062S08EL16-50S2	Socket	16	50mm²	customer requirements	

EMC Plugs without High Voltage Interlock Loop					
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)	
ATHP062S08EN12-35S1	Socket	2.5mm	35mm²	15.5 - 16.5 mm	
ATHP062S08EN12-35S2	Socket	2.5mm	35mm²	customer requirements	
ATHP062S08EN16-35S1	Socket	16	35mm²	15.5 - 16.5 mm	
ATHP062S08EN16-35S2	Socket	16	35mm²	customer requirements	
ATHP062S08EN12-50S1	Socket	2.5mm	50mm²	15.5 - 16.5 mm	
ATHP062S08EN12-50S2	Socket	2.5mm	50mm²	customer requirements	
ATHP062S08EN16-50S1	Socket	16	50mm²	15.5 - 16.5 mm	
ATHP062S08EN16-50S2	Socket	16	50mm²	customer requirements	

Magna | Mate SERIES RECEPTACLES EMC SHIELDING

Uses 8mm Contact



RECEPTACLES

EMC Receptacles with High Voltage Interlock Loop				
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	
ATHP042P08EL12-35	Pin	2.5mm	35mm²	
ATHP042P08EL16-35	Pin	16	35mm²	
ATHP042P08EL12-50	Pin	2.5mm	50mm²	
ATHP042P08EL16-50	Pin	16	50mm²	

EMC Receptacles without High Voltage Interlock Loop				
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	
ATHP042P08EN12-35	Pin	2.5mm	35mm²	
ATHP042P08EN16-35	Pin	16	35mm²	
ATHP042P08EN12-50	Pin	2.5mm	50mm²	
ATHP042P08EN16-50	Pin	16	50mm²	

RADSOK® Contacts

RADSOK® Benefits at a Glance

- Cost effective production using stamp & form technology
- Fully automated production for full press capability
- Low insertion and extraction forces
- · High number of mating cycles
- Reduced assembly effort

- Contact coverage up to 65%
- Long lasting contact normal forces guaranteed through optimal grid technology
- Self cleaning effect during the mating process
- No torque resistance required of electrical housing - allowing for easier designs
- Absorption of vibrations

RADSOK® Technical Data

High Reliability

Unique RADSOK® design and construction technology creates an electrical contact interface that exceeds typical interconnect requirements. Applications in Aerospace, Medical, Industrial, Automotive, Mining, Offshore and other harsh environments depend on the high reliability of Amphenol RADSOK® technology.

Low Contact Engagement/Separation Forces

The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

Low Contact Resistance

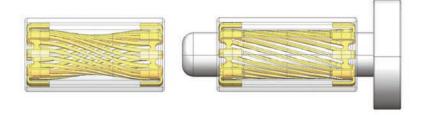
The large interface between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts high current ratings compared to traditional power contact designs.

High Mating Cycle Durability

RADSOK $^{\circledR}$ contacts with typical silver plating finishes have demonstrated survival of 10,000 mating cycles. Even with continuous exposure to harsh environmental abuse (salt, sand and high humidity), RADSOK $^{\circledR}$ contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.



RADSOK® Product Overview



RADSOK® technology is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact. Most pin and socket technologies rely on spring (beam element) properties of the contact elements, which tend to weaken over time. Unlike most other pin and socket solutions, the RADSOK® contact also utilizes the tensile strength properties of the flat, high conductivity alloy grid. This provides the high normal forces required for conductivity while also providing a large conductive surface area. Correspondingly low voltage drop and low temperature rise are also achieved while maintaining low insertion forces.

The RADSOK® Design



- Socket cylinder within female contact has several equally spaced longitudinal beams twisted into a hyperbolic shape
- As a male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss
- The hyperbolic, stamped grid configuration ensures a large, coaxial, face-to-face surface area engagement
- Ideal for crimp termination applications requiring repeated mating cycles and high current with a low multi-volt drop

RADSOK Contact (Max. current carrying capacity meet DIN EN 60512 specification.)

Shell size	Applicable Cable	Contact Plating	current (AC)
Applicable dable		3	temperature
12 (3.6mm)	10mm², 16mm²	Silver Plated	65A (10mm²), 86A (16mm²)
14 (6.0mm)	25mm²	Silver Plated	120A (25mm²)
16 (8.0mm)	35mm², 50mm²	Silver Plated	130A (35mm²), 180A (50mm²)
20 (10.0mm)	50mm², 70mm², 95mm²	Silver Plated	180A (50mm²), 250A (70mm²), 300A (95mm²)

Note: The given electrical values correspond to a single contact. With the addition of a housing, an increased number of poles or other modifications, the values must be adjusted downwards accordingly.

RADSOK® Advantages and Custom Developed Solutions

RADSOK® Technology Advantages

- **High Reliability** Unique design and construction technology create an electrical contact interface that exceeds typical interconnect requirements.
- Low Contact Engagement/Separation Forces The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating pin surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.
- Low Contact Resistance The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts high current ratings compared to traditional power contact designs.
- High Mating Cycle Durability RADSOK® contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 matings or higher. Even with continuous exposure to harsh environmental abuse, RADSOK® contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.

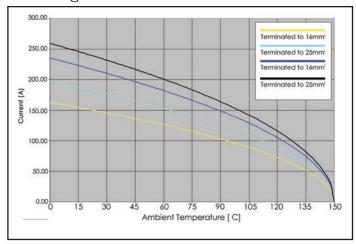
Standard and Custom-Developed Solutions

- In addition to the various standard sizes of RADSOK® components, custom-developed solutions are also available. Amphenol has the global design, engineering and manufacturing resources to provide RADSOK® sockets pressed into busbars, crimped to cables, assembled into connectors, assembled into customer or Amphenol designed specialized electrical devices, or as stand-alone components. Amphenol also manufactures a full compliment of mating pin contacts for any application.
- Steady-state current capacities for RADSOK® products range from 50 amps to over 1000 amps.
- Amphenol connectors with RADSOK® contacts are offered with a variety of positive locking features (HiLok® and SurLok®) that insure and maintain fully mated connections.
- Sealing (Sealtac[™]) and high voltage hot break options are available within the RADSOK[®]
 itself or within a very wide range of IP rated connector housings to provide environmental
 protection to the contact area.

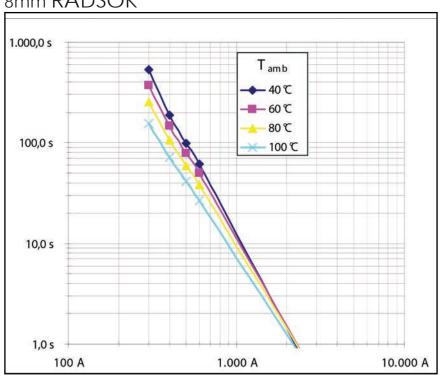
RADSOK® Series Rated Current and Working Voltage

Contact Current Carrying Capacity

Derating 8mm



8mm RADSOK®





Contacts (included)

Contact Size /	Wire	Range	Dia D/N	Cooket D/N	Din D/N	Cooket D/N	Dioting
Current	AWG	mm ²	Pin P/N	Socket P/N	Pin P/N	Socket P/N	Plating
#8 (45A)	12-10	3.0-6.0	MP10A23S	MS10A23S	N/A	N/A	Silver
2.5mm (23A)	14-12	2.5-3.5	N/A	N/A	SP12A1T	SS12A1T	Tin
#16 (13A)	16-14	2.0-2.5	MP14M23F	MS14M23F	SP14M1F	SS14M1F	Gold Flash

Tools

Crimping Tool	Part Number	Description
	96-978-22	Suitable crimping range: 10-185 mm2 Opening and closing type head, rotatable 180°, easy to operate. Automatic relief pressure after the crimping, Crimping Dies (mm²) 10/16,25/35,50/70,95/120,150,185

Magna|Mate 2 POSITIONS 86A

Magna | Mate SERIES PLUGS & RECEPTACLES STANDARD

Uses 3.6mm Contact





PLUGS

Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)
ATHP06S36NN12-16S1	Socket	12	16mm²	S1
ATHP06S36NN12-16S2	Socket	12	16mm²	S2
ATHP06S36NN16-16S1	Socket	16	16mm²	S1
ATHP06S36NN16-16S2	Socket	16	16mm²	S2
ATHP06S36NN12-35S1	Socket	12	35mm²	S1
ATHP06S36NN12-35S2	Socket	12	35mm²	S2
ATHP06S36NN16-35S1	Socket	16	35mm²	S1
ATHP06S36NN16-35S2	Socket	16	35mm²	S2
ATHP06S36NN12-50S1	Socket	12	50mm²	S1
ATHP06S36NN12-50S2	Socket	12	50mm²	S2
ATHP06S36NN16-50S1	Socket	16	50mm²	S1
ATHP06S36NN16-50S2	Socket	16	50mm²	S2

RECEPTACLES

Part Number	Power Contact Type	Signal Contact Size	Power Cable Size
ATHP04P36NN12-16	Pin	12	16mm²
ATHP04P36NN16-16	Pin	16	16mm²
ATHP04P36NN12-25	Pin	12	25mm²
ATHP04P36NN16-25	Pin	16	25mm²
ATHP04P36NN12-35	Pin	12	35mm²
ATHP04P36NN16-35	Pin	16	35mm²
ATHP04P36NN12-50	Pin	12	50mm²
ATHP04P36NN16-50	Pin	16	50mm²

Magna|Mate 2 POSITIONS 86A

Magna | Mate SERIES PLUGS EMC SHIELDING

Uses 3.6mm Contact



PLUGS

1 20 00					
EMC Plugs with High Voltage Interlock Loop					
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)	
ATHP06S36EL12-16S1	Socket	12	16mm²	S1	
ATHP06S36EL12-16S2	Socket	12	16mm²	S2	
ATHP06S36EL12-35S1	Socket	12	35mm²	S1	
ATHP06S36EL12-35S2	Socket	12	35mm²	S2	
ATHP06S36EL12-50S1	Socket	12	50mm²	S1	
ATHP06S36EL12-50S2	Socket	12	50mm²	S2	
ATHP06S36EL16-16S1	Socket	16	16mm²	S1	
ATHP06S36EL16-16S2	Socket	16	16mm²	S2	
ATHP06S36EL16-35S1	Socket	16	35mm²	S1	
ATHP06S36EL16-35S2	Socket	16	35mm²	S2	
ATHP06S36EL16-50S1	Socket	16	50mm²	S1	
ATHP06S36EL16-50S2	Socket	16	50mm²	S2	

EMC Plugs without High Voltage Interlock Loop					
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	Cable OD Range (Plug)	
ATHP06S36EN12-16S1	Socket	12	16mm²	S1	
ATHP06S36EN12-16S2	Socket	12	16mm²	S2	
ATHP06S36EN16-16S1	Socket	16	16mm²	S1	
ATHP06S36EN16-16S2	Socket	16	16mm²	S2	
ATHP06S36EN12-35S1	Socket	12	35mm²	S1	
ATHP06S36EN12-35S2	Socket	12	35mm²	S2	
ATHP06S36EN16-35S1	Socket	16	35mm²	S1	
ATHP06S36EN16-35S2	Socket	16	35mm²	S2	
ATHP06S36EN12-50S1	Socket	12	50mm²	S1	
ATHP06S36EN12-50S2	Socket	12	50mm²	S2	
ATHP06S36EN16-50S1	Socket	16	50mm²	S1	
ATHP06S36EN16-16S2	Socket	16	50mm²	S2	

CONNECTOR SOLUTIONS

Magna | Mate SERIES RECEPTACLES EMC SHIELDING

Uses 3.6mm Contact



RECEPTACLES

EMC Receptacles with High Voltage Interlock Loop				
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	
ATHP04P36EL12-16	Pin	12	16mm²	
ATHP04P36EL16-16	Pin	16	25mm²	
ATHP04P36EL12-25	Pin	12	25mm²	
ATHP04P36EL16-25	Pin	16	16mm²	
ATHP04P36EL12-35	Pin	12	35mm²	
ATHP04P36EL16-35	Pin	16	35mm²	
ATHP04P36EL12-50	Pin	12	50mm²	
ATHP04P36EL16-50	Pin	16	50mm²	

EMC Receptacles without High Voltage Interlock Loop				
Part Number	Power Contact Type	Signal Contact Size	Power Cable Size	
ATHP04P36EN12-16	Pin	12	16mm²	
ATHP04P36EN16-16	Pin	16	16mm²	
ATHP04P36EN12-25	Pin	12	25mm²	
ATHP04P36EN16-25	Pin	16	25mm²	
ATHP04P36EN12-35	Pin	12	35mm²	
ATHP04P36EN16-35	Pin	16	35mm²	
ATHP04P36EN12-50	Pin	12	50mm²	
ATHP04P36EN16-50	Pin	16	50mm²	

Glossary of Terms

American Wire Gauge (AWG)

System of numerical designations for wire sizes, based on specified ranges of cross-sectional areas. Starts with 4/0 (000) at the largest size, going to 3/0, 2/0, 1/0, 1, 2, and up to 40 and beyond for the smallest size. A step of one AWG number corresponds to a reduction of cross-sectional area of appr. 20 %.

Attenuation

A reduction of power. Occurs naturally when waves travel through lines, wave guides, or media such as air or water. Is produced additionally by imperfections in electrical or optical connections (attenuation in fibre optics), e. g. contact resistance, mismatch, etc.

Bulkhead connector

Connector designed to be inserted into a panel cutout from the rear of the panel, thus forming part of the barrier between two spaces. Back-mounted.

Clearance

The shortest distance in air between two conductive parts, see IEC 60664.

Climatic stability

General term describing the behavior of components under various climatic conditions, e. g. high and low temperatures, tropical climate, high humidity, moist heat, fungus, atmospheric conditions (industial atmosphere), reduced air pressure, etc. Climatic conditions for test purposes are explained in IEC 60068, DIN 46 040.

Connector

A component which terminates conductors for the purpose of providing connection and disconnection to a suitable mating component which shall not be engaged or disengaged when live. Depending on the fastening to a cabinet, panel, rack etc. or a cable, they are classified as fixed or free connectors. A connector comprises one or more contacts and a housing which may have a separate connector insert and a separate outer housing or shell.

Connector housing

The part of a connector into which the insert and the contacts are assembled. It may function as part of the locking mechanism.

Connector insert

An insulating element designed to support and position contacts in a connector housing.

In connectors electromagnetic interference is prevented by shielding. Shielded connectors normally provide means to connect the screens of attached cables.

Connector life

The number of mating cycles prior to abrasion of the conductive contact surface and which does not result in a significant rise of the contact resistance. Tests according to test 9a of ICE 60512-5 / DIN EN 60512 Part 5.

Contact

The conductive element in a connector which mates with a corresponding element to provide an electrical path.

Contact resistance

The electrical resistance of a mated set of contacts under specified conditions. Tested according to tests 2a, 2b, 2c, of IEC 60 512 -2/ DIN EN 60 512-2.

Contact size

The designation used to differentiate one contact from another. It may be denoted by one of the following numbering systems:

Creepage distance

The shortest distance along the surface of the insulating material between two conductive parts. The longer the distance, the less the risk of arc damage or tracking. Minimum creepage distances are specified according to the rated voltage and the applicable pollution degree and Comperative Tracking Index.

Crimped connection

A solderless connection made by crimping. IEC 60352-2 / DIN IEC 60352 Part 2.

Derating curve

The method for determining derating is specified in IEC 60 512-3. Here the combination of ambient temperature (Tu) and the current (J) leading to the same maximum allowable temperature (Tb) at the hottest point of the connector are plotted.

DIN

Deutsches Institut für Normung. A German standards organization.

Electromagnetic interference (EMI)

General term describing the undesirable effects of the immission or emission of radio frequency fields.

Funnel entry (restricted entry C146 D series)

Flared or widened entrance to a conductor barrel permitting easier insertion of the conductor.

Insertion or withdrawal force

The force required to fully insert or withdraw a set of mated connectors without the effect of coupling, locking or similar devices. The insertion force is usually greater than the withdrawal force.

Connector Glossary

Insulation grip

The area of a crimp contact that has been reshaped around the insulation of the conductor by compression during the crimping operation.

Insulation resistance

The resistance of the insulation between two conductive elements, in particular, the resistance between two contacts or between a contact and a metallic housing or shield. Tested according to test 3a of IEC 60512-2 / DIN IEC 60512 Part 2.

Intermateable

Two connectors are intermateable when they are capable of being connected electrically and mechanically but without regard to their performance and intermountability.

Locator

In a crimping tool the device used for positioning a crimp contact or terminal end.

Mating cycle

One mating cycle comprises one insertion and one withdrawal operation. Term used in the definition of connector life.

Material group

Classification of insulation materials according to their CTI values (CTI = Comperative Tracking Index)

Overvoltage category

A numeral defining a transient overvoltage condition. Overvoltage categories I, II, III and IV are used.

Connector with braking capacity (CBC

A component which may be engaged or disengaged in normal use, when live or under load. Note: In the sense of this document the term - live- is used if contacts are under voltage not necessarily with a current flowing across the contacts. The term - load - is used if a current is flowing across the contacts.

Rated current

A current value assigned by the manufacturer which the connector or PSD can carry continuously (without interruption) and simultaneously through all its contacts wired with the largest conductor preferrably at an ambient temperature of 40 °C without the upper temperature being exceeded.

Shield, shielding

Shielding of internal or external electric fields by means of a plane with a uniform electric potential, formed by metal shells or metallic layers on the inside or outside of plastic shells. The shield is normally connected to the shielding braid of the cable and/or chassis ground.

Wire range

The range of wire cross sections which is compatible with the dimensions the terminals of the contact (wire barrel). The wire range is expressed in mm2 or in AWG numbers.

65-54749101	AHDP04-24-07PN-WTA131	AHDP04-24-47SR-WTA164	AHDP06-24-31PT-WTA159
96-978-22	AHDP04-24-07PN-WTA172	AHDP04-24-47SR-WTA173	AHDP06-24-31PT-WTA173
A114017116	AHDP04-24-07\$N-WTA131	AHDP06-18-14PN-WTA135	AHDP06-24-31SR-WTA158
A114018171	AHDP04-24-07\$N-WTA 172	AHDP06-18-14PN-WTA 172	AHDP06-24-31SR-WTA 173
A114019171	AHDP04-24-09PR-WTA 137	AHDP06-18-14PR-WTA135	AHDP06-24-31ST-WTA 158
AHD10-6-12P-L 110	AHDP04-24-09SR-WTA137	AHDP06-18-14PR-WTA172	AHDP06-24-31ST-WTA173
AHD10-9-96P. 111	AHDP04-24-18PN-WTA 139	AHDP06-18-14SN-WTA 134	AHDP06-24-35PR-WTA 161
AHD10-9-1939P. 111	AHDP04-24-18PR-WTA139	AHDP06-18-14SN-WTA 172	AHDP06-24-35SR-WTA 161
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AHD14-9-96P111	AHDP04-24-19PR-WTA143	AHDP06-24-07\$N-WTA131	AHDP-16-04477170
AHD14-9-1939P111	AHDP04-24-19PR-WTA172	AHDP06-24-07\$N-WTA172	AHDP-16-04978170
AHD16-6-12S	AHDP04-24-19SN-WTA144	AHDP06-24-09PR-WTA137	AHDP18-PN01136
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AHD16-9-1939S80111	AHDP04-24-21PN-WTA172	AHDP06-24-18SR-WTA139	AHDPBS-011-2405170
AHD16-9-1939SE111	AHDP04-24-21PR-WTA146	AHDP06-24-19PN-WTA144	AHDPBS-18-001170
AHD17-9-1939PES111	AHDP04-24-21PR-WTA172	AHDP06-24-19PN-WTA172	AHDPBS-18-002170
AHD17-9-1939PES80111	AHDP04-24-21SN-WTA147	AHDP06-24-19PR-WTA144	AHDPBS-0406-001170
AHD17-9-1939S111	AHDP04-24-21SN-WTA172	AHDP06-24-19PR-WTA172	AHDPBS-0406-002170
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	AHDP04-24-31PR-WTA158		
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AHDP04-18-14SR-WTA135	AHDP04-24-47PR-WTA164	AHDP06-24-31PR-WTA159	AT04-2P-BM03
AHDP04-18-14SR-WTA172	AHDP04-24-47PR-WTA173	AHDP06-24-31PR-WTA173	AT04-2P-BM0477

		AT04-4P-R1K2K73	AT04-08PB-RD01	60	AT04-12PC-PM12	82
		AT04-4P-RD0160	AT04-08PC		AT04-12PC-PM13	
		AT04-4P-RD01BLK60	AT04-08PC-BM01		AT04-12PC-PM14	
		AT04-4P-SR01BLK57	AT04-08PC-BM02	77	AT04-12PC-RD01	
		AT04-4P-SR02BLK57	AT04-08PC-BM03	••	AT04-12PD	
		AT04-4P-SS0167	AT04-08PC-BM04		AT04-12PD-BM01	
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AT04-2P-PM12			AT04-08PC-PM12	81	AT04-12PD-BM03	78
		AT04-6P-BM0277	AT04-08PC-PM13	81	AT04-12PD-BM04	
AT04-2P-PM14	81	AT04-6P-BM03	AT04-08PC-PM14	81	AT04-12PD-PM11	82
		AT04-6P-BM04	AT04-08PC-RD01	60	AT04-12PD-PM12	
AT04-2P-RD01		AT04-6P-EC0163	AT04-08PD		AT04-12PD-PM13	82
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ATO4-2P-SR01BLK	57	AT04-6P-KIT01	AT04-08PD-BM02	78	AT04-12PD-RD01	61
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AT04-3P-PM11			AT04-12PA-KIT01		AT06-2S-LED1202	
AT04-3P-PM12			AT04-12PA-MM01		AT06-2S-LED1220	
AT04-3P-PM13		AT04-08PA-BM02 77	ATO4-12PA-MMBLK		AT06-2S-LED1230	
AT04-3P-PM14	81	AT04-08PA-BM03	AT04-12PA-PM05		AT06-2S-LED2401	
AT04-3P-RD01		AT04-08PA-BM04 77	AT04-12PA-PM11		AT06-2S-LED2402	
ATO4-3P-RD01BLK		AT04-08PA-EC01 63	AT04-12PA-PM12		AT06-2S-LED2420	
AT04-3P-RJ120		AT04-08PA-KIT01 50	AT04-12PA-PM13.		AT06-2S-LED2430	
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		AT04-08PA-PM11 81	ATO4-12PA-SRGRY		AT06-2S-RD01	
		AT04-08PA-PM12 81	AT04-12PA-SS01		AT06-2S-RD01BLK	
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		AT04-08PB-PM11 81				
		AT04-08PB-PM12 81				
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AT06-3S-RJL12071		AT60-20-012238,156,	AT62-16-014483,114,136,
AT06-3S-SR01BLK56,71	AT06-12S-CAP70	162,165	141,145,148,
AT06-3S-SR02BLK56	AT06-12SC-RD0159	AT60-20-014438,156,	151,153,156,
AT06-3S-SS01	AT06-12SD 53	162,165	160,162,165
AT06-4S48	AT06-12SD-RD0159	AT60-202-163183,114,135,	AT62-16-062283,114,136,
AT06-4S-CAP70	AT06-12SX153	141,145,148,	141,145,148,
AT06-4S-EC01	AT06-12SX253	141,145,148, 150,153,156,	141,145,148, 151,153,156,
AT06-4S-EC01BLK 62	VIADS-CKIT VO	159,162,165	160,162,165
		AT(0.202.2021 0.1F/	
AT06-4S-KIT0148	AT8PS-CKIT 50	AT60-202-20318,156,	AT62-16-064483,114,136,
AT06-4S-MM0164	AT11-001-3.6M169	162,165	141,145,148,
AT06-4S-MM01BLK64	AT11-027-0405169	AT60-202-16141. 83,114,135,	151,153,156,
AT06-4S-RD01 58	AT11-240-2005168	141,145,148,	160,162,165
AT06-4S-RD01BLK 58	AT11-310-160585,115,168	141,145,148, 150,153,156,	AT62-20-012238,156,
AT06-4S-SR01BLK56	AT11-337-120585,115,168	159,162,165	162,165
			AT62-20-014438,156,
AT06-4S-SR02BLK	AT12PS-CKIT	AT60-202-2014138,156,	
AT06-4S-SS01	AT13-204-200540	162,165 AT60-203-08141141	162,165
AT06-6S49	AT13-204-2005-SR40		AT62-201-163183,114,136,
AT06-6S-CAP	AT14-001-2486132,138,42,	AT60-204-0490138	141,145,148,
AT06-6S-EC01 62	145.148.151.	AT60-204-08141 138,141	141,145,148, 151,153,156,
AT06-6S-EC01BLK 62	145,148,151, 154,157,160,	AT60-204-12141101,114,	160,162,165
	104,107,100,	*******	
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AT06-6S-MM0164	A114-002-1886136	144,147,153,156	162,165
AT06-6S-MM01BLK64	AT16-18SB-K00455	AT60-215-163183,114,135,	AT62-201-1614183,114,136,
AT06-6S-RD0158	AT60-12-0144101,114,132	141,145,148,	141,145,148,
AT06-6S-RD01BLK 58	138,141,144,	141,145,148, 150,153,156,	151,153,156,
AT06-6S-SR01BLK 56	147,153,156	159,162,165	160,162,165
ATO6-6S-SR02BLK56	AT60-12-0166101,114,132	AT60-215-16141. 83,114,135,	AT62-201-2014138,156,
AT06-6S-SS0166	138,141,144, 147,153,156	141,145,148,	162,165
AT06-08SA50	147,153,156	150,153,156,	AT62-203-04141138
AT06-08SA-EC0162	AT60-12-0222101,132,138,	159,162,165	AT62-203-08141 138
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AT06-08SA-MM01 64	153,156	132,138,141,	132,138,141,
ATO6-08SA-MMBLK64	AT60-12-0244132,138,141,	144,147,153,156	144,147,153,156
AT06-08SA-RD0158	144,147,153,156	AT62-12-0144101,114,	AT62-209-163183,114,136,
AT06-08SA-SR2GY56	AT60-14-012283,114,135,	132,138,141, 144,147,153,156	141,145,148,
AT06-08SA-SRGRY 56	141,145,148,	144,147,153,156	151,153,156,
AT06-08SA-SS01	141,145,148, 150,153,156,	AT62-12-0166101,114,	160,162,165
AT06-08SB. 51	159,162,165	132,138,141,	AT62-209-16141_83,114,136,
	AT60-14-014483,114,135,	144,147,153,156	141 145 140
		144,147,133,130	141,143,140,
AT06-08SC51		AT62-12-0222101,114,	141,145,148, 151,153,156, 160,162,165
AT06-08S-CAP70	150,153,156,	132,130,141,	100,102,103
AT06-08SC-RD0158	159,162,165	144,147,153,156	AT62-210-1231101,114,
AT06-08SD51	AT60-16-014483,114,135,	AT62-12-0244101,114,	132,138,141,
AT06-08SD-RD01 58	141,145,148,	132,138,141,	144,147,153,156
	150,153,156,	144,147,153,156	AT62-210-1231-1820101
AT06-12SA			
AT06-12SA-EC01	159,162,165	AT62-14-012283,114,135,	AT1612-13PB
AT06-12SA-KIT0152	AT60-16-062283,114,135,	141,145,148,150,	AT1612-13PB-G54,82,99
AT06-12SA-MM0164	141,145,148,	153,160,162,165	AT1612-13PBNF1354,78
AT06-12SA-MM01BLK64	150,153,156,	AT62-14-014483,114,135,	AT1612-13PB-RD54
AT06-12SA-RD0159	159,162,165	141,145,148,150,	AT1612-13PB-RDG54,82,99
AT06-12SA-SR2GY 56	AT60-16-064483,114,135,	153,160,162,165	AT1612-13SB
AT06-12SA-SRGRY56	141,145,148,	AT62-16-012283,114,136,	AT1 (10 PR C7
AT06-12SA-SS0166	150,153,156,	141,145,148,	AT1612-PB-G782,99
AT06-12SB53	159,162,165	151,153,156,	AT114008169
AT06-12SB-RD0159		160,162,165	AT114009169

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ATF13-2P-BM0277	ATHP06S36EL16-35S1196	ATHP062S08EN12-50S2188	ATM06-2S-SR01GY34
ATF13-3P-BM0177	ATHP06S36EL16-35S2196	ATHP062S08EN16-35S1188	ATM06-3S 27
ATF13-3P-BM02 77	ATHP06S36EL16-50S1196	ATHP062S08EN16-35S2188	ATM06-3S-KIT01 27
ATF13-4P-BM01	ATHP06S36EL16-50S2196	ATHP062S08EN16-50S1188	ATM06-3S-SR01GY34
ATF13-4P-BM0277	ATHP06S36EN12-16S1196	ATHP062S08EN16-50S2 188	ATM06-4S 28
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ATF13-6P-BM0277	ATHP06S36EN12-35S1196	ATHP062S08NL12-35S2187	ATM06-4S-SR01GY 34
ATF13-08PA-BM01	ATHP06S36EN12-35S2196	ATHP062S08NL12-50S1187	ATM06-6S 29
ATF13-08PA-BM0277	ATHP06S36EN12-50S1196	ATHP062S08NL12-50S2187	ATM06-6S-KIT01 29
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ATF13-08PC-BM02	ATHP06S36EN16-16S2196	ATHP062S08NL16-50S2187	ATM06-08SA-SR1GY34
ATF13-08PD-BM0178	ATHP06S36EN16-35S1196	ATHP062S08NN12-35S1186	ATM06-08SB 31
ATF13-08PD-BM0278	ATHP06S36EN16-35S2196	ATHP062S08NN12-35S2186	ATM06-08SB-SR1BK 34
ATF13-12PA-BM0178	ATHP06S36EN16-50S1196	ATHP062S08NN12-50S1186	ATM06-08SC31
ATF13-12PA-BM0278	ATHP06S36NN12-16S1195	ATHP062S08NN12-50S2186	ATM06-08SC-SR1GN 34
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ATF13-12PB-BM0278	ATHP06S36NN12-35S1195	ATHP062S08NN16-35S2186	ATM06-08SD-SR1BN 34
ATF13-12PC-BM01	ATHP06S36NN12-35S2195	ATHP062S08NN16-50S1186	ATM06-12SA. 32
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ATF13-12PD-BM0178	ATHP06S36NN12-50S2 195	ATM2PS-CKIT26	ATM06-12SA-SR1GY35
ATF13-12PD-BM0278	ATHP06S36NN16-16S1195	ATM3PS-CKIT 27	ATM06-12SB 33
ATHP04P36EL12-16197	ATHP06S36NN16-16S2195	ATM04-2P 26	ATM06-12SB-SR1BK 35
ATHP04P36EL12-25197	ATHP06S36NN16-35S1195	ATM04-2P-KIT0126	ATM06-12SC33
ATHP04P36EL12-35197	ATHP06S36NN16-35S2195	ATM04-2P-SR01GY 36	ATM06-12SC-SR1GN 35
ATHP04P36EL12-50197	ATHP06S36NN16-50S1195	ATM04-3P	ATM06-12SD33
ATHP04P36EL16-16197	ATHP06S36NN16-50S2195	ATM04-3P-KIT01 27	ATM06-12SD-SR1BN35
ATHP04P36EL16-25197	ATHP042P08EL12-35189	ATM04-3P-SR01GY36	ATM6PS-CKIT 29
ATHP04P36EL16-35197	ATHP042P08EL12-50189	ATM04-4P28	ATM8PS-CKIT30
ATHP04P36EL16-50197	ATHP042P08EL16-35189	ATM04-4P-KIT0128	ATM12PS-CKIT32
ATHP04P36EN12-16197	ATHP042P08EL16-50189	ATM04-4P-SR01GY36	ATP2PS-CKIT 92
ATHP04P36EN12-25197	ATHP042P08EN12-35189	ATM04-6P29	ATP04-2P 92
ATHP04P36EN12-35197	ATHP042P08EN12-50189	ATM04-6P-KIT0129	ATP04-2P-BLK92
ATHP04P36EN12-50197	ATHP042P08EN16-35189	ATM04-6P-SR01GY36	ATP04-2P-EC0194
ATHP04P36EN16-16197	ATHP042P08EN16-50189	ATM04-08PA30	ATP04-2P-KIT0192
ATHP04P36EN16-25197	ATHP042P08NL12-35187	ATM04-08PA-KT0130	ATP04-2P-PM07G99
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ATHP04P36EN16-50197	ATHP042P08NL16-35187	ATM04-08PB31	ATP04-2P-PM08G99
ATHP04P36NN12-16195	ATHP042P08NL16-50187	ATM04-08PB-SR1BK36	ATP04-2P-PM08GEC99
ATHP04P36NN12-25195	ATHP042P08NN12-35186	ATM04-08PC31	ATP04-2P-RD0195
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