

Amphenol Sine Systems, USA Amphenol Tuchel Industrial, Germany

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



AUTOMOTIVE



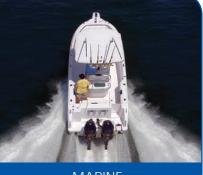
HEAVY EQUIPMENT



AGRICULTURE



POWER GENERATION



MARINE



Diagnostics



MINING

0

MOBILE EQUIPMENT





HARSH ENVIRONMENT





WATER RESISTANT



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

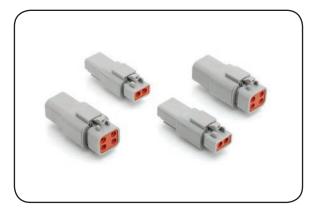
- 2, 3, 4, 6, 8 and 12 positions available
- 16-22AWG, 7.5A, Size 20
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide.



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

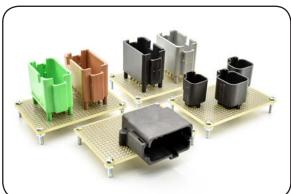
- 10-14AWG, 25A, Size 12
- High-performance, cost-effective
- Superior environmental seal retention capabilities
- Compatible with existing standard products industry-wide

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

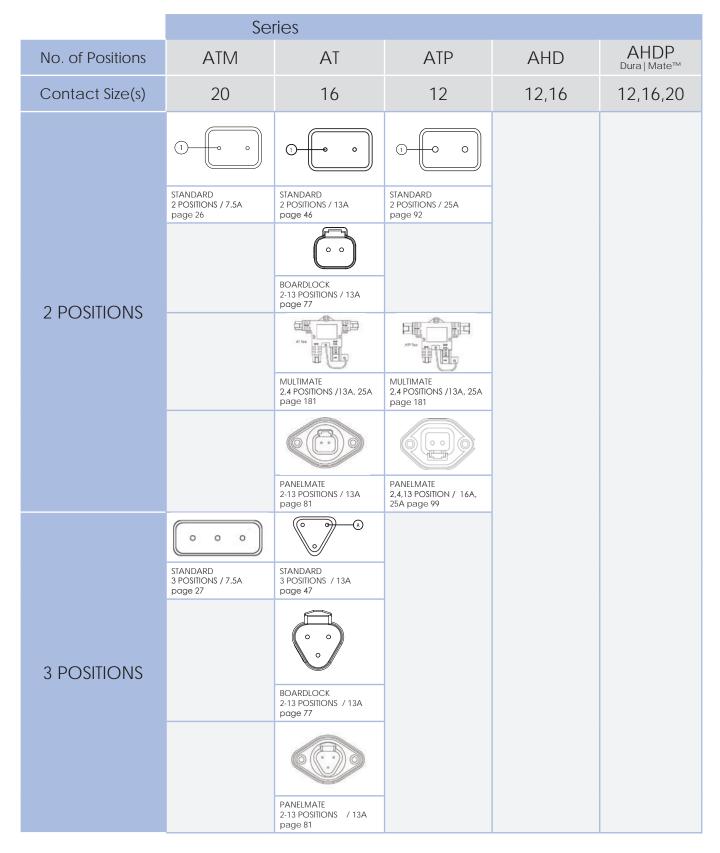
- Size 8 crimp contacts are rated to 70A with RADSOK technology
- Size 12 crimp contacts are rated to 35A with RADSOK technology
- Constructed of heavy-duty thermoplastic

Custom Cable and Assemblies

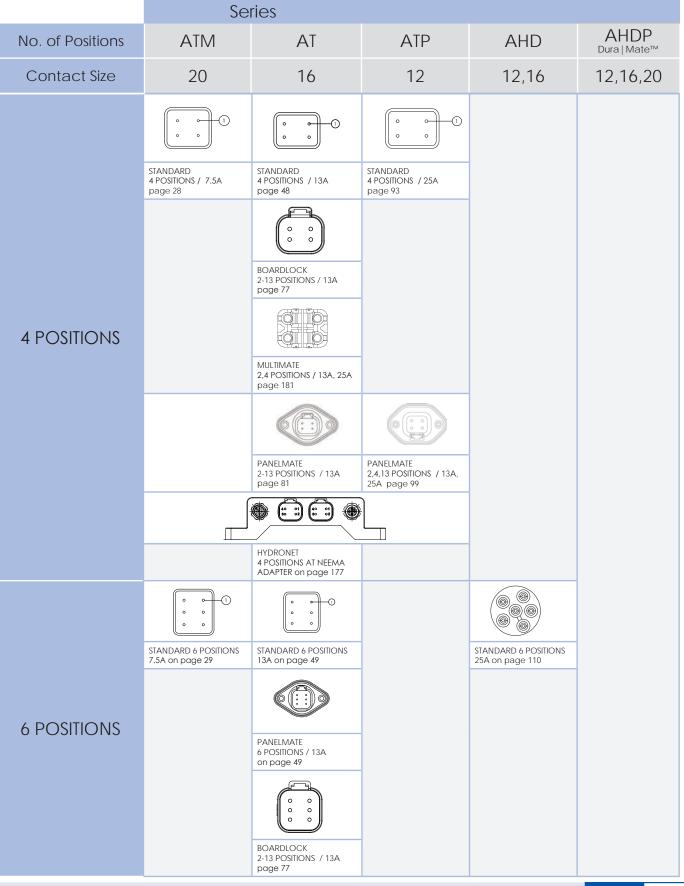
Custom Cable Assemblies are available for any application, and carry with them the capabilities of being overmolded in any size or length necessary. We have many specialized configurations. For more information, please contact a Sales Representative at 1-800-394-7732.



2-3 Positions



4-6 Positions



7-12 Positions

	Se				
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	Image: standard sta			
9 POSITIONS				STANDARD 9 POSITIONS / 13A on page 111	
12 POSITIONS	STANDARD 12 POSITIONS / 7.5A page 32	Image: Standard page 52 STANDARD 12 POSITIONS / 13A page 52 Image: Standard page 53 Image: Standard page 54			

13-23 Positions

Series					
No. of Positions	ATM	AT	ATP	AHD	AHDP _{Dura Mate™}
Contact Size	20	16	12	12,16	12,16,20
13 POSITIONS		Image 54	PANELMATE 2,4,13 POSITIONS / 16A, 25A, page 99		
14 POSITIONS					DURAMATE 14 POSITIONS / 13A page 135
18 POSITIONS		0 0			
19 POSITIONS					DURAMATE 14 POSITIONS / 13A page 135
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27-47 Positions

	Series				
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
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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		
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5 POSITIONS		ATC 5 POSITIONS / 13A page 121	
9 POSITIONS		ATC 9 POSITIONS / 13A page 121	

INDUSTRIAL AMPHENOL

Introducing

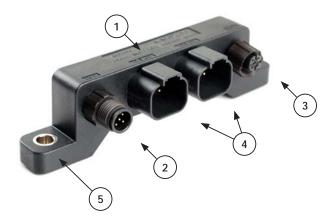
Hydro Net[™]

- 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

Series Overview

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12 POSITIONS- B,C,D,X		
13 POSITIONS	13A, 25A	
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AT Board | Lock[™]

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AT Panel | Mate™

2-13	POSITIONS
2 10	1 00110110

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Juli OFICEO		
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ATP Panel | Mate™

2,4,13 POSITIONS	16A, 25A

AHD™ SERIES

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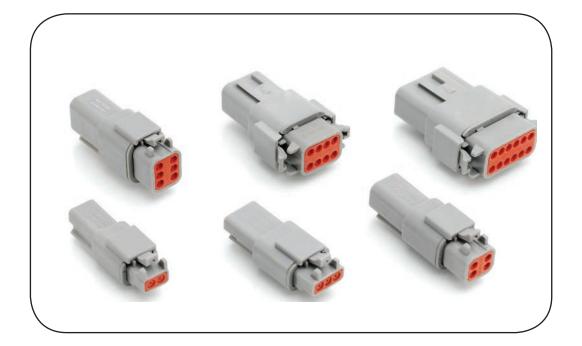
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ATM Series



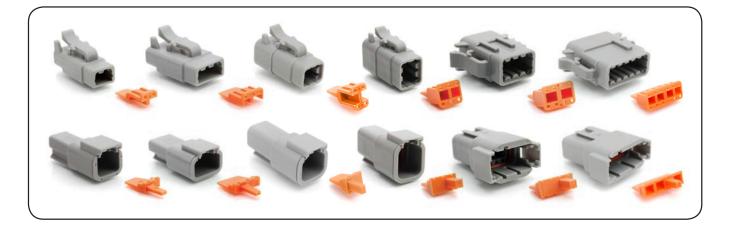
ATM Series™

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)
Wire Range	Size 20 contacts will accept wire ranges of 16 thru 22AWG
Temperature	Operating temperature range: -55°C to +125°C at rated current
Dielectric Value	Meets or exceeds 1500 volts minimum
Drop Test	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)
Connector Terminal Reten- tion	When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs.
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
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

For custom insert configurations, please consult factory

ATM Series™

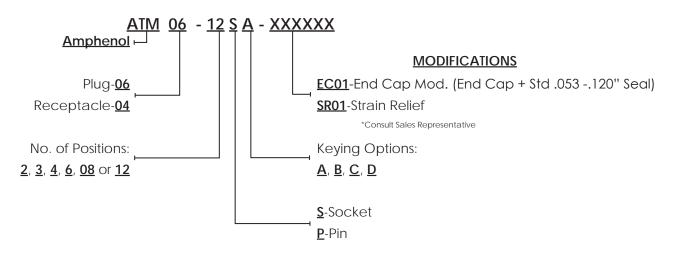
Features & Benefits, cont.

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
	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



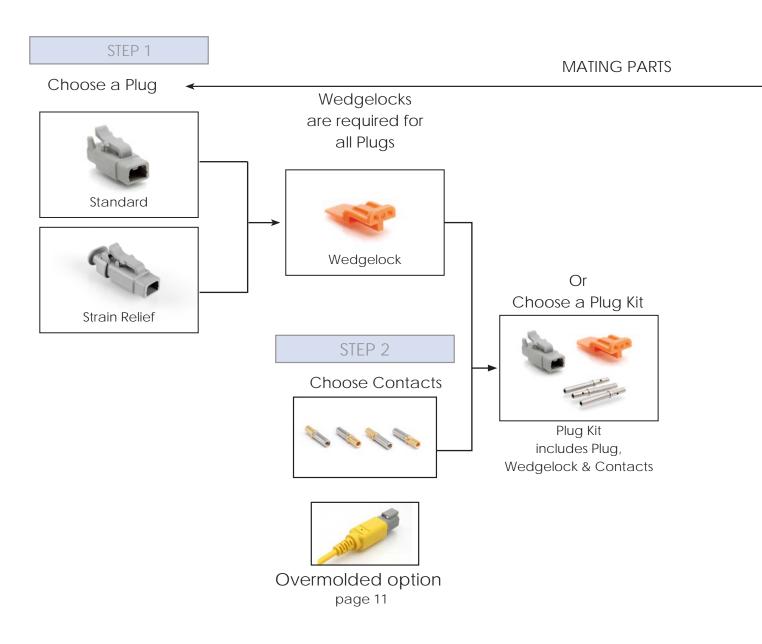
Plug & Receptacle Body Color Modification

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.

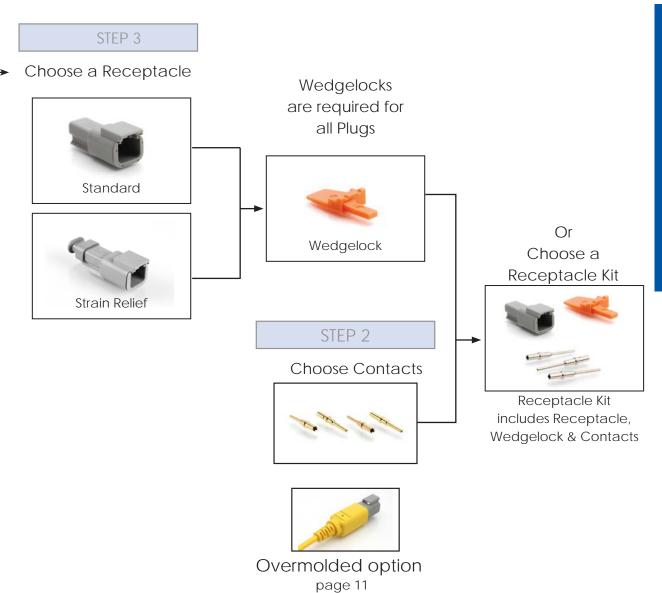
Color	Modification Number	Color	Modification Number	E A	3.0	A. a.
Black	XXXX-XXXX- BLK	Yellow	XXXX-XXXX- YEL	s. 10 0		••••
White	XXXX-XXX-WHT	Green	XXXX-XXXX-GRN		<u></u>	
Brown	XXXX-XXXX-BRN	Blue	XXXX-XXXX-BLU			
Grey	XXXX-XXXX-GRY	Red	XXXX-XXXX- RED			

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

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





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

Plug	Part Number	Description		Wedgelock	Part Number	Description
A REAL PROPERTY OF	ATM06-2S	Plug, 2-Way		ALC AND A	AWM-2S	Wedgelock Plug, 2-Way
	ATM06-2S- KIT01	2 Socket Plug, Wedge and Contacts Kit			: Kit	

Receptacle	Part Number	Description	[Wedgelock	Part Number	Description
	ATM04-2P	Receptacle, 2-Way			AWM-2P	Wedgelock Receptacle, 2-Way
	ATM04-2P- KIT01	2 Pir	ר R	eceptacle, Wedç	ge and Conta	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.



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

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

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATM04-3P	Receptacle, 3-Way			AWM-3P	Wedgelock Receptacle, 3-Way
	ATM04-3P- KIT01	3 Pir	ר R	Receptacle, Wedg	ge and Conta	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.



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

Plug	Part Number	Description	Wedgelock Part Number De	scription
	ATM06-4S	Plug, 4-Way		dgelock g, 4-Way
	ATM06-4S- KIT01		4 Socket Plug, Wedge and Contacts Kit	

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-4P	Receptacle, 4-Way	T	AWM-4P	Wedgelock Receptacle, 4-Way
	ATM04-4P- KIT01	4 Pir	Receptacle, Wedg	ge and Conta	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.



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

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0 0 0 0

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	s 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			

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.





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

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

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



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

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

Receptacle	Part Number	Description] [Wedgelock	Part Number	Description
	ATM04-08PB	Receptacle, 8-Way, B Position, Black				
	ATM04-08PC	Receptacle, 8-Way, C Position, Green			AWM-8P	Wedgelock Receptacle, 8-Way
	ATM04-08PD	Receptacle, 8-Way, D Position, Brown				

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

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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			

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	ATM04-12PA	Receptacle, 12-Way, A Position*		AWM-12P	Wedgelock Receptacle, 12-Way
	ATM04-12PA-KT01	12 -Way Receptacle, Wedge and Contacts 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 0 0 0 0 0 0 0

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

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

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0 0

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

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

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 STRAIN RELIEF 7.5A

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.

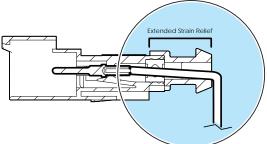
ATM-SR01 has Standard Seals

Plug	Part Number	Description	Wedgelock	Part Number	Description
Con a	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	The second secon	AWM-4S	Wedgelock Plug, 4-Way
	ATM06-6S-SR01GY	6-Way Plug, Female with Strain Relief		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

ATM STRAIN RELIEF 7.5A



Plug	Part Number	Description	Wedgelock	Part Number	Description
555	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		AW/M 125	Wedgelock
	ATM06-12SC-SR1GN	Plug, 12-Way, C Position Green, with Strain Relief		AWM-12S	Plug, 8-Way
	ATM06-12SD-SR1BN	Plug, 12-Way, D Position Brown, with Strain Relief			

ATM STRAIN RELIEF 7.5A

ATM SERIES STANDARD RECEPTACLE STRAIN RELIEF SERIES

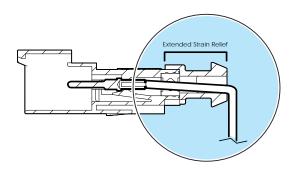
Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	ATM04-2P-SR01GY	2-Way Receptacle, Male Connector with Strain Relief	ja		AWM-2P	Wedgelock Receptacle, 2-Way
	ATM04-3P-SR01GY	3-Way Receptacle, Male Connector with Strain Relief		K	AWM-3P	Wedgelock Receptacle, 3-Way
	ATM04-4P-SR01GY	4-Way Receptacle, Male with Strain Relief	-	T	AWM-4P	Wedgelock Receptacle, 4-Way
	ATM04-6P-SR01GY	6-Way Receptacle, Male with Shrink Boot Adaptor	-	(F	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				Wedgelock
	Atm04-08pc-sr1gn	Receptacle, 8-Way, C Position, Green, Strain Relief			AWM-8P	Receptacle, 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

ATM	
STRAIN	RELIEF
7.5 A	

Receptacle	Part Number	Description	Wedgelock	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		AWM-12P	Wedgelock
	ATM04-12PC-SR1GN	Receptacle, 12-Way, C Position, Green, with Strain Relief		AVVIVI-12P	Receptacle, 12-Way
	ATM04-12PD-SR1BN	Receptacle, 12-Way, D Position, Brown, with Strain Relief			



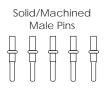
ATM CONTACTS

ATM SERIES CONTACTS

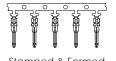
Contacts

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.

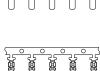








Stamped & Formed Male Pins



Stamped & Formed Female Sockets

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

CONNECTOR SOLUTIONS

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
Star F	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3974	Crimp Die - Size 20 (Stamped & Formed Contacts)
	ATT-20-00	Size 20, 20AWG, Stamped & Formed Contact Tool

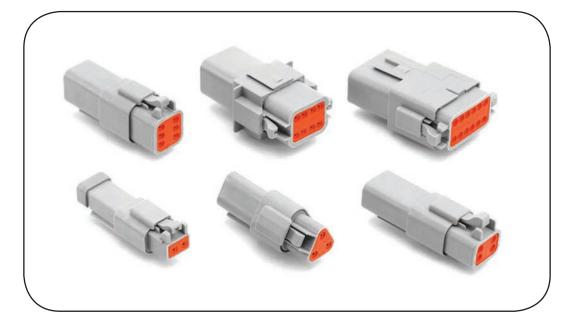
AT Series™ Contact Removal Tool

Part	Part Number	Description
Amphunol ATRT-100 uprentisimus som	ATRT-100	Used for removal of contacts for AT Series™ products

ATM SERIES ACCESSORIES

Seal Plugs	~		all all	
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 | **Series**TM



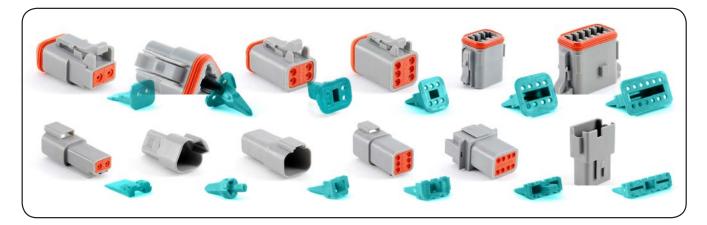
AT Series[™]

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
Temperature	Operating temperature range: -55°C to +125°C at rated current
Dielectric Value	Meets or exceeds 1500 volts minimum
Drop Test	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
Shock	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
Vibration	Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)
Connector 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

AT Series[™]

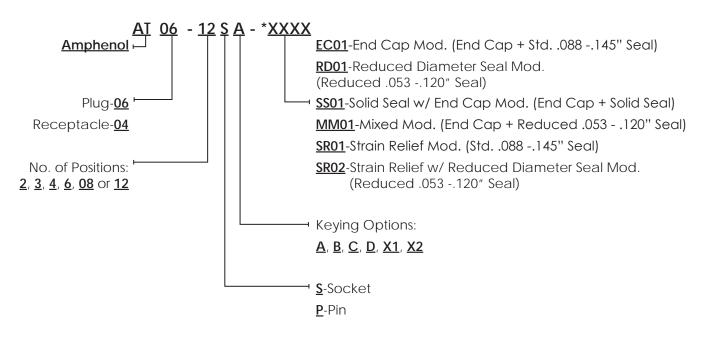
Features & Benefits, cont.

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



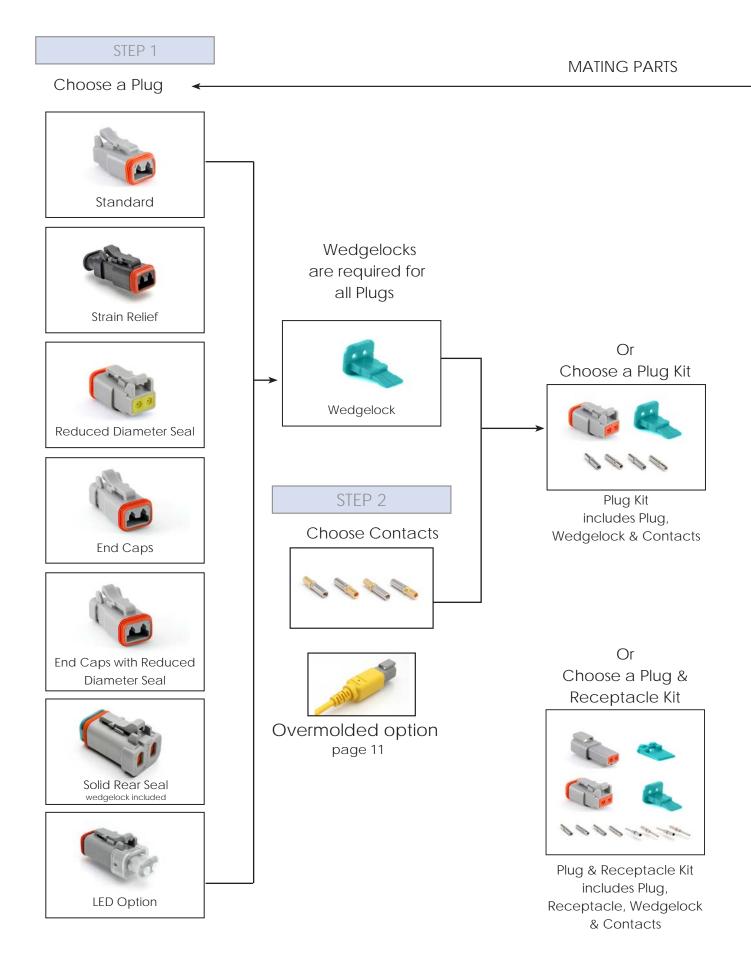
Plug & Receptacle Body Color Modification

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	Color	Modification Number	E.A	0.0	A. M.
Black	XXXX-XXXX- BLK	Yellow	XXXX-XXXX- YEL			
White	XXXX-XXX-WHT	Green	XXXX-XXX-GRN			4
Brown	XXXX-XXXX-BRN	Blue	XXXX-XXXX-BLU			
Grey	XXXX-XXXX-GRY	Red	XXXX-XXXX- RED			

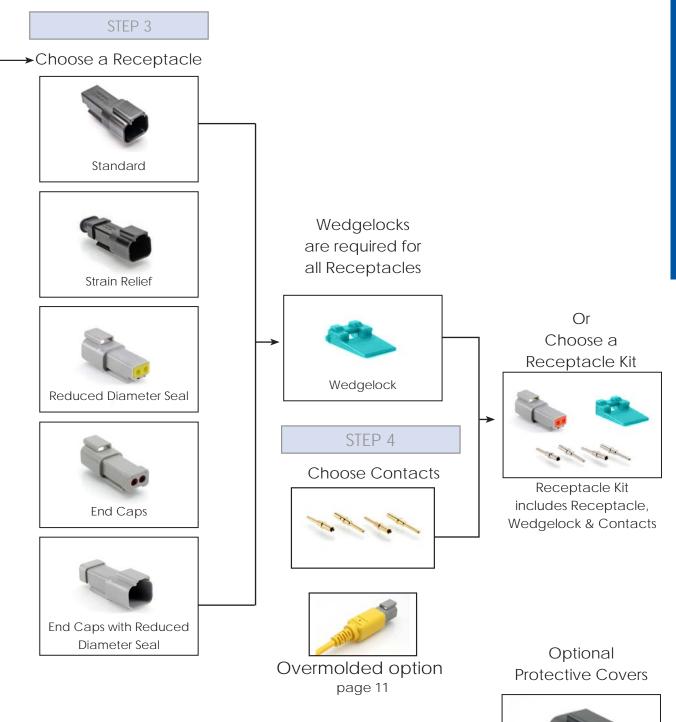
NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

AT Series[™] Connector Configurations



Need a complete Cable Assembly?

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



CONNECTOR SOLUTIONS

AT 2 POSITIONS 13A



)) AT SERIES STANDARD)) PLUGS, RECEPTACLES & WEDGELOCKS

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

Plug	Part Number	Description	Wedgelock	Part Number	Description
	AT06-2S	Plug, 2-Way	e	AW2S	Wedgelock Plug, 2-Way
	AT06-2S-KIT01		2 Socket Plug, Wedge	and Contacts	s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-2P	Receptacle, 2-Way		AW2P	Wedgelock Receptacle, 2-Way
the states	AT04-2P-KIT01	2 Pin Receptacle, Wedge and Contacts Kit		cts Kit	

Plug & Receptacle Kit	Part Number	Description
an a	At2ps-ckit	2-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

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 NOTE: Wedgelocks are required for all plugs.



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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

AT SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

	<u> </u>
Contact Size	16
Wire Range (AWG)	14-20 AWG
Amperage	13

Plug	Part Number	Description	Wedgelock	Part Number	Description
	AT06-3S	Plug, 3-Way		AW3S	Wedgelock Plug, 3-Way
	AT06-3S-KIT01		3 Socket Plug, Wedge	and Contacts	s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-3P	Receptacle, 3-Way		AW3P	Wedgelock Receptacle, 3-Way
100 ×	AT04-3P-KIT01	3 Pin Receptacle, Wedge and Contacts Kit		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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

AT

13A

A

3 POSITIONS

AT 4 POSITIONS 13A



AT SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

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

Plug	Part Number	Description	Wedgelock Part Number Des	cription
	AT06-4S	Plug, 4-Way	AW4S Wec Plug	lgelock , 4-Way
	AT06-4S-KIT01		Socket Plug, Wedge and Contacts Kit	

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-4P	Receptacle, 4-Way		AW4P	Wedgelock Receptacle, 4-Way
10 10 10 10 10 10 10 10 10 10 10 10 10 1	AT04-4P-KIT01	4 Pin Receptacle, Wedge and Contacts Kit		cts Kit	

Plug & Receptacle Kit	Part Number	Description
 4 4<	at4ps-ckit	4-Way Pin and Socket Plug, Receptacle, Wedge and Contacts Kit

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 NOTE: Wedgelocks are required for all plugs.



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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

AT SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

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

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AT

13A

6 POSITIONS

6

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

Receptacle	Part Number	Description		Wedgelock	Part Number	Description
	AT04-6P	Receptacle, 6-Way			AW6P	Wedgelock Receptacle, 6-Way
	AT04-6P-KIT01	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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

INDUSTRIAL@AMPHENOL

AT 8 POSITIONS 13A

AT SERIES STANDARD PLUGS, RECEPTACLES & WEDGELOCKS

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

Plug	Part Number	Description	Wedgelock	Part Number	Description
	AT06-08SA	Plug, 8-Way A Position*		AW8S	Wedgelock Plug, 8-Way
1000	AT06-08SA-KIT01	8 Sc	ocket Plug, Wedge an	d Contacts Kit	t

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-08PA	Receptacle, 8-Way A Position*	~	AW8P	Wedgelock Receptacle, 8-Way
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT04-08PA-KIT01	8 Pin	Receptacle, Wedg	ge and Conta	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 PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

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	Wedgelock Part Number
	AT06-08SB	Plug, 8-Way, B Position,Black	
	AT06-08SC	Plug, 8-Way, C Position, Green	AW8S
	AT06-08SD	Plug, 8-Way, D Position,Brown	

Receptacle	Part Number	Description	Wedgelock Part Number
	AT04-08PB	Receptacle, 8-Way,B Position, Black	
	AT04-08PC	Receptacle, 8-Way, C Position, Green	AW8P
	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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

AT

B,C,D

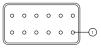
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AT 12 POSITIONS 13A



AT SERIES STANDARD [∞] PLUGS, RECEPTACLES & WEDGELOCKS

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

Plug	Part Number	Description	Wedgelock	Part Number	Description
Contraction of the second seco	AT06-12SA	Plug, 12-Way A Position*	Concerned and the second se	AW12S	Wedgelock Plug, 12-Way
	AT06-12SA- KIT01		12 Socket Plug, Wedge	e and Contact	s Kit

Receptacle	Part Number	Description	Wedgelock	Part Number	Description
	AT04-12PA	Receptacle, 12-Way A Position*		AW12P	Wedgelock Receptacle, 12-Way
10 1 10 1 10 1 10 1 10 1 10 1 10 1 10	AT04-12PA- KIT01	12 Pin	Receptacle, Wed	ge and Conta	icts 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 PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81

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

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

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AT

B,C,D,X

-0

12 POSITIONS-

STANDARD CONNECTORS

Plug	Part Number	Description	Wedgelock Part Number
	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	
	AT06-12SX1	12-Way Plug, Female Connector, X1 Position Key	AW12S
	AT06-12SX2	12-Way Plug, Female Connector, X2 Position Key	

Receptacle	Part Number	Description	Wedgelock Part Number
	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	AW12P

Other Available Options:

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



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



AT PANEL | MATE FLANGE MOUNT HARSH ENVIRNOMENT CONNECTORS see page 81



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



AT 18 POSITIONS 13A

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

STANDARD CONNECTORS

Plug	Part Number	Description
	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	Wedgelock Part Number
		AT06-2S-SR01BLK	Plug, 2-Way, Standard Seal	.
150		AT06-2S-SR02BLK	Plug, 2-Way, Reduced Seal .053120"	AW2S
140	A (O)	AT06-3S-SR01BLK	Plug, 3-Way, Standard Seal	
000		AT06-3S-SR02BLK	Plug, 3-Way, Reduced Seal .053120″	AW3S
		AT06-4S-SR01BLK	Plug, 4-Way, Standard Seal	
		AT06-4S-SR02BLK	Plug, 4-Way, Reduced Seal .053120"	AW4S
		AT06-6S-SR01BLK	Plug, 6-Way, Standard Seal	022
		AT06-6S-SR02BLK	Plug, 6-Way, Reduced Seal .053120"	AW6S
	(000)	AT06-08SA-SRGRY	Plug, 8-Way, Position A, Standard Seal	22.22
		AT06-08SA-SR2GY	Plug, 8-Way, Pos. A, Reduced Seal .053120"	AW8S
		AT06-12SA-SRGRY	Plug, 12-Way, Pos. A, Standard Seal	
	1	AT06-12SA-SR2GY	Plug, 12-Way, Pos. A, Reduced Seal .053120"	AW12S



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

NOTE: Wedgelocks are required for all plugs.

AT SERIES RECEPTACLE 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)

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
Rea		AT04-2P-SR01BLK	Receptacle 2-Way, Standard Seal	
		AT04-2P-SR02BLK	Receptacle 2-Way, Reduced Seal .053120	AW2P
	(<u> </u>	AT04-3P-SR01BLK	Receptacle 3-Way, Standard Seal	
		AT04-3P-SR02BLK	Receptacle 3-Way, Reduced Seal .053120	AW3P
669		AT04-4P-SR01BLK	Receptacle 4-Way, Standard Seal	-
		AT04-4P-SR02BLK	Receptacle 4-Way, Reduced Seal .053120	AW4P
		AT04-6P-SR01BLK	Receptacle 6-Way, Standard Seal	-
		AT04-6P-SR02BLK	Receptacle 6-Way, Reduced Seal .053120	AW6P
		AT04-08PA-SRGRY	Receptacle 8-Way, Pos. A, Standard Seal	
		AT04-08PA-SR2GY	Receptacle 8-Way, Pos. A, Reduced Seal .053120	AW8P
		AT04-12PA-SRGRY	Receptacle 12-Way, Pos. A, Standard Seal	
		AT04-12PA-SR2GY	Receptacle 12-Way, Pos. A, Reduced Seal .053120	AW12P



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

NOTE: Wedgelocks are required for all receptacles.

AT

13A

STRAIN RELIEF

AT REDUCED DIA. SEALS 13A 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)	0-00)	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
		AT06-4S-RD01	4-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	
		AT06-4S-RD01BLK	4-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW4S
		AT06-6S-RD01	6-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal)	020
		AT06-6S-RD01BLK	6-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal)	AW6S
		AT06-08SA-RD01	8-Way Plug, Female Connector with A Position Key, Reduced Diameter Seals (E-Seal)	
		AT06-08SB-RD01	8-Way Plug, Female Connector with B Position Key and Reduced Diameter Seal (E-Seal), Black	22.0.2
		AT06-08SC-RD01	8-Way Plug, Female Connector with C Position Key and Reduced Diameter Seal (E-Seal), Green	AW8S
		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

AT REDUCED DIA. SEALS 13A

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

Plug	Face View	Part Number	Description	Wedgelock Part Number
		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	
		AT06-12SC-RD01	12-Way Plug, Female Connector with C Position Key and Reduced Diameter Seal (E-Seal), Green	AW12S
		AT06-12SD-RD01	12-Way Plug, Female Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown	

AT REDUCED DIA. SEALS 13A AT SERIES RECEPTACLE REDUCED DIAMETER SEAL

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

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
C.		AT04-2P-RD01	2-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
		AT04-2P-RD01BLK	2-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW2P
IC.	(<u> </u>	AT04-3P-RD01	3-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal)	
Ein		AT04-3P-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)	
		AT04-4P-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)	
		AT04-6P-RD01BLK	6-Way Receptacle, Black Male Connector with Reduced Diameter Seal (E-Seal)	AW6P
The second secon		AT04-08PA-RD01	8-Way Receptacle, Male Connector with A Position Key, Reduced Diameter Seal (E-Seal)	
-		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

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

Receptacle	Face View	Part Number	Description	Wedgelock Part Number
		AT04-12PA-RD01	12-Way Receptacle, Male Connector with A Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal)	
		AT04-12PB-RD01	12-Way Receptacle, Male Connector with B Position Key and Reduced Diameter Seal (E-Seal). Black	
		AT04-12PC-RD01	12-Way Receptacle, Male Connector with C Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal), Green	AW12P
	· · · · · · · · · · · · · · · · · · ·	AT04-12PD-RD01	12-Way Receptacle, Male Connector with D Position Key and Reduced Diameter Seal (E-Seal), Brown	

AT SERIES PLUG END CAPS END CAPS

AT

13A

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

Plug	Faceview	Part Number	Description	Wedgelock Part Number
		AT06-2S-EC01	2-Way Plug, Female Connector with End Cap	5, 91
		AT06-2S-EC01BLK	2-Way Plug, Black Female Connector with End Cap, Black	AW2S
E Co	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
Co	0-00	AT06-4S-EC01	4-Way Plug, Female Connector with End Cap	
	$\left[\circ \circ \right]$	AT06-4S-EC01BLK	4-Way Plug, Black Female Connector with End Cap	AW4S
E		AT06-6S-EC01	6-Way Plug, Female Connector with End Cap	222
*		AT06-6S-EC01BLK	6-Way Plug, Black Female Connector with End Cap	AW6S
		AT06-08SA-EC01	8-Way Plug, Female Connector with A Position Key and End Cap	AW8S
Sime and the second sec		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
		AT04-3P-EC01	3-Way Receptacle, Male Connector with End Cap	
E		AT04-3P-EC01BLK	3-Way Receptacle, Male Connector with End Cap, Black	AW3P
		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
		AT04-6P-EC01	6-Way Receptacle, Male Connector with End Cap	-
		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
and the second s		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

13A 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
	() () ()	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
Contraction of the second seco		AT06-4S-MM01	4-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	
	$\bigcirc \bigcirc \bigcirc$	AT06-4S-MM01BLK	4-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW4S
		AT06-6S-MM01	6-Way Plug, Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	222
	000	AT06-6S-MM01BLK	6-Way Plug, Black Female Connector with Reduced Diameter Seal (E-Seal) and End Cap	AW6S
		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
	<u> </u>	AT06-12SA-MM01	12-Way Plug, Female Connector with A Position Key and Reduced Diameter Seal (E-Seal) and End Cap	
	0 00000	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

INDUSTRIAL AMPHENOL

AT

END CAPS +

REDUCED DIA. SEAL

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
		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
	(<u>)</u>	AT04-3P-MM01	3-Way Receptacle, Male Connector with Reduced Diameter Seal (E-Seal) and End Cap	
		AT04-3P-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	
		AT04-4P-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	
		AT04-08PA-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	
No.		AT04-12PA-MMBLK	12-Way Receptacle, Black Male Connector with A Position Key and Extended Shroud, Reduced Diameter Seal (E-Seal) and End Cap	AW12P

CONNECTOR SOLUTIONS

INDUSTRIAL@AMPHENOL

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

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

AT SOLID REAR SEAL 13A

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

Receptacles	Face View	Part Number	Description
C.		AT04-2P-SS01	2-Way Receptacle, Male Connector with Solid Rear Grommet
IL:		AT04-3P-SS01	3-Way Receptacle, Male Connector with Solid Rear Grommet
		AT04-4P-SS01	4-Way Receptacle, Male Connector with Solid Rear Grommet
		AT04-6P-SS01	6-Way Receptacle, Male Connector with Solid Rear Grommet
		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

AT SERIES PLUG 12 VOLT LED OPTIONS

-(2)

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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			
Contra la	AT06-2S-LED1201	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)				
Contra	AT06-2S-LED1202	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, Reduced Seal, SR01, CLEAR LED (Requires Wedgelock P/N: AW2S-LED)				
Contra	AT06-2S-LED1220	2-Way, Plug, LED, 12V, Clear endcap, Grey Body, SR01, <mark>RED LED</mark> (Requires Wedgelock P/N: AW2S-LED)	AWS2S-LED			
Car	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 icluded, Grey, Clear endcap, CLEAR LED				
	AT06-2S-LED12K2	2-Way LED Plug Kit, 12V, Contacts and Wedge icluded, Reduced Seal, Grey, Clear endcap, CLEAR LED				

LED Color Options: **Connector Body Colors:** Gray 12V Clear 0 0 Black 24V Red 0 Green Latching Clip -12VDC / -24VDC ntegral PCB Board / LED 12V Op Seal (Clear) Standard AT Series** +12VDC / +24VDC LED CONNECTOR DIAGRAM

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			
	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)				
C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	AT06-2S-LED2420	2-Way, Plug, LED, 24V, Clear endcap, Grey Body, SR01, <mark>RED LED</mark> (Requires Wedgelock P/N: AW2S-LED)	AWS2S-LED			
C.C.C.	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 icluded, Black, Clear endcap, CLEAR LED				
	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

--- LED OPTIONS

13A/ 24V

AT SERIES RECEPTACLE PROTECTIVE COVERS

Part	Face View	Part Number	Description
		AT06-2S-CAP	2-way Protective Cover for Plug, Black
Serie Contraction		AT06-3S-CAP	3-way Protective Cover for Plug, Black
		AT06-4S-CAP	4-way Protective Cover for Plug, Black
and the second s		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.

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
		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
	0 0000	AT06-3S-SR- 01BLK	Plug, 3-Way, Strain Relief, Black	AW3S-1939 Wedgelock,Plug, 3-Way, J-1939, Blue AW3S Wedgelock, Plug, 3-Way
No.		AT06-3S-RJ120	Plug, 3-Way, J-1939, 120 Ohr (Blue wedgeloo	
		AT06-3S-RJL120	Plug, 3-Way, J-1939, 120 Ohm Re Guard (Blue wedg	

AT

13A

J-1939



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
			AT Series™ 6-Way Receptacle to RJ45 8-Way Receptacle
		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
S		AT04-2P-R120YEL	Resistor	2-Way, Receptacle, 120 Ohm Resistor, NI Pins, Wedgelock, Yellow
S		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
6				
		AT06-2S-R120YEL	Resistor	2-Way, Plug, 120 Ohm Resistor, NI Sockets, Standard Wedgelock, Yellow
		AT06-2S-R120YEL AT06-3S-RJ120BK	Resistor Resistor	
				Wedgelock, Yellow 3-Way, Plug, J1939-11, 120 Ohm Resistor, Gold Sockets, Blue

NOTE: Resistor is between A and B position.



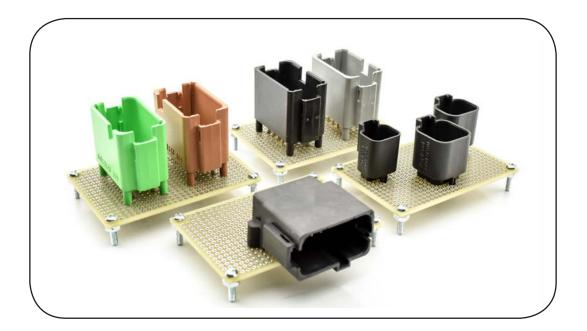
Extended Body AT Plugs Designed for Overmolding

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
and the second s		AT06-2S-OMGRY	2-Way Custom Overmold Plug, Socket, Gray	
		AT06-2S-OMBLK	2-Way Custom Overmold Plug, Socket, Black	
		Ato6-2S-OMBLU	2-Way Custom Overmold Plug, Socket, Blue	
		AT06-2S-OMBRN	2-Way Custom Overmold Plug, Socket, Brown	6.6
		AT06-2S-OMGRN	2-Way Custom Overmold Plug, Socket, Green	AW2S
		AT06-2S-OMRED	2-Way Custom Overmold Plug, Socket, Red	
a constant		AT06-2S-OMWHT	2-Way Custom Overmold Plug, Socket, White	
		AT06-2S-OMYEL	2-Way Custom Overmold Plug, Socket, Yellow	

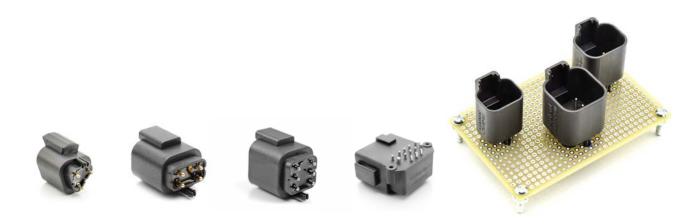
NOTE: These custom products are a sampling of the options available. For more options, please contact your Sales Representative.

Board Lock[™]



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 | Lock™ 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 SERIES BOARD | LOCK RECEPTACLES

AT Board Lock 2-13 POSITIONS 13A

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
Ů	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
	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,Ш	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
	ATF13-08PC-BM02	8 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Green

Continued on next page

AT Board Lock 2-13 POSITIONS 13A 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
	ATF13-12PB-BM02	12 Pos. 90° Recep., Pin, Nickel contact plating, PCB, Board Mount, Black
<u> </u> ↓	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 | Mate[™] 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
H. H	AT04-08PB-PM14	8 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Cap, Keyed B	16
₩ , 9	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
	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

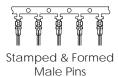
Part Number	Description	Contact Size
AT04-12PA-PM11	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Keyed A	16
AT04-12PA-PM12	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, RD01 Seal, Keyed A	16
AT04-12PA-PM13	12 Pos. Receptacle, Pin, Panel Mount, Self-Threading, Cap, Keyed A	16
AT04-12PA-PM14	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
ΔT1612-13PB-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	-

AT SERIES 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.



Solid/Machined Male Pins



Solid/Machined Female Sockets

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 Female Contact - Socket, Gold-plated		
AT	16	16-20	Solid	AT62-201-1631			
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

CONTACTS

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 🍝	2	12-16		AT1612-PB-G7	Gasket for 13-Way Receptacle (ONLY)				

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
Star I	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)
the state	MFX-3975	Crimp Die - Size 16, 14-16AWG (Stamped & Formed Contacts)
	ATT-16-00	Size 16, 14-16AWG, Stamped & Formed Contact Tool
	ATT-16-01	Size 16, 18-20AWG, Stamped & Formed Contact Tool

AT

CONNECTOR SOLUTIONS

Part	Part Number	Description		
Amphunol ATTR-100 upret simuto som	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[™] Contact Removal Tools

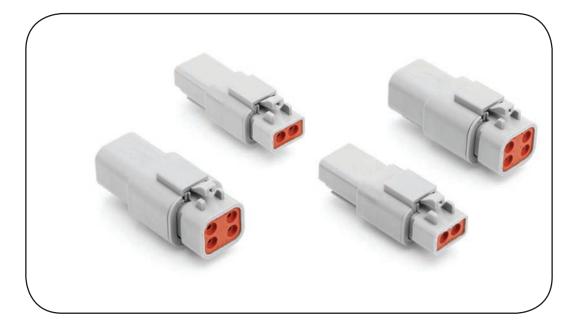
AT FIELD REPAIR KITS 13A AT SERIES FIELD REPAIR KITS

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.) AT04-3P: 3 Pos. Recep. (10 qty.) AT04-4P: 4 Pos. Recep. (10 qty.) AT04-6P: 6 Pos. Recep. (10 qty.) AT04-08PA: 8 Pos. Recep. (5 qty.) AT04-08PA: 8 Pos. Recep. (5 qty.) AT06-2S: 2 Pos. Plug (15 qty.) AT06-2S: 2 Pos. Plug (10 qty.) AT06-4S: 4 Pos. Plug (10 qty.) AT06-4S: 4 Pos. Plug (10 qty.) AT06-68SA: 8 Pos. Plug (5 qty.) AT06-12SA: 12 Pos. Recep. Wedge (15 qty.) AW2P: 2 Pos. Recep. Wedge (10 qty.) AW4P: 4 Pos. Recep. Wedge (10 qty.) AW4P: 4 Pos. Recep. Wedge (10 qty.) AW4P: 4 Pos. Recep. Wedge (5 qty.) AW2P: 2 Pos. Recep. Wedge (5 qty.) AW3P: 3 Pos. Recep. Wedge (5 qty.) AW4P: 4 Pos. Recep. Wedge (5 qty.) AW3P: 3 Pos. Recep. Wedge (5 qty.) AW3P: 3 Pos. Recep. Wedge (5 qty.) AW3P: 3 Pos. Recep. Wedge (10 qty.) AW4P: 4 Pos. Recep. Wedge (10 qty.) AW4S: 4 Pos. Plug Wedge (10 qty.) AW3S: 3 Pos. Plug Wedge (10 qty.) AW3S: 8 Pos. Plug Wedge (10 qty.) AW4S: 4 Pos. Plug Wedge (10 qty.) AW4S: 4 Pos. Plug Wedge (10 qty.) AW4S: 4 Pos. Plug Wedge (5 qty.) AW12S: 12 Pos. Plug Wedge (5 qty.) AT62-201-1614: Female Contacts - Machined (150 qty.) AT62-201-1614: Removal Tool for Contact/Wedges (1 qty.) AT-RC1100: Universal Repair Case Tool (1 qty.) AT-RC1100: Universal Repair Case Tool (1 qty.) AT-RC1100: Removal Tool for Contact/Wedges (1 qty.) AT-RC1100: Removal Tool for Contact/Wedges (1 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.) AT06-4S: 2 Pos. Plug (5 qty.) AT06-4S: 4 Pos. Plug (5 qty.) AT06-4S: 4 Pos. Plug (5 qty.) AT06-6S: 6 Pos. Plug (1 qty.) AT06-6SA: 8 Pos. Plug (1 qty.) AT06-6SA: 8 Pos. Plug (1 qty.) AT06-12SA: 12 Pos. Plug (1 qty.) AT06-12SA: 12 Pos. Plug (5 qty.) AW2P: 2 Pos. Recep. Wedge (5 qty.) AW4P: 4 Pos. Recep. Wedge (5 qty.) AW4P: 4 Pos. Recep. Wedge (5 qty.) AW4P: 4 Pos. Recep. Wedge (1 qty.) AW4P: 4 Pos. Recep. Wedge (1 qty.) AW3P: 3 Pos. Recep. Wedge (1 qty.) AW3P: 3 Pos. Recep. Wedge (1 qty.) AW3P: 3 Pos. Plug Wedge (5 qty.) AW3S: 3 Pos. Plug Wedge (5 qty.) AW3S: 3 Pos. Plug Wedge (5 qty.) AW3S: 3 Pos. Plug Wedge (5 qty.) AW4S: 4 Pos. Plug Wedge (1 qty.) AT62-201-1614: Female Contacts - Machined (50 qty.) AT60-202-16141: Male Contacts - Machined (50 qty.) ATR1-100: Removal Tool for Contact/Wedges (1 qty.) ATR1-100: Removal Tool for Contact/Wedges (1 qty.) AT14017: Blank Seal 16Awg (10 qty.)

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ATP SeriesTM

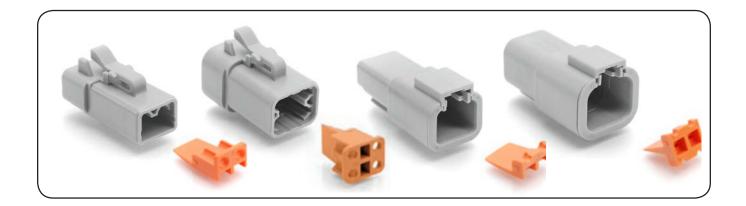


ATP Series[™]

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	Size 12, 25A (max)
Wire Range	Size 12 contacts will accept wire ranges of 12 thru 14AWG
Temperature	Operative at temperatures from -55°C to +125°C. Continuous at rated current.
Dielectric Withstanding Voltage	Current leak less than 2 milliamps at 1500 VAC
Physical Shock	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".
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.
Insulation Resistance	1000 megohms minimum at 25°C
Corrosion Resistance	Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.
Submersion	IP67. Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial application.
Contact Retention Contacts (mini- mum load)	70lbs. for Size 12 contacts.
Thermal Cycle	No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.
Durability	No electrical or mechanical defects after 100 cycles of engagement and disengagement.

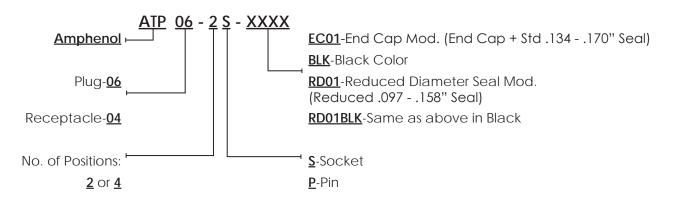
ATP Series™

Contacts

Features & Benefits, cont.

Contact Resistence		Wire Sealing Range		
Contacts	Size 12	Contacts	Size 12	
Wire Guage	12AWG	Recommended Wire Installation O.D.	Standard (S-Seal) .134195" Thin Wall (RD-Seal) .097158"	
Contact Milivolt Drop		p max; 100 mV (stamped	12AWG conductor - 60 mV d & formed contact) drop max	
Product Material				
Shell	Thermoplastic			
Seals	Silicone Elastomer			
Wedge	Thermoplastic			

ATP Series[™] Part Numbering Sequence

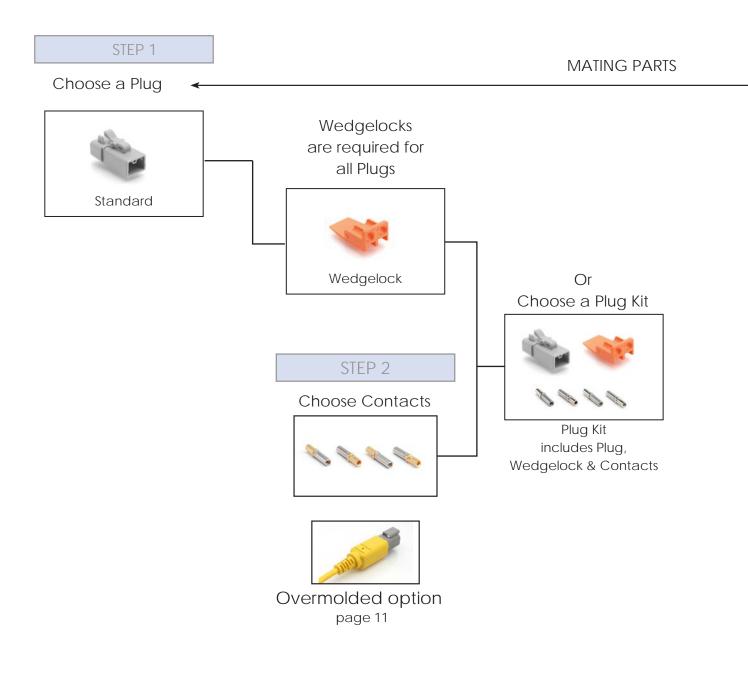


Pins: Copper alloy; Sockets: Copper alloy; Finish: Nickel-plated (optional Gold)

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

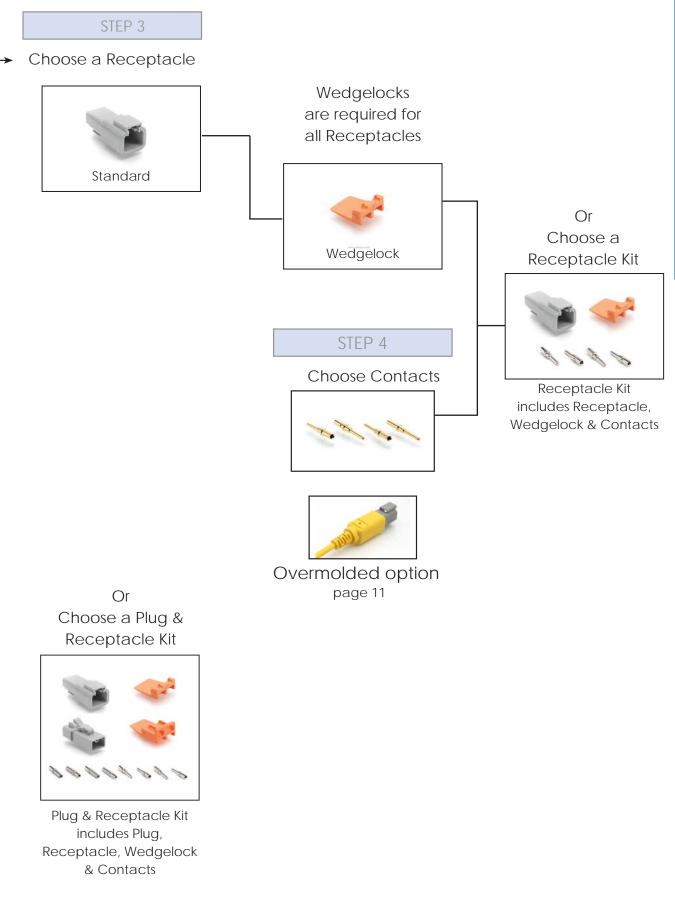
NOTE: The above modifications (-XXXX) are only a sampling of the options available to our customers. For more information, please contact your Sales Representative.

ATP Series[™] Connector Configurations



Need a complete Cable Assembly?

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



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
A REAL PROPERTY AND A REAL	ATP06-2S	Plug, 2-Way			AWP-2S	Wedgelock Plug, 2-Way
1000 1000	ATP06-2S-KIT01	2 Socket Plug, Wedge and Contacts Kit				
a state	ATP06-2S-BLK	Plug, 2-Way Black			AWP-2S	Wedgelock Plug, 2-Way

Receptacle	Part Number	Description		Wedgelock	Part Number	Description	
	ATP04-2P	Receptacle, 2-Way		A A A	AWP-2P	Wedgelock Receptacle, 2-Way	
4040	ATP04-2P- KIT01	2 Pin Receptacle, Wedge and Contacts Kit					
	ATP04-2P-BLK	Receptacle, 2-Way Black		and a	AWP-2P	Wedgelock Receptacle, 2-Way	

Plug & Receptacle Kit	Part Number	Description
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	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
	ATPO6-4S	Plug, 4-Way		N OF	AWP-4S	Wedgelock Plug, 4-Way
in 1000	ATP06-4S-KIT01	4 Socket Plug, Wedge and Contacts Kit				
	ATP06-4S-BLK	Plug, 4-Way Black		Rate	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
1 0 4 0 1 0 4 0	ATP04-4P- KIT01	4 Pir	ר R	eceptacle, Wedg	ge and Conta	cts Kit
	ATPO4-4P-BLK	Receptacle, 4-Way Black		-	AWP-4P	Wedgelock Receptacle, 4-Way

Plug & Receptacle Kit	Part Number	Description
() () () () () () () () () () () () () (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

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ATP

25A

4 POSITIONS

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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
		ATP06-2S-EC01	2-Way Plug, Female Con- nector with End Cap	AWP-2S
Contraction of the second		ATP06-4S-EC01	4-Way Plug, Female Con- nector with End Cap	AWP-4S

Receptacle	Faceview	Part Number	Description	Wedgelock Part Number
		ATP04-2P-EC01	2-Way Receptacle, Male Connector with End Cap	AWP-2P
		ATP04-4P-EC01	4-Way Receptacle, Male Connector with End Cap	AWP-4P

NOTE: Wedgelocks are required for all plug and receptacles.

ATP SERIES STANDARD PLUG and RECEPTACLE REDUCED DIAMETER SEALS 25A

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

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

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

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

NOTE: Wedgelocks are required for all plug and receptacles.

ATP Panel Mate[™]



ATP Panel | MateTM Series 2, 4, 13 Position / Size 12, 25A 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 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	Size 12, 25A (max)
Wire Range	Size 12 contacts will accept wire ranges of 10 thru 14AWG
Temperature	Operative at temperatures from -55°C to +125°C. Continuous at rated current.
Dielectric Withstanding Voltage	Current leak less than 2 milliamps at 1500 VAC
Physical Shock	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".
Vibration	Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.
Insulation Resistance	1000 megohms minimum at 25°C
Corrosion Resistance	Connectors show no evidence of corrosion after exposure to 48 hours of salt spray per MIL - STD 1344, method 1001.
Submersion	IP67. Wired and mated connection will withstand immersion under three feet of water without loss of electronic qualities or leakage.
Fluid Resistance	Connectors show no damage when exposed to most fluids used in industrial application.
Contact Retention Contacts (mini- mum load)	70lbs. for Size 12 contacts.
Thermal Cycle	No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.
Durability	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.

ATP Panel | Mate 2,4,13 POSITIONS 16A, 25A

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	107GEC 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
\bigcirc	AT1612-PB-G7	Gasket for 12, 13 Position Receptacle	-	-

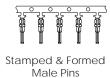
ATP SERIES STANDARD CONTACTS

ATP CONTACTS

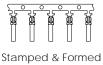
Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style termination, requiring no solder usage.



Solid/Machined Male Pins



Solid/Machined Female Sockets



Stamped & Formed Female Sockets

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

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
Star F	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
	MFX-3973	Crimp Die - Size 12 (Stamped & Formed Contacts)
CONTROL AND	ATT-12-00	Size 12, 12AWG, Stamped & Formed Contact Tool

AT Series[™] Contact Removal Tool

Part	Part Number	Description
Amphanal Attit-100 great shrinon sam	ATRT-100	Used for removal of contacts for AT Series™ products



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

Backshells

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

CONNECTOR SOLUTIONS

AHD Series[™]



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.

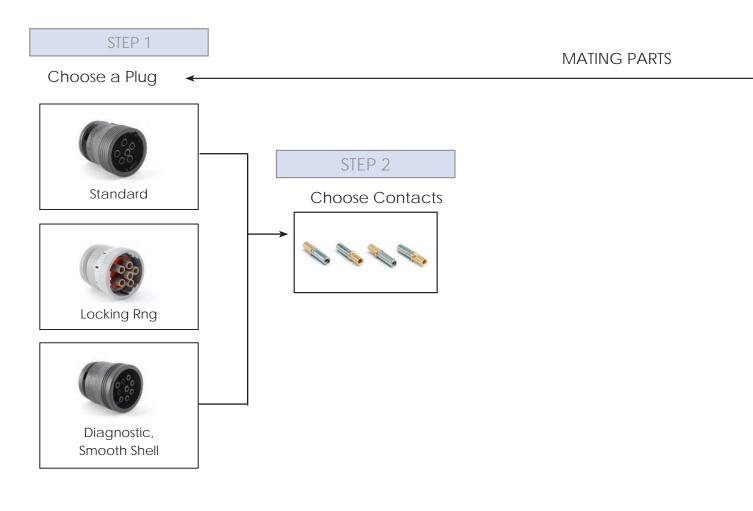
Tactile verification for blind mating
Extended service life
-55°C TO +125°C - Wide range compatibility
Low overall cost
Environmentally friendly
Certified and compliant
DiagnosticGrade™ / Military Style: At +125°C, continuous, less thru wire: #12 contact = 25A max. current; #16 contact = 13A max. current
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 Seals Contacts

Thermoplastic
Silicone Elastomer
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









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
(3)	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
	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
(Fin	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
10 miles	AHD10-9-1939P80	9 Position, Receptacle, HD Series, Flange, Green, Type II Size 16 pin contacts only
L	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
	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 SERIES STANDARD

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
C	AHD10-9-1939PNR	AHD Series™, 9-Way, Receptacle, Unsealed

Receptacle Caps - 6 and 9 positions

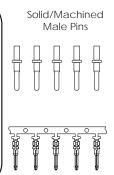
Сар	Part Number	Description
	AHDC-16-6	6 Position, Receptacle, Cap, Grey
	AHDC-16-9	9 Position, Receptacle, Cap, Grey
	AHDC-16-9-BLK	9 Position, Receptacle, Cap, Black
	AHDC-16-9-OBDGN	9 Position Receptacle Cap, Green, OBD Label
	AHDC-16-9-OBDBK	9 Position, Receptacle, Cap, Black, OBD Label
	AHDC169-T-OBDGN	9 Pin Receptacle Cap w/ Rubber Tether Green, OBD Label
0	AHDC169-T-OBDBK	9 Position, Receptacle, Cap w/ Tether, Black, OBD Label
٢	AHDC169-TMOBDBK	9 Position, Receptacle, Cap w/ Wire Tether, Black, OBD Label
٢	AHDC169-TMOBDGN	9 Position, Receptacle, Cap w/ Wire Tether, Green, OBD Label
	AHDC169-T	9 Position, Receptacle, Cap w/ Tether, Grey
0	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

CONNECTOR SOLUTIONS

CONTACTS AHD SERIES CONTACTS

AHD





Solid/Machined Female Sockets





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	

AHD

TOOLS

Crimp Tools

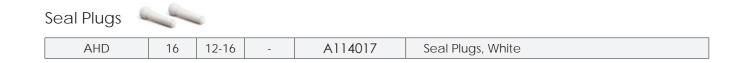
Amphenol offers two types of contacts for use in our products: Solid and Stamped & Formed. Both types of contacts utilize the simple crimp-style requiring no solder usage. Below are the tools available to assist with your crimping needs to ensure a proper connection between contact and wire.

Part	Part Number	Description
	CA-5D12	Universal Hand Crimp Tool, Size 12/16/20 *Solid contacts only
Star i	CA-5E12	Pneumatic Crimp Tool, Size 12/16/20 *Solid contacts only
200	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)
No. Contraction	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 SERIES CUSTOM PRODUCTS

AHD CUSTOM

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 Series[™]



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[™] RECEPTACLES



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 am- plitude 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 perpen- dicular planes. No electrical discontinuities longer than 1 microsecond. MIL STD 202, Method 213, Condition "C"

PART NUMBERING SEQUENCE

<u>ATC</u> 1	<u>10</u> 2	- <u>9-1939</u> 3	<u>Р</u> 4	N	
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 Re- ceptacle		
AWS9-1939	Wave Spring for Small Flange J1939 Receptacle		



ATHD Series[™]



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	

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ATHD Series[™] PLUGS & RECEPTACLES

ATHD Series™

PART NUMBERS FOR TERMINALS

	- <u>N</u> - <u>S</u> - <u>12</u> <u>XX</u> 4 5 6 7
1 Series 2 One termina 3 Gender	al P = Pin S = Socket
4 Plating	
, in the second s	G= Gold S= Silver (machined only) N= Nickel T= Tin
5 Contacts	
6 Contact Size	S= Stamped & Formed (size 12 only) M= Machined 8 or 12
7 Special Add	
	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 12 5 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				ATHD Receptacle	9
Contact Size	Overall Length			Overall Length		
	A	В	С	A	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.

ATHD

35-70A

CONNECTORS

Dura Mate[™]



Circular Plastic Connectors for Heavy Duty Applications

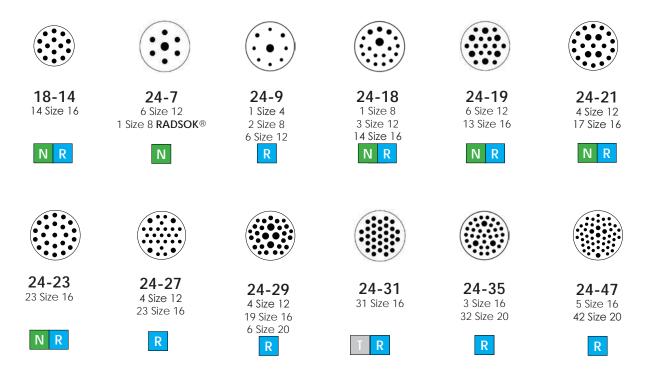
Dura | Mate

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.



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

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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 $\begin{pmatrix} 3 \end{pmatrix}$
- Optional 2-piece threaded backshell with compression nut (4 •
- Optional Size 24 snap over staight and 90° conduit strain relief backshell (5) .
- Contact removal tools (6) •
- **RADSOK**[®] contacts (7)

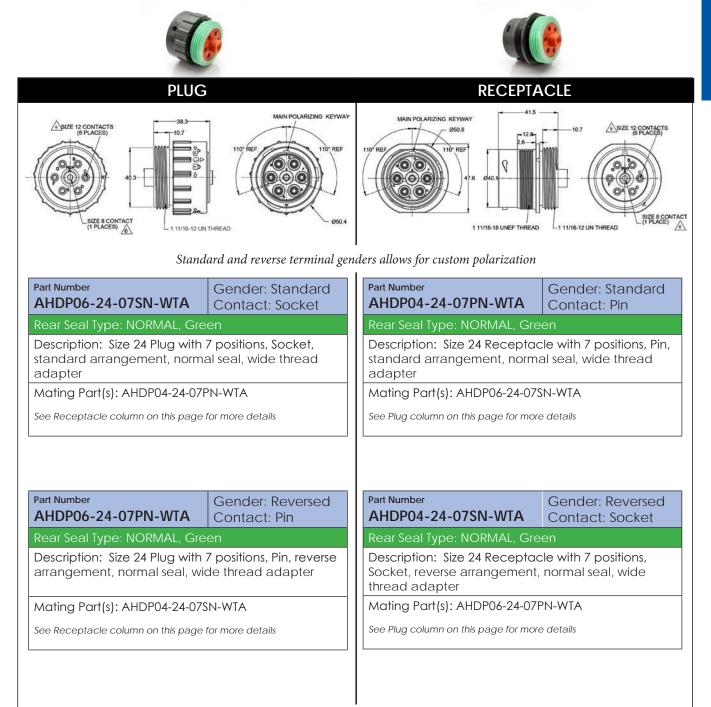




DURA|MATE **7 POSITIONS** 25A,80A

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



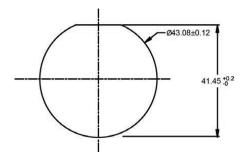
For custom insert configurations, please call 1 800 394 7732



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

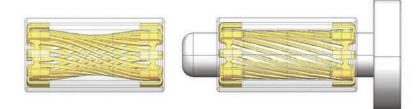
Recommended Panel Mounting Hole Recommended panel thickness: 1.6 to 4.7mm





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**[®] 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.

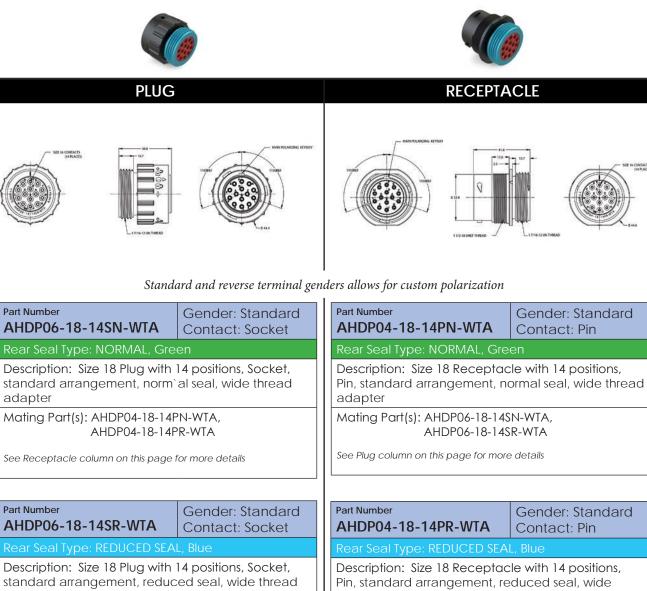
High Mating Cycle Durability

RADSOK[®] 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

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



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

See Receptacle column on this page for more details

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

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Shell Sizo 18

PLUG			RECEPT	ACLE		
Part Number AHDP06-18-14PN-WTA	Gender: Reversed Contact: Pin		Part Number AHDP04-18-14SN-WTA	Gender: Reversed Contact: Socket		
Rear Seal Type: NORMAL, Green			Rear Seal Type: NORMAL, Green			
Description: Size 18 Plug with 14 positions, Pin, eversed arrangement, normal seal, wide thread idapter			Description: Size 18 Receptacle with 14 positions, Socket, standard arrangement, normal seal, wide thread adapter			
Mating Part(s): AHDP04-18-145 AHDP04-18-145		Mating Part(s): AHDP06-18-14PN-WTA, AHDP06-18-14PR-WTA				
See Receptacle column on this page	for more details	See Plug column on this page for more details				
Part Number AHDP06-18-14PR-WTA	Gender: Reversed Contact: Pin		Part Number AHDP04-18-14SR-WTA	Gender: Reversed Contact: Socket		
Rear Seal Type: REDUCED SEA	L, Blue		Rear Seal Type: REDUCED SE	AL, Blue		
Description: Size 18 Plug with reversed arrangement, reduc adapter			Description: Size 18 Recepto Socket, reversed arrangeme thread adapter			
Mating Part(s): AHDP04-18-14SN-WTA, AHDP04-18-14SR-WTA			Mating Part(s): AHDP06-18-14PN-WTA, AHDP06-18-14PR-WTA			
See Receptacle column on this page for more details			See Plug column on this page for mo	pre details		

CONTACTS

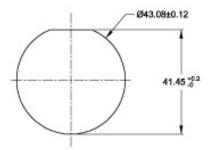
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141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



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









	1	1	-
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		
SEE & CONTACTS DRAKES ORACS	HANN POLAECING BETWAR INP REF INP REF INP REF INP REF INP REF INP REF INP REF INP REF INP REF INP REF	HANTPLEEDE ETNAY	SIT OF CONTACTS (PRACE) SIT OF CONTACTS (PRACE) (PRACE	
Stand	ard and reverse terminal ger	<i>iders allows for custom polarization</i>		
Part Number AHDP06-24-09SR-WTA	Gender: Standard Contact: Socket	Part Number AHDP04-24-09PR-WTA	Gender: Standard Contact: Pin	
Rear Seal Type: REDUCED SEA	L, Blue	Rear Seal Type: REDUCED SEA	L, Blue	
Description: Size 24 Plug with standard arrangement, reduce adapter		Description: Size 24 Receptor standard arrangement, reduct adapter		
Mating Part(s): AHDP04-24-09F	PR-WTA	Mating Part(s): AHDP06-24-09SR-WTA		
See Receptacle column on this page	for more details	See Plug column on this page for more details		
Part Number AHDP06-24-09PR-WTA	Gender: Reversed Contact: Pin	Part Number AHDP04-24-09SR-WTA	Gender: Reversed Contact: Socket	
Rear Seal Type: REDUCED SEA		Rear Seal Type: REDUCED SEA		
Description: Size 24 Plug, 9 po arrangment, reduced seal, wi	sitions, Pin, reversed	Description: Size 24 Receptacle, 9 positions, Socket, reversed arrangement, reduced seal, wide thread adapter		
Mating Part(s): AHDP04-24-09S	R-WTA	Mating Part(s): AHDP06-24-09PR-WTA		
See Receptacle column on this page for more details		See Plug column on this page for more details		
For custon	n insert configuratio	ons, please call 1 800 394	7732	

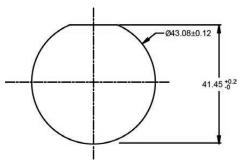
CONNECTOR SOLUTIONS

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











			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





Part Number AHDP06-24-18SN-WTA	Gender: Standard Contact: Socket		Part Number AHDP04-24-18PN-WTA	Gender: Standard Contact: Pin			
Rear Seal Type: NORMAL, GR	EEN		Rear Seal Type: NORMAL, GRE	EN			
Description: Size 24 Plug, 18 positions, socket, standard arrangement, normal seal, wide thread adapter			Description: Size 24 Receptacle, 18 positions, Pin, standard arrangement, normal seal, wide thread adapter				
Mating Part(s): AHDP04-24-18 AHDP04-24-18		Mating Part(s): AHDP06-24-18SN-WTA, AHDP06-24-18SR-WTA					
See Receptacle column on this page	for more details		See Plug column on this page for more	e details			
Part Number AHDP06-24-18SR-WTA	Gender: Standard Contact: Socket		Part Number AHDP04-24-18PR-WTA	Gender: Standard Contact: Pin			
Rear Seal Type: REDUCED SEA	L, Blue		Rear Seal Type: NORMAL, Blue	e			
Description: Size 24 Plug, 18 positions, socket,standard arrangement, reduced seal, wide thread adapter			Description: Size 24 Receptor standard arrangement, reduce adapter				
Mating Part(s): AHDP04-24-18PN-WTA, AHDP04-24-18PR-WTA			Mating Part(s): AHDP06-24-18SN-WTA, AHDP06-24-18SR-WTA				
See Receptacle column on this page	for more details		See Plug column on this page for mor	e details			

For custom insert configurations, please call 1 800 394 7732



DURA | MATE 18 POSITIONS

60A, 25A, 13A



Shell Size 24

PLUC		RECEPTACLE				
Standard and reverse terminal genders allows for custom polarization						
Part Number AHDP06-24-18PN-WTA	Gender: Reversed Contact: Pin	Part Number AHDP04-24-18SN-WTA	Gender: Reversed Contact: Socket			
Rear Seal Type: NORMAL, GI	REEN	Rear Seal Type: NORMAL, GREEN				
Description: Size 24 Plug, 18 arangment, normal seal, wic		Description: Size 24 Receptacle, 18 positions, socket, reversed arrangment, normal seal, wide thread adapter				
Mating Part(s): AHDP04-24-18SN-WTA, AHDP04-24-18SR-WTA		Mating Part(s): AHDP06-24-18PN-WTA, AHDP06-24-18PR-WTA				
See Receptacle column on this pag	e for more details	See Plug column on this page for more details				
Part Number AHDP06-24-18PR-WTA	Gender: Reversed	Part Number	Gender: Reversed			
ADP00-24-18PR-WIA	Contact: Pin	AHDP04-24-18SR-WTA	Contact: Socket			
Rear Seal Type: REDUCED SE		AHDP04-24-18SR-WTA Rear Seal Type: NORMAL, Blu				
	AL, Blue positions, pin, reversed		e cle, 18 positions, socket,			
Rear Seal Type: REDUCED SE Description: Size 24 Plug, 18	AL, Blue positions, pin, reversed ride thread adapter 3SN-WTA,	Rear Seal Type: NORMAL, Blu Description: Size 24 Receptor reversed arrangment, reduce	e cle, 18 positions, socket, ed seal, wide thread 3PN-WTA,			

For custom insert configurations, please call 1 800 394 7732



DURA | MATE 18 POSITIONS 60A, 25A,13A

CONTACTS

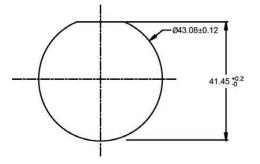
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
08	AT60-204-08141	Machined	Pin	8-10	60	Nickel
08	AT60-203-08141	Machined	Pin	8-10	60	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	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





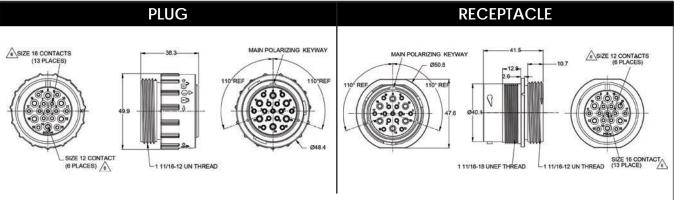
DURA MATE 19 POSITIONS 25A,13A

1011 SIZ 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







Standard and reverse terminal genders allows for custom polarization

Part Number AHDP06-24-19SN-WTA	Gender: Standard Contact: Socket	Part Number AHDP04-24-19PN-WTA	Gender: Standard Contact: Pin	
Rear Seal Type: NORMAL, Gre	en	Rear Seal Type: NORMAL, Gre	en	
Description: Size 24 Plug with standard arrangement, norma adapter		Description: Size 24 Receptor Pin, standard arrangement, r adapter		
Mating Part(s): AHDP04-24-19F AHDP04-24-19P		Mating Part(s): AHDP06-24-19SN-WTA, AHDP06-24-19SR-WTA		
See Receptacle column on this page f	for more details	See Plug column on this page for mor	e details	
Part Number				
	Gender: Standard Contact: Socket	Part Number AHDP04-24-19PR-WTA	Gender: Standard Contact: Pin	
AHDP06-24-19SR-WTA	Contact: Socket			
AHDP06-24-19SR-WTA Rear Seal Type: REDUCED SEA Description: Size 24 Plug with standard arrangement, RD01	Contact: Socket L, Blue 19 positions, Socket,	AHDP04-24-19PR-WTA	Contact: Pin L, Blue cle with 19 positions,	
AHDP06-24-19SR-WTA Rear Seal Type: REDUCED SEA Description: Size 24 Plug with standard arrangement, RD01 seal, wide thread adapter Mating Part(s): AHDP04-24-19P AHDP04-24-19P	Contact: Socket L, Blue 19 positions, Socket, reduced diameter PN-WTA,	AHDP04-24-19PR-WTA Rear Seal Type: REDUCED SEA Description: Size 24 Receptor Pin, standard arrangement, R	Contact: Pin AL, Blue cle with 19 positions, D01 reduced diamete SN-WTA,	

For custom insert configurations, please call 1 800 394 7732



19 POSITION PLUGS & RECEPTACLES - CONTACTS

Shell Size

24

PLUG			RECEPT	ACLE
Part Number AHDP06-24-19PN-WTA	Gender: Reversed Contact: Pin		Part NumberGender: ReversAHDP04-24-19SN-WTAContact: Socker	
Rear Seal Type: NORMAL, Gre	en		Rear Seal Type: NORMAL, Gre	een
Description: Size 24 Plug with 19 positions, Pin, Description: Size 24 Rece			Description: Size 24 Receptor Socket, reverse arrangement thread adapter	
Mating Part(s): AHDP04-24-19SN-WTA, AHDP04-24-19SR-WTA Mating Part(s): AHDP06-24-19PN-WTA, AHDP06-24-19PR-WTA				
See Receptacle column on this page	for more details		See Plug column on this page for mor	e details
Part Number AHDP06-24-19PR-WTA	Gender: Reversed Contact: Pin		Part Number AHDP04-24-19SR-WTA	Gender: Reversed Contact: Socket
Rear Seal Type: REDUCED SEA	L, Blue		Rear Seal Type: REDUCED SEA	L, Blue
	escription: Size 24 Plug with 19 positions, Pin, verse arrangement, RD01 reduced diameter seal, Socket, reverse arrangement, RD01 reduced			, RD01 reduced
Mating Part(s): AHDP04-24-19SN-WTA, AHDP04-24-19SR-WTA			Mating Part(s): AHDP06-24-19PN-WTA, AHDP06-24-19PR-WTA	
7(10) 04-24-173				
See Receptacle column on this page			See Plug column on this page for mo	re details
			See Plug column on this page for mo	re 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)

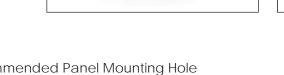


DURA | MATE 19 POSITIONS 25A,13A

Shell Size 24

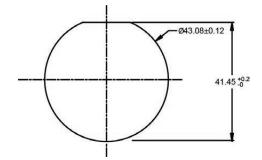
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT60-202-1631	Machined	Pin	16-20	13	Gold
16	AT60-202-16141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



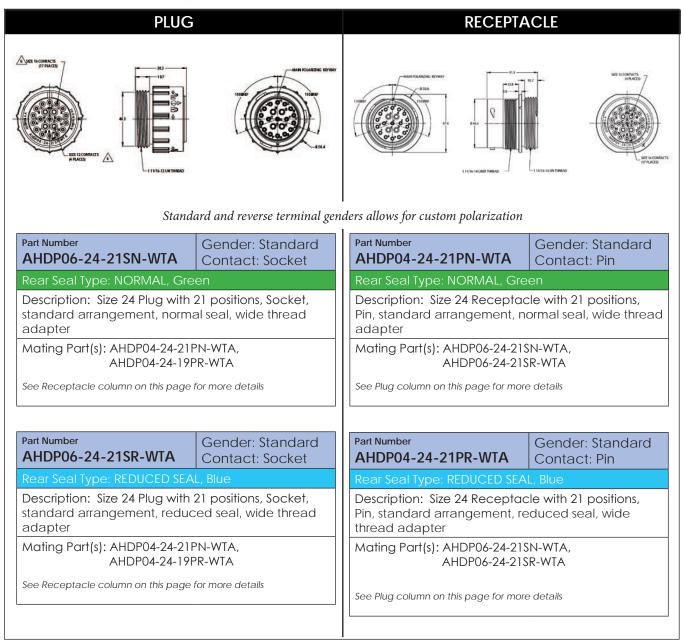


Shell Size

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







For custom insert configurations, please call 1 800 394 7732

21 POSITION PLUGS & RECEPTACLES - CONTACTS



Shell Size 24

PLU	G	RECEPT	ACLE		
Part Number AHDP06-24-21PN-WTA	Gender: Reversed Contact: Pin	Part NumberGender: ReverseAHDP04-24-21SN-WTAContact: Socket			
Rear Seal Type: NORMAL, G	reen	Rear Seal Type: NORMAL, Gr	een		
Description: Size 24 Plug wit reversed arrangement, norr adapter		Description: Size 24 Recepto Socket, reversed arrangeme thread adapter			
Mating Part(s): AHDP04-24-2 AHDP04-24-2	Mating Part(s): AHDP06-24-2 AHDP06-24-2				
See Receptacle column on this pag	e for more details	See Plug column on this page for mo	See Plug column on this page for more details		
Part Number AHDP06-24-21PR-WTA	Gender: Reversed Contact: Pin	Part Number AHDP04-24-21SR-WTA	Gender: Reversed Contact: Socket		
	Contact: Pin		Contact: Socket		
AHDP06-24-21PR-WTA	Contact: Pin CAL, Blue h 21 positions, Pin,	AHDP04-24-21SR-WTA	Contact: Socket AL, Blue Icle with 21 positions,		
AHDP06-24-21PR-WTA Rear Seal Type: REDUCED SE Description: Size 24 Plug wit reversed arrangement, redu	Contact: Pin AL, Blue h 21 positions, Pin, uced seal, wide thread	AHDP04-24-21SR-WTA Rear Seal Type: REDUCED SE Description: Size 24 Receptor Socket, reversed arrangement	Contact: Socket AL, Blue Icle with 21 positions, nt, reduced seal, wide		

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)

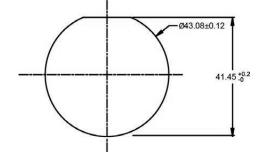
Shell Size 24

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



INDUSTRIAL@AMPHENOL



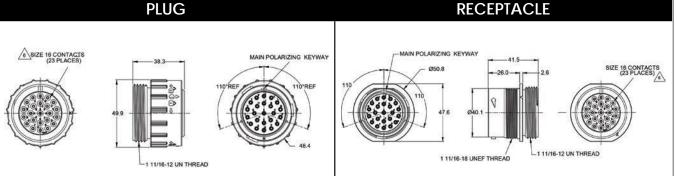
DURA | MATE 23 POSITIONS 13A

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







Standard and reverse terminal genders allows for custom polarization

standard arrangement, normal seal, wide thread adapter Pin, standard arrangement, normal seal, wide adapter Mating Part(s): AHDP04-24-23PN-WTA, AHDP04-24-23PR-WTA Mating Part(s): AHDP06-24-23SN-WTA, AHDP06-24-23SR-WTA See Receptacle column on this page for more details See Plug column on this page for more details Part Number Gender: Standard Contact: Socket See Plug column on this page for more details Part Number Gender: Standard Contact: Socket Gender: Standard Contact: Socket Rear Seal Type: REDUCED SEAL, Blue Part Number Gender: Standard Contact: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Description: Size 24 Receptacle with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter		Gender: Standard Contact: Socket	Part Number AHDP04-24-23PN-WTA	Gender: Standard Contact: Pin	
standard arrangement, normal seal, wide thread adapterPin, standard arrangement, normal seal, wide adapterMating Part(s): AHDP04-24-23PN-WTA, AHDP04-24-23PR-WTAPin, standard arrangement, normal seal, wide adapterSee Receptacle column on this page for more detailsSee Plug column on this page for more detailsPart Number AHDP06-24-23SR-WTAGender: Standard Contact: SocketRear Seal Type: REDUCED SEAL, BluePart Number Contact: Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapterMating Part(s): AHDP04-24-23PN-WTA,Description: Size 24 Plug with 23 positions, Socket, 	ar Seal Type: NORMAL SEAL, B	lue	Rear Seal Type: NORMAL, C	breen	
AHDP04-24-23PR-WTA AHDP06-24-23SR-WTA See Receptacle column on this page for more details See Plug column on this page for more details Part Number Gender: Standard Contact: Socket AHDP06-24-23SR-WTA Gender: Standard Contact: Socket Rear Seal Type: REDUCED SEAL, Blue Rear Seal Type: REDUCED SEAL, Blue Description: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Rear Seal Type: REDUCED SEAL, Blue Mating Part(s): AHDP04-24-23PN-WTA, Mating Part(s): AHDP06-24-23SN-WTA,	andard arrangement, normal s		Pin, standard arrangement		
Part Number Gender: Standard AHDP06-24-23SR-WTA Gender: Standard Rear Seal Type: REDUCED SEAL, Blue Rear Seal Type: REDUCED SEAL, Blue Description: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Rear Seal Type: REDUCED SEAL, Blue Description: Size 24 Receptacle with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Description: Size 24 Receptacle with 23 positions, Socket, Standard arrangement, RD01 reduced diameter seal, wide thread adapter Mating Part(s): AHDP04-24-23PN-WTA, Mating Part(s): AHDP06-24-23SN-WTA,	• • • •		Mating Part(s): AHDP06-24-23SN-WTA,		
AHDP06-24-23SR-WTA Contact: Socket AHDP04-24-23PR-WTA Contact: Pin Rear Seal Type: REDUCED SEAL, Blue Rear Seal Type: REDUCED SEAL, Blue Description: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Description: Size 24 Receptacle with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter Description: Size 24 Receptacle with 23 positions, Socket, Standard arrangement, RD01 reduced diameter seal, wide thread adapter Mating Part(s): AHDP04-24-23PN-WTA, Mating Part(s): AHDP06-24-23SN-WTA,	e Receptacle column on this page for	more details	See Plug column on this page for n	nore details	
Description: Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapterDescription: Size 24 Receptacle with 23 positi Pin, standard arrangement, RD01 reduced dia seal, wide thread adapterMating Part(s): AHDP04-24-23PN-WTA,Mating Part(s): AHDP06-24-23SN-WTA,					
Description:Size 24 Plug with 23 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapterDescription:Size 24 Receptacle with 23 positi Pin, standard arrangement, RD01 reduced dia seal, wide thread adapterMating Part(s):AHDP04-24-23PN-WTA,Mating Part(s):AHDP06-24-23SN-WTA,				Gender: Standard	
	HDP06-24-23SR-WTA	Contact: Socket	AHDP04-24-23PR-WTA	Contact: Pin	
	HDP06-24-23SR-WTA ear Seal Type: REDUCED SEAL, I escription: Size 24 Plug with 23 andard arrangement, RD01 red	Contact: Socket Blue positions, Socket,	AHDP04-24-23PR-WTA Rear Seal Type: REDUCED S Description: Size 24 Recept Pin, standard arrangement	Contact: Pin EAL, Blue acle with 23 positions,	
See Receptacle column on this page for more details See Plug column on this page for more details	HDP06-24-23SR-WTA ear Seal Type: REDUCED SEAL, I escription: Size 24 Plug with 23 andard arrangement, RD01 red al, wide thread adapter ating Part(s): AHDP04-24-23PN-	Contact: Socket Blue positions, Socket, duced diameter -WTA,	AHDP04-24-23PR-WTA Rear Seal Type: REDUCED S Description: Size 24 Recept Pin, standard arrangement seal, wide thread adapter Mating Part(s): AHDP06-24-	Contact: Pin EAL, Blue acle with 23 positions, RD01 reduced diameter 23SN-WTA,	

For custom insert configurations, please call 1 800 394 7732



Shell Size 24

PLUG			RECEPTA	ACLE
Part Number AHDP06-24-23PN-WTA	Gender: Reversed Contact: Pin		Part Number AHDP04-24-23SN-WTA	Gender: Reversed Contact: Socket
Rear Seal Type: NORMAL, Gre	en		Rear Seal Type: NORMAL, Gre	en
Description: Size 24 Plug with 2 reverse arrangement, normal adapter		psitions, Pin, Description: Size 24 Receptacle with 23 positions,		
0 11	thing Part(s): AHDP04-24-23SN-WTA, AHDP04-24-23SR-WTA AHDP06-24-23PR-WTA			
See Receptacle column on this page t	ceptacle column on this page for more details See Plug column on this page for more details			e details
Part Number AHDP06-24-23PR-WTA	Gender: Reversed Contact: Pin]	Part Number AHDP04-24-23SR-WTA	Gender: Reversed Contact: Socket
Rear Seal Type: REDUCED SEA	L, Blue		Rear Seal Type: REDUCED SEA	L, Blue
reverse arrangement, RD01 reduced diameter seal, Socket, rev			Description: Size 24 Receptor Socket, reverse arrangement, diameter seal, wide thread ac	RD01 reduced
Mating Part(s): AHDP04-24-23SN-WTA, AHDP04-24-23SR-WTA See Receptacle column on this page for more details			Mating Part(s): AHDP06-24-23 AHDP06-24-23 See Plug column on this page for more	PR-WTA

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

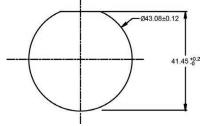
For custom insert configurations, please consult factory

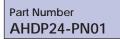


Shell Size 24

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: 1.6 to 4.7mm





Panel Nut, Shell Size 24

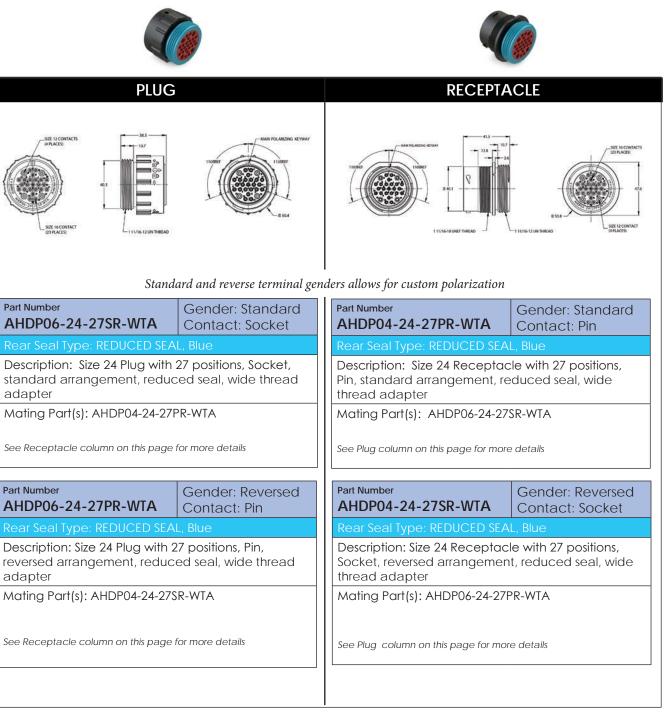






Shell Size

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



For custom insert configurations, please call 1 800 394 7732

27 POSITION CONTACTS



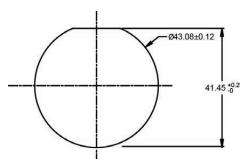
Shell Size 24

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



Shell Size 24



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

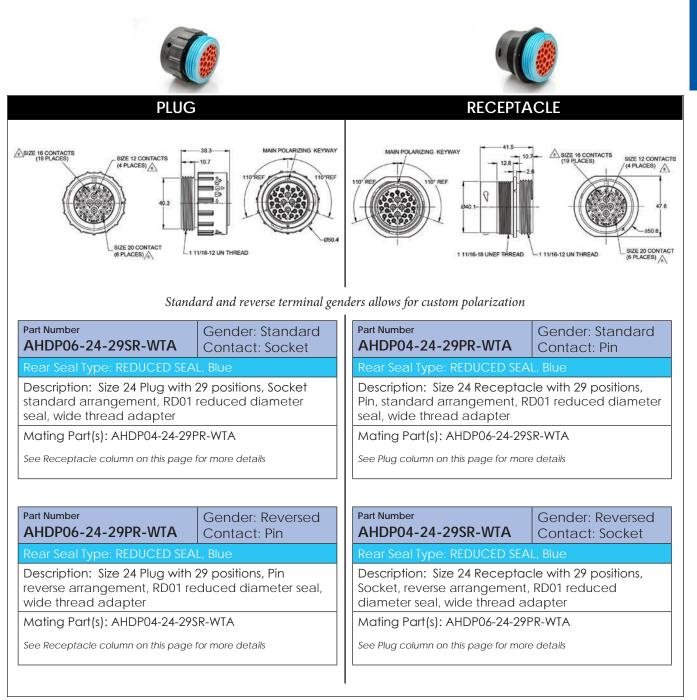




DURA MATE 29 POSITIONS 7.5A,13A,25A

nell Siz 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



For custom insert configurations, please call 1 800 394 7732



29 POSITION PLUGS & RECEPTACLES - CONTACTS

Shell Size 24

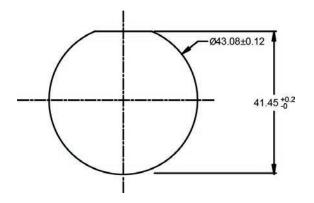
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
12	AT60-204-12141	Machined	Pin	12-14	25	Nickel
12	AT60-220-1231	Machined	Pin	12-14	25	Gold
12	AT62-203-12141	Machined	Socket	12-14	25	Nickel
12	AT62-210-1231	Machined	Socket	12-14	25	Gold
12	AT60-12-0222	Stamped & Formed	Pin	10-12	25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



DURA | MATE 29 POSITIONS 7.5A,13A,25A

Shell Size 24

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





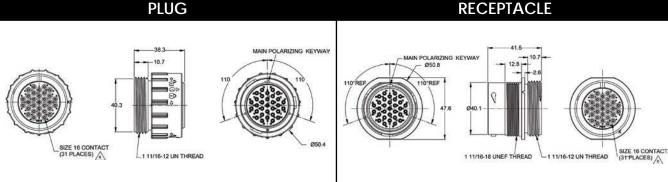




	Contact Size	16
ze	Contact Qty	31
	Seal OD Range	
	REDUCED SEAL	1.35mm (.053") - 3.05mm (.120")
	THIN SEAL	2.23mm (.088'') - 3.40mm (.134'')
	Wire Range (AWG)	14-20 AWG
	Amperage	13







Standard and reverse terminal genders allows for custom polarization

Part Number AHDP06-24-31SR-WTA	Gender: Standard Contact: Socket		Part Number AHDP04-24-31PR-WTA	Gender: Standard Contact: Pin	
Rear Seal Type: REDUCED SEAL, Blue			Rear Seal Type: REDUCED SEAL, Blue		
Description: Size 24 Plug with 31 positions, Socket, standard arrangement, RD01 reduced diameter seal, wide thread adapter			Description: Size 24 Receptacle with 31 positions, Pin, standard arrangement, RD01 reduced diameter seal, wide thread adapter		
Mating Part(s): AHDP04-24-31PR-WTA, AHDP04-24-31PT-WTA			Mating Part(s): AHDP06-24-315 AHDP06-24-315		
See Receptacle column on this page t	for more details		See Plug column on this page for more	e details	
Part NumberGender: StandardAHDP06-24-31ST-WTAContact: Socket			Part Number AHDP04-24-31PT-WTA	Gender: Standard Contact: Pin	
Rear Seal Type: THIN SEAL, Gre	зy		Rear Seal Type: THIN SEAL, Grey		
Description: Size 24 Plug with a standard arrangement, thin se adapter			Description: Size 24 Recepted Pin, standard arrangement, th adapter		
Mating Part(s): AHDP04-24-31PR-WTA, AHDP04-24-31PT-WTA			Mating Part(s): AHDP06-24-31SR-WTA, AHDP06-24-31ST-WTA		
See Receptacle column on this page for more details			See Plug column on this page for more	details	
See Receptacle column on this page t	for more details				

For custom insert configurations, please call 1 800 394 7732



hell Siz 24

PLUG		RECEPT	ACLE		
Part Number AHDP06-24-31PR-WTA	Gender: Reversed Contact: Pin	Part Number AHDP04-24-31SR-WTA	Gender: Reversed Contact: Socket		
Rear Seal Type: REDUCED SEA	L, Blue	Rear Seal Type: REDUCED SEA	AL, Blue		
Description: Size 24 Plug with 3 reverse arrangement, RD01 re wide thread adapter		Socket, reverse arrangement	Description: Size 24 Receptacle with 31 positions, Socket, reverse arrangement, RD01 reduced diameter seal, wide thread adapter		
Mating Part(s): AHDP04-24-31S AHDP04-24-31S		Mating Part(s): AHDP06-24-31 AHDP06-24-31			
See Receptacle column on this page t	for more details	See Plug column on this page for more details			
Part Number AHDP06-24-31PT-WTA	Gender: Reversed Contact: Pin	Part Number AHDP04-24-31ST-WTA	Gender: Reversed Contact: Socket		
	Contact: Pin		Contact: Socket		
AHDP06-24-31PT-WTA	Contact: Pin ey 31 positions, Pin,	AHDP04-24-31ST-WTA	cle with 31 positions,		
AHDP06-24-31PT-WTA Rear Seal Type: THIN SEAL, Gree Description: Size 24 Plug with 3	Contact: Pin 29 31 positions, Pin, 1, wide thread adapter R-WTA,	AHDP04-24-31ST-WTA Rear Seal Type: THIN SEAL, Gr Description: Size 24 Receptor Socket, reverse arrangement	Contact: Socket ey cle with 31 positions, thin seal, wide thread PR-WTA,		
AHDP06-24-31PT-WTA Rear Seal Type: THIN SEAL, Gre Description: Size 24 Plug with 3 reverse arrangement, thin sea Mating Part(s): AHDP04-24-31S	Contact: Pin 29 31 positions, Pin, 1, wide thread adapter 28-WTA, T-WTA	AHDP04-24-31ST-WTA Rear Seal Type: THIN SEAL, Gr Description: Size 24 Recepta Socket, reverse arrangement adapter Mating Part(s): AHDP06-24-31	Contact: Socket ey cle with 31 positions, thin seal, wide thread PR-WTA, PT-WTA		

31 Pin Plugs & Receptacles - Contacts

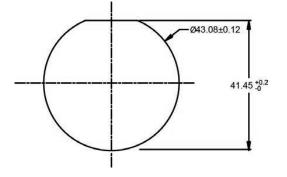
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631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





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





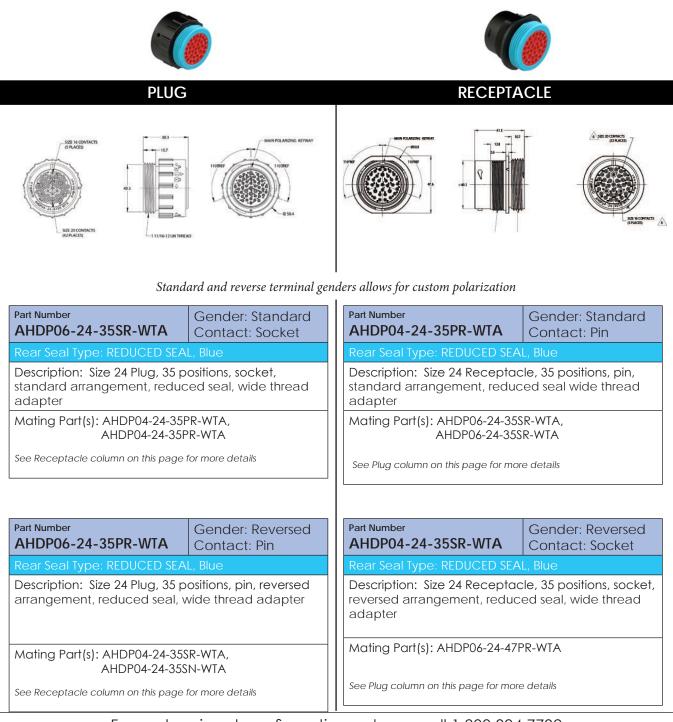




DURA MATE 35 POSITIONS 7.5A,13A

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



For custom insert configurations, please call 1 800 394 7732

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35 POSITION PLUGS & RECEPTACLES - CONTACTS

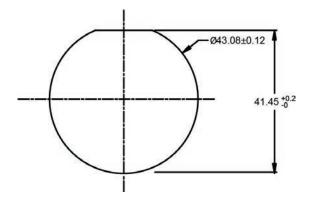
Contact Size	Part No.	Туре	(Pin/Socket)	Wire Range (AWG)	AMP	Plating
16	AT60-215-16141	Machined	Pin	14	13	Nickel
16	AT60-215-1631	Machined	Pin	14	13	Gold
16	AT62-209-16141	Machined	Socket	14	13	Nickel
16	AT62-209-1631	Machined	Socket	14	13	Gold
16	AT60-202-16141	Machined	Pin	16-20	13	Nickel
16	AT60-202-1631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



DURA | MATE 35 POSITIONS 7.5A,13A

24

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



Part Number AHDP24-PN01 Panel Nut, Shell Size 24



Part Number AT14-001-2486 Metal Lock Washer Shell Size 24





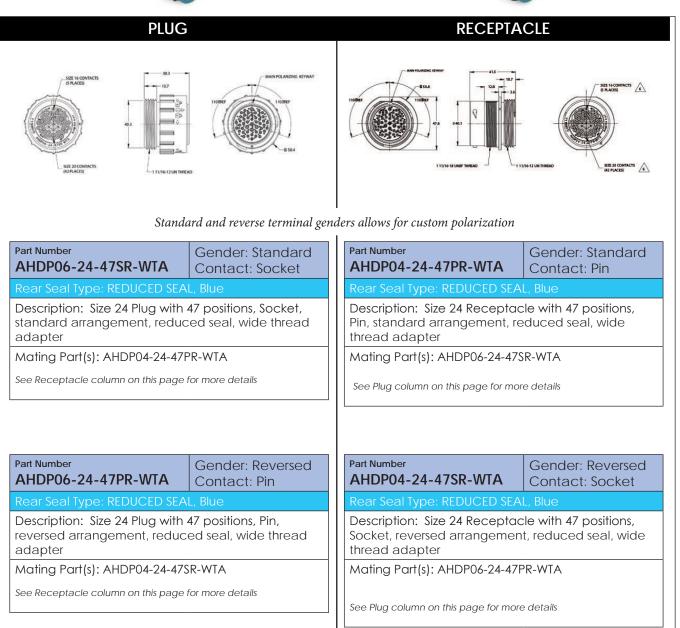
47 POSITION PLUGS & RECEPTACLES - CONTACTS

Shell Size

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







For custom insert configurations, please call 1 800 394 7732

47 Position Plugs & Receptacles

(Pin/Socket)

Contact

Part No.

Type



DURA MATE **47 POSITIONS** 7.5A,13A

Shell Size 24

AMP

Wire Range

Plating

(AWG) Size 16 AT60-215-16141 14 13 Nickel Machined Pin 16 AT60-215-1631 Machined Pin 14 13 Gold 16 AT62-209-16141 Socket 14 13 Machined Nickel 16 Machined Socket 14 13 Gold AT62-209-1631 16 AT60-202-16141 Machined Pin 16-20 13 Nickel 16 AT60-202-1631 Machined Pin 16-20 13 Gold 13 16 AT62-201-16141 Machined Socket 16-20 Nickel 16 AT62-201-1631 Machined Socket 16-20 13 Gold Pin 16 AT60-14-0122 Stamped & Formed 14-16 13 Nickel 16 AT60-14-0144 Stamped & Formed Pin 14-16 13 Gold 16 Socket 14-16 13 AT62-14-0122 Stamped & Formed Nickel 16 AT62-14-0144 Stamped & Formed Socket 14-16 13 Gold 16 AT60-16-0122 Stamped & Formed Pin 16-18 13 Nickel AT60-16-0144 Stamped & Formed Pin 16-18 13 Gold 16 16 AT62-16-0122 Stamped & Formed Socket 16-18 13 Nickel Socket 16 AT62-16-0144 Stamped & Formed 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 Pin 20-22 7.5 Nickel AT60-202-20141 Machined 7.5 20 AT60-202-2031 Machined Pin 20-22 Gold 7.5 20 AT62-201-20141 Machined Socket 20-22 Nickel 7.5 20 AT62-201-2031 Machined Socket 20-22 Gold Pin 7.5 Nickel 20 AT60-20-0122 Stamped & Formed 16-22 7.5 20 AT60-20-0144 Stamped & Formed Pin 16-22 Gold 20 AT62-20-0122 Stamped & Formed Socket 16-22 7.5 Nickel 7.5 20 AT62-20-0144 Stamped & Formed Socket 16-22 Gold

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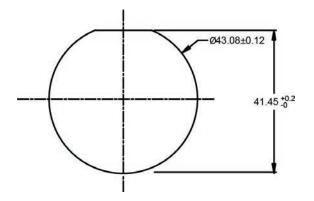




Shell Size

24

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



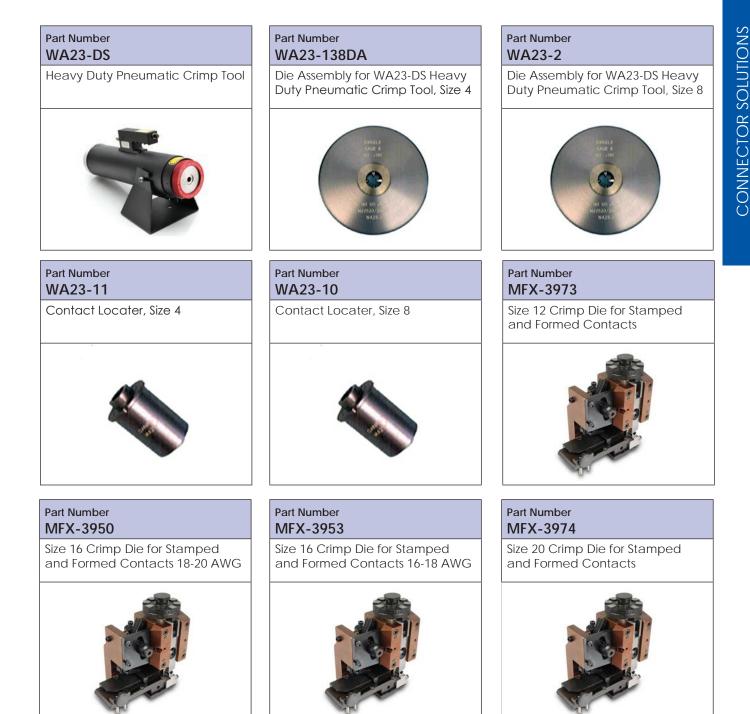




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DURA | MATE TOOLS

DURA | MATE TOOLS



Part Number	Part Number	Part Number
CA-5D12	CA-5E12	ATT-20-00
Universal Hand Crimp Tool, Size	Pneumatic Crimp Tool, Size	Size 20 Stamped and Formed
12/16/20 Solid Contacts Only	12/16/20 Solid Contacts Only	Contact Tool 20 AWG
		Contract particular
Part Number	Part Number	Part Number
ATT-16-00	ATT-16-01	ATT-12-00
Size 16 Stamped and Formed	Size 16 Stamped and Formed	Size 12 Stamped and Formed
Contact Tool 14-16 AWG	Contact Tool 18-20 AWG	Contact Tool 12 AWG
C PROTUNE AMAINMENT		
Part Number	Part Number	Part Number
AT11-240-2005	AT11-310-1605	AT11-337-1205
Contact Removal Tool, plastic,	Contact Removal Tool, plastic	Contact Removal Tool, plastic
Size 20	Size 16	Size 12

DURA | MATE TOOLS(con't)

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

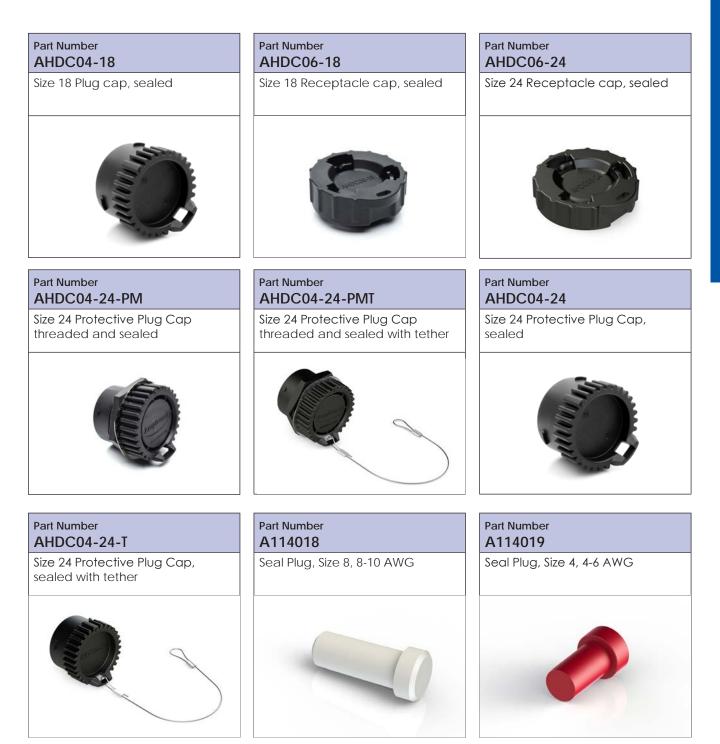


DURAMATE ACCESSORIES

Part Number Part Number Part Number AHDPBS-0406-001 AHDPBS-0406-002 AHDPBS-0406-003 Size 24 Backshell WTA Size 24 Backshell WTA with Size 24 Backshell WTA with compression nut compression nut Cable diameter range: .57-.71" Cable diameter range: ..76-.95" Part Number Part Number Part Number AHDPBS-18-001 AHDPBS-18-002 AHDPBS-010-2405 Size 18 Backshell WTA with Size 18 Backshell WTA Size 24 Backshell, Conduit snap compression nut. Cable over straight diameter range 14.5mm - 18.0mm Part Number Part Number Part Number AHDPBS-011-2405 AHDP-16-04477 AHDP-16-04978 Size 24 Backshell, Conduit snap Size 24 Rubber Flange Seal Size 18 Rubber Flange Seal over right angle

DURA | MATE ACCESSORIES(con't)

DURA | MATE ACCESSORIES



INDUSTRIAL@AMPHENOL

Competitor's Compatible Part Number			Amphenol PN	Page
Exclusive to Amphenol Sine Systems			AHDP06-24-07SN-WTA	133
Exclusive to Amphenol Sine Systems			AHDP04-24-07PN-WTA	133
Exclusive to Amphenol Sine Systems			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
HDP24-18-14SN	HDP24-18-14SN-L015	HDP24-18-14SN-L024	AHDP04-18-14SN-WTA	135
HDP24-18-14SE	HDP24-18-14SE-L015	HDP24-18-14SE-L024	AHDP04-18-14SR-WTA	135
HDP26-24-19SN	HDP26-24-19SN-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
HDP24-24-19PE	HDP24-24-19PE-L015	HDP24-24-19PE-L024	AHDP04-24-19PR-WTA	143
HDP26-24-19PN	HDP26-24-19PN-L015	HDP26-24-19PN-L024	AHDP06-24-19PN-WTA	144
HDP26-24-19PE	HDP26-24-19PE-L015	HDP26-24-19PE-L024	AHDP06-24-19PR-WTA	144
HDP24-24-19SN	HDP24-24-19SN-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
HDP24-24-21SE	HDP24-24-21SE-L015	HDP24-24-21SE L024	AHDP04-24-21SR-WTA	147
HDP26-24-23SN	HDP26-24-23SN-L015	HDP26-24-23SN-L024	AHDP06-24-23SN-WTA	151
HDP26-24-23SE	HDP26-24-23SE-L015	HDP26-24-23SE-L024	AHDP06-24-23SR-WTA	151
HDP24-24-23PN	HDP24-24-23PN-L015	HDP24-24-23PN-L024	AHDP04-24-23PN-WTA	151
HDP24-24-23PE	HDP24-24-23PE-L015	HDP24-24-23PE-L024	AHDP04-24-23PR-WTA	151
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	etitor's Compatible Part	Number	Amphenol PN	Page
Exclusive to Amphenol Sine Systems			AHDP06-24-27SR-WTA	152
Exclus	sive to Amphenol Sine S	ystems	AHDP04-24-27PR-WTA	152
Exclus	sive to Amphenol Sine S	ystems	AHDP06-24-27PR-WTA	153
Exclus	sive to Amphenol Sine Sy	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

Hydro Net[™]



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)

Amphenol -Series NMEA

Micro ma

45°

DEVICE

AT04-4P

136.0 mm (5.35 in.)

40 30

- Micro NMEA Male (2) and Female (3)
- 2 Four (4) position receptacles (AT/DT) with gold pins (4)

ALL DIMENSIONS ARE FOR REFERENCE USE ONLY 118.0 mm (4.65 in.)

AM-N04PX2-HA

Multi-Hub Adap

DEVICE

AT04-4P

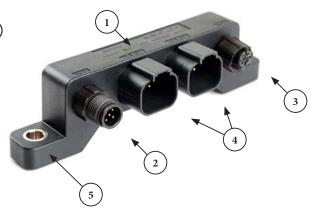
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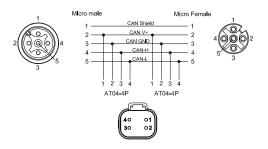
Micro Female

10.0 mm (0.40 in.)

• Stainless steel inserts for mounting (5)







Performance and Material Specifications

<u>2-Ø7.0</u>

36.0 mm (1.42 in.)

18.0 mm (0.71 in.)

renormance and material of contentions		
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

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















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
AT04-4P-KIT01	AT, 4P, Kit Wedge & Contacts
AT4PS-CKIT	AT, Complete Pin & Socket Wedge Kit

CONNECTOR SOLUTIONS

Multi | Mate



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.

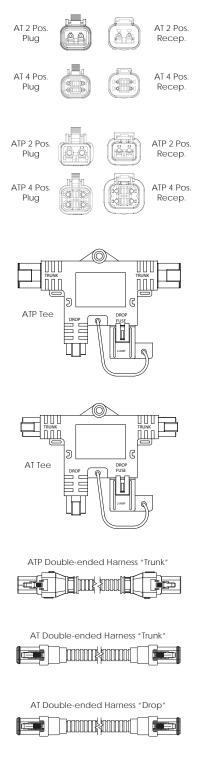
Features and Benefits

- 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

Multi | Mate 2,4 POSITIONS 13A, 25A



Part Number	Description - Panel Mount Receptacles with Wire Leads
P31142-XX	ATP, 2 Position Panel Recep., Male(Size 12) with 12AWG Wire Leads, 25A
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
Part Number	Description - Tee's
P31134	ATP, Tee, 2 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop) w/ fuse holde
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 holde
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)
D	
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) & 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	
1011/2	AT, 2 Position, Plug Terminator Female, (Size 16) AT, 4 Position, Plug Terminator Female, (Size 16)
P31173	
P31173	
P31174	AT, 4 Position, Plug Terminator Female, (Size 16) w/ 120 ohm resistor

Magna Mate™



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.

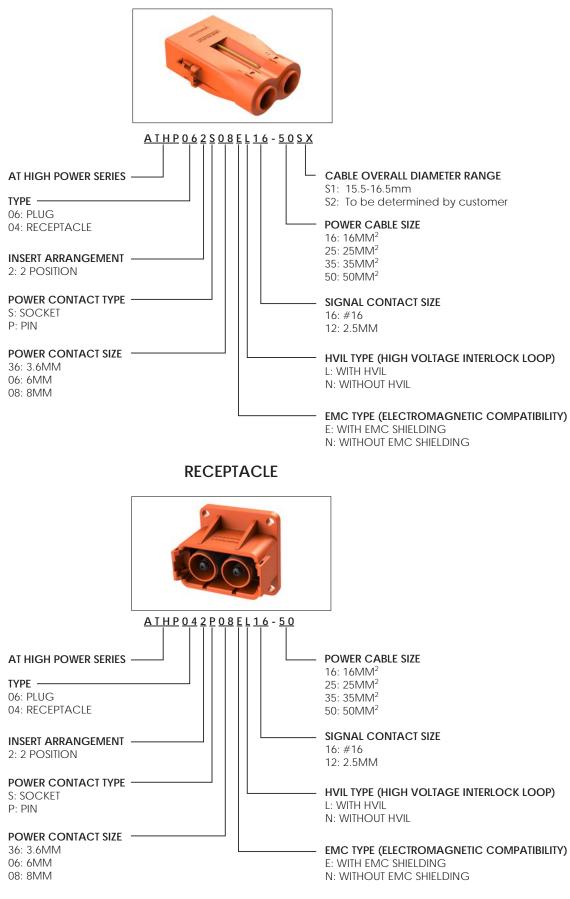
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CONNECTOR SOLUTIONS

PART NUMBER SEQUENCE

PLUG



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	50mm ²	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 Size							
ATHP042P08NL12-35	Pin	2.5mm	35mm²				
ATHP042P08NL16-35	Pin	16	35mm²				
ATHP042P08NL12-50	Pin	2.5mm	50mm²				
ATHP042P08NL16-50	Pin	16	50mm²				

Magna|Mate 2 POSITIONS

180A

Magna|Mate 2 POSITIONS 180A

Magna | Mate SERIES PLUGS EMC SHIELDING

Uses 8mm Contact



PLUGS

EMC Plugs with High Voltage Interlock Loop							
Part Number	art Number Power Contact Type Signal C		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		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	Power Contact Type Signal Contact 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	50mm ²	15.5 - 16.5 mm		
ATHP062S08EN12-50S2	Socket	2.5mm	50mm ²	customer requirements		
ATHP062S08EN16-50S1	Socket	16	50mm ²	15.5 - 16.5 mm		
ATHP062S08EN16-50S2	Socket	16	50mm ²	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 50mm ²							

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				

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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

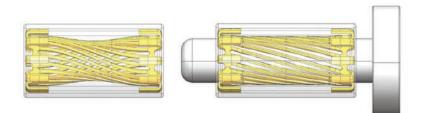
The large interface between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK[®] contacts high current ratings compared to traditional power contact designs.

High Mating Cycle Durability

RADSOK[®] 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.



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

	7 0 1 7	-	
Shell size	Applicable Cable	Contact Plating	current (AC)
		5	temperature
12 (3.6mm)	10mm², 16mm² Silver Plated 65A (10mm²), 86A (1		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 (95m		180A (50mm²), 250A (70mm²), 300A (95mm²)

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

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

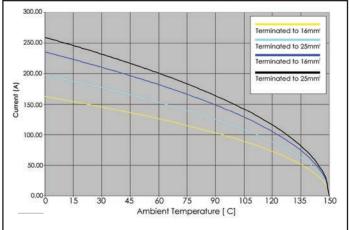
- In addition to the various standard sizes of RADSOK[®] components, custom-developed solutions are also available. Amphenol has the global design, engineering and manufacturing resources to provide RADSOK[®] sockets pressed into busbars, crimped to cables, assembled into connectors, assembled into customer 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.

Magna|Mate Technical Data

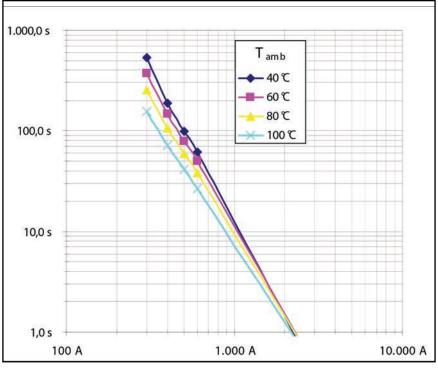
RADSOK[®] Series Rated Current and Working Voltage

Contact Current Carrying Capacity

Derating 8mm



8mm RADSOK®



Contacts (included)

Contact Size /	Wire	Range	Pin P/N	Socket P/N	Pin P/N	Socket D/N	Diating
Current	AWG	mm ²	PIII P/IN	SOCKEL P/IN	PILL P/IN	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 (mm ²) 10/16,25/35,50/70,95/120,150,185

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	\$2
ATHP06S36NN12-50S1	Socket	12	50mm²	S1
ATHP06S36NN12-50S2	Socket	12	50mm²	\$2
ATHP06S36NN16-50S1	Socket	16	50mm²	S1
ATHP06S36NN16-50S2	Socket	16	50mm²	\$2

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

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Magna | Mate SERIES PLUGS EMC SHIELDING

Uses 3.6mm Contact



PLUGS

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	50mm ²	S1
ATHP06S36EL12-50S2	Socket	12	50mm ²	S2
ATHP06S36EL16-16S1	Socket	16	16mm ²	S1
ATHP06S36EL16-16S2	Socket	16	16mm ²	S2
ATHP06S36EL16-35S1	Socket	16	35mm²	S1
ATHP06S36EL16-35S2	Socket	16	35mm²	S2
ATHP06S36EL16-50S1	Socket	16	50mm ²	S1
ATHP06S36EL16-50S2	Socket	16	50mm²	\$2

EMC Plugs without High Volta	age 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	50mm ²	S2

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	

Magna|Mate 2 POSITIONS

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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.

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A114017		AHDP06-18-14PN-WTA 135	AHDP06-24-31SR-WTA 158
A114018		AHDP06-18-14PN-WTA 172	AHDP06-24-31SR-WTA 173
A114019	AHDP04-24-09PR-WTA 137	AHDP06-18-14PR-WTA 135	AHDP06-24-31ST-WTA158
AHD10-6-12P-L110		AHDP06-18-14PR-WTA172	AHDP06-24-31ST-WTA173
AHD10-9-96P	AHDP04-24-18PN-WTA139	AHDP06-18-14SN-WTA 134	AHDP06-24-35PR-WTA 161
AHD10-9-1939P111	AHDP04-24-18PR-WTA139	AHDP06-18-14SN-WTA 172	AHDP06-24-35SR-WTA 161
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AHD10-9-1939P80	AHDP04-24-18SR-WTA 140	AHDP06-18-14SR-WTA134 AHDP06-18-14SR-WTA172	AHDP06-24-47PR-WTA 173
AHD10-9-1939P80	AHDP04-24-19PN-WTA143	AHDP06-24-07PN-WTA 131	AHDP06-24-47SR-WTA164
AHD10-9-1939PL		••••	
		AHDP06-24-07PN-WTA 121	AHDP06-24-47SR-WTA173
AHD14-9-96P		AHDP06-24-07SN-WTA131	AHDP-16-04477
AHD14-9-1939P111	AHDP04-24-19PR-WTA 172	AHDP06-24-07SN-WTA172	AHDP-16-04978
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AHD16-9-1939S8R111	AHDP04-24-21PN-WTA146	AHDP06-24-18SN-WTA139	AHDPBS-010-2405
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-18-002
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
AHD17-PN01	AHDP04-24-21SR-WTA147	AHDP06-24-19SN-WTA143	AHDPBS-0406-003170
AHD17-PN01-GRN111	AHDP04-24-21SR-WTA172	AHDP06-24-19SN-WTA172	AM-N04PX2-HA177
AHDC04-18	AHDP04-24-23PN-WTA149	AHDP06-24-19SR-WTA143	AM-N05P-M0.3177
AHDC04-24171	AHDP04-24-23PN-WTA172	AHDP06-24-19SR-WTA172	AM-N05P-M1177
AHDC04-24-PM171	AHDP04-24-23PR-WTA149	AHDP06-24-21PN-WTA147	AM-N05P-M3177
AHDC04-24-PMT171	AHDP04-24-23PR-WTA172	AHDP06-24-21PN-WTA172	AM-N05P-M5177
AHDC04-24-T171	AHDP04-24-23SN-WTA150	AHDP06-24-21PR-WTA147	AM-N05P-M9177
AHDC06-18	AHDP04-24-23SN-WTA172	AHDP06-24-21PR-WTA172	AM-N05P-M20177
AHDC06-24171	AHDP04-24-23SR-WTA150	AHDP06-24-21SN-WTA146	AM-N05PS-M0.3177
AHDC-16-6	AHDP04-24-23SR-WTA172	AHDP06-24-21SN-WTA172	AM-N05PS-M1177
AHDC-16-9113	AHDP04-24-27PR-WTA152	AHDP06-24-21SR-WTA146	AM-N05PS-M3177
AHDC-16-9-BLK113	AHDP04-24-27PR-WTA173	AHDP06-24-21SR-WTA172	AM-N05PS-M5177
AHDC-16-9-OBDBK113	AHDP04-24-27SR-WTA152	AHDP06-24-23PN-WTA150	AM-N05PS-M9177
AHDC-16-9-OBDGN113	AHDP04-24-27SR-WTA173	AHDP06-24-23PN-WTA172	AM-N05PS-M20177
AHDC169-T113		AHDP06-24-23PR-WTA150	AM-N05P-TERM177
AHDC169-T-BLK113	AHDP04-24-29PR-WTA173	AHDP06-24-23PR-WTA172	AM-N05S-M0.3177
AHDC169-TM113	AHDP04-24-29SR-WTA155	AHDP06-24-23SN-WTA149	AM-N05S-M1177
AHDC169-TMBLK113	AHDP04-24-29SR-WTA173	AHDP06-24-23SN-WTA172	AM-N05S-M3177
AHDC169-TMOBDBK113	AHDP04-24-31PR-WTA158	AHDP06-24-23SR-WTA149	AM-N05S-M5177
AHDC169-TMOBDGN113	AHDP04-24-31PR-WTA173	AHDP06-24-23SR-WTA172	AM-N05S-M9177
AHDC169-T-OBDBK	AHDP04-24-31PT-WTA158	AHDP06-24-27PR-WTA152	
	AHDP04-24-31PT-WTA173	AHDP06-24-27PR-WTA 173	
AHDP04-18-14PN-WTA 134	AHDP04-24-31SR-WTA159	AHDP06-24-27SR-WTA152	AM-N05-TEE
AHDP04-18-14PN-WTA 172	AHDP04-24-31SR-WTA173	AHDP06-24-27SR-WTA173	
AHDP04-18-14PR-WTA134		AHDP06-24-29PR-WTA155	
AHDP04-18-14PR-WTA172		AHDP06-24-29PR-WTA173	
AHDP04-18-14SN-WTA135		AHDP06-24-29SR-WTA155	
	AHDP04-24-35SR-WTA161	AHDP06-24-29SR-WTA 173	
	AHDP04-24-47PR-WTA 164	AHDP06-24-31PR-WTA 159	
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