



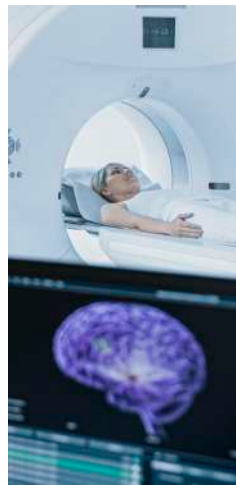
# Q-FLEX

[www.q-flex.fi](http://www.q-flex.fi) [info@q-flex.fi](mailto:info@q-flex.fi)

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IC-16

**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 or 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 not 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.



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GLOBAL  
**PRODUCT OVERVIEW**

[www.amphenol-aipg.com](http://www.amphenol-aipg.com)

# Global Operations

## **Amphenol Alden Products (ALDEN)**

117 North Main Street  
Brockton, MA 02301 | USA  
(508) 427-7000  
amphenolalden.com

## **Amphenol Anytek (ANYTEK)**

5F-6, No.77, Sec. 1, Xintai 5th Rd., Xizhi  
Dist., New Taipei City, 22175 | Taiwan  
886-02-26980366-625 | 886-02-26980377  
www.anytek.com.tw

## **Amphenol Australia (AAL)**

22 Industry Blvd.  
Carrum Downs, Victoria 3201 | Australia  
61-3-8796-8888  
www.amphenol.com.au

## **Amphenol Daeshin (ADS)**

Songnae-Dong 14, Gyeongjin-ro  
133 Beon-gil, Sosa-gu, Bucheon-si,  
Gyeonggi-do 14724 | Korea  
82-32-610-3800  
82-32-673-2507/665-6219  
www.amphenol.co.kr

## **Amphenol DC Electronics, Inc. (ADCE)**

1870 Little Orchard Street  
San Jose, CA 95125 | USA  
1-408-947-4500  
www.dcelectronics.com

## **Amphenol GEC (GEC)**

No. 11 Fengxiang Road, New District  
Changzhou, Jiangsu 213125 | China  
86-519-89819713  
www.gecamphenol.com

## **Amphenol Goldstar Electronic Systems (Baicheng) Co. Ltd (AGSE)**

177 Hengwei Road Baicheng, Jinlin  
137000 | China  
86-436-3667676  
www.jinshida.cn

## **Amphenol Goldstar Electronic Systems (Yulin) Co. Ltd (AGSE)**

No. 27 East 2nd Ring Road  
Yulin, Guangxi 537001 | China  
86-775-5809885  
www.jinshida.cn

## **Amphenol Industrial Operations (AIO)**

191 Delaware Avenue  
Sidney, NY 13838 | USA  
1-888-364-9011 | 1-520-397-7169  
www.amphenol-industrial.com

## **Amphenol Technologies Shenzhen (ATS)**

Building C, 2nd Industrial Zone of  
Xia Shi Jia Gongming Sub-District,  
Guangming New district, Shenzhen  
518106 | China  
86 0755 29918389 | 86 0755 29918310  
www.amphenol-sustainable.com

## **Amphenol LTW Technology Co. Ltd. (ALTW)**

5F-3, No.51, Sec.4, Zhongyang Rd.,  
Tucheng Dist.,  
New Taipei City 23675 | Taiwan  
886-2-77416888  
www.amphenolltw.com

## **Amphenol Oil & Gas Technologies (AOGT)**

14505 Torrey Chase Blvd Suite 209  
Houston, TX 77014 | USA  
1-832-461-1831  
www.amphenol-industrial.com

## **Amphenol PCD Shenzhen (APCD SZ)**

Building 21, 1st Liao Keng Industrial  
Zone, Shi Yan District, Shenzhen  
518108 | China  
86-755-8173-8000  
www.amphenolpcd.com.cn

## **Amphenol Sine Systems (SINE)**

44724 Morley Drive  
Clinton Township, MI 48036 | USA  
1-800-394-7732 1-586-465-1216  
www.amphenol-sine.com

## **Amphenol Sine Systems (SINE)**

Building 21, 1st Liao Keng Industrial  
Zone, Shi Yan District, Shenzhen 518108  
China  
86-592-593-6666 | 86-592-593-1111  
www.amphenol-sine.com

## **Amphenol Technical Products International (ATPI)**

2110 Notre Dame Avenue  
Winnipeg MB R3H 0K1 | Canada  
1-204-697-2222  
www.amphenol-tpi.com

## **Amphenol Tuchel Electronics (ATE)**

44724 Morley Drive  
Clinton Township, MI 48036 | USA  
1-800-394-7732 | 1-586-465-1216  
www.amphenol-sine.com

## **Amphenol Tuchel Industrial GmbH (ATE)**

August - Haeusser Strasse 10 74080  
Heilbronn | Germany  
49-7131-929-0 | 49-7131-929-486  
www.amphenol-industrial.de

## **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

#A Wan An Industrial Park Lanhe Town  
Nansha District, Guangzhou 511480  
China  
86 20 3483 9801  
www.amphenol-gasf.com

## **Amphenol Technology (Zhuhai) Co., Ltd. (ATZ)**

No.63, Xinghan Road, Sanzao Town,  
Jinwan, Zhuhai, 519040, China  
+86-756-398 9725 | +86-756-398 9768  
www.amphenol-industrial.com

# Note from the CEO

## Ladies and Gentlemen,

For over 85 years Amphenol has enjoyed success as the interconnection technology provider of choice to industry-leading companies around the world. One of our key strategic areas of focus has been and is the Industrial market. Our organization works with leading manufacturers across a wide range of applications - including Energy, Transportation, Heavy Equipment, Factory Automation, Medical, Oil & Gas – enabling smarter, faster and better technologies to connect products to customer solutions.

The Industrial market footprint of Amphenol covers over eighteen divisions globally. Our successful expansion into new regions as well as new industrial applications is a direct reflection of our agile, entrepreneurial management team and our unwavering commitment to execute Amphenol's strategies for the benefit of our customers, shareholders and employees.

This product overview highlights our primary Industrial end-markets and our comprehensive portfolio of leading interconnection technologies. It is designed to help you understand Amphenol's capabilities to achieve its high-technology aspirations.

Thank you for partnering with Amphenol. Our entire organization is at your service.



A handwritten signature in black ink, appearing to read 'R. Adam Norwitt'. The signature is fluid and cursive, with a long horizontal stroke at the end.

R. Adam Norwitt

President & CEO, Amphenol Corporation



# Expanding the Industrial Presence

Amphenol Corporation is one of the world's largest interconnect manufacturers. Founded in 1932, Amphenol designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

The market for industrial interconnect technology globally is expanding as the world becomes more modernized. Some of the major driving forces behind this come from the expansion of energy, oil & gas exploration, medical advancements, transportation, and communications. Amphenol's Industrial Products Group (AIPG) combines decades of experience with the latest technology to provide the best solutions in the industry. Our products are engineered and manufactured to the highest degree of quality and sold by a worldwide sales and marketing organization.

## Amphenol Industrial Products Group Markets



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**COMMUNICATIONS / SECURITY**  
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**ENERGY**  
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**ENTERTAINMENT / LIGHTING**  
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**FACTORY AUTOMATION**  
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**HEAVY EQUIPMENT**  
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**TRANSPORTATION**  
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**WIRELESS / BROADBAND /  
DATA CENTER**  
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# BATTERY AND ELECTRIC VEHICLES

A progression away from gasoline and towards a new automotive energy market, including Electric Vehicles (EV) has many demanding electrical requirements. The electrical systems used on these 21st century vehicles require higher amperages and voltages, smaller component footprints and more reliable and safer operation. Battery demands for these vehicles and other everyday life technologies has accelerated as well.

With over eighty years of experience in the interconnect industry, Amphenol Industrial Products Group (AIPG) brings its design, manufacturing, and innovation to the Battery & EV markets. As an undisputed global leader of interconnect solutions for harsh environments, AIPG has solutions to solve any technical challenge. Whether it's a new connector design or one of our existing products, an over molded or mechanically terminated cable assembly, complex harness, or complete electrical packaging solution, AIPG has the expertise to satisfy all Battery & EV needs.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

### **Amphenol LTW Technology Co. Ltd. (ALTW)**

Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

### **Amphenol PCD Shenzhen (APCD SZ)**

China | [www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)

### **Amphenol Technical Products International (ATPI)**

Canada | [www.amphenol-tpi.com](http://www.amphenol-tpi.com)

### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**



China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)

### **Amphenol Sine Systems (SINE)**


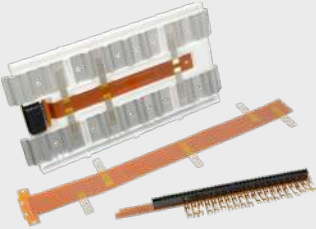

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)



# BATTERY AND ELECTRIC VEHICLES

Series	450A HV Power Cable Assembly	AHVB
		
<b>Coupling System</b>	Lever Lock	Integral Latch
<b>Contact Positions</b>	1-pole (optional HVIL)	4
<b>Housing Material</b>	Metal	Plastic
<b>AWG</b>	3/0 AWG	18 thru 16 AWG
<b>Contact Current Ratings</b>	up to 410A	5A
<b>IP Ratings</b>	IP67 (mated), IP6K9K (mated)	IP67 mated
<b>Mating Cycles</b>	100 cycles	up to 100k for the contacts
<b>Contact Types</b>	Machined	Machined Crimp, PCB
<b>Business Unit</b>	ATPI	AIO / ATZ

Series	Amphe-Lite™	Amphe-PD™
		
<b>Coupling System</b>	ACME Threads	Integral Latch
<b>Contact Positions</b>	2 to 128	2
<b>Housing Material</b>	Composite	Plastic
<b>AWG</b>	24 thru 10 AWG	12 thru 4 AWG
<b>Contact Current Ratings</b>	5A to 33A	up to 120A
<b>IP Ratings</b>	IP67 / IP69K mated	N/A
<b>Mating Cycles</b>	500+	N/A
<b>Contact Types</b>	Machined Crimp, PCB, Fiber	RADSOK® Crimp, PCB or Busbar
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

ATHD	Battery Flex	BSM
		
Integral Latch	Connector termination	Floating
Thermoplastic	Any as defined by design	2,10
16 AWG	Polyimide	Metal
35A, 70A	Various as defined by design	0.5 to 25 mm <sup>2</sup>
IP67 mated	N/A	100A
100+	Dependant on termination system	IP67, IP6K9K
Machined Crimped	Copper on flex or usable with any variety of SMT or through hole connector systems.	50+
AIO / ATZ	GASF	APCD SZ

Cable Gland	Cable Glands Industrial	Ceres
		
Threaded Coupling	Threaded Coupling	Screw Thread, Lock Bayonet
Thermoplastic	Nylon and Metal	2-31
IP67, IP68	IP65, IP67 and IP68	Thermoplastic
		14 ~ 26AWG
		2A ~ 20A
		IP67 (Unmated & Mated)
		1000+
		PCB, Solder, Crimp, Screw
ALTW	AIO / ATZ	ALTW





# BATTERY AND ELECTRIC VEHICLES



Series	ePower	ePower-Lite
		
<b>Coupling System</b>	Press-fit Screw	Integral Latch
<b>Contact Positions</b>	2 to 3	2, 3, 4
<b>Housing Material</b>	Aluminum	Plastic
<b>AWG</b>	4 thru 600 AWG MCM	14 thru 4 AWG
<b>Contact Current Ratings</b>	up to 700A	up to 120A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	N/A	100
<b>Contact Types</b>	RADSOK® Crimp or Busbar	RADSOK® Crimp
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	EXCEL MATE CC COMBO	EXCEL MATE CC HVCO GB AC
		
<b>Coupling System</b>	Handle lock	Handle lock
<b>Contact Positions</b>	9	7
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	16 to 70 mm <sup>2</sup>	2.5 to 6 mm <sup>2</sup>
<b>Contact Current Ratings</b>	200A	32A
<b>IP Ratings</b>	IP44	IP55
<b>Mating Cycles</b>	10000+	10000+
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ

EXCEL MATE CC HVCO GB DC	EXCEL MATE CC IEC	EXCEL MATE Eco HVSL280
		
Handle lock	Handle lock	Secondary Lock
9	7	3
Plastic	Plastic	Plastic
16 to 70 mm <sup>2</sup>	2.5 to 16 mm <sup>2</sup>	2.5 to 4 mm <sup>2</sup>
250A	63A	32 A
IP55	IP55	IP68, IP6K9K
10000+	10000+	50+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ

EXCEL MATE Eco HVSL282	EXCEL MATE Eco HVSL362	EXCEL MATE Eco HVSL364
		
Secondary Lock	Secondary Lock	Secondary Lock
2	3	4
Plastic	Plastic	Plastic
2.5 to 4 mm <sup>2</sup>	6 to 16 mm <sup>2</sup>	2.5 to 6 mm <sup>2</sup>
32 A	80 A	46 A
IP68, IP6K9K	IP68, IP6K9K	IP68, IP6K9K
50+	50+	50+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ

# BATTERY AND ELECTRIC VEHICLES

Series	EXCEL MATE Eco HVSL365	EXCEL MATE Eco HVSL366
		
<b>Coupling System</b>	Secondary Lock	Secondary Lock
<b>Contact Positions</b>	5	6
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	4 to 6 mm <sup>2</sup>	4 to 6 mm <sup>2</sup>
<b>Contact Current Ratings</b>	40 A	40 A
<b>IP Ratings</b>	IP68, IP6K9K	IP68, IP6K9K
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ

Series	EXCEL MATE Eco HVSL600	EXCEL MATE Eco HVSL630
		
<b>Coupling System</b>	Secondary Lock	Secondary Lock
<b>Contact Positions</b>	1	2
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	25mm <sup>2</sup>	4 to 6 mm <sup>2</sup>
<b>Contact Current Ratings</b>	120A	40 A
<b>IP Ratings</b>	IP68, IP6K9K	IP68, IP6K9K
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ

EXCEL MATE Eco HVSL633	EXCEL MATE Max HVSL1200	EXCEL MATE Metal HVSL600
		
Secondary Lock	Secondary Lock	Secondary Lock
3	2	2 to 3
Plastic	Plastic	Metal
2.5 to 6 mm <sup>2</sup>	70 to 95 mm <sup>2</sup>	16 to 25 mm <sup>2</sup>
40 A	350A	120A
IP68, IP6K9K	IP68, IP6K9K	IP68, IP6K9K
50+	50+	50+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ

EXCEL MATE Metal HVSL800	EXCEL MATE MINI MSD	EXCEL MATE MONO EX402
		
Secondary Lock	Lever latch	Push-pull
2	2	2
Metal	Plastic	Metal
25 to 50 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>	2.5 to 6 mm <sup>2</sup>
180A	170A	40A
IP68, IP6K9K	IP67, IP6K9K	IP68, IP6K9K
50+	50+	200+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ






# BATTERY AND ELECTRIC VEHICLES


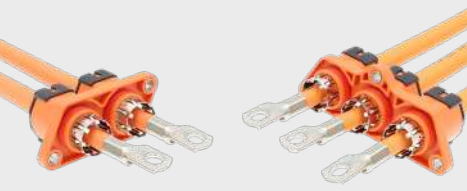
Series	EXCEL MATE MONO EX403	EXCEL MATE MONO HVBI
		
<b>Coupling System</b>	Push-pull	Push-pull
<b>Contact Positions</b>	3	1
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	2.5 to 6 mm <sup>2</sup>	16 to 70 mm <sup>2</sup>
<b>Contact Current Ratings</b>	40A	250A
<b>IP Ratings</b>	IP68, IP6K9K	IP68, IP6K9K
<b>Mating Cycles</b>	200+	200+
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ

Series	EXCEL MATE MSD XL	EXCEL MATE MSD
		
<b>Coupling System</b>	Lever latch	Lever latch
<b>Contact Positions</b>	2	2
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	25 to 120 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>
<b>Contact Current Ratings</b>	300A	230A
<b>IP Ratings</b>	IP67, IP6K9K	IP67, IP6K9K
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ


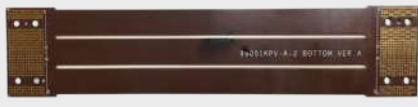

EXCEL MATE MSD V	EXCEL MATE MONO HVG	EXCEL MATE Plus HVSL1000
		
Lever latch	Push-pull	SECONDARY LOCK
2	2 to 6	1 to 3
Plastic	Metal	Plastic
25 to 70 mm <sup>2</sup>	2.5 to 6 mm <sup>2</sup>	25 to 70 mm <sup>2</sup>
230A	50A	250A
IP67, IP6K9K	IP68, IP6K9K	IP68, IP6K9K
50+	200+	50+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ

EXCEL MATE PT HVP B 2A	EXCEL MATE PT HVPC	EXCEL MATE PT HVPC 800
		
Pass through	Screw	Screw
2	1	2
Plastic	Metal	Metal
2.5 to 6 mm <sup>2</sup>	35 to 50 mm <sup>2</sup>	35 to 50 mm <sup>2</sup>
40A	180A	180A
IP68, IP6K9K	IP68, IP6K9K	IP68, IP6K9K
50+	50+	50+
Crimp	Crimp	Crimp
APCD SZ	APCD SZ	APCD SZ

# BATTERY AND ELECTRIC VEHICLES

Series	EXCEL MATE PT HVPT	EXCEL MATE PT HVPT B
		
<b>Coupling System</b>	Pass through	Pass through
<b>Contact Positions</b>	1 to 3	2 to 3
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	25 to 70 mm <sup>2</sup>	26 to 70 mm <sup>2</sup>
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	IP68, IP6K9K	IP68, IP6K9K
<b>Mating Cycles</b>		
<b>Contact Types</b>	Crimp	Crimp
<b>Business Unit</b>	APCD SZ	APCD SZ


Series	EXCEL MATE S HVSL800	HC Series, Power and Signal Connector
		
<b>Coupling System</b>	Secondary Lock	Lever Lock, Reverse Flange Mount
<b>Contact Positions</b>	2 to 3	26 Signal, 6 Power
<b>Housing Material</b>	Plastic	Thermoplastic
<b>AWG</b>	24 to 50 mm <sup>2</sup>	Signal: 22 thru 20 AWG, Power: 18 thru 14 AWG
<b>Contact Current Ratings</b>	180A	Signal: 5A, Power: 13A
<b>IP Ratings</b>	IP68, IP6K9K	IP67, IP6K9K (in mated condition)
<b>Mating Cycles</b>	50+	100 cycles
<b>Contact Types</b>	Crimp	Pin & Socket, Stamped and Formed Crimp
<b>Business Unit</b>	APCD SZ	ATPI

Heater Flex	High Speed Flex	HS-Lok
		
No	Connector termination	Push-Lock
1-2	Any as defined by design	2-6
Polyimide	Polyimide	Thermoplastic
No	Various as defined by design	24 thru 20 AWG
		2A to 5A
N/A	N/A	IP68 unmated & mated
Dependant on termination system	Dependant on termination system	2000+
Copper	Copper on flex or usable with any variety of SMT or through hole connector systems.	Solder
GASF	GASF	ALTW

LPT Series	LVRC	MagnaMate™ ATHP Mini
		
Bayonet Coupling	Latch	Integral Latch
4 to 55	26, 35	2
Metal	Plastic	Thermoplastic UL94 VO
22 thru 12 AWG	22 thru 14 AWG	8-14AWG
7.5A to 23A	5 to 13 A	3.5A, 20A, 25A
IP67 mated	IP67 (In mated condition)	IP67 (in mated condition)
500	50 cycles	100 cycles
Machined Crimp, Stamped & Formed Crimp	Crimp	Machined RADSOK®
AIO / ATZ	APCD SZ	SINE

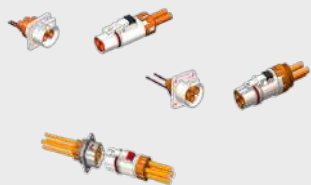




# BATTERY AND ELECTRIC VEHICLES

Series	MagnaMate™ ATHP QL	MagnaMate™ ATHP Standard
		
<b>Coupling System</b>	Integral Latch	Integral Latch
<b>Contact Positions</b>	1	2
<b>Housing Material</b>	Thermoplastic UL94 VO	Thermoplastic UL94 VO
<b>AWG</b>	8-14AWG	8-14AWG
<b>Contact Current Ratings</b>	130A, 180A	180A
<b>IP Ratings</b>	IP67 (in mated condition)	IP67 (in mated condition)
<b>Mating Cycles</b>	50 cycles	100 cycles
<b>Contact Types</b>	Machined RADSOK®	Machined RADSOK®
<b>Business Unit</b>	SINE	SINE


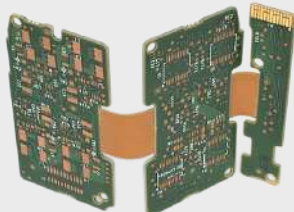
Series	Max-M12	M-Series
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling, Snap-in
<b>Contact Positions</b>	3/4/5/8/12	2-17
<b>Housing Material</b>	Metal	Metal, Thermoplastic
<b>AWG</b>	24 thru 16 AWG	26 thru 16 AWG
<b>Contact Current Ratings</b>	4A max	0.5A to 28A
<b>IP Ratings</b>	IP67 mated	IP68 unmated & mated, IP69K
<b>Mating Cycles</b>	100+	1000+
<b>Contact Types</b>	Machined Solder	PCB, Solder, Crimp, IDC, Push-in, Screw
<b>Business Unit</b>	AIO / ATZ	ALTW

OM RADSOK® on Cable & Busbar	Power	PowerLok
		
Bolt Down, Latch, Custom	Threaded Coupling, Lock Bayonet	Latch, Lever Lock
1 - 3, Custom	2-12	1, 2, and 3 Position
Thermoplastic	Thermoplastic	Metal
8 thru 300 MCM AWG	18 thru 10 AWG	8 thru 300 MCM AWG
70A to 400A	8A to 50A	up to 500A
IP2X, IP67, IPx9k, as Required	IP67 unmated & mated	IP2X unmated, IP67 mated
100+	1000+	100+
Machined, Stamped & Formed	Solder, Screw, Crimp	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post
ATPI	ALTW	ATPI

PowerLok 4.0	PowerLok G2	RadLok
		
Latch, Lever Lock	Lever Lock	Pushbutton Latch
2, 3, and 4 Position	1, 2, and 3 position Power w/ HVIL	1
Metal	Aluminum	Thermoplastic
14 thru 8 AWG	2 thru 4/0 AWG	8 thru 300 MCM AWG
up to 60A	up to 450A	70A to 500A
IP2X unmated, IP67 mated	IP67, IP6K9K (in mated condition)	IP2X / IP30 mated
100+	100 cycles	100+
Machined	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post
ATPI	ATPI	ATPI

# BATTERY AND ELECTRIC VEHICLES

Series	RBL	RJ
		
<b>Coupling System</b>	Push-Lock with Latch	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>	2-18	8
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	20 thru 12 AWG	24 AWG
<b>Contact Current Ratings</b>	5A to 20A	2A
<b>IP Ratings</b>	IP67	IP67
<b>Mating Cycles</b>	250+	750+
<b>Contact Types</b>	Solder, Crimp	PCB, Solder
<b>Business Unit</b>	ALTW	ALTW

Series	Sculptured	Standard Flex (Type I-IV)
		
<b>Coupling System</b>	Connector termination	Connector termination
<b>Contact Positions</b>	Any as defined by design	Any as defined by design
<b>Housing Material</b>	Polyimide	Polyimide
<b>AWG</b>	Various as defined by design	Various as defined by design
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	N/A	N/A
<b>Mating Cycles</b>	Dependant on termination system	Dependant on termination system
<b>Contact Types</b>	Copper on flex or usable with any variety of SMT or through hole connector systems.	Copper on flex or usable with any variety of SMT or through hole connector systems.
<b>Business Unit</b>	GASF	GASF

SurLok Plus™	Tru-Loc®	UPC
		
Compression with Secondary Lock	Integral Latch	Lever Latch
1	24/6	2 to 3
Plastic	Thermoplastic	Plastic
6 thru 3/0 AWG	16 AWG	4 thru 300 AWG MCM
up to 350A	13A	up to 450A
IP67 mated	IP67 mated	IP67 & IP69k mated
N/A	100+	100
RADSOK® Crimp, Busbar, or Threaded Post	Stamped & Formed Crimp (RADSOK®)	RADSOK® Crimp or Busbar
AIO / ATZ	AIO / ATZ	AIO / ATZ

UPT Series	VENT	X-Lok
		
Bayonet Coupling	Threaded Coupling, Snap-In	Push-Lock
7 to 48		2-18
Thermoplastic	Stainless, Metal, Thermoplastic	Thermoplastic
22 thru 12 AWG		24 thru 12 AWG
7.5A to 23A		2A to 20A
IP67 mated	IP68, IP69K	IP68
500		1000+
Machined Crimp, Stamped & Formed Crimp		Solder, Crimp, Screw, Push-in
AIO / ATZ	ALTW	ALTW



# BATTERY AND ELECTRIC VEHICLES

Series	USB
	
<b>Coupling System</b>	Threaded Coupling, Lock Bayonet, Snap-In
<b>Contact Positions</b>	4-24
<b>Housing Material</b>	Metal, Thermoplastic
<b>AWG</b>	32 thru 23 AWG
<b>Contact Current Ratings</b>	1A to 5A
<b>IP Ratings</b>	IP67, IP68 unmated & mated
<b>Mating Cycles</b>	USB A/B: 1000 cycles, USB C: 10000 cycles, Micro USB: 10000 cycles
<b>Contact Types</b>	PCB, Solder
<b>Business Unit</b>	ALTW

# COMMUNICATIONS AND SECURITY

Amphenol is a world leader in communication products with industry-leading engineering, design and manufacturing expertise. Amphenol offers a broad range of products to service the growing communications market, from customer premises cables and interconnect devices to distribution cable and fiber optic components. Amphenol also has diverse interconnect products deployed on a wide range of equipment from sophisticated head-end equipment to digital set-top boxes, high-speed cable modems, and DBS interface devices. Along with communications products Amphenol connectors and cable assemblies equip CCTV cameras, traffic control and fast deployable homeland security communication networks.

## GLOBAL OPERATIONS

**Amphenol Industrial Operations (AIO / ATZ)**  
USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

**Amphenol LTW Technology Co. Ltd. (ALTW)**  
Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

**Amphenol Tuchel Electronics (ATE)**  
USA | [www.amphenol-sine.com](http://www.amphenol-sine.com)

**Amphenol Anytek (ANYTEK)**  
Taiwan | [www.anytek.com.tw](http://www.anytek.com.tw)

**Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**  
China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



# COMMUNICATIONS AND SECURITY

Series	Amphe-Lite	Amphe-Lite M3
		
<b>Coupling System</b>	ACME Threads	ACME Threads
<b>Contact Positions</b>	2 to 128	2 to 128
<b>Housing Material</b>	Composite	Metal
<b>AWG</b>	24 thru 10 AWG	24 thru 10 AWG
<b>Contact Current Ratings</b>	5A to 33A	5A to 33A
<b>IP Ratings</b>	IP67 / IP69K mated	IP67 / IP69K mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined Crimp	Machined Crimp
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	Amphe-PPM	Cable Gland
		
<b>Coupling System</b>	Push-Pull	Threaded Coupling
<b>Contact Positions</b>	2/3/4/5/7/9/12	
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	24 thru 14 AWG	
<b>Contact Current Ratings</b>	5A to 13A	
<b>IP Ratings</b>	IP67 mated	IP67, IP68
<b>Mating Cycles</b>	500+	
<b>Contact Types</b>	Machined Solder	
<b>Business Unit</b>	AIO / ATZ	ALTW

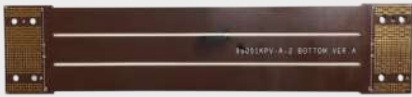

Cable Glands Industrial	Cable Joiner	Ceres
		
Threaded Coupling	Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet
	4	2-31
Nylon and Metal	Thermoplastic	Thermoplastic
	16 thru 10 AWG	26 thru 14 AWG
	10A to 30A	2A to 20A
IP65, IP67 and IP68	IP67	IP67 unmated & mated
		1000+
	Crimp	PCB, Solder, Crimp, Screw
AIO / ATZ	ALTW	ALTW

CMB Series	Double Sided Flex - Type II	FICX
		
Bayonet Coupling	Yes	Threaded Coupling
1 to 61	2	2-5
Metal	Polyimide	Thermoplastic
22 thru 12 AWG	Yes	18 thru 12 AWG
7.5A, 23A		8A to 20A
IP67 mated	N/A	IP68
500	Dependant on termination system	
Machined Solder	Copper	Screw
AIO / ATZ	GASF	ALTW






# COMMUNICATIONS AND SECURITY


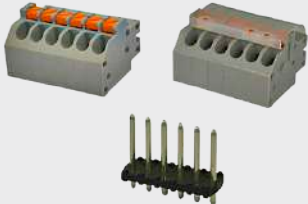
Series	FLO & FLO+	Heater Flex
		
<b>Coupling System</b>	Push-Pull	No
<b>Contact Positions</b>	2-32	1-2
<b>Housing Material</b>	PPS	Polyimide
<b>AWG</b>	26 thru 10 AWG	No
<b>Contact Current Ratings</b>	1.5A to 35A	
<b>IP Ratings</b>	IP50/IP68 (Mated)	N/A
<b>Mating Cycles</b>	5000+	Dependant on termination system
<b>Contact Types</b>	PCB, Solder	Copper
<b>Business Unit</b>	ALTW	GASF

Series	High Speed Flex	HS-Lok
		
<b>Coupling System</b>	Connector termination	Push-Lock
<b>Contact Positions</b>	Any as defined by design	2-6
<b>Housing Material</b>	Polyimide	Thermoplastic
<b>AWG</b>	Various as defined by design	24 thru 20 AWG
<b>Contact Current Ratings</b>		2A to 5A
<b>IP Ratings</b>	N/A	IP68 unmated & mated
<b>Mating Cycles</b>	Dependant on termination system	2000+
<b>Contact Types</b>	Copper on flex or usable with any variety of SMT or through hole connector systems.	Solder
<b>Business Unit</b>	GASF	ALTW

LED Indicator	LPT Series	Micro-B
		
Threaded Coupling	Bayonet Coupling	Bayonet Coupling
	4 to 55	7/10/15
Thermoplastic, Metal	Metal	Metal
	22 thru 12 AWG	24 thru 20 AWG
	7.5A to 23A	5A
IP67	IP67 mated	IP67 mated
	500	500+
Solder	Machined Crimp, Stamped & Formed Crimp	Stamped & Formed Crimp
ALTW	AIO / ATZ	AIO / ATZ

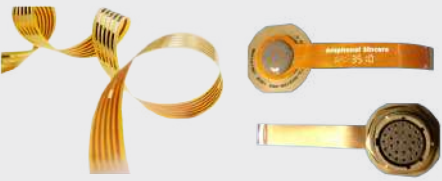


M-Series	Multilayer Flex - Type III	NS Series
		
Threaded Coupling, Snap-in	Yes	
2-17	3-10	1P (Pitch: 5.75)
Metal, Thermoplastic	Polyimide	Thermoplastic
26 thru 16 AWG	Yes	22 thru 18 AWG
0.5A to 28A		7A (150V)
IP68 unmated & mated, IP69K	N/A	
1000+	Dependant on termination system	200+
PCB, Solder, Crimp, IDC, Push-in, Screw	Copper	Push-In Spring
ALTW	GASF	Anytek

# COMMUNICATIONS AND SECURITY

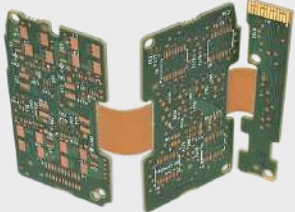

Series	NU Series	NY & OL Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	1-24P (Pitch: 3.5)	2-24P (Pitch: 3.5)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	2*(26 thru 20) AWG	22 thru 16 AWG
<b>Contact Current Ratings</b>	2A (300V)	2A (150V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	200+
<b>Contact Types</b>	Push-In Spring	Push-In Spring
<b>Business Unit</b>	Anytek	Anytek

Series	O-BTS Series	OP Series
		
<b>Coupling System</b>	Bayonet Coupling	
<b>Contact Positions</b>	2* size12	2-24P (Pitch: 3.5, 3.81, 5.0, 5.75, 7.0, 7.62, 8.0, 10.0)
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	18 thru 12 AWG	
<b>Contact Current Ratings</b>	26A, 55A	10 to 15A (150 - 300V)
<b>IP Ratings</b>	IP67 mated	
<b>Mating Cycles</b>	100+	200+
<b>Contact Types</b>	Machined Crimp, Machined Set Screw	
<b>Business Unit</b>	AIO / ATZ	Anytek

Power	PT Series	RF
		
Threaded Coupling, Lock Bayonet	Bayonet Coupling	Threaded Coupling
2-12	1 to 61	
Thermoplastic	Metal	Metal
18 thru 10 AWG	22 thru 12 AWG	
8A to 50A	7.5A to 23A	
IP67 unmated & mated	IP67 mated	IP68
1000+	500	500+
Solder, Screw-in, Crimp	Machined Solder, Machined Crimp	Crimp, PCB
ALTW	AIO / ATZ	ALTW

Single Sided Flex - Type I	Smart Card C700	SSL
		
No	Push, Push-Pull, Push-Push, Pushmatic	Threaded Coupling, Snap-In
1	6-20	2-6
Polyimide	Metal & Plastic	Thermoplastic
Yes	28 AWG	22 thru 18 AWG
Up to 100 amps		3A to 12A
N/A		IP68
Dependant on termination system	500,000+	SSL 1.1: 100 cycles, SSL 1.2: 30 cycles, SSL 1.3: 10 cycles, SSL 2.1: 20 cycles, SSL 2.3: 100 cycles
Copper	Chip/Magnetic Stripe	Crimp, Solder, SMT
GASF	ATI	ALTW

# COMMUNICATIONS AND SECURITY

Series	Standard Flex (Type I-IV)	TY Series
		
<b>Coupling System</b>	Connector termination	
<b>Contact Positions</b>	Any as defined by design	2-24P (Pitch: 5.0)
<b>Housing Material</b>	Polyimide	Thermoplastic
<b>AWG</b>	Various as defined by design	26 thru 14 AWG
<b>Contact Current Ratings</b>		10A (300V)
<b>IP Ratings</b>	N/A	
<b>Mating Cycles</b>	Dependant on termination system	200+
<b>Contact Types</b>	Copper on flex or usable with any variety of SMT or through hole connector systems.	Screw-Wire Protector Clamp
<b>Business Unit</b>	GASF	Anytek

Series	UPT Series	USB
		
<b>Coupling System</b>	Bayonet Coupling	Threaded Coupling, Lock Bayonet, Snap-In
<b>Contact Positions</b>	7 to 48	4-24
<b>Housing Material</b>	Thermoplastic	Metal, Thermoplastic
<b>AWG</b>	22 thru 12 AWG	32 thru 23 AWG
<b>Contact Current Ratings</b>	7.5A to 23A	1A to 5A
<b>IP Ratings</b>	IP67 mated	IP67, IP68 unmated & mated
<b>Mating Cycles</b>	500	USB A/B: 1000 cycles, USB C: 10000 cycles, Micro USB: 10000 cycles
<b>Contact Types</b>	Machined Crimp, Stamped & Formed Crimp	PCB, Solder
<b>Business Unit</b>	AIO / ATZ	ALTW

VENT	X-Lok
	
Threaded Coupling, Snap-In	Push-Lock
Stainless, Metal, Thermoplastic	2-18
	Thermoplastic
	24 thru 12 AWG
	2A to 20A
IP68, IP69K	IP68
	1000+
	Solder, Crimp, Screw, Push-in
ALTW	ALTW





# ENERGY

Amphenol is committed to the energy and power generation industry. We offer products to meet the current and future needs of both traditional and new energy technologies. Amphenol provides a broad range of products for data transfer, control and monitoring, and power distribution. In addition, we can provide customized solutions to meet the needs of the industry. Amphenol is continually developing new technologies to offer the best reliable solutions to the energy market. Our products and services deliver reliability, ease of installation, low loss, and the high signal integrity required for this demanding market.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

### **Amphenol Technologies Shenzhen (ATS)**

China | [www.amphenol-sustainable.com](http://www.amphenol-sustainable.com)

### **Amphenol LTW Technology Co. Ltd. (ALTW)**

Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

### **Amphenol Anytek (ANYTEK)**

Taiwan | [www.anytek.com.tw](http://www.anytek.com.tw)

### **Amphenol PCD Shenzhen (APCD SZ)**

China | [www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)

### **Amphenol Tuchel Electronics (ATE)**

USA | [www.amphenol-sine.com](http://www.amphenol-sine.com)

### **Amphenol Technical Products International (ATPI)**

Canada | [www.amphenol-tpi.com](http://www.amphenol-tpi.com)

### **Amphenol Sine Systems (SINE)**

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)

### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



Series	ACA-B and GT Series	Amphe-309
		
<b>Coupling System</b>	Reverse Bayonet Coupling	Threaded Coupling
<b>Contact Positions</b>	1 to 85	2 to 5 Pole
<b>Housing Material</b>	Metal	Valox
<b>AWG</b>	16 thru 4/0 AWG	17 thru 0 AWG
<b>Contact Current Ratings</b>	13A to 250A	16A to 125A
<b>IP Ratings</b>	IP67 mated	IP67
<b>Mating Cycles</b>	2000	1000
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Screw Termination
<b>Business Unit</b>	AIO / ATZ	AOGT




Series	Amphe-PRB Series	ATC Series
		
<b>Coupling System</b>	Reverse Bayonet Coupling	Integral Latch
<b>Contact Positions</b>	3-5	3/5/9
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	12 thru 8 AWG	20 thru 14 AWG
<b>Contact Current Ratings</b>	23A to 70A	13A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	100	100+
<b>Contact Types</b>	Machined Set Screw	Machined Crimped, Stamped & Formed Crimped
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Battery Flex	Cable Gland	Cable Glands Industrial
		
Connector termination	Threaded Coupling	Threaded Coupling
Any as defined by design		
Polyimide	Thermoplastic	Nylon and Metal
Various as defined by design		
N/A	IP67, IP68	IP65, IP67 and IP68
Dependant on termination system		
Copper on flex or usable with any variety of SMT or through hole connector systems.		
GASF	ALTW	AIO / ATZ

Cable Joiner	Ceres	D-SUB
		
Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet	Threaded Coupling
4	2-31	9-78
Thermoplastic	Thermoplastic	Thermoplastic, Metal
16 thru 10 AWG	26 thru 14 AWG	26 thru 24 AWG
10A to 30A	2A to 20A	2A to 5A
IP67	IP67 unmated & mated	IP67, IP68
	1000+	500+
Crimp	PCB, Solder, Crimp, Screw	PCB, Solder, Crimp
ALTW	ALTW	ALTW

Series	EI Series	EW & EV Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-10P (Pitch: 15.0)	2-12P (Pitch: 10.16)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	20 thru 2 AWG	20 thru 6 AWG
<b>Contact Current Ratings</b>	125A (600V)	55A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>		200+
<b>Contact Types</b>	Rising Clamp	Rising Clamp
<b>Business Unit</b>	Anytek	Anytek

Series	FICX	HC Series, Power and Signal Connector
		
<b>Coupling System</b>	Threaded Coupling	Lever Lock, Reverse Flange Mount
<b>Contact Positions</b>	2-5	26 Signal, 6 Power
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	18 thru 12 AWG	Signal: 22 thru 20 AWG, Power: 18 thru 14 AWG
<b>Contact Current Ratings</b>	8A to 20A	Signal: 5A, Power: 13A
<b>IP Ratings</b>	IP68	IP67, IP6K9K (in mated condition)
<b>Mating Cycles</b>		100 cycles
<b>Contact Types</b>	Screw	Pin & Socket, Stamped and Formed Crimp
<b>Business Unit</b>	ALTW	ATPI

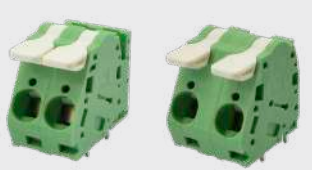
H4 PV Bulkhead Connector Series	H4 PV Cable Connector Series	H8 Series
		
Snap Lock	Snap Lock	
1	1	2-24P (Pitch: 10.0, 15.0, 20.0)
PC	PC	Thermoplastic
14 thru 10 AWG	14 thru 10 AWG	24 thru 6 AWG
25A, 35A, 45A	25A, 35A, 45A	37 to 57A (300 - 600V)
IP68 mated	IP68 mated	
100+	100+	
Machined, Stamped & Formed	Machined, Stamped & Formed	Cage Clamp
AIST	AIST	Anytek

heavymate®	Overmolded PV Fuses	Overmolded PV Junctions
		
Quick Latching	UL Listed Connectors: H4,UTC, MC4, EVO2	UL Listed Connectors: H4,UTC, MC4, EVO2
6-140	1	1
Metal	Thermoplastic	Thermoplastic
28 thru 3/0 AWG	14 thru 8 AWG	14 thru 8 AWG
10A to 300A	1 to 32A (1000/1500V)	50A (1000/1500V)
IP65, 67, 68, 69K mated	IP68	IP68
500+		
Crimp (Turned/Stamped & Formed), Screw, Push-In, Cage Clamp		
ATI	ATPI	ATPI


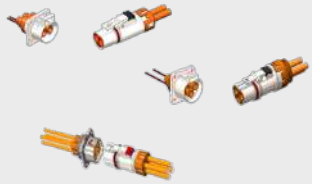



Series	HVSP	KU & KX Series
		
<b>Coupling System</b>	CPA	
<b>Contact Positions</b>	1	2-10P (Pitch: 15.0)
<b>Housing Material</b>	Plastic	Thermoplastic
<b>AWG</b>	4 thru 2/0 AWG	20 thru 2 AWG
<b>Contact Current Ratings</b>	100 to 250A	115A (600V)
<b>IP Ratings</b>	IP67, IP6K9K	
<b>Mating Cycles</b>	50+	200+
<b>Contact Types</b>	Machined	Rising Clamp
<b>Business Unit</b>	APCD SZ	Anytek


Series	LPT Series	M23 & M40
		
<b>Coupling System</b>	Bayonet Coupling	Metal Threaded & Quick Locking
<b>Contact Positions</b>	4 to 55	6-19 and Hybrid
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	22 thru 12 AWG	28 thru 8 AWG
<b>Contact Current Ratings</b>	7.5A to 23A	0.5A to 75A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	500+
<b>Contact Types</b>	Machined Crimp, Stamped & Formed Crimp	Machined
<b>Business Unit</b>	AIO / ATZ	SINE



M-Series	NP Series	NZ Series
		
Threaded Coupling, Snap-in		
2-17	2-12P (Pitch: 10.0)	1-12P (Pitch: 10.0, 15.0)
Metal, Thermoplastic	Thermoplastic	Thermoplastic
26 thru 16 AWG	20 thru 8 AWG(SOL), 20 thru 4 AWG(STR)	16 thru 6 AWG
0.5A to 28A	30 to 50A (300 - 600V)	55 to 65A (300 - 600V)
IP68 unmated & mated, IP69K		
1000+		
PCB, Solder, Crimp, IDC, Push-in, Screw	Push-In Spring	Cage Clamp
ALTW	Anytek	Anytek



OM RADSOK® on Cable & Busbar	Overmolded Junction Cable Assembly Series	Power
		
Bolt Down, Latch, Custom	Snap Lock	Threaded Coupling, Lock Bayonet
1 - 3, Custom	1	2-12
Thermoplastic	Thermoplastic	Thermoplastic
8 thru 300 MCM AWG	14 thru 10 AWG	18 thru 10 AWG
70A to 400A	1A to 30A	8A to 50A
IP2X, IP67, IPx9k, as Required	IP68	IP67 unmated & mated
100+	100+	1000+
Machined, Stamped & Formed	Machined, Stamped & Formed	Solder, Screw, Crimp
ATPI	AIST	ALTW

Series	PowerLok	PowerLok 4.0
		
<b>Coupling System</b>	Latch, Lever Lock	Latch, Lever Lock
<b>Contact Positions</b>	1, 2, and 3 Position	2, 3, and 4 Position
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	8 thru 300 MCM AWG	14 thru 8 AWG
<b>Contact Current Ratings</b>	up to 500A	up to 60A
<b>IP Ratings</b>	IP2X unmated, IP67 mated	IP2X unmated, IP67 mated
<b>Mating Cycles</b>	100+	100+
<b>Contact Types</b>	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined
<b>Business Unit</b>	ATPI	ATPI

Series	PowerLok G2	PV/AC
		
<b>Coupling System</b>	Lever Lock	Snap-In with Latch
<b>Contact Positions</b>	1, 2, and 3 position Power w/ HVIL	3-4
<b>Housing Material</b>	Aluminum	Thermoplastic
<b>AWG</b>	2 thru 4/0 AWG	18 thru 10 AWG
<b>Contact Current Ratings</b>	up to 450A	5A to 19A
<b>IP Ratings</b>	IP67, IP6K9K (in mated condition)	IP67
<b>Mating Cycles</b>	100 cycles	1000+
<b>Contact Types</b>	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Solder, Crimp
<b>Business Unit</b>	ATPI	ALTW

RadLok	RBL	RF
		
Pushbutton Latch	Push-Lock with Latch	Threaded Coupling
1	2-18	
Thermoplastic	Thermoplastic	Metal
8 thru 300 MCM AWG	20 thru 12 AWG	
70A to 500A	5A to 20A	
IP2X / IP30 mated	IP67	IP68
100+	250+	500+
RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Solder, Crimp	Crimp, PCB
ATPI	ALTW	ALTW

RJ	SSL	USB
		
Threaded Coupling, Lock Bayonet	Threaded Coupling, Snap-In	Threaded Coupling, Lock Bayonet, Snap-In
8	2-6	4-24
Thermoplastic	Thermoplastic	Metal, Thermoplastic
24 AWG	22 thru 18 AWG	32 thru 23 AWG
2A	3A to 12A	1A to 5A
IP67	IP68	IP67, IP68 unmated & mated
750+	SSL 1.1: 100 cycles, SSL 1.2: 30 cycles, SSL 1.3: 10 cycles, SSL 2.1: 20 cycles, SSL 2.3: 100 cycles	USB A/B: 1000 cycles, USB C: 10000 cycles, Micro USB: 10000 cycles
PCB, Solder	Crimp, Solder, SMT	PCB, Solder
ALTW	ALTW	ALTW

Series	UTX PV Bulkhead Connector Series	UTX PV Cable Connector Series
		
<b>Coupling System</b>	Snap Lock	Snap Lock
<b>Contact Positions</b>	1	1
<b>Housing Material</b>	PPE	PPE
<b>AWG</b>	14 thru 10 AWG	14 thru 10 AWG
<b>Contact Current Ratings</b>	25A, 35A, 45A	25A, 35A, 45A
<b>IP Ratings</b>	IP68 mated	IP68 mated
<b>Mating Cycles</b>	100+	100+
<b>Contact Types</b>	Machined, Stamped & Formed	Machined, Stamped & Formed
<b>Business Unit</b>	AIST	AIST

Series	VENT	VP Series
		
<b>Coupling System</b>	Threaded Coupling, Snap-In	
<b>Contact Positions</b>		2P/3P (Pitch: 10.16, 12.7)
<b>Housing Material</b>	Stainless, Metal, Thermoplastic	Thermoplastic
<b>AWG</b>		20 thru 6 AWG
<b>Contact Current Ratings</b>		65A (300 - 600V)
<b>IP Ratings</b>	IP68, IP69K	
<b>Mating Cycles</b>		
<b>Contact Types</b>		Rising Clamp
<b>Business Unit</b>	ALTW	Anytek

X-Lok	YK Series
	
Push-Lock	
2-18	2-30P (Pitch: 6.35, 7.62, 8.25, 9.5, 9.52, 10.0, 11.0, 11.4, 12.7, 15.0, 16.0, 21.0, 27.5)
Thermoplastic	Thermoplastic
24 thru 12 AWG	22 thru 1/0 AWG
2A to 20A	10 to 150A (150 - 600V)
IP68	
1000+	
Solder, Crimp, Screw, Push-in	Screw Termination
ALTW	Anytek





# ENTERTAINMENT AND LIGHTING

Amphenol provides high-performance interconnect solutions, wire and cable, fiber-optic connectors, management equipment, custom assemblies and interconnection products for audio and video applications for the commercial and professional broadcast, entertainment, and lighting markets.

## GLOBAL OPERATIONS

### **Amphenol Australia (AAL)**

Australia | [www.amphenol.com.au](http://www.amphenol.com.au)

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

### **Amphenol LTW Technology Co. Ltd. (ALTW)**

Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

### **Amphenol Sine Systems (SINE)**

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)



# ENTERTAINMENT AND LIGHTING

Series	Amphe-309	Amphe-PRB Series
		
<b>Coupling System</b>	Threaded Coupling	Reverse Bayonet Coupling
<b>Contact Positions</b>	2 to 5 Pole	3-5
<b>Housing Material</b>	Valox	Thermoplastic
<b>AWG</b>	17 thru 0 AWG	12 thru 8 AWG
<b>Contact Current Ratings</b>	16A to 125A	23A to 70A
<b>IP Ratings</b>	IP67	IP67 mated
<b>Mating Cycles</b>	1000	100
<b>Contact Types</b>	Screw Termination	Machined Set Screw
<b>Business Unit</b>	AOGT	AIO / ATZ



Series	Cable Gland	Cable Glands Industrial
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>		
<b>Housing Material</b>	Thermoplastic	Nylon and Metal
<b>AWG</b>		
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	IP67, IP68	IP65, IP67 and IP68
<b>Mating Cycles</b>		
<b>Contact Types</b>		
<b>Business Unit</b>	ALTW	AIO / ATZ

Cable Joiner	Ceres	Amphe-Dante™
		
Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet	RJ45 / USB / XLR
4	2-31	1-2 channels
Thermoplastic	Thermoplastic	PVC Molded
16 thru 10 AWG	26 thru 14 AWG	
10A to 30A	2A to 20A	
IP67	IP67 unmated & mated	IP41
	1000+	1000
Crimp	PCB, Solder, Crimp, Screw	RJ45, USB, XLR
ALTW	ALTW	AAL

DVI	ecomate® RM High Amperage	Ethernet
		
Threaded Coupling	Metal Bayonet Locking	Integral Latch
19-29	1-3	8
Thermoplastic	Metal	Metal or Thermoplastic
28 AWG	16 thru 3/0 AWG	
1.5A	86A to 300A	1.5A
IP67, IP68	IP67 mated	IP40
100+	500+	1000
PCB	Machined RADSOK®	PCB, Feed-through or IDC
ALTW	SINE	AAL

# ENTERTAINMENT AND LIGHTING

Series	FICX	FLO & FLO+
		
<b>Coupling System</b>	Threaded Coupling	Push-Pull
<b>Contact Positions</b>	2-5	2-32
<b>Housing Material</b>	Thermoplastic	PPS
<b>AWG</b>	18 thru 12 AWG	26 thru 10 AWG
<b>Contact Current Ratings</b>	8A to 20A	1.5A to 35A
<b>IP Ratings</b>	IP68	IP50/IP68 (Mated)
<b>Mating Cycles</b>		5000+
<b>Contact Types</b>	Screw	PCB, Solder
<b>Business Unit</b>	ALTW	ALTW

Series	G Series	HDMI
		
<b>Coupling System</b>	Integral Latch	Threaded Coupling, Latch
<b>Contact Positions</b>	3-6	19
<b>Housing Material</b>	Metal or Thermoplastic	Thermoplastic
<b>AWG</b>	28 thru 24 AWG	26 AWG
<b>Contact Current Ratings</b>	1.2A to 5A	0.5A
<b>IP Ratings</b>	IP40	IP67
<b>Mating Cycles</b>	2000 or 5000	500+
<b>Contact Types</b>	Solder or PCB	PCM
<b>Business Unit</b>	AAL	ALTW

HS-Lok	LED Indicator	Loud Speaker
		
Push-Lock	Threaded Coupling	Integral Latch
2-6		2-8
Thermoplastic	Thermoplastic, Metal	Metal or Thermoplastic
24 thru 20 AWG		16 thru 10 AWG
2A to 5A		15A to 30A
IP68 unmated & mated	IP67	IP40
2000+		1000
Solder	Solder	Solder, Screw, PCB or Solder Tab
ALTW	ALTW	AAL


M-Series	Multi-pin	Phone Plugs & Jacks
		
Threaded Coupling, Snap-in	Bayonet Coupling	Push-Pull
2-17	19-150	2-5
Metal, Thermoplastic	Metal	Metal or Thermoplastic
26 thru 16 AWG	20 thru 16 AWG	18 thru 16 AWG
0.5A to 28A	7.5A to 13A	10A
IP68 unmated & mated, IP69K	IP67 mated	IP40
1000+	2000	1000
PCB, Solder, Crimp, IDC, Push-in, Screw	Solder or Crimp	Solder or PCB
ALTW	AAL	AAL



# ENTERTAINMENT AND LIGHTING


Series	Power	Power
		
<b>Coupling System</b>	Integral Latch	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>	2+PE	2-12
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	14 AWG	18 thru 10 AWG
<b>Contact Current Ratings</b>	16A to 25A	8A to 50A
<b>IP Ratings</b>	IP40 thru IP65 mated	IP67 unmated & mated
<b>Mating Cycles</b>	1000	1000+
<b>Contact Types</b>	Screw or Solder Tab	Solder, Screw-in, Crimp
<b>Business Unit</b>	AAL	ALTW

Series	RBL	RCA
		
<b>Coupling System</b>	Push-Lock with Latch	Push-Pull
<b>Contact Positions</b>	2-18	2
<b>Housing Material</b>	Thermoplastic	Metal
<b>AWG</b>	20 thru 12 AWG	14 AWG
<b>Contact Current Ratings</b>	5A to 20A	10A
<b>IP Ratings</b>	IP67	IP00
<b>Mating Cycles</b>	250+	500
<b>Contact Types</b>	Solder, Crimp	Solder
<b>Business Unit</b>	ALTW	AAL

RF	RJ	SSL
		
Threaded Coupling	Threaded Coupling, Lock Bayonet	Threaded Coupling, Snap-In
	8	2-6
Metal	Thermoplastic	Thermoplastic
	24 AWG	22 thru 18 AWG
	2A	3A to 12A
IP68	IP67	IP68
500+	750+	SSL 1.1: 100 cycles, SSL 1.2: 30 cycles, SSL 1.3: 10 cycles, SSL 2.1: 20 cycles, SSL 2.3: 100 cycles
Crimp, PCB	PCB, Solder	Crimp, Solder, SMT
ALTW	ALTW	ALTW

USB	VENT	X-Lok
		
Threaded Coupling, Lock Bayonet, Snap-In	Threaded Coupling, Snap-In	Push-Lock
4-24		2-18
Metal, Thermoplastic	Stainless, Metal, Thermoplastic	Thermoplastic
32 thru 23 AWG		24 thru 12 AWG
1A to 5A		2A to 20A
IP67, IP68 unmated & mated	IP68, IP69K	IP68
USB A/B: 1000 cycles, USB C: 10000 cycles, Micro USB: 10000 cycles		1000+
PCB, Solder		Solder, Crimp, Screw-in, Push-in
ALTW	ALTW	ALTW

# ENTERTAINMENT AND LIGHTING

Series	XLR
	 A collection of XLR connectors, including two black cables with silver XLR connectors, a silver XLR connector, and a clear plastic XLR connector housing.
<b>Coupling System</b>	Integral Latch
<b>Contact Positions</b>	3-7
<b>Housing Material</b>	Metal or Thermoplastic
<b>AWG</b>	20 thru 14 AWG
<b>Contact Current Ratings</b>	5A to 15A
<b>IP Ratings</b>	IP40
<b>Mating Cycles</b>	1000
<b>Contact Types</b>	Solder or PCB
<b>Business Unit</b>	AAL

# FACTORY AUTOMATION

Factory automation is the use of control systems, as well as, information technology to achieve the most efficient manufacturing processes. It includes a wide range of applications, e.g. motion control, conveyor, robotics, machine tools, and many more. Our interconnect solutions provide highly reliable signal and power transmission for standard connectors and cable assemblies, plus customized versions.

## GLOBAL OPERATIONS

### **Amphenol Daeshin (ADS)**

Korea | [www.amphenol.co.kr](http://www.amphenol.co.kr)

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

### **Amphenol LTW Technology Co. Ltd. (ALTW)**

Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

### **Amphenol Anytek (ANYTEK)**

Taiwan | [www.anytek.com.tw](http://www.anytek.com.tw)

### **Amphenol PCD Shenzhen (APCD SZ)**

China | [www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)

### **Amphenol Tuchel Electronics (ATE)**

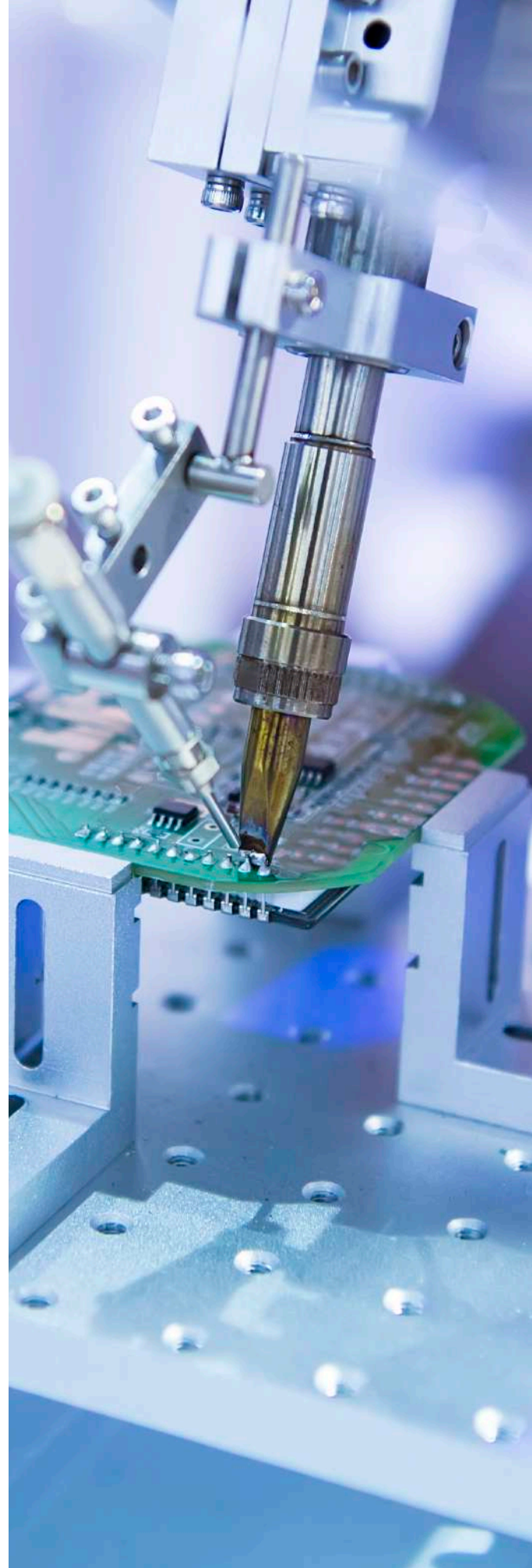
USA | [www.amphenol-sine.com](http://www.amphenol-sine.com)

### **Amphenol Sine Systems (SINE)**

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)

### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



# FACTORY AUTOMATION

Series	44 Series Circular	97 Series
		
<b>Coupling System</b>	Push-Pull	Threaded Coupling
<b>Contact Positions</b>	1-6	1 to 52
<b>Housing Material</b>	Thermoplastic Rubber	Metal
<b>AWG</b>	18 thru 14 AWG	20 thru 0 AWG
<b>Contact Current Ratings</b>	8A	13A to 150A
<b>IP Ratings</b>	IP65/67	Not Rated
<b>Mating Cycles</b>	25 Max	500+
<b>Contact Types</b>	Stamped & Formed	Machined Solder, Machined Crimp
<b>Business Unit</b>	ATI	AIO / ATZ

Series	5015	ACA-B and GT Series
		
<b>Coupling System</b>	Threaded Coupling	Reverse Bayonet Coupling
<b>Contact Positions</b>	1-85	1 to 85
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	16 thru 4/0 AWG	16 thru 4/0 AWG
<b>Contact Current Ratings</b>	13A to 250A	13A to 250A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	2000
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Machined Crimp, Solder Crimp, RADSOK® Available
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Amphe-PD™	Amphe-PPM	Amphe-PRB Series
		
Integral Latch	Push-Pull	Reverse Bayonet Coupling
2	2/3/4/5/7/9/12	3-5
Plastic	Metal	Thermoplastic
12 thru 4 AWG	24 thru 14 AWG	12 thru 8 AWG
up to 120A	5A to 13A	23A to 70A
N/A	IP67 mated	IP67 mated
N/A	500+	100
RADSOK® Crimp, PCB or Busbar	Machined Solder	Machined Set Screw
AIO / ATZ	AIO / ATZ	AIO / ATZ

Cable Gland	Cable Glands Industrial	Cable Joiner
		
Threaded Coupling	Threaded Coupling	Threaded Coupling / Snap-In with Latch
		4
Thermoplastic	Nylon and Metal	Thermoplastic
		16 thru 10 AWG
		10A to 30A
IP67, IP68	IP65, IP67 and IP68	IP67
		Crimp
ALTW	AIO / ATZ	ALTW

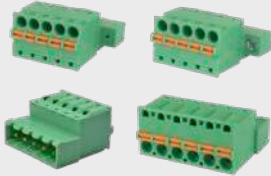
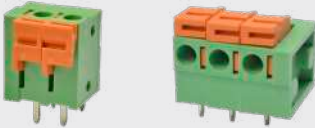

# FACTORY AUTOMATION

Series	Ceres	CMB Series
		
<b>Coupling System</b>	Threaded Coupling, Lock Bayonet	Bayonet Coupling
<b>Contact Positions</b>	2-31	1 to 61
<b>Housing Material</b>	Thermoplastic	Metal
<b>AWG</b>	26 thru 14 AWG	22 thru 12 AWG
<b>Contact Current Ratings</b>	2A to 20A	7.5A, 23A
<b>IP Ratings</b>	IP67 unmated & mated	IP67 mated
<b>Mating Cycles</b>	1000+	500
<b>Contact Types</b>	PCB, Solder, Crimp, Screw	Machined Solder
<b>Business Unit</b>	ALTW	AIO / ATZ


Series	DVI	ecomate® RM High Amperage
		
<b>Coupling System</b>	Threaded Coupling	Metal Bayonet Locking
<b>Contact Positions</b>	19-29	1-3
<b>Housing Material</b>	Thermoplastic	Metal
<b>AWG</b>	28 AWG	16 thru 3/0 AWG
<b>Contact Current Ratings</b>	1.5A	86A to 300A
<b>IP Ratings</b>	IP67, IP68	IP67 mated
<b>Mating Cycles</b>	100+	500+
<b>Contact Types</b>	PCB	Machined RADSOK®
<b>Business Unit</b>	ALTW	SINE

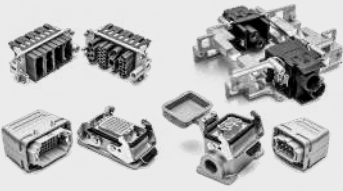



EM Series	FICX	FLO & FLO+
		
2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	Threaded Coupling	Push-Pull
Thermoplastic	2-5	2-32
22 thru 12 AWG	Thermoplastic	PPS
12A (300V)	18 thru 12 AWG	26 thru 10 AWG
200+	8A to 20A	1.5A to 35A
Rising Clamp	IP68	IP50/IP68 (Mated)
Anytek	Screw	5000+
	ALTW	PCB, Solder
		ALTW


H5 Series	HA Series	HB Series
		
2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 2.54, 3.81, 5.0, 5.08, 7.5, 7.62, 10.0)	2-24P (Pitch: 3.81, 3.96, 5.0, 7.5, 10.0)
Thermoplastic	Thermoplastic	Thermoplastic
28 thru 12 AWG	26 thru 14 AWG	24 thru 14 AWG
4 to 10A (300V)	2 to 10A (150 - 300V)	10A (300V)
200+		
Push-In Spring	Push-In Spring	Push-In Spring
Anytek	Anytek	Anytek

# FACTORY AUTOMATION

Series	HC Series	HDMI
		
<b>Coupling System</b>		Threaded Coupling, Latch
<b>Contact Positions</b>	2-24P (Pitch: 2.5, 3.5, 7.0)	19
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	26 thru 16 AWG	26 AWG
<b>Contact Current Ratings</b>	2 to 6A (300V)	0.5A
<b>IP Ratings</b>		IP67
<b>Mating Cycles</b>		500+
<b>Contact Types</b>	Push-In Spring	PCB
<b>Business Unit</b>	Anytek	ALTW

Series	heavymate®	HI Series
		
<b>Coupling System</b>	Quick Latching	
<b>Contact Positions</b>	6-140	2-24P (Pitch: 5.0, 7.5, 7.62)
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	28 thru 3/0 AWG	28 thru 12 AWG
<b>Contact Current Ratings</b>	10A to 300A	15A (300V)
<b>IP Ratings</b>	IP65, 67, 68, 69K mated	
<b>Mating Cycles</b>	500+	200+
<b>Contact Types</b>	Crimp (Turned/Stamped & Formed), Screw, Push-In, Cage Clamp	Cage Clamp
<b>Business Unit</b>	ATI	Anytek

HQ Series	HR Series	HS Series
		
2*2-2*24P (Pitch: 5.08, 7.62, 10.16)	3*2-3*24P (Pitch: 5.08, 7.62, 10.16)	4*2-4*24P (Pitch: 5.0, 5.08, 7.5, 7.62, 10.0, 10.16)
Thermoplastic	Thermoplastic	Thermoplastic
28 thru 12 AWG	28 thru 12 AWG	28 thru 12 AWG
10A (300V)	10A (300V)	10A (300V)
Cage Clamp	Cage Clamp	Cage Clamp
Anytek	Anytek	Anytek


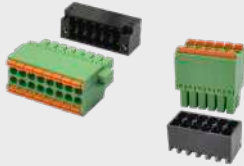

HS-Lok	HW Series	Industrial Terminal Blocks
		
Push-Lock	2-24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	Screw, Screwless
2-6	Thermoplastic	2-24
Thermoplastic	28 thru 12 AWG	Plastic
24 thru 20 AWG	4 to 10A (150 - 300V)	30 thru 12 AWG
2A to 5A		2.5 to 250A
IP68 unmated & mated		
2000+	200+	50+
Solder	Push-In Spring	Stamped & Formed
ALTW	Anytek	APCD SZ

# FACTORY AUTOMATION

Series	KD & KE Series	KZ Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2*2-2*24P (Pitch: 3.5, 3.81, 5.0, 5.08)	2-24P (Pitch: 3.5, 5.0)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	24 thru 14 AWG	26 thru 12 AWG
<b>Contact Current Ratings</b>	5.5 to 12A (160 - 300V)	10 to 15A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Push-In Spring	Screw-Wire Protector Clamp
<b>Business Unit</b>	Anytek	Anytek

Series	LPT Series	M23 & M40
		
<b>Coupling System</b>	Bayonet Coupling	Metal Threaded & Quick Locking
<b>Contact Positions</b>	4 to 55	6-19 and Hybrid
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	22 thru 12 AWG	28 thru 8 AWG
<b>Contact Current Ratings</b>	7.5A to 23A	0.5A to 75A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	500+
<b>Contact Types</b>	Machined Crimp, Stamped & Formed Crimp	Machined
<b>Business Unit</b>	AIO / ATZ	SINE

Max-M12	Micro-B	M-Series
		
Threaded Coupling	Bayonet Coupling	Threaded Coupling, Snap-in
3/4/5/8/12	7/10/15	2-17
Metal	Metal	Metal, Thermoplastic
24 thru 16 AWG	24 thru 20 AWG	26 thru 16 AWG
4A max	5A	0.5A to 28A
IP67 mated	IP67 mated	IP68 unmated & mated, IP69K
100+	500+	1000+
Machined Solder	Stamped & Formed Crimp	PCB, Solder, Crimp, IDC, Push-in, Screw
AIO / ATZ	AIO / ATZ	ALTW

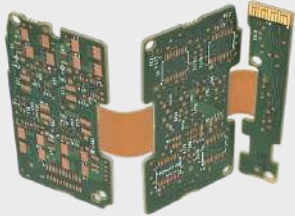


NI Series	NR & NL Series	OQ Series
		
1-24P (Pitch: 3.81, 5.08)	2*2-2*24P (Pitch: 3.5)	2-24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)
Thermoplastic, PA4T	Thermoplastic, LCP	Thermoplastic, LCP
26 thru 16 AWG	24 thru 16 AWG	4 to 20A (300V)
10A (300V)	5.5A (150 - 300V)	4 to 20A (300V)
	200+	200+
Push-In Spring	Push-In Spring	
Anytek	Anytek	Anytek

# FACTORY AUTOMATION

Series	Power	PowerBOSSlite™ M35
		
<b>Coupling System</b>	Threaded Coupling, Lock Bayonet	Metal Threaded
<b>Contact Positions</b>	2-12	3 & 4
<b>Housing Material</b>	Thermoplastic	Overmolded
<b>AWG</b>	18 thru 10 AWG	10 AWG
<b>Contact Current Ratings</b>	8A to 50A	25A, 30A
<b>IP Ratings</b>	IP67 unmated & mated	IP67 mated
<b>Mating Cycles</b>	1000+	500+
<b>Contact Types</b>	Solder, Screw, Crimp	Machined
<b>Business Unit</b>	ALTW	SINE

Series	PowerBOSS™ M40 with CheckMate™	PT Series
		
<b>Coupling System</b>	Metal Quick Connect	Bayonet Coupling
<b>Contact Positions</b>	6	1 to 61
<b>Housing Material</b>	Overmolded	Metal
<b>AWG</b>	8 & 10 AWG	22 thru 12 AWG
<b>Contact Current Ratings</b>	25A, 32A	7.5A to 23A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500+	500
<b>Contact Types</b>	Machined	Machined Solder, Machined Crimp
<b>Business Unit</b>	SINE	AIO / ATZ

RADSOK® GroundMate™	RF	SSL
		
Press-fit	Threaded Coupling	Threaded Coupling, Snap-In
1		2-6
Metal	Metal	Thermoplastic
12 thru 8 AWG		22 thru 18 AWG
180A		3A to 12A
Up to IP65 mated	IP68	IP68
1,000+	500+	SSL 1.1: 100 cycles, SSL 1.2: 30 cycles, SSL 1.3: 10 cycles, SSL 2.1: 20 cycles, SSL 2.3: 100 cycles
Machined RADSOK®	Crimp, PCB	Crimp, Solder, SMT
ATI	ALTW	ALTW

Standard Flex (Type I-IV)	TB & TC Series	TG Series
		
Connector termination		
Any as defined by design	2-24P (Pitch: 5.0, 5.08)	2-24P (Pitch: 5.0, 5.08)
Polyimide	Thermoplastic, PA46	Thermoplastic
Various as defined by design	22 thru 14 AWG	24 thru 12 AWG
	15 to 16A (250V)	10 to 15A (300V)
N/A		
Dependant on termination system		
Copper on flex or usable with any variety of SMT or through hole connector systems.	Screw-Wire Protector Clamp	Rising Clamp
GASF	Anytek	Anytek



# FACTORY AUTOMATION



Series	TJ Series	TR Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	1-24P (Pitch: 3.81, 5.0, 7.5, 10.0)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	28 thru 12 AWG	26 thru 12 AWG
<b>Contact Current Ratings</b>	10 to 20A (300V)	8 to 20A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Rising Clamp	Screw-Wire Protector Clamp
<b>Business Unit</b>	Anytek	Anytek


Series	TS Series	TZ Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 3.5, 5.0)
<b>Housing Material</b>	Thermoplastic	LCP
<b>AWG</b>	28 thru 12 AWG	30 thru 14 AWG
<b>Contact Current Ratings</b>	8 to 15A (300V)	6 to 10A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Rising Clamp	Rising Clamp
<b>Business Unit</b>	Anytek	Anytek

UPT Series	USB	V7 Series
		
Bayonet Coupling	Threaded Coupling, Lock Bayonet, Snap-In	
7 to 48	4-24	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)
Thermoplastic	Metal, Thermoplastic	Thermoplastic
22 thru 12 AWG	32 thru 23 AWG	
7.5A to 23A	1A to 5A	4 to 12A (300V)
IP67 mated	IP67, IP68 unmated & mated	
500	USB A/B: 1000 cycles, USB C: 10000 cycles, Micro USB: 10000 cycles	200+
Machined Crimp, Stamped & Formed Crimp	PCB, Solder	
AIO / ATZ	ALTW	Anytek

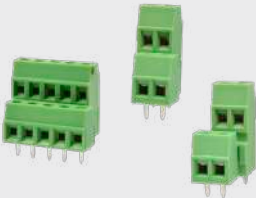
V8 Series	VENT	VersaBOSS™ VFD Cables
		
	Threaded Coupling, Snap-In	Metal Bayonet Locking
2-24P (Pitch: 3.81, 5.08, 7.62)		9
Thermoplastic	Stainless, Metal, Thermoplastic	Overmolded
30 thru 12 AWG		18 thru 12 AWG
8 to 20A (300V)		20A
	IP68, IP69K	IP67 mated
200+		500+
Rising Clamp		Machined
Anytek	ALTW	SINE

# FACTORY AUTOMATION

Series	VI Series	VK Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 5.0, 5.08, 7.5)	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	28 thru 12 AWG	
<b>Contact Current Ratings</b>	16A (300V)	8 to 15A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>		200+
<b>Contact Types</b>	Rising Clamp	
<b>Business Unit</b>	Anytek	Anytek

Series	VL Series	VM Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2*2-2*24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08)	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>		28 thru 12 AWG
<b>Contact Current Ratings</b>	4 to 20A (150 - 300V)	10 to 12A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	200+
<b>Contact Types</b>		Rising Clamp
<b>Business Unit</b>	Anytek	Anytek

VN/YO Series	XCEL POWER MATE	X-Lok
		
2-24P (Pitch: 2.54, 3.5, 3.81)	Bayonet	Push-Lock
Thermoplastic	2-5	2-18
30 thru 16 AWG	Plastic	Thermoplastic
6 to 10A (300V)	14 thru 10 AWG	24 thru 12 AWG
	10 to 46A	2A to 20A
	IP67 mated	IP68
	500+	1000+
Rising Clamp	Machined	Solder, Crimp, Screw, Push-in
Anytek	APCD SZ	ALTW

YA Series	YQ Series
	
3*2-3*24P (Pitch: 3.81)	2*2-2*24P (Pitch: 3.5, 3.81)
Thermoplastic	Thermoplastic
24 thru 16 AWG	24 thru 16 AWG
10A (150V)	10A (300V)
Rising Clamp	Rising Clamp
Anytek	Anytek





# HEAVY EQUIPMENT

As the heavy equipment industry continues to introduce new devices that change the world's landscape, Amphenol is there to bring electrical interconnect and value added design solutions. These solutions allow for highly technical pieces of equipment to operate at the highest level of productivity. The enormous breadth of Amphenol products solve the most difficult of applications which allow our customers to perform in some of the world's harshest environments. Products include harsh environment connectors, power connectors, signal interconnects, high speed connectors, and much more.

## GLOBAL OPERATIONS

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### **Amphenol Technologies Shenzhen (ATS)**

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### **Amphenol Technical Products International (ATPI)**

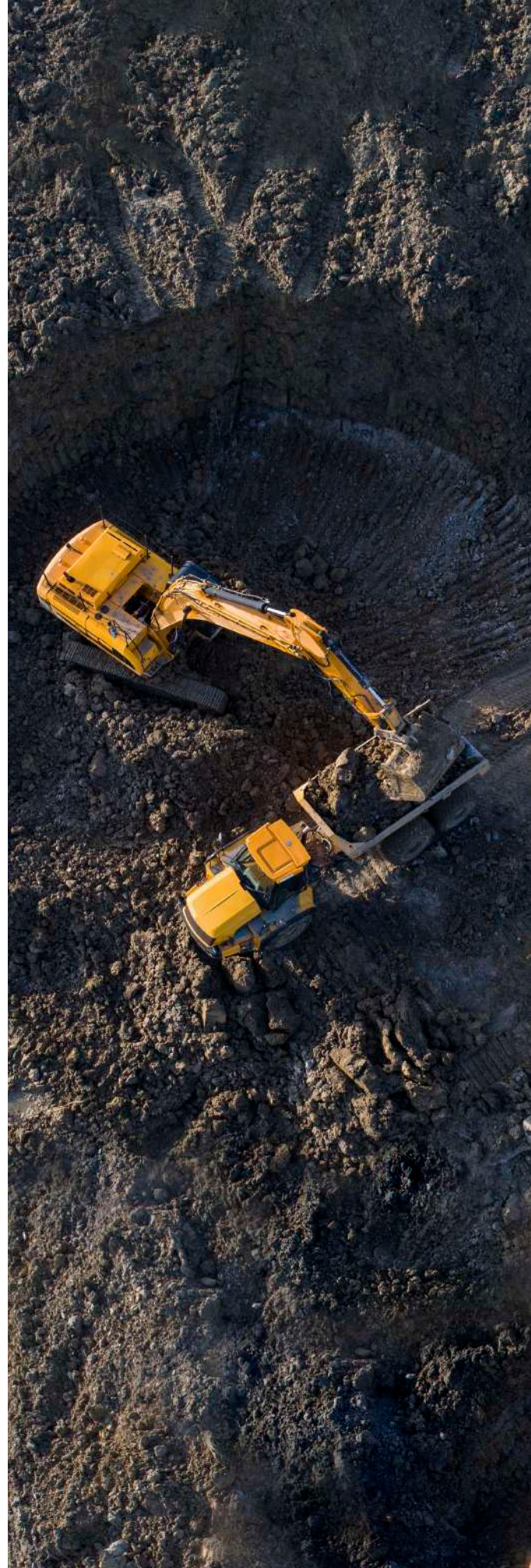
Canada | [www.amphenol-tpi.com](http://www.amphenol-tpi.com)

### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)

### **Amphenol Sine Systems (SINE)**

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)




# HEAVY EQUIPMENT

Series	97 Series	5015
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>	1 to 52	1-85
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	20 thru 0 AWG	16 thru 4/0 AWG
<b>Contact Current Ratings</b>	13A to 150A	13A to 250A
<b>IP Ratings</b>	Not Rated	IP67 mated
<b>Mating Cycles</b>	500+	500
<b>Contact Types</b>	Machined Solder, Machined Crimp	Machined Crimp, Solder Crimp, RADSOK® Available
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	ACA-B and GT Series	AHVB
		
<b>Coupling System</b>	Reverse Bayonet Coupling	Integral Latch
<b>Contact Positions</b>	1 to 85	4
<b>Housing Material</b>	Metal	Plastic
<b>AWG</b>	16 thru 4/0 AWG	18 thru 16 AWG
<b>Contact Current Ratings</b>	13A to 250A	5A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	2000	up to 100k for the contacts
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Machined Crimp, PCB
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ



Amphe-EX	Amphe-Lite	Amphe-Lite M3
		
Threaded Coupling	ACME Threads	ACME Threads
2-79	2 to 128	2 to 128
Hard anodized AL or SS316L	Composite	Metal
22 thru 10 AWG	24 thru 10 AWG	24 thru 10 AWG
23A	5A to 33A	5A to 33A
IP67, IP68	IP67 / IP69K mated	IP67 / IP69K mated
500+	500+	500+
Machined Crimp	Machined Crimp	Machined Crimp
AOGT	AIO / ATZ	AIO / ATZ

ASGP	ATC Series	ATHD
		
Latch	Integral Latch	Integral Latch
10	3/5/9	
Metal	Thermoplastic	Thermoplastic
16 thru 500 MCM AWG	20 thru 14 AWG	16 AWG
1 to 500A	13A	35A, 70A
IP67 mated	IP67 mated	IP67 mated
500+	100+	100+
Machined	Machined Crimped, Stamped & Formed Crimped	Machined Crimped
APCD SZ	AIO / ATZ	AIO / ATZ

# HEAVY EQUIPMENT

Series	Cable Gland	Cable Glands Industrial
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>		
<b>Housing Material</b>	Thermoplastic	Nylon and Metal
<b>AWG</b>		
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	IP67, IP68	IP65, IP67 and IP68
<b>Mating Cycles</b>		
<b>Contact Types</b>		
<b>Business Unit</b>	ALTW	AIO / ATZ



Series	Cable Joiner	Ceres
		
<b>Coupling System</b>	Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>	4	2-31
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	16 thru 10 AWG	26 thru 14 AWG
<b>Contact Current Ratings</b>	10A to 30A	2A to 20A
<b>IP Ratings</b>	IP67	IP67 unmated & mated
<b>Mating Cycles</b>		1000+
<b>Contact Types</b>	Crimp	PCB, Solder, Crimp, Screw
<b>Business Unit</b>	ALTW	ALTW

Double Sided Flex - Type II	D-SUB	DVI
		
Yes	Threaded Coupling	Threaded Coupling
2	9-78	19-29
Polyimide	Thermoplastic, Metal	Thermoplastic
Yes	26 thru 24 AWG	28 AWG
	2A to 5A	1.5A
N/A	IP67, IP68	IP67, IP68
Dependant on termination system	500+	100+
Copper	PCB, Solder, Crimp	PCB
GASF	ALTW	ALTW

ecomate® RM High Amperage	EMP	ePower
		
Metal Bayonet Locking	Screw	Press-fit Screw
1-3	3-6	2 to 3
Metal	Metal	Aluminum
16 thru 3/0 AWG	4 thru 250 MCM AWG	4 thru 600 AWG MCM
86A to 300A	250 to 700A	up to 700A
IP67 mated	IP67 mated	IP67 mated
500+	500+	N/A
Machined RADSOK®	Machined	RADSOK® Crimp or Busbar
SINE	APCD SZ	AIO / ATZ

# HEAVY EQUIPMENT

Series	ePower-Lite	FICX
		
<b>Coupling System</b>	Integral Latch	Threaded Coupling
<b>Contact Positions</b>	2, 3, 4	2-5
<b>Housing Material</b>	Plastic	Thermoplastic
<b>AWG</b>	14 thru 4 AWG	18 thru 12 AWG
<b>Contact Current Ratings</b>	up to 120A	8A to 20A
<b>IP Ratings</b>	IP67 mated	IP68
<b>Mating Cycles</b>	100	
<b>Contact Types</b>	RADSOK® Crimp	Screw
<b>Business Unit</b>	AIO / ATZ	ALTW

Series	FLO & FLO+	HC Series, Power and Signal Connector
		
<b>Coupling System</b>	Push-Pull	Lever Lock, Reverse Flange Mount
<b>Contact Positions</b>	2-32	26 Signal, 6 Power
<b>Housing Material</b>	PPS	Thermoplastic
<b>AWG</b>	26 thru 10 AWG	Signal: 22 thru 20 AWG, Power: 18 thru 14 AWG
<b>Contact Current Ratings</b>	1.5A to 35A	Signal: 5A, Power: 13A
<b>IP Ratings</b>	IP50/IP68 (Mated)	IP67, IP6K9K (in mated condition)
<b>Mating Cycles</b>	5000+	100 cycles
<b>Contact Types</b>	PCB, Solder	Pin & Socket, Stamped and Formed Crimp
<b>Business Unit</b>	ALTW	ATPI

HDMI	Heavy  Mate	heavymate®
		
Threaded Coupling, Latch	Lever	Quick Latching
19	1-108	6-140
Thermoplastic	Metal	Metal
26 AWG	26 thru 500 MCM AWG	28 thru 3/0 AWG
0.5A	5 to 700A	10A to 300A
IP67	IP65, IP68	IP65, 67, 68, 69K mated
500+	500+	500+
PCB	Machined	Crimp (Turned/Stamped & Formed), Screw, Push-In, Cage Clamp
ALTW	APCD SZ	ATI




HS-Lok	Jumper	LED Indicator
		
Push-Lock	Latch	Threaded Coupling
2-6	216	
Thermoplastic	Metal	Thermoplastic, Metal
24 thru 20 AWG	22 thru 1/0 AWG	
2A to 5A	1 to 100A	
IP68 unmated & mated	IP67 mated	IP67
2000+	500+	
Solder	Machined	Solder
ALTW	APCD SZ	ALTW

# HEAVY EQUIPMENT

Series	LPT Series	Max-M12
		
<b>Coupling System</b>	Bayonet Coupling	Threaded Coupling
<b>Contact Positions</b>	4 to 55	3/4/5/8/12
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	22 thru 12 AWG	24 thru 16 AWG
<b>Contact Current Ratings</b>	7.5A to 23A	4A max
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	100+
<b>Contact Types</b>	Machined Crimp, Stamped & Formed Crimp	Machined Solder
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	M-Series	OM RADSOK® on Cable & Busbar
		
<b>Coupling System</b>	Threaded Coupling, Snap-in	Bolt Down, Latch, Custom
<b>Contact Positions</b>	2-17	1 - 3, Custom
<b>Housing Material</b>	Metal, Thermoplastic	Thermoplastic
<b>AWG</b>	26 thru 16 AWG	8 thru 300 MCM AWG
<b>Contact Current Ratings</b>	0.5A to 28A	70A to 400A
<b>IP Ratings</b>	IP68 unmated & mated, IP69K	IP2X, IP67, IPx9k, as Required
<b>Mating Cycles</b>	1000+	100+
<b>Contact Types</b>	PCB, Solder, Crimp, IDC, Push-in, Screw	Machined, Stamped & Formed
<b>Business Unit</b>	ALTW	ATPI



Power	PowerLok	PowerLok 4.0
		
Threaded Coupling, Lock Bayonet	Latch, Lever Lock	Latch, Lever Lock
2-12	1, 2, and 3 Position	2, 3, and 4 Position
Thermoplastic	Metal	Metal
18 thru 10 AWG	8 thru 300 MCM AWG	14 thru 8 AWG
8A to 50A	up to 500A	up to 60A
IP67 unmated & mated	IP2X unmated, IP67 mated	IP2X unmated, IP67 mated
1000+	100+	100+
Solder, Screw, Crimp	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined
ALTW	ATPI	ATPI

PowerLok G2	RadLok	RBL
		
Lever Lock	Pushbutton Latch	Push-Lock with Latch
1, 2, and 3 position Power w/ HVIL	1	2-18
Aluminum	Thermoplastic	Thermoplastic
2 thru 4/0 AWG	8 thru 300 MCM AWG	20 thru 12 AWG
up to 450A	70A to 500A	5A to 20A
IP67, IP6K9K (in mated condition)	IP2X / IP30 mated	IP67
100 cycles	100+	250+
RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Solder, Crimp
ATPI	ATPI	ALTW



# HEAVY EQUIPMENT



Series	RF	RJ
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>		8
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>		24 AWG
<b>Contact Current Ratings</b>		2A
<b>IP Ratings</b>	IP68	IP67
<b>Mating Cycles</b>	500+	750+
<b>Contact Types</b>	Crimp, PCB	PCB, Solder
<b>Business Unit</b>	ALTW	ALTW

Series	Sculptured	SSL
		
<b>Coupling System</b>	No	Threaded Coupling, Snap-In
<b>Contact Positions</b>	1	2-6
<b>Housing Material</b>	Polyimide	Thermoplastic
<b>AWG</b>	Yes	22 thru 18 AWG
<b>Contact Current Ratings</b>		3A to 12A
<b>IP Ratings</b>	N/A	IP68
<b>Mating Cycles</b>	Dependant on termination system	SSL 1.1: 100 cycles SSL 1.2: 30 cycles SSL 1.3: 10 cycles SSL 2.1: 20 cycles SSL 2.3: 100 cycles
<b>Contact Types</b>	Copper	Crimp, Solder, SMT
<b>Business Unit</b>	GASF	ALTW

Standard Flex (Type I-IV)	Star-Line	Tru-Loc®
		
Connector termination	Threaded Coupling	Integral Latch
Any as defined by design	1 - 143	24/6
Polyimide	Hard anodized AL or SS316L	Thermoplastic
Various as defined by design	18 AWG thru 777 MCM	16 AWG
N/A	1500A	13A
Dependant on termination system	IP67, IP68	IP67 mated
Copper on flex or usable with any variety of SMT or through hole connector systems.	500+	100+
	Machined Solder, Crimp, Set Screw, RADSOK® Available	Stamped & Formed Crimp (RADSOK®)
GASF	AOGT	AIO / ATZ

UPC	UPT Series	USB
		
Lever Latch	Bayonet Coupling	Threaded Coupling, Lock Bayonet, Snap-In
2 to 3	7 to 48	4-24
Plastic	Thermoplastic	Metal, Thermoplastic
4 thru 300 AWG MCM	22 thru 12 AWG	32 thru 23 AWG
up to 450A	7.5A to 23A	1A to 5A
IP67 & IP69k mated	IP67 mated	IP67, IP68 unmated & mated
100	500	USB A/B: 1000 cycles USB C: 10000 cycles Micro USB: 10000 cycles
RADSOK® Crimp or Busbar	Machined Crimp, Stamped & Formed Crimp	PCB, Solder
AIO / ATZ	AIO / ATZ	ALTW

# HEAVY EQUIPMENT

Series	Value Added Flexible Printed Circuits	VENT
		
<b>Coupling System</b>		Threaded Coupling, Snap-In
<b>Contact Positions</b>	1-16	
<b>Housing Material</b>	Polyimide	Stainless, Metal, Thermoplastic
<b>AWG</b>		
<b>Contact Current Ratings</b>	Up to 100 amps	
<b>IP Ratings</b>	N/A	IP68, IP69K
<b>Mating Cycles</b>	Dependant on termination system	
<b>Contact Types</b>	Copper	
<b>Business Unit</b>	GASF	ALTW

Series	X-Lok
	
<b>Coupling System</b>	Push-Lock
<b>Contact Positions</b>	2-18
<b>Housing Material</b>	Thermoplastic
<b>AWG</b>	24 thru 12 AWG
<b>Contact Current Ratings</b>	2A to 20A
<b>IP Ratings</b>	IP68
<b>Mating Cycles</b>	1000+
<b>Contact Types</b>	Solder, Crimp, Screw, Push-in
<b>Business Unit</b>	ALTW

# INDUSTRIAL

Amphenol is a technology leader in the design, manufacture, and supply of high-performance interconnect systems for a broad range of industrial applications. Amphenol's core competencies include application specific industrial interconnect solutions utilizing integrated assemblies with flexible printed circuits, as well as, high-power interconnects requiring a high degree of engineering and system integration. Our innovative solutions facilitate the increasing demands of embedded computing and power distribution.

## GLOBAL OPERATIONS

### **Amphenol Daeshin (ADS)**

Korea | [www.amphenol.co.kr](http://www.amphenol.co.kr)

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

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### **Amphenol Anytek (ANYTEK)**

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### **Amphenol Sine Systems (SINE)**

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# INDUSTRIAL

Series	44 Series Circular	97 Series
		
<b>Coupling System</b>	Push-Pull	Threaded Coupling
<b>Contact Positions</b>	1-6	1 to 52
<b>Housing Material</b>	Thermoplastic Rubber	Metal
<b>AWG</b>	18 thru 14 AWG	20 thru 0 AWG
<b>Contact Current Ratings</b>	8A	13A to 150A
<b>IP Ratings</b>	IP65/67	Not Rated
<b>Mating Cycles</b>	25 Max	500+
<b>Contact Types</b>	Stamped & Formed	Machined Solder, Machined Crimp
<b>Business Unit</b>	ATI	AIO / ATZ

Series	5015	ACA-B and GT Series
		
<b>Coupling System</b>	Threaded Coupling	Reverse Bayonet Coupling
<b>Contact Positions</b>	1-85	1 to 85
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	16 thru 4/0 AWG	16 thru 4/0 AWG
<b>Contact Current Ratings</b>	13A to 250A	13A to 250A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	2000
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Machined Crimp, Solder Crimp, RADSOK® Available
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Amphe-309	Amphe-Lite	Amphe-PD™
		
Threaded Coupling	ACME Threads	Integral Latch
2 to 5 Pole	2 to 128	2
Valox	Composite	Plastic
17 thru 0 AWG	24 thru 10 AWG	12 thru 4 AWG
16A to 125A	5A to 33A	up to 120A
IP67	IP67 / IP69K mated	N/A
1000	500+	N/A
Screw Termination	Machined Crimp	RADSOK® Crimp, PCB or Busbar
AOGT	AIO / ATZ	AIO / ATZ

Amphe-Lite M3	Amphe-PPM	ASRC-M
		
ACME Threads	Push-Pull	Screw
2 to 128	2/3/4/5/7/9/12	8-48
Metal	Metal	Metal
24 thru 10 AWG	24 thru 14 AWG	26 thru 16 AWG
5A to 33A	5A to 13A	1 to 13A
IP67 / IP69K mated	IP67 mated	IP67 mated
500+	500+	500+
Machined Crimp	Machined Solder	Machined
AIO / ATZ	AIO / ATZ	APCD SZ



# INDUSTRIAL

Series	ASTE	ASTP
		
<b>Coupling System</b>	Latch	Latch
<b>Contact Positions</b>	4-8	34-50
<b>Housing Material</b>	Plastic	Metal
<b>AWG</b>	26 thru 16 AWG	26 thru 12 AWG
<b>Contact Current Ratings</b>	1 to 13A	1 to 23A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined	Machined
<b>Business Unit</b>	APCD SZ	APCD SZ

Series	ATC Series	Cable Gland
		
<b>Coupling System</b>	Integral Latch	Threaded Coupling
<b>Contact Positions</b>	3/5/9	
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	20 thru 14 AWG	
<b>Contact Current Ratings</b>	13A	
<b>IP Ratings</b>	IP67 mated	IP67, IP68
<b>Mating Cycles</b>	100+	
<b>Contact Types</b>	Machined Crimped, Stamped & Formed Crimped	
<b>Business Unit</b>	AIO / ATZ	ALTW



Cable Glands Industrial	Cable Joiner	Ceres
		
Threaded Coupling	Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet
	4	2-31
Nylon and Metal	Thermoplastic	Thermoplastic
	16 thru 10 AWG	26 thru 14 AWG
	10A to 30A	2A to 20A
IP65, IP67 and IP68	IP67	IP67 unmated & mated
		1000+
	Crimp	PCB, Solder, Crimp, Screw
AIO / ATZ	ALTW	ALTW

CMB Series	Double Sided Flex - Type II	D-SUB
		
Bayonet Coupling	Yes	Threaded Coupling
1 to 61	2	9-78
Metal	Polyimide	Thermoplastic, Metal
22 thru 12 AWG	Yes	26 thru 24 AWG
7.5A, 23A		2A to 5A
IP67 mated	N/A	IP67, IP68
500	Dependant on termination system	500+
Machined Solder	Copper	PCB, Solder, Crimp
AIO / ATZ	GASF	ALTW

# INDUSTRIAL

Series	D-SUB with EMI Shell	DVI
		
<b>Coupling System</b>	Screw	Threaded Coupling
<b>Contact Positions</b>	9-15	19-29
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	26 thru 18 AWG	28 AWG
<b>Contact Current Ratings</b>	1 to 7.5A	1.5A
<b>IP Ratings</b>	IP67 mated	IP67, IP68
<b>Mating Cycles</b>	500+	100+
<b>Contact Types</b>	Machined	PCB
<b>Business Unit</b>	APCD SZ	ALTW

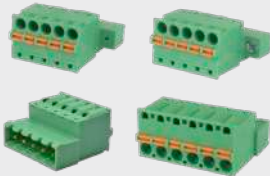

Series	ecomate® RM High Amperage	EI Series
		
<b>Coupling System</b>	Metal Bayonet Locking	
<b>Contact Positions</b>	1-3	2-10P (Pitch: 15.0)
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	16 thru 3/0 AWG	20 thru 2 AWG
<b>Contact Current Ratings</b>	86A to 300A	125A (600V)
<b>IP Ratings</b>	IP67 mated	
<b>Mating Cycles</b>	500+	
<b>Contact Types</b>	Machined RADSOK®	Rising Clamp
<b>Business Unit</b>	SINE	Anytek


EM Series	EMP	ePower
		
2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	Screw 3-6	Press-fit Screw 2 to 3
Thermoplastic	Metal	Aluminum
22 thru 12 AWG	4 thru 250 MCM AWG	4 thru 600 AWG MCM
12A (300V)	250 to 700A	up to 700A
	IP67 mated	IP67 mated
200+	500+	N/A
Rising Clamp	Machined	RADSOK® Crimp or Busbar
Anytek	APCD SZ	AIO / ATZ




ePower-Lite	EW & EV Series	EX309
		
Integral Latch 2, 3, 4	2-12P (Pitch: 10.16)	Threaded Coupling 3 to 5 Pole
Plastic	Thermoplastic	Glass-fiber reinforced polyester (LSMH)-PA6 - Dissipative
14 thru 4 AWG	20 thru 6 AWG	17 thru 0 AWG
up to 120A	55A (300V)	16A to 125A
IP67 mated		IP67
100	200+	1000
RADSOK® Crimp	Rising Clamp	Screw Termination
AIO / ATZ	Anytek	AOGT

# INDUSTRIAL


Series	FICX	FLO & FLO+
		
<b>Coupling System</b>	Threaded Coupling	Push-Pull
<b>Contact Positions</b>	2-5	2-32
<b>Housing Material</b>	Thermoplastic	PPS
<b>AWG</b>	18 thru 12 AWG	26 thru 10 AWG
<b>Contact Current Ratings</b>	8A to 20A	1.5A to 35A
<b>IP Ratings</b>	IP68	IP50/IP68 (Mated)
<b>Mating Cycles</b>		5000+
<b>Contact Types</b>	Screw	PCB, Solder
<b>Business Unit</b>	ALTW	ALTW

Series	H5 Series	H8 Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 10.0, 15.0, 20.0)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	28 thru 12 AWG	24 thru 6 AWG
<b>Contact Current Ratings</b>	4 to 10A (300V)	37 to 57A (300 - 600V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Push-In Spring	Cage Clamp
<b>Business Unit</b>	Anytek	Anytek




HA Series	HB Series	HC Series
		
2-24P (Pitch: 2.54, 3.81, 5.0, 5.08, 7.5, 7.62, 10.0)	2-24P (Pitch: 3.81, 3.96, 5.0, 7.5, 10.0)	2-24P (Pitch: 2.5, 3.5, 7.0)
Thermoplastic	Thermoplastic	Thermoplastic
26 thru 14 AWG	24 thru 14 AWG	26 thru 16 AWG
2 to 10A (150 - 300V)	10A (300V)	2 to 6A (300V)
Push-In Spring	Push-In Spring	Push-In Spring
Anytek	Anytek	Anytek


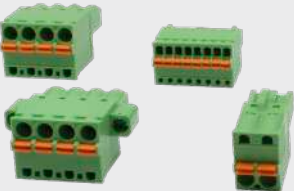

HC Series, Power and Signal Connector	HDMI	Heater Flex
		
Lever Lock, Reverse Flange Mount	Threaded Coupling, Latch	No
26 Signal, 6 Power	19	1-2
Thermoplastic	Thermoplastic	Polyimide
Signal: 22 thru 20 AWG, Power: 18 thru 14 AWG	26 AWG	No
Signal: 5A, Power: 13A	0.5A	
IP67, IP6K9K (in mated condition)	IP67	N/A
100 cycles	500+	Dependant on termination system
Pin & Socket, Stamped and Formed Crimp	PCB	Copper
ATPI	ALTW	GASF

# INDUSTRIAL

Series	Heavy  Mate	heavymate®
		
<b>Coupling System</b>	Lever	Quick Latching
<b>Contact Positions</b>	1-108	6-140
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	26 thru 500 MCM AWG	28 thru 3/0 AWG
<b>Contact Current Ratings</b>	5 to 700A	10A to 300A
<b>IP Ratings</b>	IP65, IP68	IP65, 67, 68, 69K mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined	Crimp (Turned/Stamped & Formed), Screw, Push-In, Cage Clamp
<b>Business Unit</b>	APCD SZ	ATI

Series	Overmolded Fuses	HI Series
		
<b>Coupling System</b>	UL Listed Connectors: H4,UTC, MC4, EVO2	
<b>Contact Positions</b>	1	2-24P (Pitch: 5.0, 7.5, 7.62)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	14 thru 8 AWG	28 thru 12 AWG
<b>Contact Current Ratings</b>	1 to 32A (1000/1500V)	15A (300V)
<b>IP Ratings</b>	IP68	
<b>Mating Cycles</b>		200+
<b>Contact Types</b>		Cage Clamp
<b>Business Unit</b>	ATPI	Anytek

High Voltage	HPT Series	HS-Lok
		
Quick-Lock, Friction, J-Slot, Auto-Lock	Bayonet Coupling	Push-Lock
9-Jan	1 to 61	2-6
Thermoplastic	Metal / Glass	Thermoplastic
22 thru 12 AWG	22 thru 12 AWG	24 thru 20 AWG
Not Rated	5A to 17A	2A to 5A
Not Rated	High Pressures up to 1.0×10 <sup>-6</sup> cc/sec at 15 psi differential	IP68 unmated & mated
	500+	2000+
Machined	Machined Solder	Solder
Alden	AIO / ATZ	ALTW

HVSP	HW Series	Industrial Terminal Blocks
		
CPA		Screw, Screwless
1	2-24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24
Plastic	Thermoplastic	Plastic
4 thru 2/0 AWG	28 thru 12 AWG	30 thru 12 AWG
100 to 250A	4 to 10A (150 - 300V)	2.5 to 250A
IP67, IP6K9K		
50+	200+	50+
Machined	Push-In Spring	Stamped & Formed
APCD SZ	Anytek	APCD SZ



# INDUSTRIAL

Series	KU & KX Series	KZ Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-10P (Pitch: 15.0)	2-24P (Pitch: 3.5, 5.0)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	20 thru 2 AWG	26 thru 12 AWG
<b>Contact Current Ratings</b>	115A (600V)	10 to 15A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Rising Clamp	Screw-Wire Protector Clamp
<b>Business Unit</b>	Anytek	Anytek

Series	LED Indicator	LPT Series
		
<b>Coupling System</b>	Threaded Coupling	Bayonet Coupling
<b>Contact Positions</b>		4 to 55
<b>Housing Material</b>	Thermoplastic, Metal	Metal
<b>AWG</b>		22 thru 12 AWG
<b>Contact Current Ratings</b>		7.5A to 23A
<b>IP Ratings</b>	IP67	IP67 mated
<b>Mating Cycles</b>		500
<b>Contact Types</b>	Solder	Machined Crimp, Stamped & Formed Crimp
<b>Business Unit</b>	ALTW	AIO / ATZ


M23 & M40	Max-M12	MediMate
		
Metal Threaded & Quick Locking	Threaded Coupling	Push-Pull Latch
6-19 and Hybrid	3/4/5/8/12	2 to 14
Metal	Metal	Thermoplastic
28 thru 8 AWG	24 thru 16 AWG	28 thru 20 AWG
0.5A to 75A	4A max	2A to 10A
IP67 mated	IP67 mated	IP50 mated (Optional IP64 mated)
500+	100+	2000
Machined	Machined Solder	Machined
SINE	AIO / ATZ	Alden

Micro-B	M-Series	Multilayer Flex - Type III
		
Bayonet Coupling	Threaded Coupling, Snap-in	Yes
7/10/15	2-17	3-10
Metal	Metal, Thermoplastic	Polyimide
24 thru 20 AWG	26 thru 16 AWG	Yes
5A	0.5A to 28A	N/A
IP67 mated	IP68 unmated & mated, IP69K	N/A
500+	1000+	Dependant on termination system
Stamped & Formed Crimp	PCB, Solder, Crimp, IDC, Push-in, Screw	Copper
AIO / ATZ	ALTW	GASF

# INDUSTRIAL

Series	Neptune	NI Series
		
<b>Coupling System</b>	Threaded Coupling	
<b>Contact Positions</b>	2 to 5 Pole	1-24P (Pitch: 3.81, 5.08)
<b>Housing Material</b>	Hard anodized AL	Thermoplastic, PA4T
<b>AWG</b>	14 thru 4/0 AWG	26 thru 16 AWG
<b>Contact Current Ratings</b>	200A	10A (300V)
<b>IP Ratings</b>	IP67, IP68	
<b>Mating Cycles</b>	500+	
<b>Contact Types</b>	Machined Crimp, Set Screw	Push-In Spring
<b>Business Unit</b>	AOGT	Anytek

Series	NP Series	NR & NL Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-12P (Pitch: 10.0)	2*2-2*24P (Pitch: 3.5)
<b>Housing Material</b>	Thermoplastic	Thermoplastic, LCP
<b>AWG</b>	20 thru 8 AWG(SOL), 20 thru 4 AWG(STR)	24 thru 16 AWG
<b>Contact Current Ratings</b>	30 to 50A (300 - 600V)	5.5A (150 - 300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>		200+
<b>Contact Types</b>	Push-In Spring	Push-In Spring
<b>Business Unit</b>	Anytek	Anytek

NZ Series	OM RADSOK® on Cable & Busbar	OQ Series
		
1-12P (Pitch: 10.0, 15.0)	Bolt Down, Latch, Custom	2-24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)
Thermoplastic	Thermoplastic	Thermoplastic, LCP
16 thru 6 AWG	8 thru 300 MCM AWG	
55 to 65A (300 - 600V)	70A to 400A	4 to 20A (300V)
	IP2X, IP67, IPx9k, as Required	
	100+	200+
Cage Clamp	Machined, Stamped & Formed	
Anytek	ATPI	Anytek



Power	PowerBOSSlite™ M35	PowerBOSS™ M40 with CheckMate™
		
Threaded Coupling, Lock Bayonet	Metal Threaded	Metal Quick Connect
2-12	3 & 4	6
Thermoplastic	Overmolded	Overmolded
18 thru 10 AWG	10 AWG	8 & 10 AWG
8A to 50A	25A, 30A	25A, 32A
IP67 unmated & mated	IP67 mated	IP67 mated
1000+	500+	500+
Solder, Screw, Crimp	Machined	Machined
ALTW	SINE	SINE

# INDUSTRIAL

Series	PowerLok	PowerLok 4.0
		
<b>Coupling System</b>	Latch, Lever Lock	Latch, Lever Lock
<b>Contact Positions</b>	1, 2, and 3 Position	2, 3, and 4 Position
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	8 thru 300 MCM AWG	14 thru 8 AWG
<b>Contact Current Ratings</b>	up to 500A	up to 60A
<b>IP Ratings</b>	IP2X unmated, IP67 mated	IP2X unmated, IP67 mated
<b>Mating Cycles</b>	100+	100+
<b>Contact Types</b>	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined
<b>Business Unit</b>	ATPI	ATPI

Series	PowerLok G2	PT Series
		
<b>Coupling System</b>	Lever Lock	Bayonet Coupling
<b>Contact Positions</b>	1, 2, and 3 position Power w/ HVIL	1 to 61
<b>Housing Material</b>	Aluminum	Metal
<b>AWG</b>	2 thru 4/0 AWG	22 thru 12 AWG
<b>Contact Current Ratings</b>	up to 450A	7.5A to 23A
<b>IP Ratings</b>	IP67, IP6K9K (in mated condition)	IP67 mated
<b>Mating Cycles</b>	100 cycles	500
<b>Contact Types</b>	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined Solder, Machined Crimp
<b>Business Unit</b>	ATPI	AIO / ATZ

Pulse-Lok 1200	Pulse-Lok 500	Pulse-Lok 700
		
Auto-Coupling	Auto-Coupling	Auto-Coupling
19 to 78	1-14	1-27
Thermoplastic	Thermoplastic or Metal	Thermoplastic or Metal
26 AWG	26 thru 16 AWG	26 thru 12 AWG
1.5A	2.5A to 5A	2A to 16A
IP67 mated	IP67 mated	IP67 mated
5000	5000	5000
Machined	Machined	Machined
Alden	Alden	Alden

Pulse-Lok 900	pulseOne	R24
		
Auto-Coupling	Friction Fit	Clamp on
3-52	2-14	1 Pole
Thermoplastic	Thermoplastic	AL alloy with Polyester TGIC Powder
26 thru 12 AWG	28 AWG	4/0 AWG thru 777 MCM
1.5A to 16A	1.0A	1500A
IP67 mated	IP67 mated / IP64 Plug & Cable Mount Receptacle	IP65
5000	5000	2000
Machined	Machined	Machined Crimp, Busbar, RADSOK® Available
Alden	Alden	AOGT

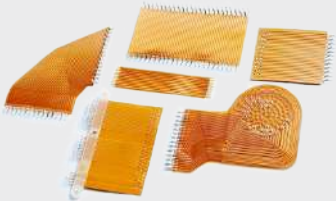


# INDUSTRIAL

Series	R49	RadLok
		
<b>Coupling System</b>	Clamp on	Pushbutton Latch
<b>Contact Positions</b>	1 Pole	1
<b>Housing Material</b>	AL alloy with Polyester TGIC Powder	Thermoplastic
<b>AWG</b>	4/0 AWG thru 777 MCM	8 thru 300 MCM AWG
<b>Contact Current Ratings</b>	1100A	70A to 500A
<b>IP Ratings</b>	IP65	IP2X / IP30 mated
<b>Mating Cycles</b>	500	100+
<b>Contact Types</b>	Machined Crimp, Busbar, RADSOK® Available	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post
<b>Business Unit</b>	AOGT	ATPI

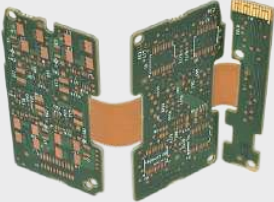

Series	RADSOK® GroundMate™	RF
		
<b>Coupling System</b>	Press-fit	Threaded Coupling
<b>Contact Positions</b>	1	
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	12 thru 8 AWG	
<b>Contact Current Ratings</b>	180A	
<b>IP Ratings</b>	Up to IP65 mated	IP68
<b>Mating Cycles</b>	1,000+	500+
<b>Contact Types</b>	Machined RADSOK®	Crimp, PCB
<b>Business Unit</b>	ATI	ALTW



Rigid-Flex - Type IV	RIG-Lok	RJ
		
Yes	Reverse Bayonet Coupling	Threaded Coupling, Lock Bayonet
3-16	1 Pole	8
Polyimide	Hard anodized AL	Thermoplastic
Yes	4/0 AWG thru 777 MCM	24 AWG
	800A	2A
N/A	IP67, IP68	IP67
Dependant on termination system	2000	750+
Copper	Crimp RADSOK®	PCB, Solder
GASF	AOGT	ALTW

Sculptured	Single Sided Flex - Type I	SSL
		
No	No	Threaded Coupling, Snap-In
1	1	2-6
Polyimide	Polyimide	Thermoplastic
Yes	Yes	22 thru 18 AWG
	Up to 100 amps	3A to 12A
N/A	N/A	IP68
Dependant on termination system	Dependant on termination system	SSL 1.1: 100 cycles SSL 1.2: 30 cycles SSL 1.3: 10 cycles SSL 2.1: 20 cycles SSL 2.3: 100 cycles
Copper	Copper	Crimp, Solder, SMT
GASF	GASF	ALTW

# INDUSTRIAL

Series	Standard Flex (Type I-IV)	SurLok Plus™
		
<b>Coupling System</b>	Connector termination	Compression with Secondary Lock
<b>Contact Positions</b>	Any as defined by design	1
<b>Housing Material</b>	Polyimide	Plastic
<b>AWG</b>	Various as defined by design	6 thru 3/0 AWG
<b>Contact Current Ratings</b>		up to 350A
<b>IP Ratings</b>	N/A	IP67 mated
<b>Mating Cycles</b>	Dependant on termination system	N/A
<b>Contact Types</b>	Copper on flex or usable with any variety of SMT or through hole connector systems.	RADSOK® Crimp, Busbar, or Threaded Post
<b>Business Unit</b>	GASF	AIO / ATZ

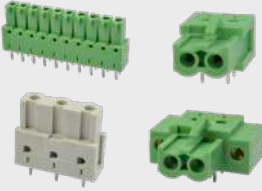

Series	TB & TC Series	Terminal Blocks
		
<b>Coupling System</b>		Screw, Screwless
<b>Contact Positions</b>	2-24P (Pitch: 5.0, 5.08)	2-24
<b>Housing Material</b>	Thermoplastic, PA46	Plastic
<b>AWG</b>	22 thru 14 AWG	30 thru 12 AWG
<b>Contact Current Ratings</b>	15 to 16A (250V)	2.5 to 250A
<b>IP Ratings</b>		
<b>Mating Cycles</b>		50+
<b>Contact Types</b>	Screw-Wire Protector Clamp	Stamped & Formed
<b>Business Unit</b>	Anytek	APCD SZ




TG Series	TJ Series	TR Series
		
2-24P (Pitch: 5.0, 5.08)	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	1-24P (Pitch: 3.81, 5.0, 7.5, 10.0)
Thermoplastic	Thermoplastic	Thermoplastic
24 thru 12 AWG	28 thru 12 AWG	26 thru 12 AWG
10 to 15A (300V)	10 to 20A (300V)	8 to 20A (300V)
	200+	
Rising Clamp	Rising Clamp	Screw-Wire Protector Clamp
Anytek	Anytek	Anytek




TS Series	TZ Series	UPC
		
2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 3.5, 5.0)	Lever Latch
Thermoplastic	LCP	2 to 3
28 thru 12 AWG	30 thru 14 AWG	Plastic
8 to 15A (300V)	6 to 10A (300V)	4 thru 300 AWG MCM
		up to 450A
		IP67 & IP69k mated
200+		100
Rising Clamp	Rising Clamp	RADSOK® Crimp or Busbar
Anytek	Anytek	AIO / ATZ

# INDUSTRIAL


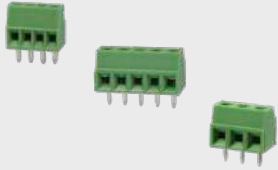
Series	UPT Series	USB
		
<b>Coupling System</b>	Bayonet Coupling	Threaded Coupling, Lock Bayonet, Snap-In
<b>Contact Positions</b>	7 to 48	4-24
<b>Housing Material</b>	Thermoplastic	Metal, Thermoplastic
<b>AWG</b>	22 thru 12 AWG	32 thru 23 AWG
<b>Contact Current Ratings</b>	7.5A to 23A	1A to 5A
<b>IP Ratings</b>	IP67 mated	IP67, IP68 unmated & mated
<b>Mating Cycles</b>	500	USB A/B: 1000 cycles USB C: 10000 cycles Micro USB: 10000 cycles
<b>Contact Types</b>	Machined Crimp, Stamped & Formed Crimp	PCB, Solder
<b>Business Unit</b>	AIO / ATZ	ALTW

Series	V7 Series	V8 Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 3.81, 5.08, 7.62)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>		30 thru 12 AWG
<b>Contact Current Ratings</b>	4 to 12A (300V)	8 to 20A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	200+
<b>Contact Types</b>		Rising Clamp
<b>Business Unit</b>	Anytek	Anytek

Value Added Flexible Printed Circuits	VENT	VersaBOSS™ VFD Cables
		
	Threaded Coupling, Snap-In	Metal Bayonet Locking
1-16		9
Polyimide	Stainless, Metal, Thermoplastic	Overmolded
		18 thru 12 AWG
Up to 100 amps		20A
N/A	IP68, IP69K	IP67 mated
Dependant on termination system		500+
Copper		Machined
GASF	ALTW	SINE

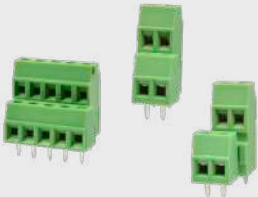
VI Series	VK Series	VL Series
		
2-24P (Pitch: 5.0, 5.08, 7.5)	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08)	2*2-24P (Pitch: 2.5, 3.5, 3.81, 5.0, 5.08)
Thermoplastic	Thermoplastic	Thermoplastic
28 thru 12 AWG		
16A (300V)	8 to 15A (300V)	4 to 20A (150 - 300V)
	200+	200+
Rising Clamp		
Anytek	Anytek	Anytek

# INDUSTRIAL

Series	VM Series	VN/YO Series
		
<b>Coupling System</b>		
<b>Contact Positions</b>	2-24P (Pitch: 3.5, 3.81, 5.0, 5.08, 7.5, 7.62)	2-24P (Pitch: 2.54, 3.5, 3.81)
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	28 thru 12 AWG	30 thru 16 AWG
<b>Contact Current Ratings</b>	10 to 12A (300V)	6 to 10A (300V)
<b>IP Ratings</b>		
<b>Mating Cycles</b>	200+	
<b>Contact Types</b>	Rising Clamp	Rising Clamp
<b>Business Unit</b>	Anytek	Anytek

Series	VP Series	XCEL POWER MATE
		
<b>Coupling System</b>		Bayonet
<b>Contact Positions</b>	2P/3P (Pitch: 10.16, 12.7)	2-5
<b>Housing Material</b>	Thermoplastic	Plastic
<b>AWG</b>	20 thru 6 AWG	14 thru 10 AWG
<b>Contact Current Ratings</b>	65A (300 - 600V)	10 to 46A
<b>IP Ratings</b>		IP67 mated
<b>Mating Cycles</b>		500+
<b>Contact Types</b>	Rising Clamp	Machined
<b>Business Unit</b>	Anytek	APCD SZ

X-Lok	YA Series	YK Series
		
Push-Lock		
2-18	3*2-3*24P (Pitch: 3.81)	2-30P (Pitch: 6.35, 7.62, 8.25, 9.5, 9.52, 10.0, 11.0, 11.4, 12.7, 15.0, 16.0, 21.0, 27.5)
Thermoplastic	Thermoplastic	Thermoplastic
24 thru 12 AWG	24 thru 16 AWG	22 thru 1/0 AWG
2A to 20A	10A (150V)	10 to 150A (150 - 600V)
IP68		
1000+		
Solder, Crimp, Screw, Push-in	Rising Clamp	Screw Termination
ALTW	Anytek	Anytek

YQ Series

2*2-2*24P (Pitch: 3.5, 3.81)
Thermoplastic
24 thru 16 AWG
10A (300V)
Rising Clamp
Anytek





# MEDICAL

Technology is enhancing and prolonging our lives like never before. Today's most innovative medical devices rely on Amphenol's interconnect products to deliver quality images, accurate diagnosis and effective therapies. With the broadest product lines and the most advanced technologies, Amphenol offers medical device Design Engineers the freedom to transform all that is possible.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

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### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



# MEDICAL

Series	Amphe-Lite	Amphe-Lite M3
		
<b>Coupling System</b>	ACME Threads	ACME Threads
<b>Contact Positions</b>	2 to 128	2 to 128
<b>Housing Material</b>	Composite	Metal
<b>AWG</b>	24 thru 10 AWG	24 thru 10 AWG
<b>Contact Current Ratings</b>	5A to 33A	5A to 33A
<b>IP Ratings</b>	IP67 / IP69K mated	IP67 / IP69K mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined Crimp	Machined Crimp
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ


Series	Cable Gland	Cable Glands Industrial
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>		
<b>Housing Material</b>	Thermoplastic	Nylon and Metal
<b>AWG</b>		
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	IP67, IP68	IP65, IP67 and IP68
<b>Mating Cycles</b>		
<b>Contact Types</b>		
<b>Business Unit</b>	ALTW	AIO / ATZ

Cable Joiner	Ceres	Double Sided Flex - Type II
		
Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet	Yes
4	2-31	2
Thermoplastic	Thermoplastic	Polyimide
16 thru 10 AWG	26 thru 14 AWG	Yes
10A to 30A	2A to 20A	N/A
IP67	IP67 unmated & mated	Dependant on termination system
	1000+	
Crimp	PCB, Solder, Crimp, Screw	PCB, Solder, Crimp
ALTW	ALTW	GASF

D-SUB	DVI	FICX
		
Threaded Coupling	Threaded Coupling	Threaded Coupling
9-78	19-29	2-5
Thermoplastic, Metal	Thermoplastic	Thermoplastic
26 thru 24 AWG	28 AWG	18 thru 12 AWG
2A to 5A	1.5A	8A to 20A
IP67, IP68	IP67, IP68	IP68
500+	100+	
PCB, Solder, Crimp	PCB	Screw
ALTW	ALTW	ALTW

# MEDICAL

Series	FLO & FLO+	HDMI
		
<b>Coupling System</b>	Push-Pull	Threaded Coupling, Latch
<b>Contact Positions</b>	2-32	19
<b>Housing Material</b>	PPS	Thermoplastic
<b>AWG</b>	26 thru 10 AWG	26 AWG
<b>Contact Current Ratings</b>	1.5A to 35A	0.5A
<b>IP Ratings</b>	IP50/IP68 (Mated)	IP67
<b>Mating Cycles</b>	5000+	500+
<b>Contact Types</b>	PCB, Solder	PCB
<b>Business Unit</b>	ALTW	ALTW

Series	Heater Flex	HPT Series
		
<b>Coupling System</b>	No	Bayonet Coupling
<b>Contact Positions</b>	1-2	1 to 61
<b>Housing Material</b>	Polyimide	Metal / Glass
<b>AWG</b>	No	22 thru 12 AWG
<b>Contact Current Ratings</b>		5A to 17A
<b>IP Ratings</b>	N/A	High Pressures up to 1.0×10 <sup>-6</sup> cc/sec. at 15 psi differential
<b>Mating Cycles</b>	Dependant on termination system	500+
<b>Contact Types</b>	Copper	Machined Solder
<b>Business Unit</b>	GASF	AIO / ATZ

HS-Lok	LED Indicator	MediMate
		
Push-Lock	Threaded Coupling	Push-Pull Latch
2-6		2 to 14
Thermoplastic	Thermoplastic, Metal	Thermoplastic
24 thru 20 AWG		28 thru 20 AWG
2A to 5A		2A to 10A
IP68 unmated & mated	IP67	IP50 mated(Optional IP64 mated)
2000+		2000
Solder	Solder	Machined
ALTW	ALTW	Alden

M-Series	Multilayer Flex - Type III	Power
		
Threaded Coupling, Snap-in	Yes	Threaded Coupling, Lock Bayonet
2-17	3-10	2-12
Metal, Thermoplastic	Polyimide	Thermoplastic
26 thru 16 AWG	Yes	18 thru 10 AWG
0.5A to 28A		8A to 50A
IP68 unmated & mated, IP69K	N/A	IP67 unmated & mated
1000+	Dependant on termination system	1000+
PCB, Solder, Crimp, IDC, Push-in, Screw	Copper	Solder, Screw, Crimp
ALTW	GASF	ALTW

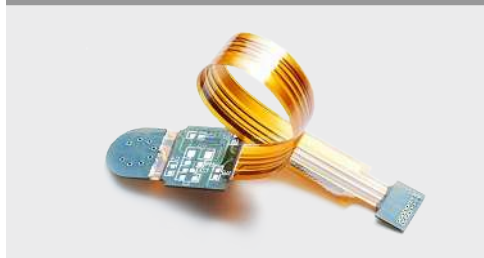


# MEDICAL

Series	Pulse-Lok 1200	Pulse-Lok 500
		
<b>Coupling System</b>	Auto-Coupling	Auto-Coupling
<b>Contact Positions</b>	19 to 78	1-14
<b>Housing Material</b>	Thermoplastic	Thermoplastic or Metal
<b>AWG</b>	26 AWG	26 thru 16 AWG
<b>Contact Current Ratings</b>	1.5A	2.5A to 5A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	5000	5000
<b>Contact Types</b>	Machined	Machined
<b>Business Unit</b>	Alden	Alden

Series	Pulse-Lok 700	Pulse-Lok 900
		
<b>Coupling System</b>	Auto-Coupling	Auto-Coupling
<b>Contact Positions</b>	1-27	3-52
<b>Housing Material</b>	Thermoplastic or Metal	Thermoplastic
<b>AWG</b>	26 thru 12 AWG	26 thru 12 AWG
<b>Contact Current Ratings</b>	2A to 16A	1.5A to 16A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	5000	5000
<b>Contact Types</b>	Machined	Machined
<b>Business Unit</b>	Alden	Alden

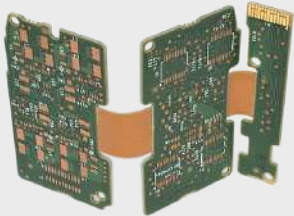




pulseOne	RBL	RF
		
Friction Fit	Push-Lock with Latch	Threaded Coupling
2-14	2-18	
Thermoplastic	Thermoplastic	Metal
28 AWG	20 thru 12 AWG	
1.0A	5A to 20A	
IP67 mated / IP64 Plug & Cable Mount Receptacle	IP67	IP68
5000	250+	500+
Machined	Solder, Crimp	Crimp, PCB
Alden	ALTW	ALTW

Rigid-Flex - Type IV	RJ	Sculptured
		
Yes	Threaded Coupling, Lock Bayonet	No
3-16	8	1
Polyimide	Thermoplastic	Polyimide
Yes	24 AWG	Yes
N/A	2A	N/A
Dependant on termination system	IP67	N/A
	750+	Dependant on termination system
Copper	PCB, Solder	Copper
GASF	ALTW	GASF

# MEDICAL

Series	Single Sided Flex - Type I	SSL
		
<b>Coupling System</b>	No	Threaded Coupling, Snap-In
<b>Contact Positions</b>	1	2-6
<b>Housing Material</b>	Polyimide	Thermoplastic
<b>AWG</b>	Yes	22 thru 18 AWG
<b>Contact Current Ratings</b>	Up to 100 amps	3A to 12A
<b>IP Ratings</b>	N/A	IP68
<b>Mating Cycles</b>	Dependant on termination system	SSL 1.1: 100 cycles SSL 1.2: 30 cycles SSL 1.3: 10 cycles SSL 2.1: 20 cycles SSL 2.3: 100 cycles
<b>Contact Types</b>	Copper	Crimp, Solder, SMT
<b>Business Unit</b>	GASF	ALTW

Series	Standard Flex (Type I-IV)	USB
		
<b>Coupling System</b>	Connector termination	Threaded Coupling, Lock Bayonet, Snap-In
<b>Contact Positions</b>	Any as defined by design	4-24
<b>Housing Material</b>	Polyimide	Metal, Thermoplastic
<b>AWG</b>	Various as defined by design	32 thru 23 AWG
<b>Contact Current Ratings</b>		1A to 5A
<b>IP Ratings</b>	N/A	IP67, IP68 unmated & mated
<b>Mating Cycles</b>	Dependant on termination system	USB A/B: 1000 cycles USB C: 10000 cycles Micro USB: 10000 cycles
<b>Contact Types</b>	Copper on flex or usable with any variety of SMT or through hole connector systems.	PCB, Solder
<b>Business Unit</b>	GASF	ALTW

Value Added Flexible Printed Circuits	X-Lok
	
	Push-Lock
1-16	2-18
Polyimide	Thermoplastic
	24 thru 12 AWG
Up to 100 amps	2A to 20A
N/A	IP68
Dependant on termination system	1000+
Copper	Solder, Crimp, Screw, Push-in
GASF	ALTW



# OIL AND GAS

Amphenol is a leading supplier of interconnect and value add solutions to the Oil and Gas/Geophysical/ Subsea market. With the increase in world demand for oil and gas by-products, the technology used in the exploration and production processes has grown in sophistication. With industry leading engineering, design and manufacturing expertise, Amphenol is the preferred supplier of harsh environment products for Offshore and Land Drilling equipment, FPSO Production, Downhole and Subsea Solutions. Amphenol has offered the exploration, drilling, and production industries a full range of product lines for more than 30 years. Our innovative designs offer solutions for power, signal, hybrid and high speed interconnect requirements.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

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### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



# OIL AND GAS

Series	5015	ACA-B and GT Series
		
<b>Coupling System</b>	Threaded Coupling	Reverse Bayonet Coupling
<b>Contact Positions</b>	1-85	1 to 85
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	16 thru 4/0 AWG	16 thru 4/0 AWG
<b>Contact Current Ratings</b>	13A to 250A	13A to 250A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	2000
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Machined Crimp, Solder Crimp, RADSOK® Available
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ



Series	Ampe-EX	ATEX Cable Glands
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>	2-79	
<b>Housing Material</b>	Hard anodized AL or SS316L	Brass and Stainless Steel
<b>AWG</b>	22 thru 10 AWG	
<b>Contact Current Ratings</b>	23A	
<b>IP Ratings</b>	IP67, IP68	IP66/68
<b>Mating Cycles</b>	500+	
<b>Contact Types</b>	Machined Crimp	
<b>Business Unit</b>	AOGT	AOGT

CMB Series	EX309	EX Hermetic Star-Line
		
Bayonet Coupling	Threaded Coupling	Threaded Coupling
1 to 61	3 to 5 Pole	1 to 68
Metal	Glass-fiber reinforced polyester (LSMH)-PA6 - Dissipative	SS316L
22 thru 12 AWG	17 thru 0 AWG	16 thru 1/0 AWG
7.5A, 23A	16A to 125A	3A to 40A
IP67 mated	IP67	IP67 , IP68 Up to 300Bar
500	1000	500+
Machined Solder	Screw Termination	Machined Solder, Crimp
AIO / ATZ	AOGT	AOGT

HDE EX CLASS 1 DIV 1	HPT Series	KTK
		
Threaded Coupling	Bayonet Coupling	Press-Fit
4-100	1 to 61	4 to 17
Hard anodized AL or SS316L	Metal / Glass	Glass-Filled Epoxy
16 thru 1/0 AWG	22 thru 12 AWG	22 to 20 AWG
3A to 150A	5A to 17A	Up to 5A
IP67 , IP68	High Pressures up to 1.0×10 <sup>-6</sup> cc/sec. at 15 psi differential	
500+	500+	
Machined Solder, Crimp, Set Screw, RADSOK® Available	Machined Solder	Solder
AOGT	AIO / ATZ	AOGT



# OIL AND GAS

Series	MVC Series	PT Series
		
<b>Coupling System</b>	Rapid-Couple® mating technology	Bayonet Coupling
<b>Contact Positions</b>	3-pole	4 to 55
<b>Housing Material</b>	Aluminum	Metal
<b>AWG</b>	4 AWG thru 500 MCM	22 thru 12 AWG
<b>Contact Current Ratings</b>	Up to 600A (600V to 15KV rated)	7.5A to 23A
<b>IP Ratings</b>		IP67 mated
<b>Mating Cycles</b>		500
<b>Contact Types</b>	RADSOK® (Screw and Solder Termination)	Machined Crimp, Stamped & Formed Crimp
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	R24	R49
		
<b>Coupling System</b>	Clamp on	Clamp on
<b>Contact Positions</b>	1 Pole	1 Pole
<b>Housing Material</b>	AL alloy with Polyester TGIC Powder	AL alloy with Polyester TGIC Powder
<b>AWG</b>	4/0 AWG thru 777 MCM	4/0 AWG thru 777 MCM
<b>Contact Current Ratings</b>	1500A	1100A
<b>IP Ratings</b>	IP65	IP65
<b>Mating Cycles</b>	2000	500
<b>Contact Types</b>	Machined Crimp, Busbar, RADSOK® Available	Machined Crimp, Busbar, RADSOK® Available
<b>Business Unit</b>	AOGT	AOGT

Rigid-Flex - Type IV	RIG-Lok	Star-Line
		
Yes	Reverse Bayonet Coupling	Threaded Coupling
3-16	1 Pole	1 - 143
Polyimide	Hard anodized AL	Hard anodized AL or SS316L
Yes	4/0 AWG thru 777 MCM	18 AWG thru 777 MCM
	800A	1500A
N/A	IP67, IP68	IP67, IP68
Dependant on termination system	2000	500+
Copper	Crimp RADSOK®	Machined Solder, Crimp, Set Screw, RADSOK® Available
GASF	AOGT	AOGT

Submariner 5500	ZEUS
	
Threaded Coupling	Secure Pin
2-23	2 to 3 Pole
SS316L	Nylon (with standard DIN-Rail mounting capabilities)
16 thru 10 AWG	11, 7, 5 AWG
10A to 18A	40A
IP68 (6.000M)	
500+	
Machined Solder	Crimp RADSOK® (5KV to 7KV rated)
AOGT	AOGT



# TRANSPORTATION

The Transportation market segment is one of the most demanding markets in the industry that is subject to environmental impacts. It includes Marine, Rail Mass Transit, Automotive Hybrid/Electric Vehicles, and Commercial Vehicles. Amphenol has a wide range of connectors specially made for this market, starting with small sealed signal connectors, and going up to complex high-voltage and high-current solutions. Amphenol is a leading specialist for this market and understands the demands, our expertise and experience is a great asset especially for customer-specific solutions.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

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USA | [www.amphenol-sine.com](http://www.amphenol-sine.com)

### **Amphenol Technical Products International (ATPI)**

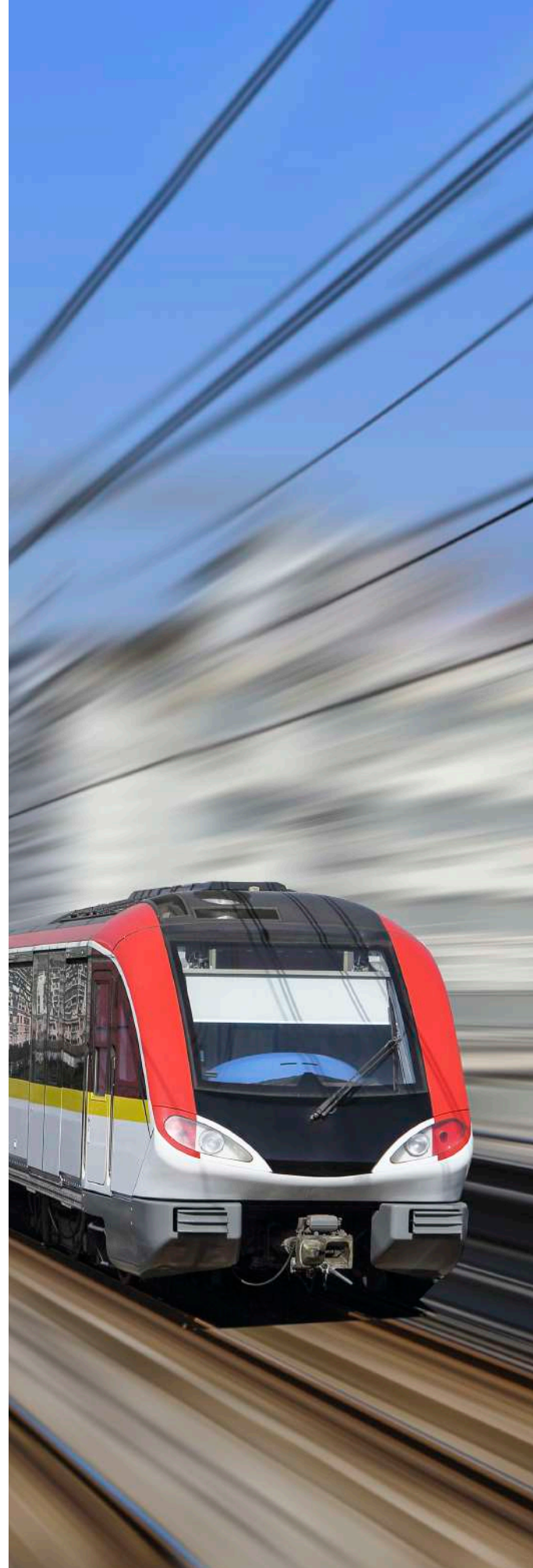
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### **Amphenol Sine Systems (SINE)**

USA & China | [www.amphenol-sine.com](http://www.amphenol-sine.com)



# TRANSPORTATION

Series	5015	ACA-B and GT Series
		
<b>Coupling System</b>	Threaded Coupling	Reverse Bayonet Coupling
<b>Contact Positions</b>	1-85	1 to 85
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	16 thru 4/0 AWG	16 thru 4/0 AWG
<b>Contact Current Ratings</b>	13A to 250A	13A to 250A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500	2000
<b>Contact Types</b>	Machined Crimp, Solder Crimp, RADSOK® Available	Machined Crimp, Solder Crimp, RADSOK® Available
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	AHVB	Amph-EX
		
<b>Coupling System</b>	Integral Latch	Threaded Coupling
<b>Contact Positions</b>	4	2-79
<b>Housing Material</b>	Plastic	Hard anodized AL or SS316L
<b>AWG</b>	18 thru 16 AWG	22 thru 10 AWG
<b>Contact Current Ratings</b>	5A	23A
<b>IP Ratings</b>	IP67 mated	IP67, IP68
<b>Mating Cycles</b>	up to 100k for the contacts	500+
<b>Contact Types</b>	Machined Crimp, PCB	Machined Crimp
<b>Business Unit</b>	AIO / ATZ	AOGT

Amphe-PRB Series	ASGP	ASRC-M
		
Reverse Bayonet Coupling	Latch	Screw
3-5	10	8-48
Thermoplastic	Metal	Metal
12 thru 8 AWG	16 thru 500 MCM AWG	26 thru 16 AWG
23A to 70A	1 to 500A	1 to 13A
IP67 mated	IP67 mated	IP67 mated
100	500+	500+
Machined Set Screw	Machined	Machined
AIO / ATZ	APCD SZ	APCD SZ

ASTE	ASTP	ATC Series
		
Latch	Latch	Integral Latch
4-8	34-50	3/5/9
Plastic	Metal	Thermoplastic
26 thru 16 AWG	26 thru 12 AWG	20 thru 14 AWG
1 to 13A	1 to 23A	13A
IP67 mated	IP67 mated	IP67 mated
500+	500+	100+
Machined	Machined	Machined Crimped, Stamped & Formed Crimped
APCD SZ	APCD SZ	AIO / ATZ

# TRANSPORTATION

Series	ATHD	BSM
		
<b>Coupling System</b>	Integral Latch	Floating
<b>Contact Positions</b>		1-24
<b>Housing Material</b>	Thermoplastic	Metal
<b>AWG</b>	16 AWG	17 thru 3/0 AWG
<b>Contact Current Ratings</b>	35A, 70A	5 to 300A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	100+	50+
<b>Contact Types</b>	Machined Crimped	Machined
<b>Business Unit</b>	AIO / ATZ	APCD SZ

Series	Cable Gland	Cable Glands Industrial
		
<b>Coupling System</b>	Threaded Coupling	Threaded Coupling
<b>Contact Positions</b>		
<b>Housing Material</b>	Thermoplastic	Nylon and Metal
<b>AWG</b>		
<b>Contact Current Ratings</b>		
<b>IP Ratings</b>	IP67, IP68	IP65, IP67 and IP68
<b>Mating Cycles</b>		
<b>Contact Types</b>		
<b>Business Unit</b>	ALTW	AIO / ATZ



Cable Joiner	Ceres	CMB Series
		
Threaded Coupling / Snap-In with Latch	Threaded Coupling, Lock Bayonet	Bayonet Coupling
4	2-31	1 to 61
Thermoplastic	Thermoplastic	Metal
16 thru 10 AWG	26 thru 14 AWG	22 thru 12 AWG
10A to 30A	2A to 20A	7.5A, 23A
IP67	IP67 unmated & mated	IP67 mated
	1000+	500
Crimp	PCB, Solder, Crimp, Screw	Machined Solder
ALTW	ALTW	AIO / ATZ

D-SUB	D-SUB with EMI Shell	DVI
		
Threaded Coupling	Screw	Threaded Coupling
9-78	9-15	19-29
Thermoplastic, Metal	Metal	Thermoplastic
26 thru 24 AWG	26 thru 18 AWG	28 AWG
2A to 5A	1 to 7.5A	1.5A
IP67, IP68	IP67 mated	IP67, IP68
500+	500+	100+
PCB, Solder, Crimp	Machined	PCB
ALTW	APCD SZ	ALTW

# TRANSPORTATION

Series	ecomate® RM High Amperage	EMP
		
<b>Coupling System</b>	Metal Bayonet Locking	Screw
<b>Contact Positions</b>	1-3	3-6
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	16 thru 3/0 AWG	4 thru 250 MCM AWG
<b>Contact Current Ratings</b>	86A to 300A	250 to 700A
<b>IP Ratings</b>	IP67 mated	IP67 mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined RADSOK®	Machined
<b>Business Unit</b>	SINE	APCD SZ

Series	EXCEL MATE CC COMBO	EXCEL MATE CC GB
		
<b>Coupling System</b>	N/A	N/A
<b>Contact Positions</b>	9	7, 9
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	10 thru 2/0 AWG	10 thru 2/0 AWG
<b>Contact Current Ratings</b>	32 to 200A	16 to 250A
<b>IP Ratings</b>	IP44	IP55
<b>Mating Cycles</b>	10000+	10000+
<b>Contact Types</b>	Machined	Machined
<b>Business Unit</b>	APCD SZ	APCD SZ

EXCEL MATE CC IEC	EXCEL MATE ECO HVSL600	EXCEL MATE ECO HVSL630
		
N/A	CPA	CPA
7	1	2
Plastic	Plastic	Plastic
14 thru 10 AWG	4 AWG	12 thru 10 AWG
16 to 32A	120A	23 to 40A
IP55	IP67, IP6K9K	IP67, IP6K9K
10000+	50+	50+
Machined	Stamped & Formed	Stamped & Formed
APCD SZ	APCD SZ	APCD SZ

EXCEL MATE MAX	EXCEL MATE METAL HVSL600	EXCEL MATE METAL HVSL800
		
Lever	Lever	Lever
2	2, 3	2
Plastic	Metal	Metal
2/0 thru 3/0 AWG	6 thru 4 AWG	4 thru 1/0 AWG
250 to 350A	100 to 120A	120 to 180A
IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K
50+	50+	50+
Machined	Machined	Machined
APCD SZ	APCD SZ	APCD SZ

# TRANSPORTATION

Series	EXCEL MATE MONO EX	EXCEL MATE MONO HVBI
		
<b>Coupling System</b>	Push-Pull	Push-Pull
<b>Contact Positions</b>	2, 3	1
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	14 thru 10 AWG	6 thru 2/0 AWG
<b>Contact Current Ratings</b>	23 to 42A	120 to 250A
<b>IP Ratings</b>	IP67, IP6K9K	IP67, IP6K9K
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Stamped & Formed	Machined
<b>Business Unit</b>	APCD SZ	APCD SZ


Series	EXCEL MATE MONO HVG	EXCEL MATE MSD
		
<b>Coupling System</b>	Push-Pull	N/A
<b>Contact Positions</b>	3-6	2
<b>Housing Material</b>	Metal	Plastic
<b>AWG</b>	14 thru 10 AWG	Busbar
<b>Contact Current Ratings</b>	23 to 50A	260A
<b>IP Ratings</b>	IP67, IP6K9K	IP67 mated
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Machined	Machined
<b>Business Unit</b>	APCD SZ	APCD SZ




EXCEL MATE PLUS	EXCEL MATE S	FICX
		
Lever	Lever	Threaded Coupling
1-3	2, 3	2-5
Plastic	Plastic	Thermoplastic
4 thru 2/0 AWG	4 thru 1/0 AWG	18 thru 12 AWG
120 to 250A	120 to 180A	8A to 20A
IP67, IP6K9K	IP67, IP6K9K	IP68
50+	50+	
Machined	Machined	Screw
APCD SZ	APCD SZ	ALTW

FLO & FLO+	HC Series, Power and Signal	HDMI
		
Push-Pull	Lever Lock, Reverse Flange Mount	Threaded Coupling, Latch
2-32	26 Signal, 6 Power	19
PPS	Thermoplastic	Thermoplastic
26 thru 10 AWG	Signal: 22 thru 20 AWG, Power: 18 thru 14 AWG	26 AWG
1.5A to 35A	Signal: 5A, Power: 13A	0.5A
IP50, IP68 mated	IP67, IP6K9K (in mated condition)	IP67
5000+	100 cycles	500+
PCB, Solder	Pin & Socket, Stamped and Formed Crimp	PCB
ALTW	ATPI	ALTW

# TRANSPORTATION

Series	Heavy  Mate	Heavymate®
		
<b>Coupling System</b>	Lever	Quick Latching
<b>Contact Positions</b>	1-108	6-140
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	26 thru 500 MCM AWG	28 thru 3/0 AWG
<b>Contact Current Ratings</b>	5 to 700A	10A to 300A
<b>IP Ratings</b>	IP65, IP68	IP65, 67, 68, 69K mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined	Crimp (Turned/Stamped & Formed), Screw, Push-In, Cage Clamp
<b>Business Unit</b>	APCD SZ	ATI

Series	HPT Series	HS-Lok
		
<b>Coupling System</b>	Bayonet Coupling	Push-Lock
<b>Contact Positions</b>	1 to 61	2-6
<b>Housing Material</b>	Metal / Glass	Thermoplastic
<b>AWG</b>	22 thru 12 AWG	24 thru 20 AWG
<b>Contact Current Ratings</b>	5A to 17A	2A to 5A
<b>IP Ratings</b>	High Pressures up to 1.0×10 <sup>-6</sup> cc/sec. at 15 psi differential	IP68 unmated & mated
<b>Mating Cycles</b>	500+	2000+
<b>Contact Types</b>	Machined Solder	Solder
<b>Business Unit</b>	AIO / ATZ	ALTW

HVPC	HVPT	HVPTB
		
Screw	Screw	Screw
1-2	1-3	1-3
Metal	Plastic	Plastic
2 thru 1/0 AWG	4 thru 2/0 AWG	4 thru 2/0 AWG
150 to 180A	120 to 250A	120 to 250A
IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K
50+		
Machined		
APCD SZ	APCD SZ	APCD SZ

HVPTB 2A	HVSL280	HVSL282
		
Screw	CPA	CPA
2	3	2
Plastic	Plastic	Plastic
14 thru 10 AWG	14 thru 12 AWG	14 thru 12 AWG
23 to 50A	16 to 23A	16 to 23A
IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K
	50+	50+
	Stamped & Formed	Stamped & Formed
APCD SZ	APCD SZ	APCD SZ



# TRANSPORTATION


Series	HVSL362	HVSL364
		
<b>Coupling System</b>	CPA	CPA
<b>Contact Positions</b>	2	4
<b>Housing Material</b>	Plastic	Plastic
<b>AWG</b>	10 thru 8 AWG	14 thru 10 AWG
<b>Contact Current Ratings</b>	60A	46A
<b>IP Ratings</b>	IP67, IP6K9K	IP67, IP6K9K
<b>Mating Cycles</b>	50+	50+
<b>Contact Types</b>	Stamped & Formed	Stamped & Formed
<b>Business Unit</b>	APCD SZ	APCD SZ

Series	HVSL633	Jumper
		
<b>Coupling System</b>	CPA	Latch
<b>Contact Positions</b>	3	204
<b>Housing Material</b>	Plastic	Metal
<b>AWG</b>	12 thru 10 AWG	22 thru 1/0 AWG
<b>Contact Current Ratings</b>	23 to 40A	1 to 100A
<b>IP Ratings</b>	IP67, IP6K9K	IP67 mated
<b>Mating Cycles</b>	50+	500+
<b>Contact Types</b>	Stamped & Formed	Machined
<b>Business Unit</b>	APCD SZ	APCD SZ

LED Indicator	LPT Series	M12 Snap On & Screw
		
Threaded Coupling	Bayonet Coupling	Snap on, screw
	4 to 55	4,8
Thermoplastic, Metal	Metal	Metal
	22 thru 12 AWG	28 thru 18 AWG
	7.5A to 23A	0.5 to 4 A
IP67	IP67 mated	IP67 (in mated condition)
	500	100 cycles
Solder	Machined Crimp, Stamped & Formed Crimp	Snap on, screw
ALTW	AIO / ATZ	APCD SZ

Max-M12	M-Series	NMEA 2000
		
Threaded Coupling	Threaded Coupling, Snap-in	Threaded Coupling
3/4/5/8/12	2-17	4-5
Metal	Metal, Thermoplastic	Thermoplastic
24 thru 16 AWG	26 thru 16 AWG	24 thru 15 AWG
4A max	0.5A to 28A	4A to 8A
IP67 mated	IP68 unmated & mated, IP69K	IP67
100+	1000+	1000+
Machined Solder	PCB, Solder, Crimp, IDC, Push-in, Screw	PCB, Solder, Screw
AIO / ATZ	ALTW	ALTW

# TRANSPORTATION

Series	OM RADSOK® on Cable & Busbar	Power
		
<b>Coupling System</b>	Bolt Down, Latch, Custom	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>	1 - 3, Custom	2-12
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	8 thru 300 MCM AWG	18 thru 10 AWG
<b>Contact Current Ratings</b>	70A to 400A	8A to 50A
<b>IP Ratings</b>	IP2X, IP67, IPx9k, as Required	IP67 unmated & mated
<b>Mating Cycles</b>	100+	1000+
<b>Contact Types</b>	Machined, Stamped & Formed	Solder, Screw, Crimp
<b>Business Unit</b>	ATPI	ALTW

Series	PowerLok	PowerLok 4.0
		
<b>Coupling System</b>	Latch, Lever Lock	Latch, Lever Lock
<b>Contact Positions</b>	1, 2, and 3 Position	2, 3, and 4 Position
<b>Housing Material</b>	Metal	Metal
<b>AWG</b>	8 thru 300 MCM AWG	14 thru 8 AWG
<b>Contact Current Ratings</b>	up to 500A	up to 60A
<b>IP Ratings</b>	IP2X unmated, IP67 mated	IP2X unmated, IP67 mated
<b>Mating Cycles</b>	100+	100+
<b>Contact Types</b>	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined
<b>Business Unit</b>	ATPI	ATPI

PowerLok G2	PT Series	RadLok
		
Lever Lock	Bayonet Coupling	Pushbutton Latch
1, 2, and 3 position Power w/ HVIL	1 to 61	1
Aluminum	Metal	Thermoplastic
2 thru 4/0 AWG	22 thru 12 AWG	8 thru 300 MCM AWG
up to 450A	7.5A to 23A	70A to 500A
IP67, IP6K9K (in mated condition)	IP67 mated	IP2X / IP30 mated
100 cycles	500	100+
RADSOK®, Crimp Barrel, Machined Lug, Threaded Post	Machined Solder, Machined Crimp	RADSOK®, Crimp Barrel, Machined Lug, Threaded Post
ATPI	AIO / ATZ	ATPI


RBL	RF	Rigid-Flex - Type IV
		
Push-Lock with Latch	Threaded Coupling	Yes
2-18		3-16
Thermoplastic	Metal	Polyimide
20 thru 12 AWG		Yes
5A to 20A		N/A
IP67	IP68	
250+	500+	Dependant on termination system
Solder, Crimp	Crimp, PCB	Copper
ALTW	ALTW	GASF

# TRANSPORTATION

Series	RJ	SSL
		
<b>Coupling System</b>	Threaded Coupling, Lock Bayonet	Threaded Coupling, Snap-In
<b>Contact Positions</b>	8	2-6
<b>Housing Material</b>	Thermoplastic	Thermoplastic
<b>AWG</b>	24 AWG	22 thru 18 AWG
<b>Contact Current Ratings</b>	2A	3A to 12A
<b>IP Ratings</b>	IP67	IP68
<b>Mating Cycles</b>	750+	SSL 1.1: 100 cycles SSL 1.2: 30 cycles SSL 1.3: 10 cycles SSL 2.1: 20 cycles SSL 2.3: 100 cycles
<b>Contact Types</b>	PCB, Solder	Crimp, Solder, SMT
<b>Business Unit</b>	ALTW	ALTW

Series	Star-Line	Terminal Blocks
		
<b>Coupling System</b>	Threaded Coupling	Screw, Fast On, Spring
<b>Contact Positions</b>	1 - 143	1-6
<b>Housing Material</b>	Hard anodized AL or SS316L	Plastic
<b>AWG</b>	18 AWG thru 777 MCM	20 thru 350 MCM AWG
<b>Contact Current Ratings</b>	1500A	5 to 320A
<b>IP Ratings</b>	IP67, IP68	IP67 mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined Solder, Crimp, Set Screw, RADSOK® Available	Machined
<b>Business Unit</b>	AOGT	APCD SZ

Tru-Loc®	USB	VENT
		
Integral Latch	Threaded Coupling, Lock Bayonet, Snap-In	Threaded Coupling, Snap-In
24/6	4-24	
Thermoplastic	Metal, Thermoplastic	Stainless, Metal, Thermoplastic
16 AWG	32 thru 23 AWG	
13A	1A to 5A	
IP67 mated	IP67, IP68 unmated & mated	IP68, IP69K
100+	USB A/B: 1000 cycles USB C: 10000 cycles Micro USB: 10000 cycles	
Stamped & Formed Crimp (RADSOK®)	PCB, Solder	
AIO / ATZ	ALTW	ALTW

X-Lok

Push-Lock
2-18
Thermoplastic
24 thru 12 AWG
2A to 20A
IP68
1000+
Solder, Crimp, Screw, Push-in
ALTW





# WIRELESS / BROADBAND / DATA CENTER

In addition to leading expertise in applications such as cellular base stations, cell site antenna systems, combiners, filters and amplifiers, core network controllers, mobile switches, radio links and wireless routers, Amphenol works with service providers around the world to offer an array of antennas and installation-related site solution interconnect products for the wireless market.

Amphenol leads the way in broadband communications. Offering a wide range of coaxial cable, interconnect and passive products to service the broadband market, from customer premises cables and interconnect devices to distribution cable and fiber optic components. Amphenol also has diverse interconnect products deployed on a wide range of broadband equipment.

Amphenol's range of offerings in connectors, cable assemblies, power distribution assemblies and busbars, fiber optics and high-performance cable span applications in servers, storage systems, optical and copper networking equipment, cloud computing and data centers, transmission and internet appliances. With our industry-leading high-speed, power and fiber optic technologies, together with superior simulation and testing capability and cost effectiveness, Amphenol is a market leader in interconnect development for the information technology and datacom market. Amphenol provides customers with products that enable performance at the leading edge of next generation, high-speed power and fiber optics technology.

## GLOBAL OPERATIONS

### **Amphenol Industrial Operations (AIO / ATZ)**

USA | [www.amphenol-industrial.com](http://www.amphenol-industrial.com)

### **Amphenol LTW Technology Co. Ltd. (ALTW)**

Taiwan | [www.amphenolltw.com](http://www.amphenolltw.com)

### **Amphenol PCD Shenzhen (APCD SZ)**

China | [www.amphenolpcd.com.cn](http://www.amphenolpcd.com.cn)

### **Guangzhou Amphenol Sincere Flex Circuits Co. Ltd (GASF)**

China | [www.amphenol-gasf.com](http://www.amphenol-gasf.com)



# WIRELESS / BROADBAND / DATA CENTER

Series	Amphe-Lite	Amphe-Lite M3
		
<b>Coupling System</b>	ACME Threads	ACME Threads
<b>Contact Positions</b>	2 to 128	2 to 128
<b>Housing Material</b>	Composite	Metal
<b>AWG</b>	24 thru 10 AWG	24 thru 10 AWG
<b>Contact Current Ratings</b>	5A to 33A	5A to 33A
<b>IP Ratings</b>	IP67 / IP69K mated	IP67 / IP69K mated
<b>Mating Cycles</b>	500+	500+
<b>Contact Types</b>	Machined Crimp	Machined Crimp
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ

Series	Amphe-PD™	Amphe-PRB Series
		
<b>Coupling System</b>	Integral Latch	Reverse Bayonet Coupling
<b>Contact Positions</b>	2	3-5
<b>Housing Material</b>	Plastic	Thermoplastic
<b>AWG</b>	12 thru 4 AWG	12 thru 8 AWG
<b>Contact Current Ratings</b>	up to 120A	23A to 70A
<b>IP Ratings</b>	N/A	IP67 mated
<b>Mating Cycles</b>	N/A	100
<b>Contact Types</b>	RADSOK® Crimp, PCB or Busbar	Machined Set Screw
<b>Business Unit</b>	AIO / ATZ	AIO / ATZ



ASRC-M	ASTP	ASTE
		
Screw	Latch	Latch
8-48	34-50	4-8
Metal	Metal	Plastic
26 thru 16 AWG	26 thru 12 AWG	26 thru 16 AWG
1 to 13A	1 to 23A	1 to 13A
IP67 mated	IP67 mated	IP67 mated
500+	500+	500+
Machined	Machined	Machined
APCD SZ	APCD SZ	APCD SZ

Cable Gland	Cable Glands Industrial	Cable Joiner
		
Threaded Coupling	Threaded Coupling	Threaded Coupling / Snap-In with Latch
		4
Thermoplastic	Nylon and Metal	Thermoplastic
		16 thru 10 AWG
		10A to 30A
IP67, IP68	IP65, IP67 and IP68	IP67
		Crimp
ALTW	AIO / ATZ	ALTW

# WIRELESS / BROADBAND / DATA CENTER

Series	Ceres	D-SUB
		
<b>Coupling System</b>	Threaded Coupling, Lock Bayonet	Threaded Coupling
<b>Contact Positions</b>	2-31	9-78
<b>Housing Material</b>	Thermoplastic	Thermoplastic, Metal
<b>AWG</b>	26 thru 14 AWG	26 thru 24 AWG
<b>Contact Current Ratings</b>	2A to 20A	2A to 5A
<b>IP Ratings</b>	IP67 unmated & mated	IP67, IP68
<b>Mating Cycles</b>	1000+	500+
<b>Contact Types</b>	PCB, Solder, Crimp, Screw	PCB, Solder, Crimp
<b>Business Unit</b>	ALTW	ALTW

Series	D-SUB with EMI Shell	DVI
		
<b>Coupling System</b>	Screw	Threaded Coupling
<b>Contact Positions</b>	9-15	19-29
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	26 thru 18 AWG	28 AWG
<b>Contact Current Ratings</b>	1 to 7.5A	1.5A
<b>IP Ratings</b>	IP67 mated	IP67, IP68
<b>Mating Cycles</b>	500+	100+
<b>Contact Types</b>	Machined	PCB
<b>Business Unit</b>	APCD SZ	ALTW

Fiber	FICX	FLO & FLO+
		
Lock Bayonet	Threaded Coupling	Push-Pull
	2-5	2-32
Thermoplastic	Thermoplastic	PPS
	18 thru 12 AWG	26 thru 10 AWG
	8A to 20A	1.5A to 35A
IP67	IP68	IP50, IP68 mated
		5000+
	Screw	PCB, Solder
ALTW	ALTW	ALTW

HDMI	High Speed Flex	HS-Lok
		
Threaded Coupling, Latch	Connector termination	Push-Lock
19	Any as defined by design	2-6
Thermoplastic	Polyimide	Thermoplastic
26 AWG	Various as defined by design	24 thru 20 AWG
0.5A		2A to 5A
IP67	N/A	IP68 unmated & mated
500+	Dependant on termination system	2000+
PCB	Copper on flex or usable with any variety of SMT or through hole connector systems.	Solder
ALTW	GASF	ALTW

# WIRELESS / BROADBAND / DATA CENTER

Series	M-Series	Micro-B
		
<b>Coupling System</b>	Threaded Coupling, Snap-in	Bayonet Coupling
<b>Contact Positions</b>	2-17	7/10/15
<b>Housing Material</b>	Metal, Thermoplastic	Metal
<b>AWG</b>	26 thru 16 AWG	24 thru 20 AWG
<b>Contact Current Ratings</b>	0.5A to 28A	5A
<b>IP Ratings</b>	IP68 unmated & mated, IP69K	IP67 mated
<b>Mating Cycles</b>	1000+	500+
<b>Contact Types</b>	PCB, Solder, Crimp, IDC, Push-in, Screw	Stamped & Formed Crimp
<b>Business Unit</b>	ALTW	AIO / ATZ

Series	O-BTS Series	Power
		
<b>Coupling System</b>	Bayonet Coupling	Threaded Coupling, Lock Bayonet
<b>Contact Positions</b>	2* size12	2-12
<b>Housing Material</b>	Metal	Thermoplastic
<b>AWG</b>	18 thru 12 AWG	18 thru 10 AWG
<b>Contact Current Ratings</b>	26A, 55A	8A to 50A
<b>IP Ratings</b>	IP67 mated	IP67 unmated & mated
<b>Mating Cycles</b>	100+	1000+
<b>Contact Types</b>	Machined Crimp, Machined Set Screw	Solder, Screw, Crimp
<b>Business Unit</b>	AIO / ATZ	ALTW



RADSOK® PTB Connectors	RBL	RF
		
N/A	Push-Lock with Latch	Threaded Coupling
1	2-18	
Metal	Thermoplastic	Metal
N/A	20 thru 12 AWG	
35A-1200A	5A to 20A	
N/A	IP67	IP68
100 cycles	250+	500+
Machined RADSOK®	Solder, Crimp	Crimp, PCB
AIO / ATZ	ALTW	ALTW

RJ	SSL	Standard Flex (Type I-IV)
		
Threaded Coupling, Lock Bayonet	Threaded Coupling, Snap-In	Connector termination
8	2-6	Any as defined by design
Thermoplastic	Thermoplastic	Polyimide
24 AWG	22 thru 18 AWG	Various as defined by design
2A	3A to 12A	
IP67	IP68	N/A
750+	SSL 1.1: 100 cycles SSL 1.2: 30 cycles SSL 1.3: 10 cycles SSL 2.1: 20 cycles SSL 2.3: 100 cycles	Dependant on termination system
PCB, Solder	Crimp, Solder, SMT	Copper on flex or usable with any variety of SMT or through hole connector systems.
ALTW	ALTW	GASF



# WIRELESS / BROADBAND / DATA CENTER

Series	Terminal Blocks	USB
		
<b>Coupling System</b>	Screw, Fast On, Spring	Threaded Coupling, Lock Bayonet, Snap-In
<b>Contact Positions</b>	1-6	4-24
<b>Housing Material</b>	Plastic	Metal, Thermoplastic
<b>AWG</b>	20 thru 350 MCM AWG	32 thru 23 AWG
<b>Contact Current Ratings</b>	5 to 320A	1A to 5A
<b>IP Ratings</b>	IP67 mated	IP67, IP68 unmated & mated
<b>Mating Cycles</b>	500+	USB A/B: 1000 cycles USB C: 10000 cycles Micro USB: 10000 cycles
<b>Contact Types</b>	Machined	PCB, Solder
<b>Business Unit</b>	APCD SZ	ALTW

Series	VENT	XCEL POWER MATE
		
<b>Coupling System</b>	Threaded Coupling, Snap-In	Bayonet
<b>Contact Positions</b>		2-5
<b>Housing Material</b>	Stainless, Metal, Thermoplastic	Plastic
<b>AWG</b>		14 thru 10 AWG
<b>Contact Current Ratings</b>		10 to 46A
<b>IP Ratings</b>	IP68, IP69K	IP67 mated
<b>Mating Cycles</b>		500+
<b>Contact Types</b>		Machined
<b>Business Unit</b>	ALTW	APCD SZ

X-Lok



Push-Lock

2-18

Thermoplastic

24 thru 12 AWG

2A to 20A

IP68

1000+

Solder, Crimp, Screw, Push-in

ALTW