

Amphenol



UPC Series

www.amphenol-industrial.com



ABOUT US

Amphenol Industrial Operations

Amphenol Industrial Operation (AIO), a division of the Amphenol Corporation, is a prominent manufacturer of cylindrical connectors known around the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Manufacturing connectors since 1932, we take pride that Amphenol Industrial Operations is the undisputed leader in interconnect systems for harsh environment applications. Innovations like our RADSOK® contact technology can provide roughly 50% more current through the same size pin. Connectors utilizing the RADSOK® technology will outperform similar products in the market hands down.

The Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet. This complex houses over 10000+ employees incorporating state-of-the-art manufacturing technologies. The facility is both ISO9001 certified and qualified to MIL-STD-790 requirements.



Sidney Factory

Amphenol is one of the largest manufacturers of interconnect products in the world

The company designs, manufactures and markets electrical, electronic and fiber optic connectors, coaxial and flat-ribbon cable, and interconnect systems. Amphenol has long been the accepted leader in providing quality connectors and interconnect systems to the Industrial, Military and Telecommunication markets.



Zhuhai Factory 1

Amphenol Technology (Zhuhai) Co., Ltd.

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets, included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage, Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 28,470m² and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications.

With industry leading engineering, design, and manufacturing expertise, Amphenol Technology (Zhuhai) Co., Ltd. has earned more than 30 utility patents on its innovative interconnects. Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.



Zhuhai Factory 2

UPC Connector

UPC (Ultimate Power Connector) is a plastic power connector series designed to be used in the hybrid electric vehicle and heavy equipment markets. The 2-pole and 3-pole connectors incorporate patented RADSOK® technology which provides higher amperage, lower T-rise and voltage drop, and less resistance. RADSOK's twisted grid configuration allows for up to 50% more current to pass through the same size pin, while providing increased reliability and cycle durability, as well as lower mating forces.

The compact plastic shell structure is light weight with a small footprint. There is a 9.1mm and 14.0mm version which can carry currents up to 200A to 450A, field installable and repairable. These attributes make the UPC robust and the interconnect of choice for the EV and Hybrid markets.



Markets and Applications

- Hybrid/ Electric Vehicle
- Heavy Equipment
- Battery Pack
- PDU
- MCU



UPC 9.1mm

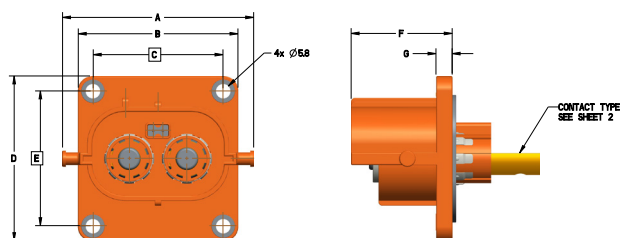


- Plastic shell, light weight
- Compact design for space considerations with EVs
- Wide amperage range up to 200A (25/35/50mm²)
- Low mating/un-mating force
- Durability: 100min. cycles
- Touch-proof: IP 2XB (IEC 60529)
- Flammability: UL 94V-0
- HVIL (High Voltage Interlock Loop)
- EMI Shielding
- IP67 & IP69k when mated
- RoHS Compliant

Technical Data

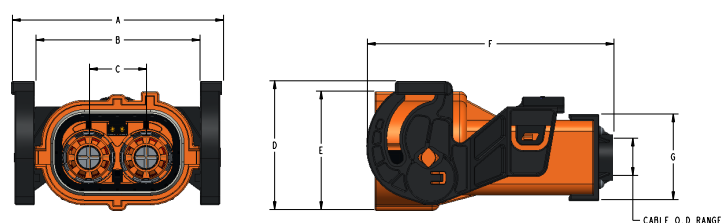
Current Rating	200A (50mm ²) 150A (35mm ²) 120A (25mm ²)	Test Voltage (sea level)	3000 VAC RMS	Ingress Protection	IP67 & IP69k (Mated)	Touch-Proof	YES
Contact Size	9.1mm	Operating Temperature	-40 °C to 125 °C	EMI	360°	HVIL	Integrated
Operating Voltage	1000V DC / 750V AC	Durability	100 (Min) Mating Cycles	Flammability	UL94 V-0	Recommended Torque	1. Receptacle assembly to panel M5:6±10% 2. Busbar M5:6±10% M6:8±10%

2-Pole Receptacle



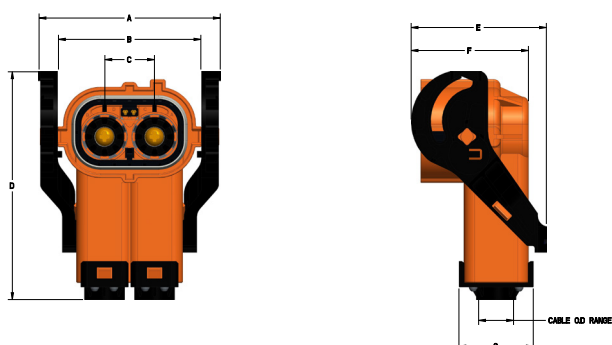
Size	2-Pole Receptacle Dimensions						
	A	B	C	D	E	F	G
9.1mm	76.6	64	52	66	54	40.5	6.5

2-Pole Plug



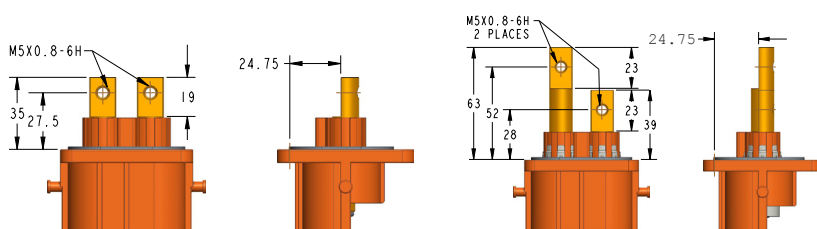
Size	2-Pole Plug Dimensions							
	A	B	C	D	E	F	G	Cable O.D. Range
9.1mm	85.1	66	23	51.9	47.8	99.4	34.5	50mm²: Ø15~17.5 35mm²: Ø14~15 25mm²: Ø13.2~13.8

90° Angular 2-Pole Plug



Size	90° Angular 2-Pole Plug Dimensions							
	A	B	C	D	E	F	G	Cable O.D. Range
9.1mm	84	66	23	106	63	54	34.5	50mm²: Ø15~ 17.5 35mm²: Ø14~ 15 25mm²: Ø13.2~ 13.8

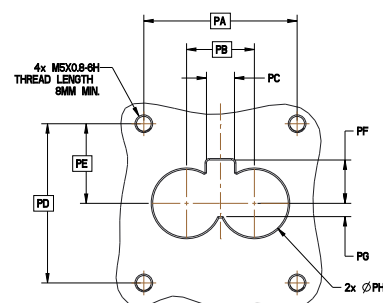
2-Pole Receptacle Termination



Busbar Type 1

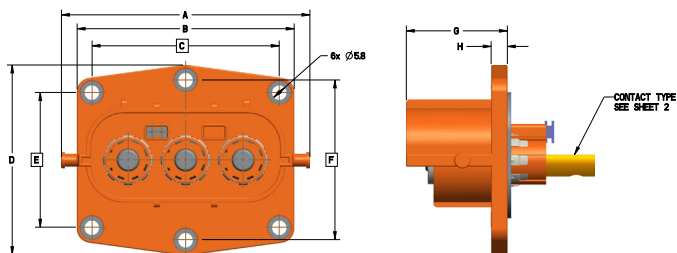
Busbar Type 2

Size	9.1mm
PA	52
PB	23
PC	9.5
PD	54
PE	27
PF	14.7
PG	4.5
PH	23



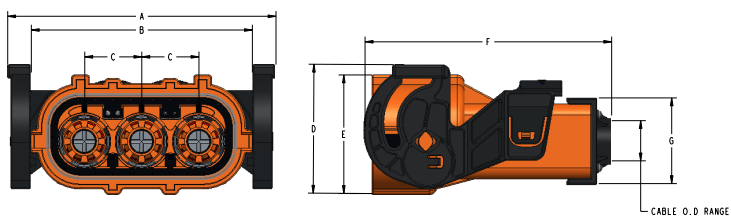
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3-Pole Receptacle



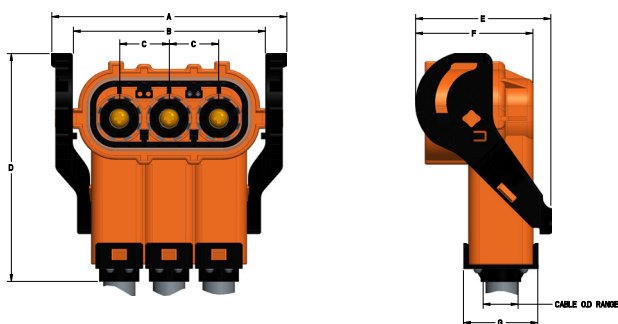
Size	3-Pole Receptacle Dimensions							
	A	B	C	D	E	F	G	H
9.1mm	99.6	87	75	76	54	64	40.5	6.5

3-Pole Plug



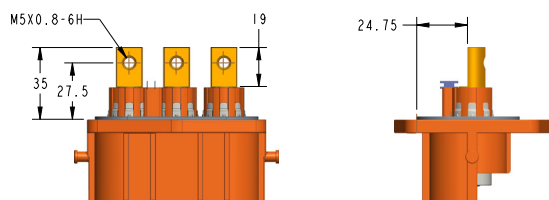
Size	3-Pole Plug Dimensions							
	A	B	C	D	E	F	G	Cable O.D. Range
9.1mm	108.1	89	23	51.9	47.8	99.4	34.5	50mm²: Ø15~17.5 35mm²: Ø14~15 25mm²: Ø13.2~13.8

90° Angular 3-Pole Plug



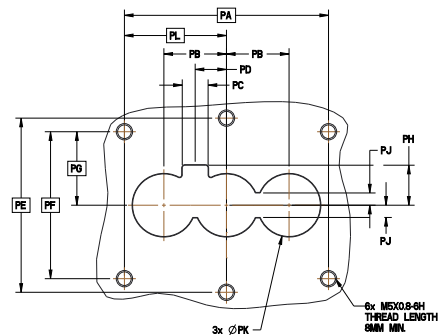
Size	90° Angular 3-Pole Plug Dimensions							
	A	B	C	D	E	F	G	Cable O.D. Range
9.1mm	107	89	23	106	63	54	34.5	50mm²: Ø15~17.5 35mm²: Ø14~15 25mm²: Ø13.2~13.8

3-Pole Receptacle Termination



Busbar Type 1

Size	9.1mm
PA	75
PB	23
PC	9.5
PD	11.5
PE	64
PF	54
PG	27
PH	14.7
PJ	4.5
PL	37.5
PK	23



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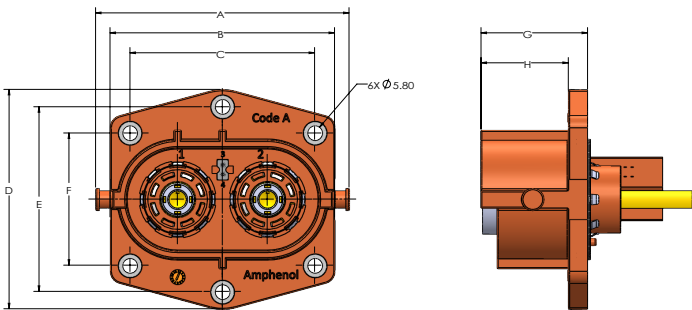
UPC 14mm



- High current, 450A Max rated current
- EMI Shielding
- HVIL (High Voltage Interlock Loop)
- Secondary Lock design
- R4 RADSOK® Technology
- IP67 (when mated)
- Quick lock and push to release design
- Keyway design to prevent incorrect mating
- Compact Robust Design
- UL94 V-0 (self extinguishing)
- Wide operating temperature range (-40°C to 125°C)

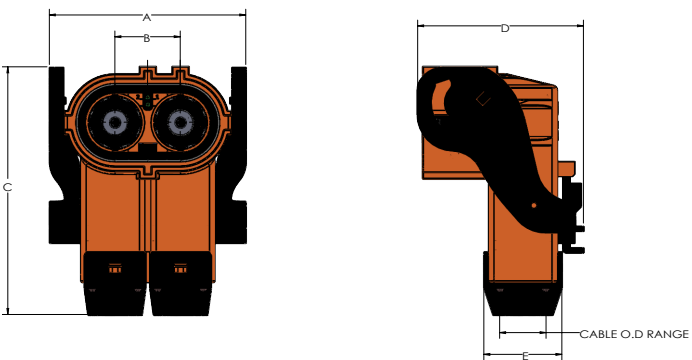
Technical Data							
Current Rating	450A (150 mm ²) 400A (120 mm ²) 350A (95mm ²)	Test Voltage (sea level)	3000 VAC RMS	Ingress Protection	IP67 (Mated)	Touch-Proof	YES
Contact Size	14.0mm RADSOK®	Operating Temperature	-40°C to 125°C	EMI	360°	HVIL	Integrated
Operating Voltage	1000V DC / 750V AC	Durability	100 (Min) Mating Cycles	Flammability	UL 94 V-0	Recommended Torque	1. Receptacle assembly to panel M5: 6±10% 2. Busbar M5:6±10% M6:8±10% M8:15±10%

2-Pole Receptacle



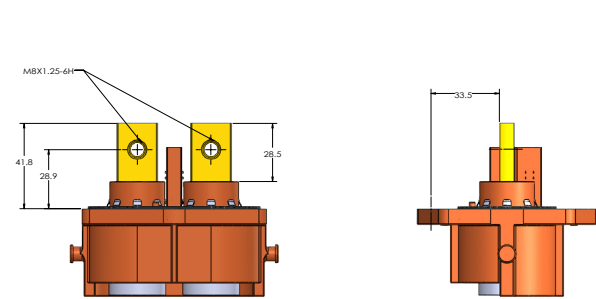
Size	2-Pole Receptacle Dimensions							
	A	B	C	D	E	F	G	H
14.0mm	101.6	90	74	87.9	74	53	42.7	35

90° Angular 2-Pole Plug



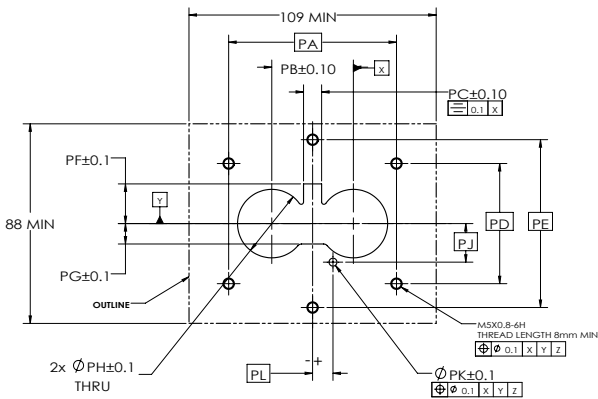
Size	90° Angular 2-Pole Plug Dimensions							
	A	B	C	D	E	F	G	Cable O.D. Range
14.0mm	85.1	66	23	51.9	47.8	99.4	34.5	95mm²: Ø22.0~23.2
								12.0mm²: Ø23.9~25.3
								15mm²: Ø26.3~27.9

2-Pole Receptacle Termination



Busbar Type 1

Cut-Out Panel Dimensions



Size	Cut out Panel Dimensions										
	PL	PB	PC	PD	PE	PF	PG	PH	PJ	PK	PL
14.0mm	74	36	8	53	74	17.5	9	30.2	17	3.5	Code A: 9
											Code B: 3
											Code C: -3
											Code D: -9

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How to Order

Plug

1.	2.		3.		4.		5.		6.		7.		8.	
UPC	P		02		2		A		L		S		1	
Product Series	Connector Type		RADSOK® Contact Size		Number of Poles		Coding Selection		HVIL Selection		EMI Selection		Contact Type	
UPC	P	90° Plug	01	9.1mm	2	2-Pole	A	Code A	L	HVIL	S	W/ Shielding Shell	1	35mm² (9.1mm Only)
	IP	Straight Plug	02	14.0mm	3	3-Pole	B	Code B	N	No HVIL	N	W/O Shielding Shell (Option only available on Plug side)	2	50mm² (9.1mm Only)
							C	Code C					5	25mm² (9.1mm Only)
							D	Code D					3	95mm² (14.0mm Only)
													4	120mm² (14.0mm Only)
													6	150mm² (14.0mm Only)

Note: 1. At this time the UPC 14.0mm is only available in 90° Plug, 2-Pole
 2. Receptacle must have EMI shielding option in order to be touch-proof

Receptacle

1.	2.		3.		4.		5.		6.		7.		8.	
UPC	R		01		3		B		N		S		2	
Product Series	Connector Type		RADSOK® Contact Size		Number of Poles		Coding Selection		HVIL Selection		EMI Selection		Contact Type	
UPC	R	Box Mount Receptacle	01	9.1mm	2	2-Pole	A	Code A	L	HVIL	S	W/ Shielding Shell	1	Busbar Type 1
			02	14.0mm	3	3-Pole	B	Code B	N	No HVIL			2	Busbar Type 2
							C	Code C						
							D	Code D						

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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