Amphenol®





UPC Connectors for HEV

series especially designed to be used in the hybrid electric vehicle market. The 2-pole and 3-pole connectors incorporate the patented RADSOK® technology for 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.

footprint, has continuous power of up to 400A, and is field installable and repairable. These attributes make UPC robust and the interconnect of choice for the EV and Hybrid markets.

Features and Benefits:

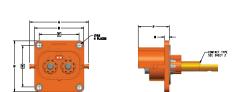
- Prastic shell, light weight
 Compact design for space considerations with EVs
 Wide amperage range (200-400A)
 Low mating/un-mating force
 Durability: 500 mating cycles minimum
 Touch-Proof (UL 2251)
 UL 94V-0
 HVIL

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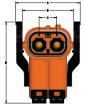
	Technical Data												
Current Rating	Up to 400A	Test Voltage (sea level)	3000 VAC RMS	Waterproof	IP67 (Mated)	Touch-Proof	UL 2251						
Contact Size	9.1mm / 12mm RADSOK®	Operating Temperature	-40 °C to 125°C	EMI	360°	HVIL	Integrated						
Operating Voltage	1000V	Durability	500 (Min) Mating Cycles	Flammability	UL 94V-0	Recommended Torque	M5: 6 ~ 8N.M						

2-Pole Receptacle



Ci=-		Re	ecepta	cle Din	nensio	ns	
Size	Α	В	С	D	Е	F	G
9.1mm	76.6	64	52	66	54	40.5	6.5

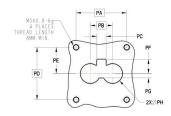
2-Pole Plug



Þ								CARLE OD RAISE
ze				P	lug Din	nensio	ns	
ze	Α	В	С	D	Е	F	G	Cable O.D Ran

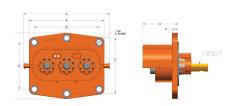
9.1mm 76.6 64 52 66 54 40.5 6.5

Cut-Out Panel Layout of 2-Pole



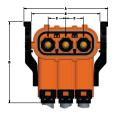
	Size	Cut-Out Panel Dimensions											
		PA	РВ	PC	PD	PE	PF	PG	PH				
ĺ	9.1mm	52	23	9.5	54	27	14.7	4.5	22.5				

3-Pole Receptacle



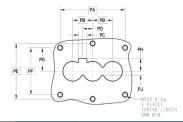
Size			Rece	ptacle	Dimen	sions		
Size	Α	В	С	D	Е	F	G	Н
9.1mm	100	87	75	76	54	64	40.5	6.5

3-Pole Plug



							_								
Cina		Plug Dimensions													
Size	Α	В	С	D	Е	F	G	Cable O.D Range							
9.1mm	109	89	23	106	63	54	34.5	Ø15~16							

Cut-Out Panel Layout of 3-Pole

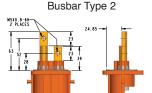


Size		Cut-Out Panel Dimensions													
Size	PA	РВ	PC	PD	PE	PF	PG	PH	PJ						
9.1mm	75	23	9.5	11.5	64	54	27	14.7	4.5						

2-Pole Receptacle Termination



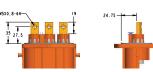




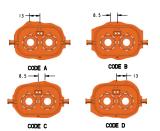
3-Pole Receptacle Termination

Busbar Type 1

Ø15~16



Codings 2-Pole Receptacle



How To Order

PLUG

RECEPTACLE

Product Series: UPC	Series: Connector Type		RADSOK® Contact Size		Pole Number		Coding Selection		HVIL Selection		EMI Selection			Crimp Wire Size		
	Р	90° Angular Plug	01	9.1mm 250A	2	2-Pole	Α	Code A	Г	HVIL	S	W/ Shielding Shell	1	35mm² (9.1mm Only)		
UPC	IP	Straight Plug	02	12.0mm 400A	3	3-Pole	В	Code B	Ν	No HVIL	N	W/O Shielding Shell	2	50mm² (9.1mm Only)		
							С	Code C					3	70mm² (9.1mm and 12.0mm)		
							D	Code D					4	95mm² (12.0mm Only)		

1	Product Series: UPC	C	Connector Type	nnector Type RADSOK® Contact Size			Pole lumber		Coding Selection		HVIL Selection		EMI Selection	Contact Type		
	UPC			01	9.1mm 250A	2	2-Pole	2-Pole A Code A L HVIL		s	W/ Shielding Shell	1	Busbar type 1			
		R	Box Mount Receptacle	02	12.0mm 400A	3	3-Pole	В	Code B	N	No HVIL	N	W/O Shielding Shell	2	Busbar type 2	
			. iooopiao.io					С	Code C							
								D	Code D							

3-Pole Receptacle



CODE A CODE B



CODE C CODE D

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 guarantles, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The users should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

For further information on your individual application requirements, contact: Amphenol Corporatio

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