

Amphenol®



ePower-Lite

The ePower-Lite is a plastic power connector series designed to be used in the hybrid electric vehicle market. The series offers 2-pole, 3-pole and 4-pole options. The robust plastic shell can withstand high temperatures up to 125°C and provides dielectric protection for the connector.

With patented RADSOK® technology, the connector features higher amperage, lower T-rise and voltage drop, and less resistance.

The compact, plastic shell structure is light weight with a small footprint, and is field installable and repairable. ePower-Lite also includes a CPA to provide connector position assurance that it is mated. All these attributes make ePower-Lite the interconnect of choice for the EV and Hybrid markets.

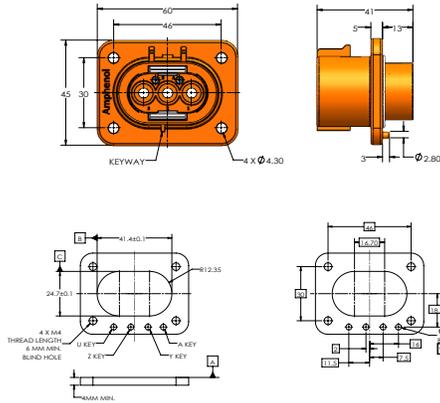
Features and Benefits:

- Plastic shell, light weight
- Compact design for space considerations with EVs
- Low mating/un-mating force
- Durability: 100 mating cycles minimum
- Water Proof: IP67
- Touch-Proof: IEC 60529
- Flammability: UL 94V-0
- EMC optional
- HVIL optional
- RoHS Compliant

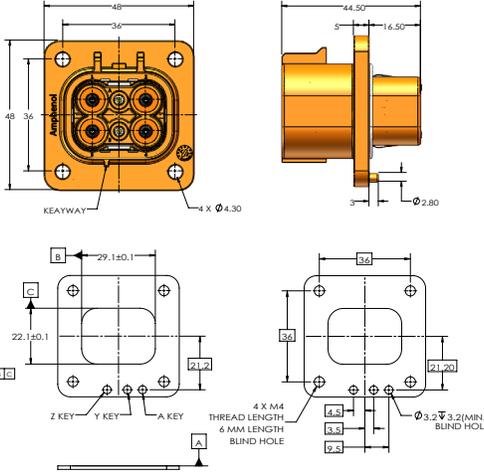
EV/HEV Application

Technical Data					
Contact Test Current	2-Pole	Option 1: 70A RADSOK®/5A HVIL	3.6mm RADSOK®	Test Voltage (Sea Level)	3000 VAC RMS
		Option 2: 120A RADSOK®/5A HVIL	5.7mm RADSOK®		
	3-Pole	70A RADSOK®/5A HVIL		Operating Temperature	-40°C to 125°C
Number of Contacts	4-Pole	70A RADSOK®/13A HVIL		Operating Voltage	800V AC
	2-Pole	2 & 2		Finger Proof	IEC 60529
	3-Pole	3 & 2		Durability	100 (Min)
Contact Size	4-Pole	4 & 2		Water Proof	IP67 (Mated)
	2-Pole	Option 1: 3.6mm/#20 Option 2: 5.7mm/#20		Salt Spray	96H
	3-Pole	3.6mm/#20		HVIL	Yes
4-Pole	3.6mm/#20		EMI	Yes	

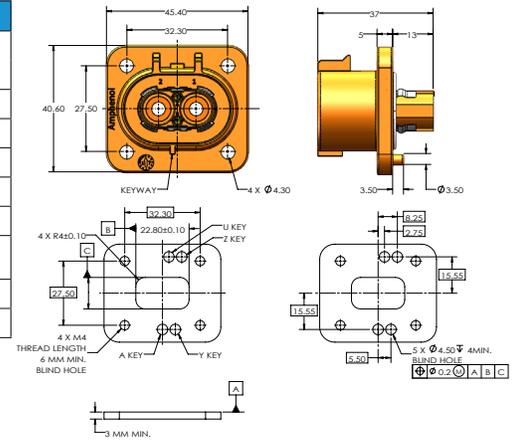
3-Pole Electrical Receptacle with HVIL & Shielding Shell



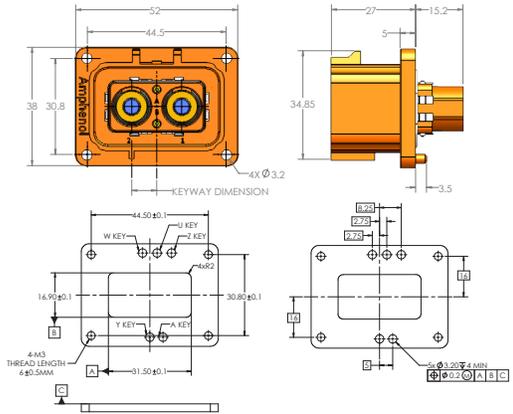
4-Pole Electrical Receptacle with HVIL & Shielding Shell



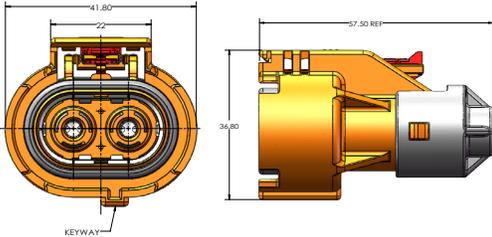
2-Pole Electrical Receptacle with HVIL & Shielding Shell



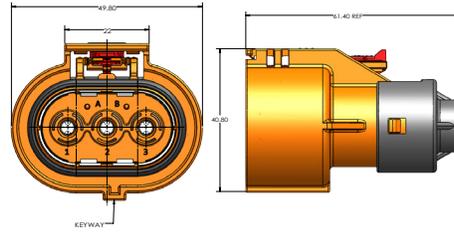
2-Pole 5.7mm Electrical Receptacle with HVIL & Shielding Shell



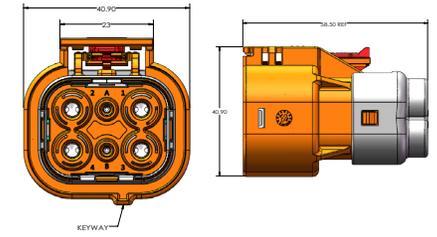
2-Pole Electrical Plug with HVIL & Shielding Shell



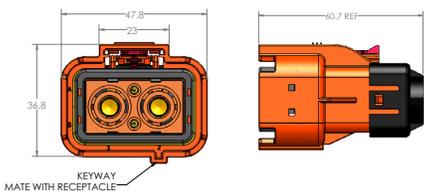
3-Pole Electrical Plug with HVIL & Shielding Shell



4-Pole Electrical Plug with HVIL & Shielding Shell



2-Pole 5.7mm Electrical Plug with HVIL & Shielding Shell



How To Order

Product Series	Connector Type	Pole Number	Index / Key	Crimped Wire Size	EMI & HVIL Options (Omit to include EMI & HVIL)
EL	P Plug	2 2-Pole	A Key/A	1 2.5mm²	N/A EMI & HVIL
	R Receptacle	3 3-Pole	Y Key/Y	2 4.0mm²	01 Yes EMI but No HVIL
		4 4-Pole	Z Key/Z	3 6.0mm²	10 No EMI but Yes HVIL
			U Key/U	4 10.0mm²	11 No EMI & No HVIL
				16 16.0mm²	2-Pole 5.7mm Only
			25 25.0mm²	2-Pole 5.7mm Only	

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