

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.

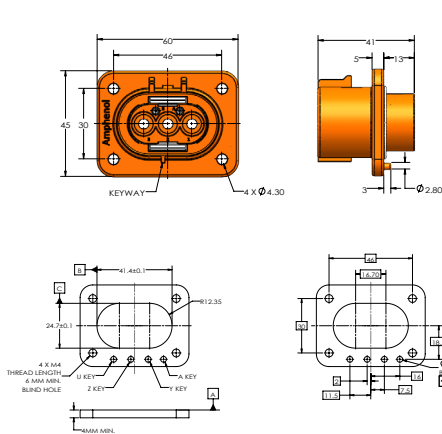
The compact, plastic shell structure is light weight with a small footprint, and is field installable and repairable. ePower-Lite also includes a CPA to provide connector position assurance that it is mated. All these attributes make ePower-Lite the interconnect of choice for the EV and Hybrid markets.

Features and Benefits:

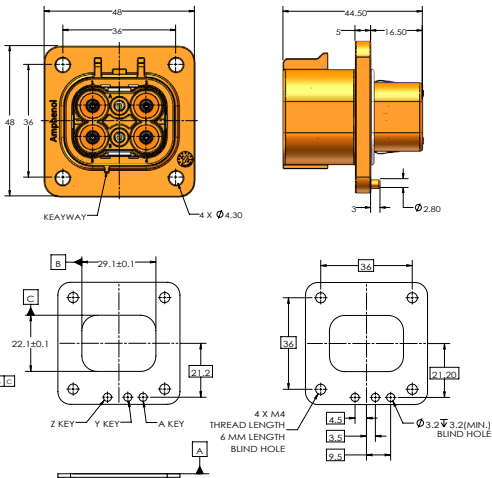
- Plastic shell, light weight
- Compact design for space considerations with EVs
- Low mating/un-mating force
- Durability: 100 mating cycles minimum
- Water Proof: IP67
- Touch-Proof: IEC 60529
- Flammability: UL 94V-0
- EMC optional
- HVIL optional
- RoHS Compliant

| 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 |
| | 4-Pole | 70A RADSOK®/13A HVIL | | Operating Voltage | 800V AC |
| Number of Contacts | 2-Pole | 2 & 2 | | Finger Proof | IEC 60529 |
| | 3-Pole | 3 & 2 | | Durability | 100 (Min) |
| | 4-Pole | 4 & 2 | | Water Proof | IP67 (Mated) |
| Contact Size | 2-Pole | Option 1: 3.6mm/#20 | | Salt Spray | 96H |
| | 3-Pole | Option 2: 5.7mm/#20 | | HVIL | Yes |
| | 4-Pole | 3.6mm/#20 | | EMI | Yes |

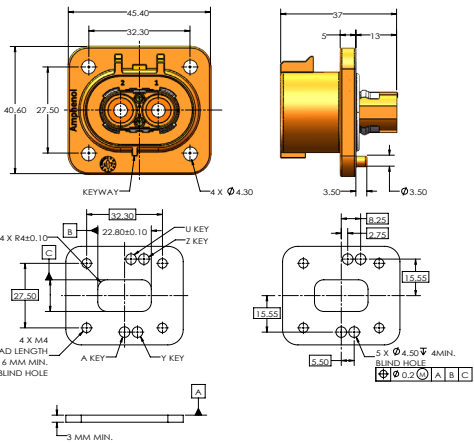
3-Pole Electrical Receptacle
with HVIL & Shielding Shell



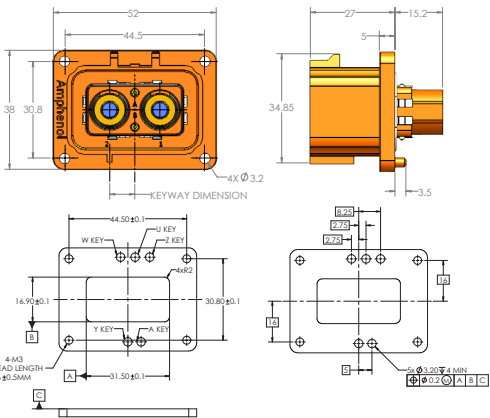
4-Pole Electrical Receptacle
with HVIL & Shielding Shell



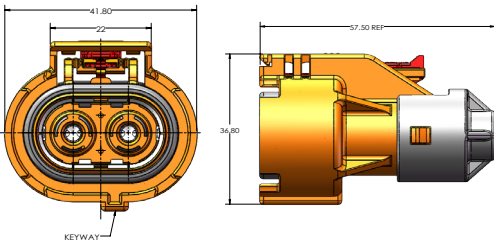
2-Pole Electrical Receptacle
with HVIL & Shielding Shell



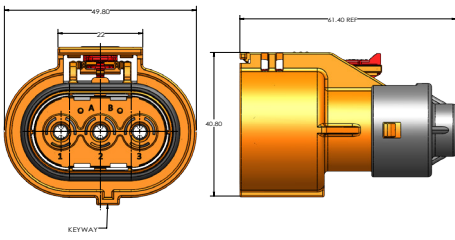
2-Pole 5.7mm Electrical Receptacle
with HVIL & Shielding Shell



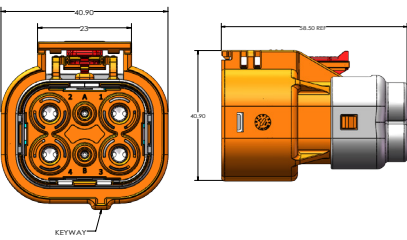
2-Pole Electrical Plug
with HVIL & Shielding Shell



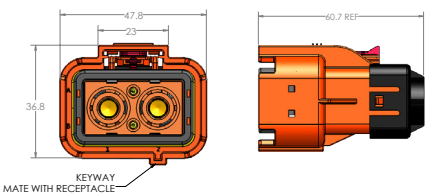
3-Pole Electrical Plug
with HVIL & Shielding Shell



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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