



EV High Voltage Harness



Pacific Electric Wire and Cable Company has launched high-voltage wiring harnesses for automotive, equipment, and server applications. These harnesses are designed for use in electric vehicles, hydrogen fuel cell hybrid systems, and energy transmission for equipment. They support voltages up to DC 1,500V, and a temperature resistance range is from -40°C to 150°C. The cables are available in two designs: unshielded and shielded, with an electronic noise shielding effectiveness of over 95%. Customization is available to meet customer requirements, and the products comply with ISO 19642-9 and ISO 6772 standards.



Applications

A variety of high-voltage harness combinations used to connect battery packs, inverters, DC-DC converters, and on-board chargers of EVs.

Features

- Applied in passenger, commercial and hydrogen fuel cell hybrid electric vehicles.
- Electrical specifications meet the requirements for vehicle systems capable of 1,500V.
- The shielded cable design shields up to 95% EMI coverage and complies with EMC requirements.
- Crimping harness terminals with hexagonal crimping technology.
- Operating temperature range: -40°C to 150°C
- Compliant with VW-1 flame rating.
- Compliant with ISO 19642-9, RoHS 2.0 and corporate test specifications.



Model	HVH-S-35	HVH-S-50	HVH-S-70	HVH-S-95
Voltage(V)	1,500	1,500	1,500	1,500
Current (A)	280	350	440	530
Conductor Cross Sectional Area (mm ²)	35	50	70	95
Conductor Outer Diameter (mm)	8.2	10.0	11.8	14.1
Insulation Thickness(mm)	1.5	1.6	1.6	1.7
Shielding Design	Yes	Yes	Yes	Yes
Cooling Method	Air	Air	Air	Air
Operating Temperature Range(°C)	-40 to 150			

Model	HVH-N-35	HVH-N-50	HVH-N-70
Voltage(V)	1,500	1,500	1,500
Current (A)	210	260	300
Conductor Cross Sectional Area (mm ²)	35	50	70
Conductor Outer Diameter (mm)	8.2	10.0	11.8
Insulation Thickness(mm)	1.5	1.5	1.5
Shielding Design	No	No	No
Cooling Method	Air	Air	Air
Operating Temperature Range(°C)	-40 to 150		

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*Product information and specifications are subject to change. Please refer to our website