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Sumitomo Electric Sintered Alloy, Ltd.

<https://www.sei-oss.co.jp>

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Nippon ITF Co., Ltd.

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Sumitomo Electric System Solutions Co., Ltd.

<https://www.seiss.co.jp/en/>

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Sumitomo Electric Fine Polymer, Inc.

<http://www.sei-sfp.co.jp/english/>

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Sumitomo Electric Wintec, Inc.

<https://www.sei-wintec.com/>

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A.L.M.T. Corp.

<https://www.allied-material.co.jp/en.html>

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Sumitomo Electric Hardmetal Corp.

<https://www.sumitool.com/en/>

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Automotive Products Catalog
WEB site

<https://www.sei-automotive.jp/>



Automotive Systems & Products

English



Living in Safety and Comfort on our green planet —Relentlessly Challenging ourselves to use Technology for Good— Connect with Innovation

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Since Our Establishment

Safety

For a safer society, we will supply various products that support infrastructure and industries

High durability

High strength

Comfort

For a more comfortable society, we will supply high-quality and high-performance products to global markets

High speed

Large capacity



Further Emphasis

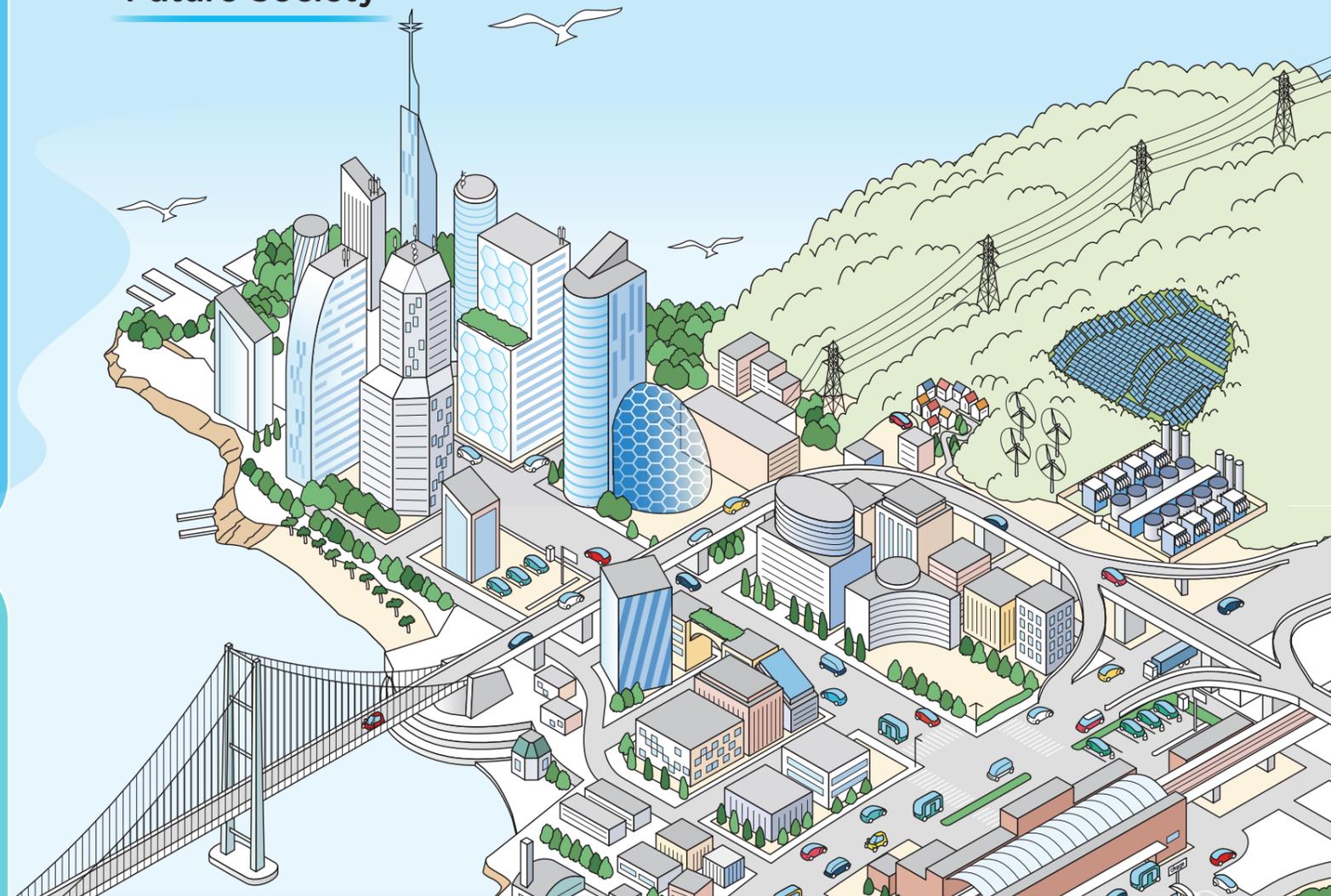
Green

For a green society, making all-out efforts in decarbonization and related businesses we contribute in Sumitomo's way

High efficiency

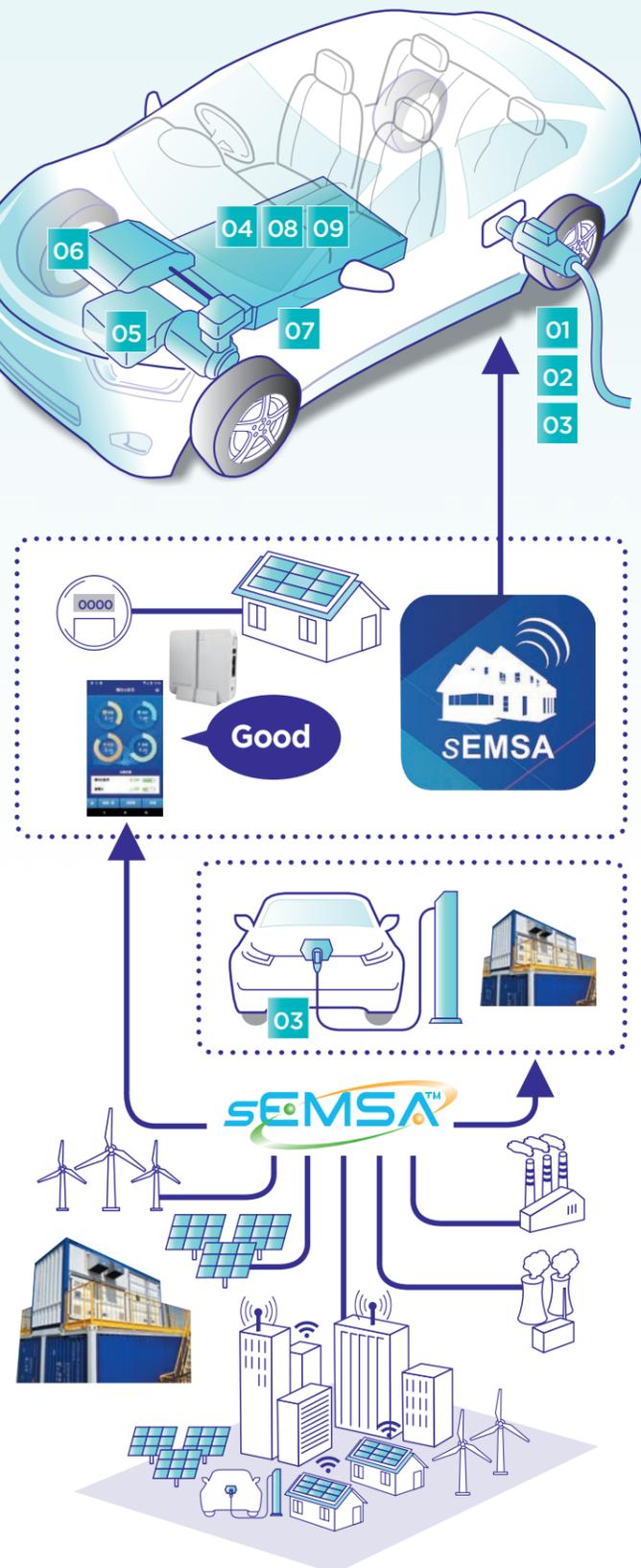
Low loss

Future Society



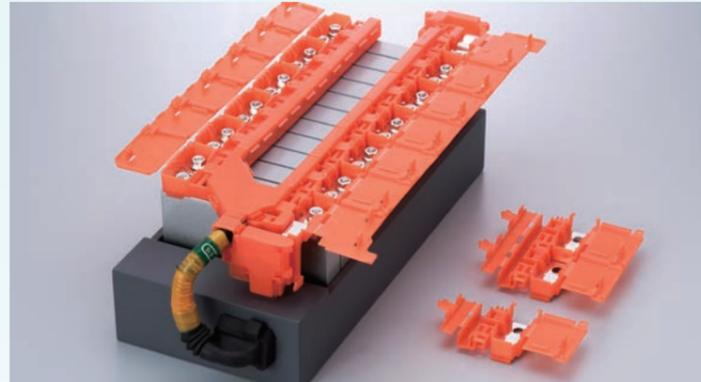
Supposing mobility and city from future society, we will provide solution and new value.

Smart use of energy in Communities, Homes, and EVs



Energy Storage

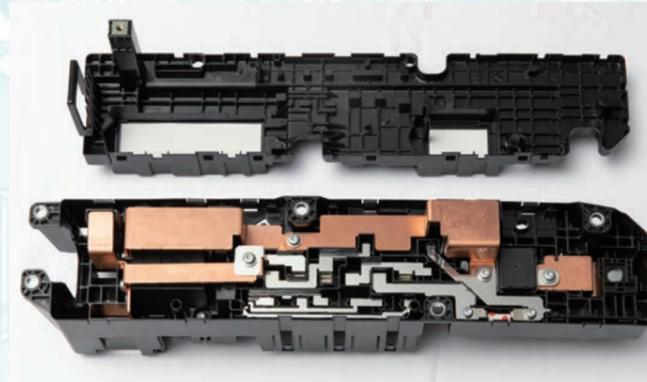
Battery-related products



04 VDM (Voltage Detection Module)
Sumitomo Wiring System

Component where high-voltage batteries are connected in series, with voltage detection terminal and harness mounted. Applicable to batteries with a different number of cells by connecting a shared-use small component.

Check on the web!



05 High-Voltage Junction Box
Sumitomo Wiring System

Equipped with a function that checks the connection of the electrical circuit in the battery pack and shuts down the circuit when connection failure is detected. Technology that supports heat generation due to concentrated circuits is required.

Energy Supply

Infrastructure-related products



01 Standard Charging Connector, Inlet
Sumitomo Wiring System

AC charging connector for PHEV/EV. Compliant with international standards (IEC62196-1, SAE J1772, and UL2251).

Check on the web!



02 EV Bi-Directional Charger Connector

Sumitomo Electric
Electric Wire Energy Business Unit

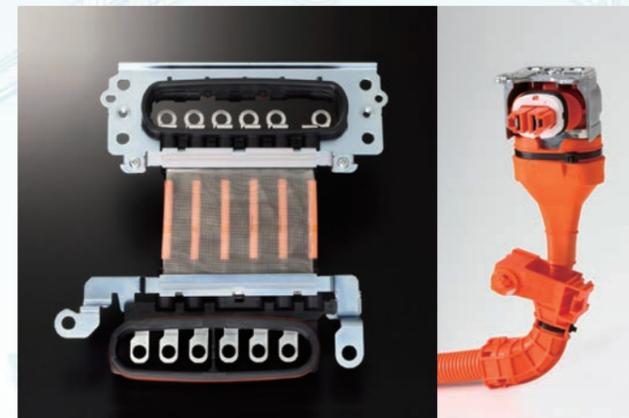
The SEVD™-V3 is Bi-directional charging connector cable for EV. It is in conformity with CHAdeMO specification, CE-certified. Low capacity type provides not only a high level of safety but also excellent operability, high durability and excellent design.



03 EV Quick-charger Connector

Sumitomo Electric
Electric Wire Energy Business Unit

The SEVD™-11 is apply for large power such as 200A. It is adapted for CHAdeMO and CE/UL-certified. Product features are excellent operability, safety design, wide applicable temperature, high cable flexibility and high durability.



06 High-Voltage Connector
Sumitomo Wiring System

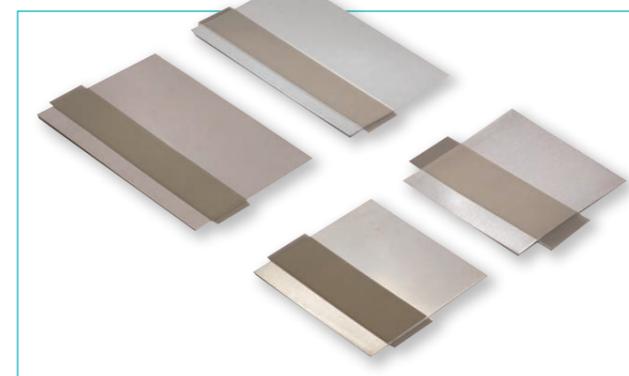
Waterproof and electromagnetic-shielded connector applicable to high-voltage wiring. Connected to inverters, motors, or batteries.



07 Bi-direction charging controller for Regenerative system
Sumitomo Wiring System

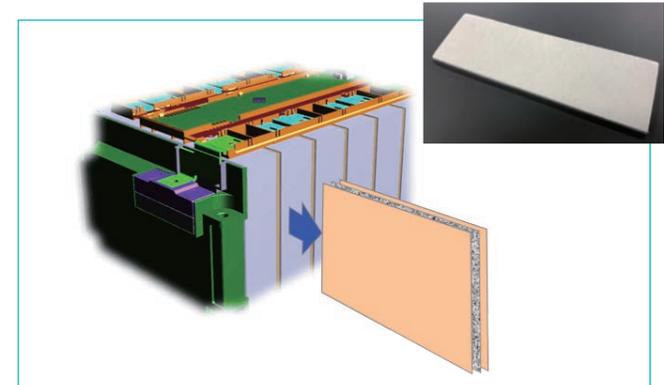
Improves energy efficiency by collecting deceleration energy as electricity. The original high heat radiation structure is used to enable high-density mounting, achieving size reduction and high output.

Check on the web!



08 Tab leads
Sumitomo (SEI) Electric Wire

Cathode and Anode terminal for laminating type Lithium ion Battery and All Solid State Battery. High seal reliability for BEV battery cell realized by SUMITOMO's original insulation resin and flat conductor technology.

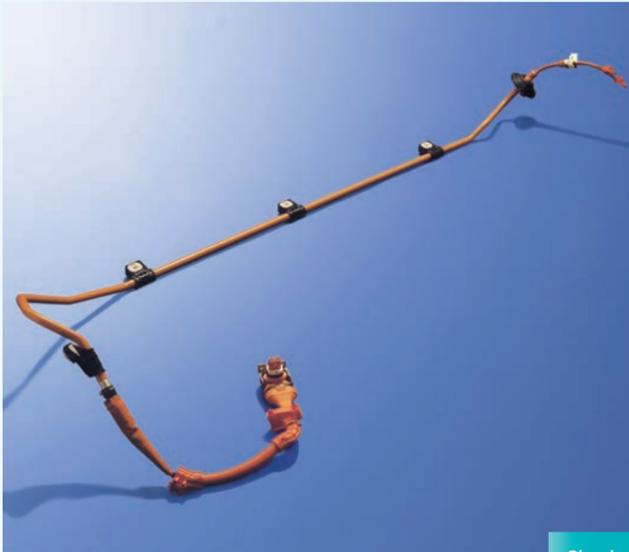


09 Insulation for between Battery Cells
Sumitomo Riko

This product is installed between the cells of EV battery, and it also prevents fires occurring from the battery in case of emergency. We would like to promote this EV activity with strong focus to safety.

Energy Connection

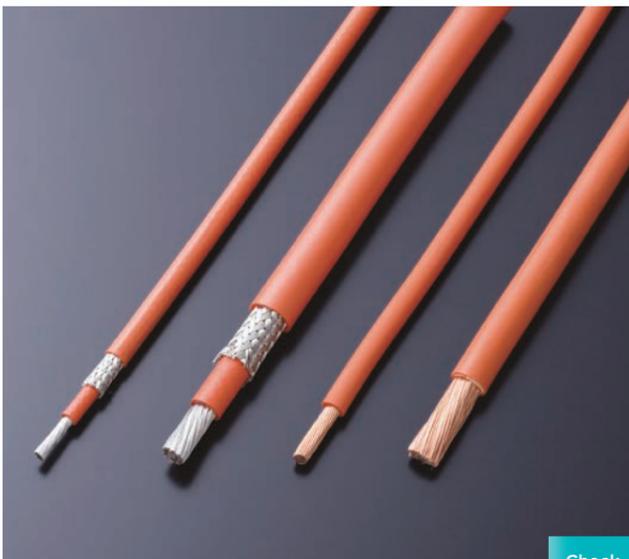
High Voltage System



10 High-Voltage Under-floor Harness
Sumitomo Wiring System

DC high-voltage wiring harness that connects the high-voltage battery to the inverter in the engine room. Using aluminum pipes, formed into a three-dimensional structure with shield and protector functions.

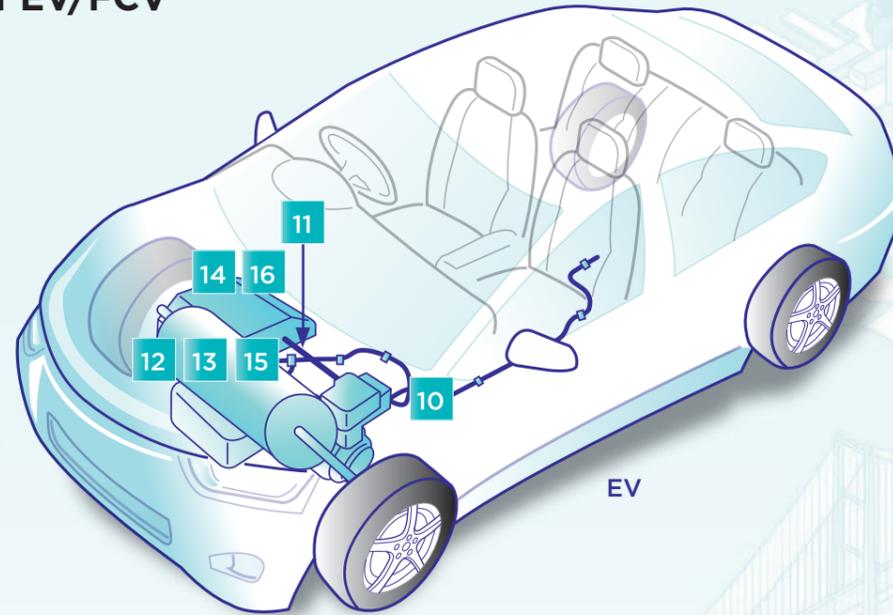
Check on the web!



11 High-Voltage Cable
Sumitomo Wiring System

Considering the environment, halogen-free materials or lead-free PVC is used. With excellent flexibility, suitable for wiring that requires a long high-voltage circuit.

Check on the web!



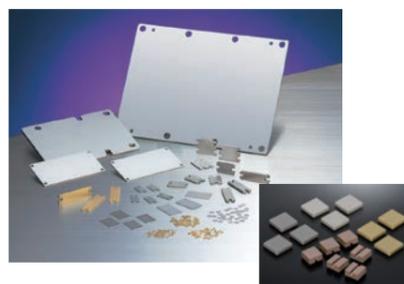
Generation of the driving force

Motor/Inverter/e-Axles



12 Rectangular Magnet Wires for Electrified Vehicles
Sumitomo Electric Wintec

Compared to a round wire, a rectangular magnet wire can be wound without gaps in the same space. This helps reduce the size and increase the output of driving motors.



14 Heatspreader Materials
A.L.M.T.

This heatspreader has high thermal conductivity and low thermal expansion. When assembled on power devices for xEVs, it reduces thermal stress and contributes to improving reliability. It is also effective as a heatspreader for next-generation SiC devices, which are expected to operate at high temperatures in the future.



15 Motor Mount
Sumitomo Riko

Supports the motor and reduces vibration and noise of the motor and gear.



13 FM-CM Material (Sintered Soft Magnetic Member with High Magnetic Property)
Sumitomo Electric Sintered Alloy

The FMCM materials have isotropic magnetic properties and excellent AC magnetic properties. The FMCM greatly contributes to the miniaturization and lower iron loss of actuators, motors and reactors for automotive parts. They also have excellent recyclability, and combination with SEI's compacting technology, enables shapes that are difficult to achieve with electrical steel sheets.

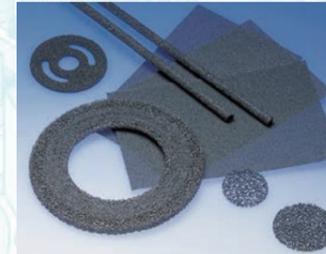


16 SiC
Sumitomo Electric Power Device Development Division

SiC realize compact power units and improve the cruising of vehicles. SiC will contribute to the development of EV/HEV.

Deal with Hydrogen fuel

FCV-related products



17 Porous Electrode "CELMET"™ for FC stack
Sumitomo Electric Toyama

Three-dimensional structure porous metal parts for FC stack electrode. Advantage in low electrical resistance and pressure loss reduction by high porosity and large surface area.



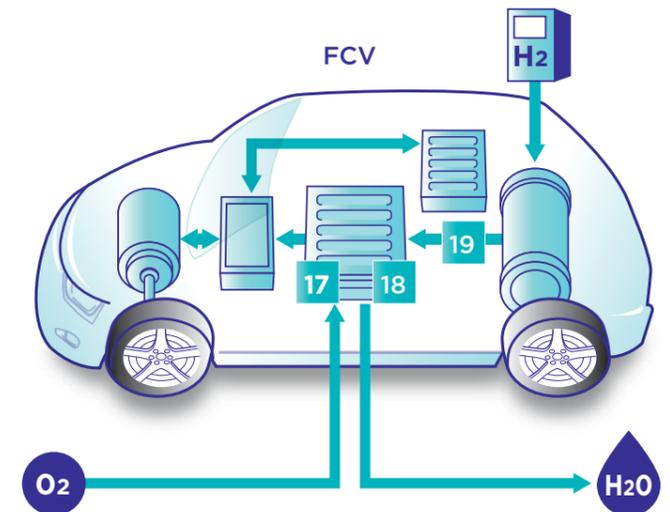
18 Cell gaskets for FC stack cells
Sumitomo Riko

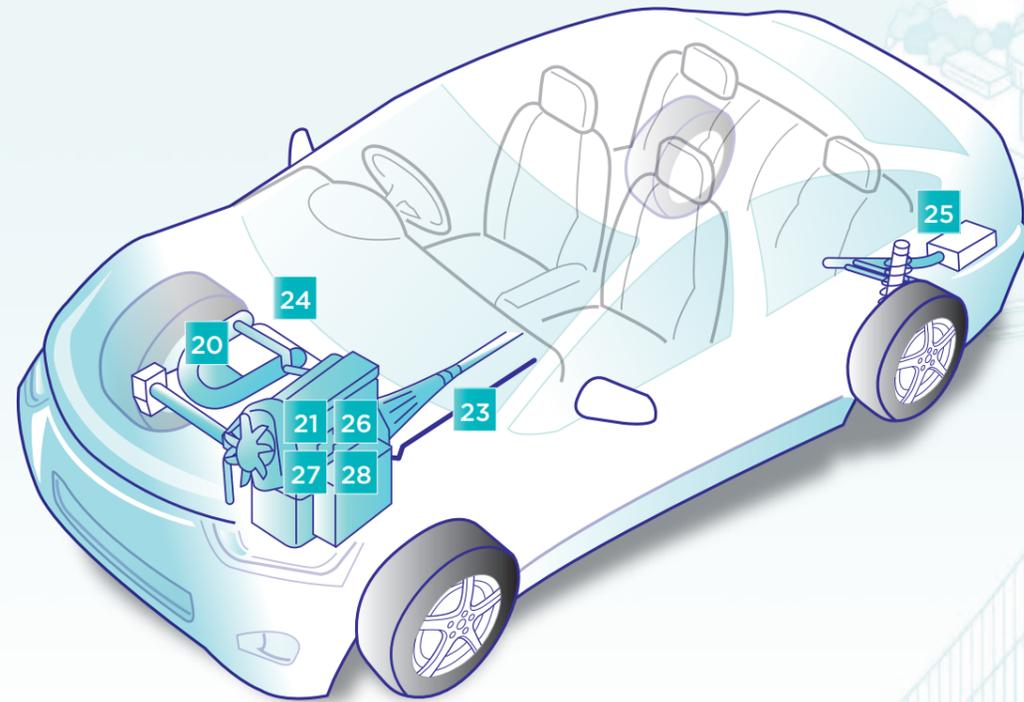
- Available in a wide range of temperatures from -30 to 120°C
- Can be integrated with separators and power generation components
- Can be molded in less than 1 minute (Received the 2020 Toyota Technology Development Award)



19 Hydrogen Hoses
Sumitomo Riko

Hydrogen hoses are used to transport hard to seal small gaseous matter at high pressure. Installed in fuel cell electric vehicles (FCEV), these hoses require a high level of reliability and durability to ensure that hydrogen is not leaked outside the vehicle under any circumstances.





Fuel and Electricity efficiency Improvement

Weight reduction



23 Aluminum Alloy Wire and Rods for Forging and Machining

Sumitomo Electric Toyama

Aluminum-alloy wire and bar for forging and machining are processed in a unique continuous cast-rolling method and contribute to weight reduction of automotive parts. Comparing to an extrusion method, finer grain size and larger coil (max. 2t) are available. It enables high forgeability and machine-processability, resulting in higher yield and productivity.

Check on the web!



Fuel and Electricity efficiency Improvement

Driving loss reduction



26 Oil Pump Rotors

Sumitomo Electric Sintered Alloy

Internal gear pump rotors are powder metallurgy parts widely used in oil pumps of automobile engines, automatic transmissions, continuously variable transmissions, lubrication of power division mechanism for HEV and electric pump application for BEV. Our pump rotors are able to reduce the driving torque, the sound and the size of these automotive equipment, due to our original rotor's tooth profile.

Compliance with environmental regulations

High performance Materials

20 Hoses

Sumitomo Riko

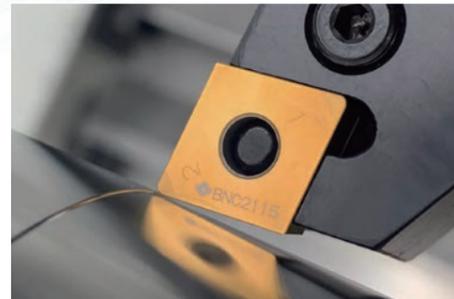
We have an advantage of material blending technology of rubber and resin, and our products have excellent performance in heat resistance, vibration and impact absorption, and lightweight. In addition, our products are comply with gasoline vapor emission regulations, and used in various area such as around engines and around fuel tanks.



21 Ni-free High strength Sintered Materials

Sumitomo Electric Sintered Alloy

The newly developed (Ni-Free) sintered material has equal or greater strength and low cost than conventional higher alloyed materials, which avoid price increasing and supply risk of nickel. It was applied for various automotive parts and contributes to low alloying.



22 SUMIBORON™, SUMIDIA™

Sumitomo Electric Hardmetal

SUMIBORON™ is a cutting tool made by cubic Boron Nitride (cBN) sintered body with concentration of original high pressure / high temperature sintering technology, which contributes low electric consumption in high productivity, high precision machining of hardened steel or cast iron.

Check on the web!



24 High Strength Aluminum Harness

Sumitomo Wiring System

Developed the world's first aluminum wire with higher strength and flexibility than the conventional twisted conductor thin aluminum wire. Can be used for sections subject to vibration or bending, and reduction in wire size is enabled.

Check on the web!



25 High-Strength Oil Tempered Wire

Sumitomo Electric, Special Steel Wire Division

By applying the state of the art technologies and well-established quality management system, our product shows outstanding performance and stable quality. It helps light-weighting of automobile.



27 Planetary Carrier

Sumitomo Electric Sintered Alloy

Planetary carriers are one component of the planetary gear mechanism used by BEV e-axis reduction drives. Molding more than two components and assembling to net shape means window and spline dimensions are achieved without machining.



28 Ceramic Coating

Nippon ITF

DLC is a ceramic coating with excellent friction coefficient reduction performance, which greatly contributes to the global environment and energy fields.

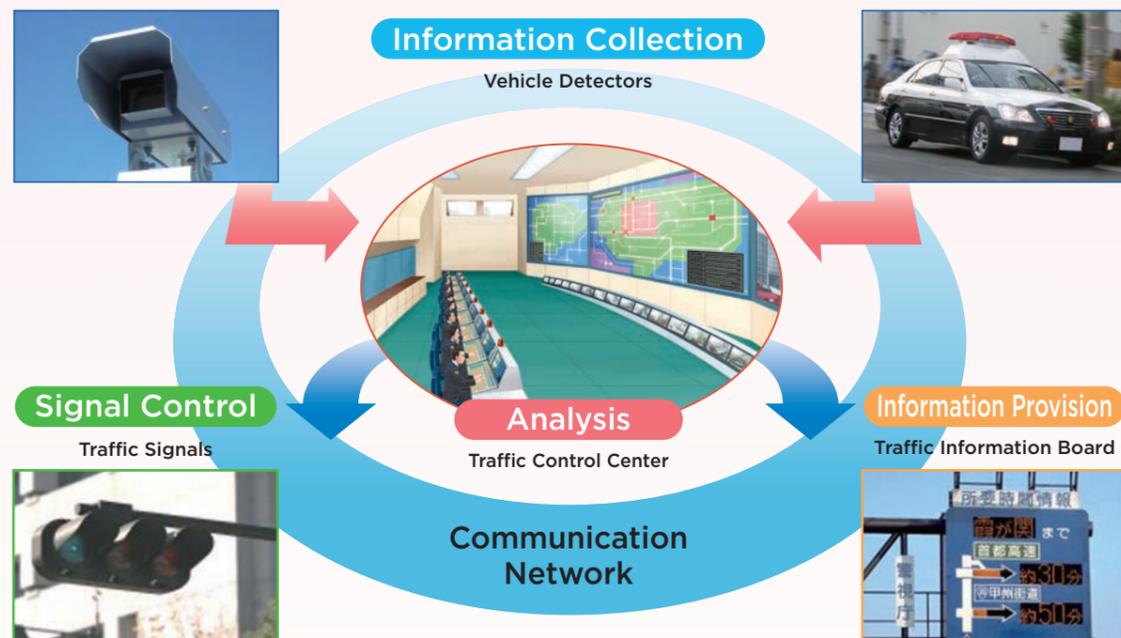


Safety

Products connected with infrastructure

Realize the mobility society to be safe, comfortable and eco friendly

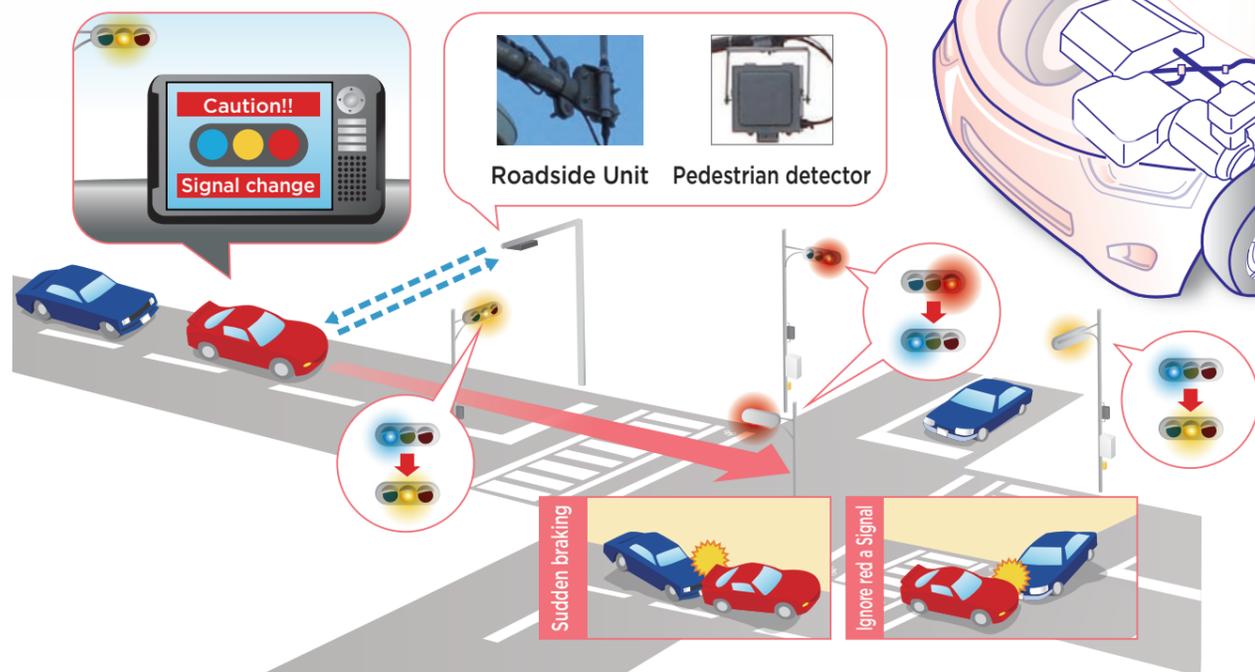
Traffic assistance



29 Integrated Traffic Control Systems (ITCS)

Sumitomo Electric System Solutions

This system realize safety and comfortable traffic with optimal traffic signal control based on the information from various sensors.



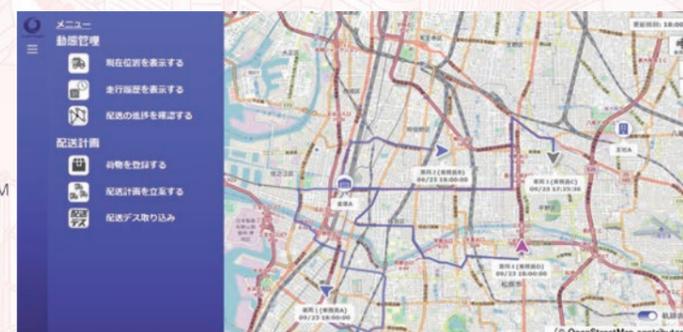
30 Driving Safety Support Systems (DSSS)

Sumitomo Electric System Solutions

This system alert drivers according to the status of intersections with ITS roadside communication devices, and reduce the risk of traffic accidents.

Realize the mobility society to be safe, comfortable and eco friendly

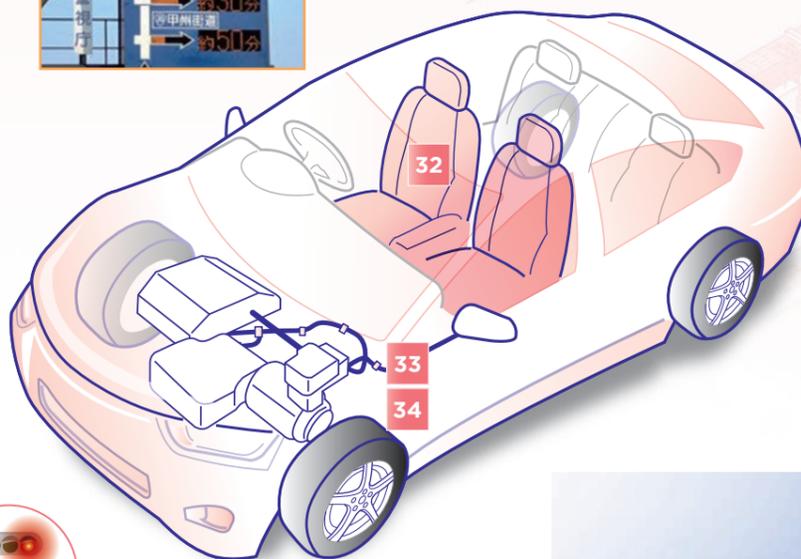
Operation support



31 Intelligent Mobility Management System "Eagle Sight"

Sumitomo Electric Systems & Electronics Division

The current position and position history of the vehicle are displayed on a map, and the estimated arrival time and the operation status are provided in real time.



32 Driver Monitoring System

Sumitomo Riko

It is possible to estimate the biological information (heart rate, breathing rate, etc.) of the passenger while driving just by sitting down.



33 Advanced Infrared Beacon On-board Device

Sumitomo Wiring System

Communicates with road-side devices installed on general roads using near-infrared rays. Can provide signal information (e.g. switching time from green to red) in addition to traffic jam information, contributing to improvement of traffic safety.

Check on the web!



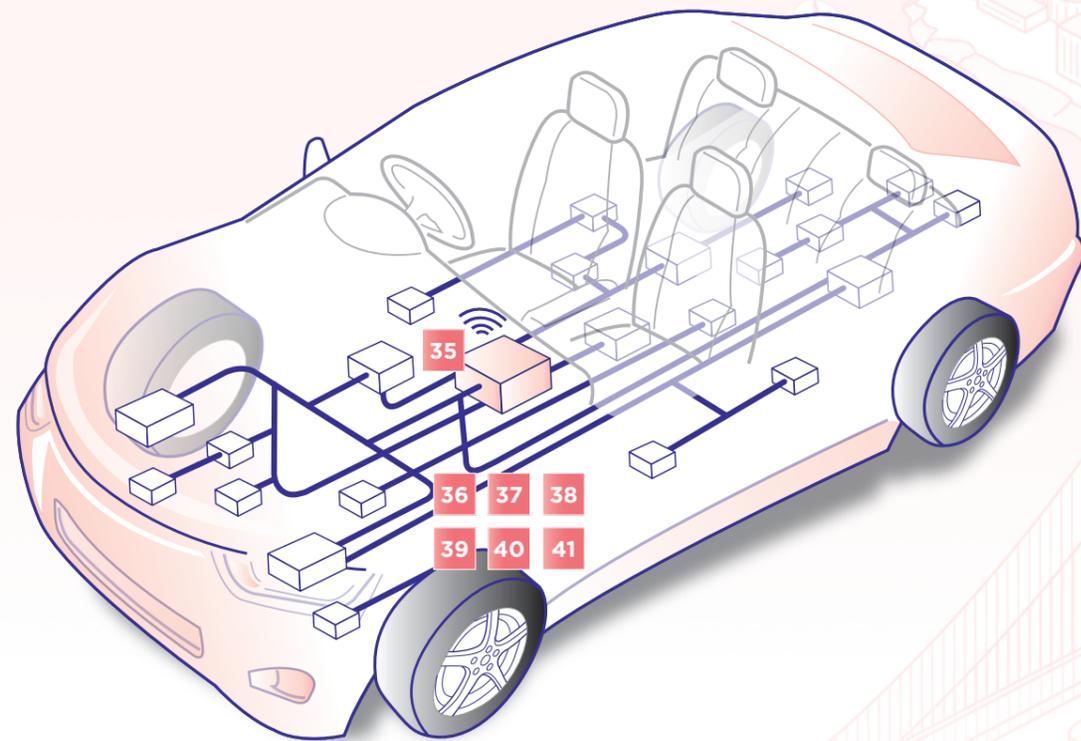
34 Wheel Speed Sensor Integrated with EPB Harness

Sumitomo Wiring System

Integrated a wheel speed sensor with an electric parking brake (EPB) harness. This has reduced the quantity of required parts and vehicle assembly manhours.

Check on the web!





Check on the web!

Prevention unatuhorized access

External Vechilce Network



35 Central Gateway ECU
Sumitomo Wiring System

In the communication network where many ECUs are mounted, ECUs are connected via a gateway for the relevant functional system to organize the exchange of signals. In addition, security functions have been enhanced.



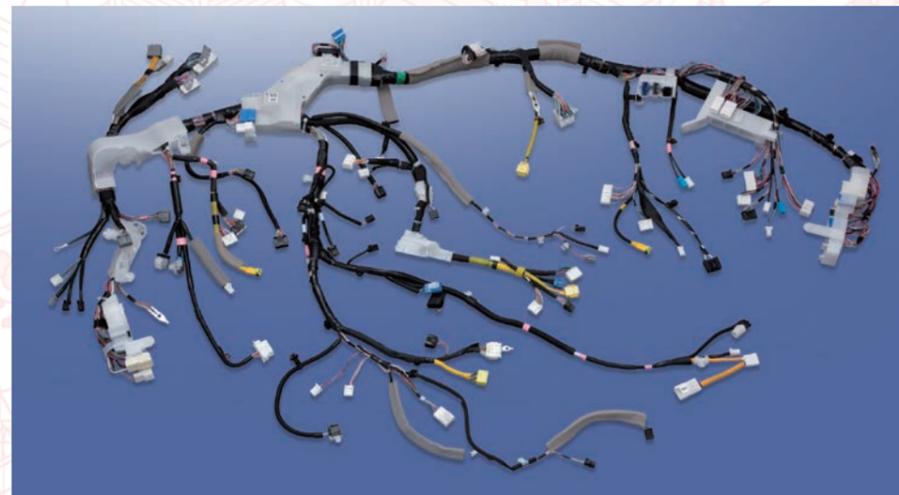
36 Antenna Harness & High Frequency Connector
Sumitomo Wiring System

Wiring harness that connects the receiving antenna (e.g. radio, TV, phone, GPS) and the receiver, with a high frequency connector.



Connect with high reliability information

Internal Vehicle Network



37 Wire Harness
Sumitomo Wiring System

Electrical wiring system that transmits information and energy. Becoming an increasingly important automobile component due to the increase in automobile electronic control functions.

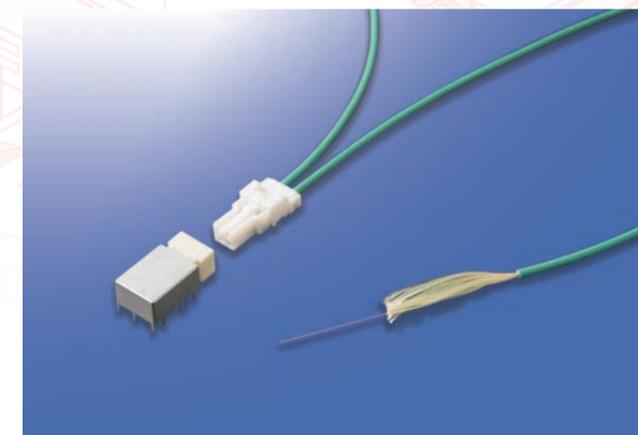
Check on the web!



38 Irradiated Cross-linked Products
Sumitomo Electric Fine Polymer

SUMITUBE™ has excellent heat resistance and electrical properties, and is widely used for insulation protection and waterproofing applications in wire harnesses.

Check on the web!



39 Automotive High Speed LAN
Sumitomo Wiring System

Information volume to grasp peripheral situations (e.g. videos) becomes immense along with the advancement of driver assistance technologies (e.g. self-driving). Developed a high-speed in-vehicle communication harness (metallic, optical) that transmits this data without delay.



40 ECU Connector
Sumitomo Wiring System

Connector that can be mounted on a printed circuit board. Suitable for connection of wires and electronic control units.



41 Waterproof Connector
Sumitomo Wiring System

Fully demonstrates its function even when used in an engine room for wire connection where waterproofness is required.

Check on the web!



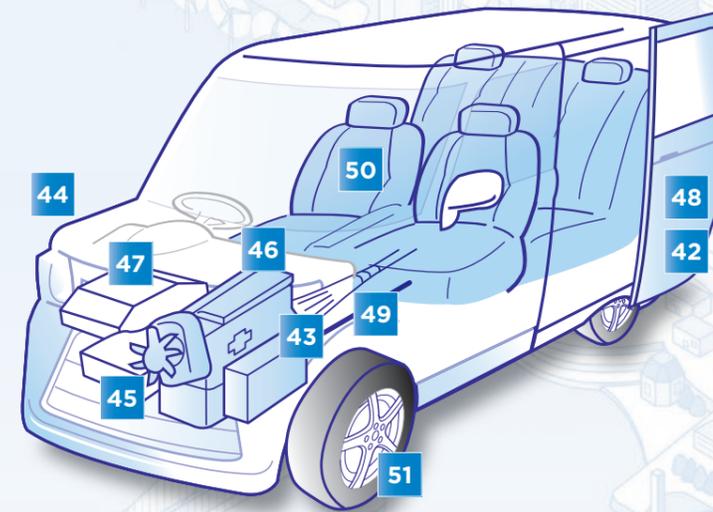
Wider living space

Electric unit, sensor



42 e-STEALTH W/H™ Sumitomo Wiring System

A flat wire harness that can be easily adapted (bent, diverted) to the specific shape of the vehicle it is installed in. It uses existing composite parts (e.g. wires and connectors). The manufacturing process for e-STEALTH W/H has a higher percentage of automation in comparison to conventional W/H.



Achieve a quiet space

Engine / Tire etc,



49 Anti-Vibration Rubber Sumitomo Riko

By developing materials that make use of polymer material technology, we combine flexibility, damping, and high reliability, and efficiently absorb vibrations from road, engines, motors, and compressors, etc.



50 Sound Controlling & Insulation Products /Interior Equipment Sumitomo Riko

Automobiles have many sources of noise, including the engine. Sound dampening products block them and keep your car quiet. Interior products are excellent in shock absorption and have a pleasant touch. We provide headrests, armrests, seat backboards, etc.



51 Steel Cords For Tire Reinforcement Sumitomo Electric, Special Steel Wire Division

This products have been highly evaluated by tire manufactures contributing to their needs for lower weight, better riding comfort of tires.

Easy boarding

Door Control



47 Smart entry function integrated BCM Sumitomo Wiring System

Integrated a smart entry function that eliminates remote control and a body electronics control function. Reduction in the number of units can save vehicle space and reduce vehicle weight.

Check on the web!



48 Wire Harness For Power Sliding Door Sumitomo Wiring System

Wiring harness that constantly supplies power to electrical components in the sliding door, regardless of door opening or closing.



Check on the web!



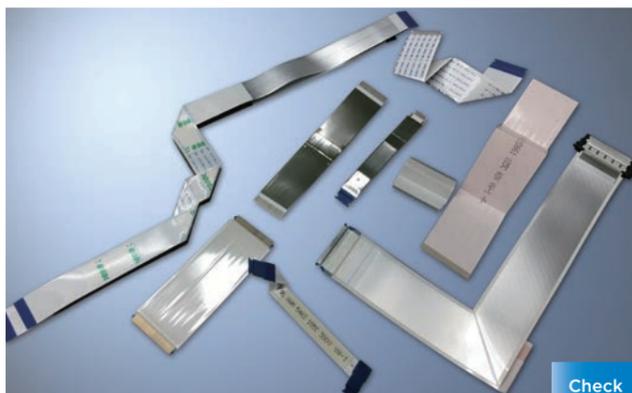
43 Compact Relay Module Sumitomo Wiring System

Relay and fuse functions have been achieved with semiconductors. This has achieved further reduction in size and weight.



44 Flexible Printed Circuit (FPC) Sumitomo Electric Printed Circuits

FPC are flexible circuit boards that offer high-density circuitry and component mounting capabilities. Developed 150°C heat-resistant material greatly improves durability.

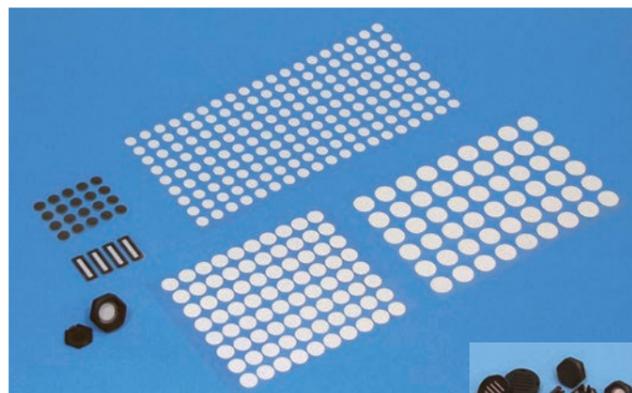


Check on the web!



45 Flexible Flat Cable Sumitomo (SEI) Electric Wire

A thin flat electric wire that enables simultaneous wiring of multiple circuits and achieves direct connector connection using flat conductors.



46 Poreflon™ Airbent Sumitomo Electric Fine Polymer

POREFLON™AIR VENT is the product used for precision equipment which utilized the characteristic of porous PTFE membrane that allows venting and prevents from penetrating water and dust.