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Sumitomo Electric Group Official Character
Sumeedy

Automotive Products Catalog
WEB site
<https://www.sei-automotive.jp/catalog/>



Automotive Systems & Products

English



Toward Safe and Comfortable Living and a Green Society

Delivering Solutions and New Value for Future Society, Cities, and Mobility

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Safety

- High durability
- High strength

“For a safer society”

we will supply various products that support infrastructure and industries

Since Our Establishment

Comfort

- High speed
- Large capacity

“For a more comfortable society”

we will supply high-quality and high-performance products to global markets

Further Emphasis

Green

- High efficiency
- Low loss

“For a green society”

making all-out efforts in decarbonization and related businesses we contribute in Sumitomo’s way

Safety

Products that connect with public infrastructure

Enabling a safe and comfortable mobility society

Traffic management



01 Integrated Traffic Control Systems (ITCS)

Sumitomo Electric System Solutions

This system achieves safe and comfortable traffic management through optimal traffic signal control based on information from various sensors.



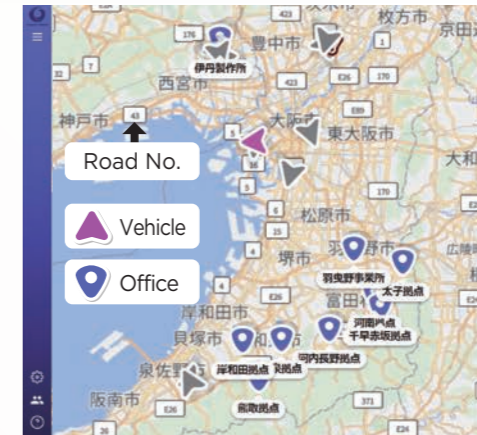
Enabling a safe and comfortable mobility society

Dispatch operations support

03 Intelligent Mobility Management System "Eagle Sight"

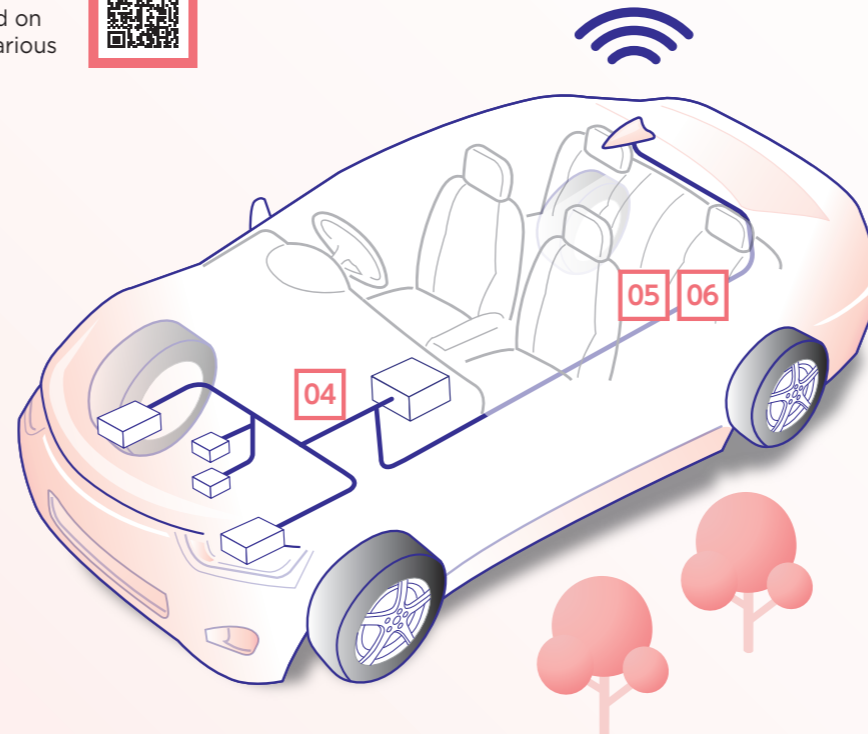
Sumitomo Electric System Solutions

The vehicle's current location and history are displayed on a map, along with real-time vehicle status and estimated time of arrival (ETA). Route guidance is provided via a smartphone navigation app using real-time traffic information.



Prevention of unauthorized access

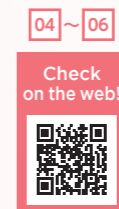
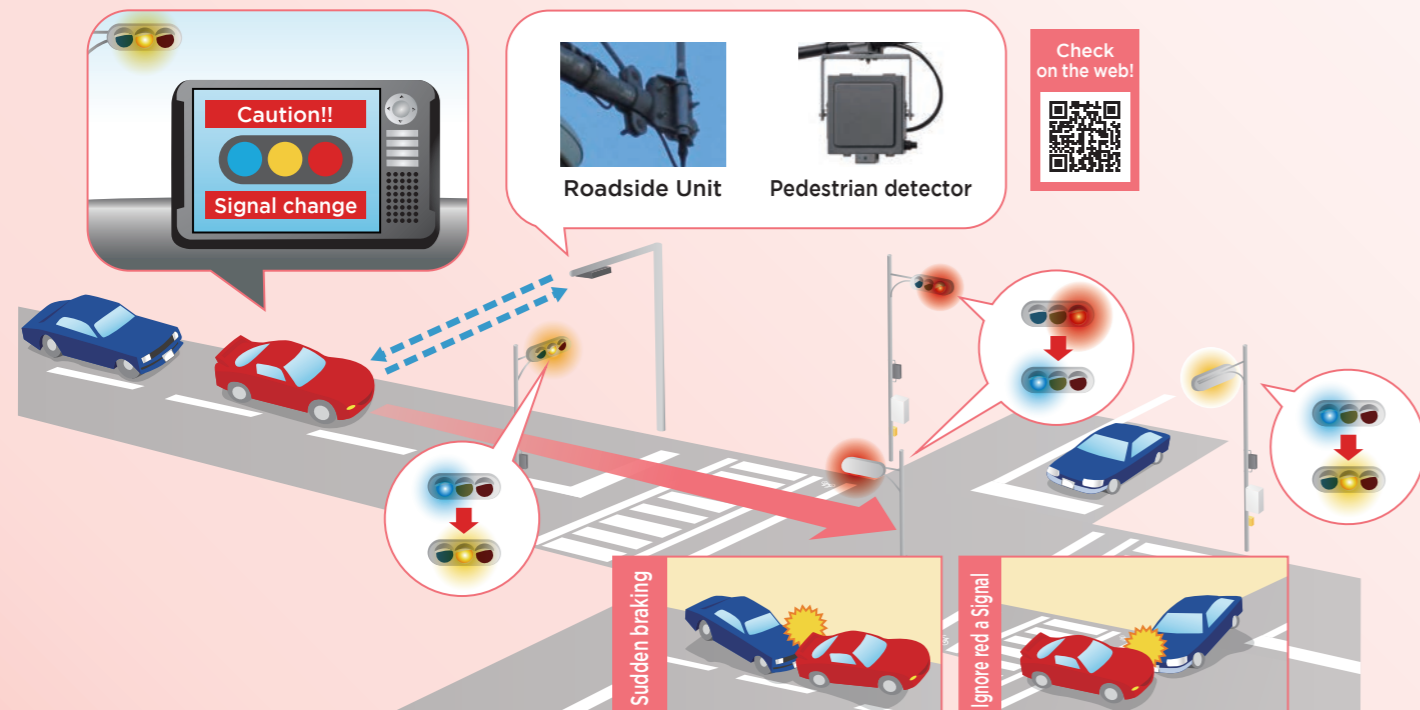
In-vehicle and off-board networks



02 Cooperative Intelligent Transport Systems (C-ITS)

Sumitomo Electric System Solutions

This system alerts drivers to intersection conditions via ITS roadside communication devices and reduces the risk of traffic accidents.



04 Central Gateway ECU

Sumitomo Wiring Systems

In vehicle communication networks with many ECUs, the ECUs are connected via gateways for each functional system to organize signal exchange. In addition, security has been enhanced.



05 Antenna Harness & High-Frequency Connectors

Sumitomo Wiring Systems

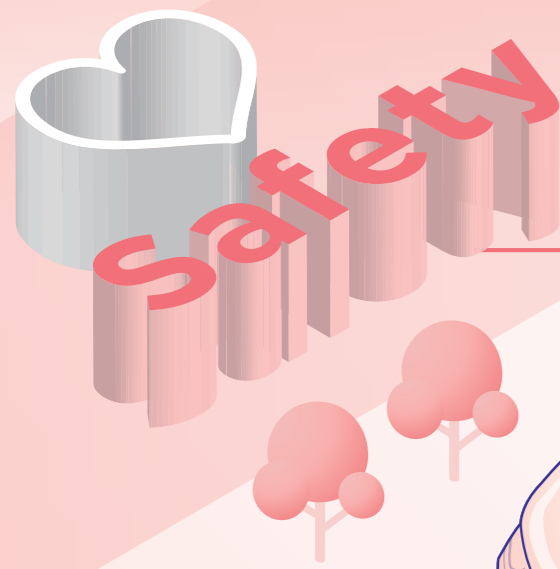
A wiring harness that connects the receiving antenna (e.g., radio, TV, phone, GPS) to the receiver using a high-frequency connector.



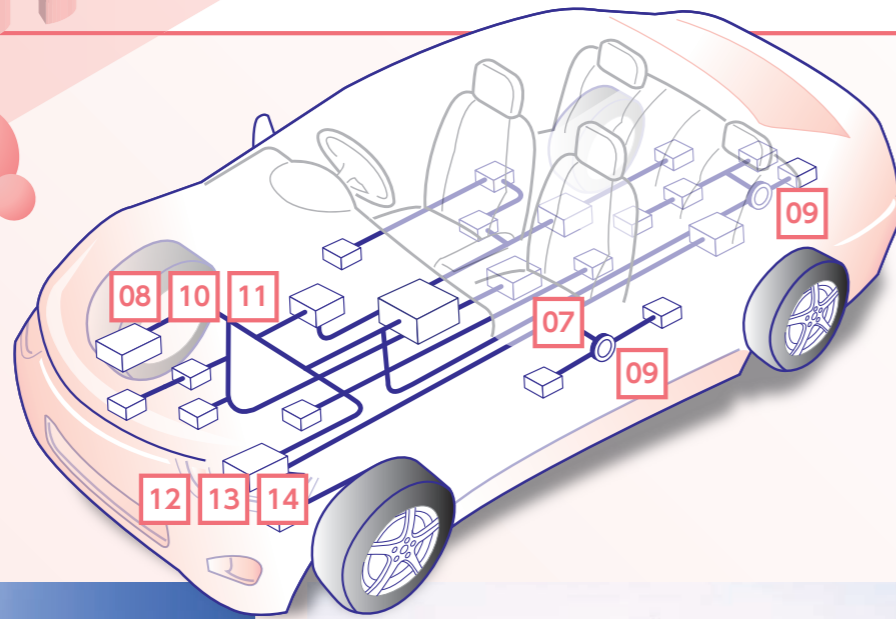
06 Shielded Cables

Sumitomo Wiring Systems

These wires are used in control circuits and sensors for gasoline, hybrid (HEV), plug-in hybrid (PHEV), and battery electric vehicles (BEV). In addition to power transmission, the shielding layer suppresses external noise and prevents circuit malfunction.



Connecting in-vehicle infrastructure



08 **JBs (Junction Blocks)**
Sumitomo Wiring Systems

By incorporating parts such as relays and fuses, as well as components with integrated electrical connection functions, this system provides comprehensive support for electronic control.

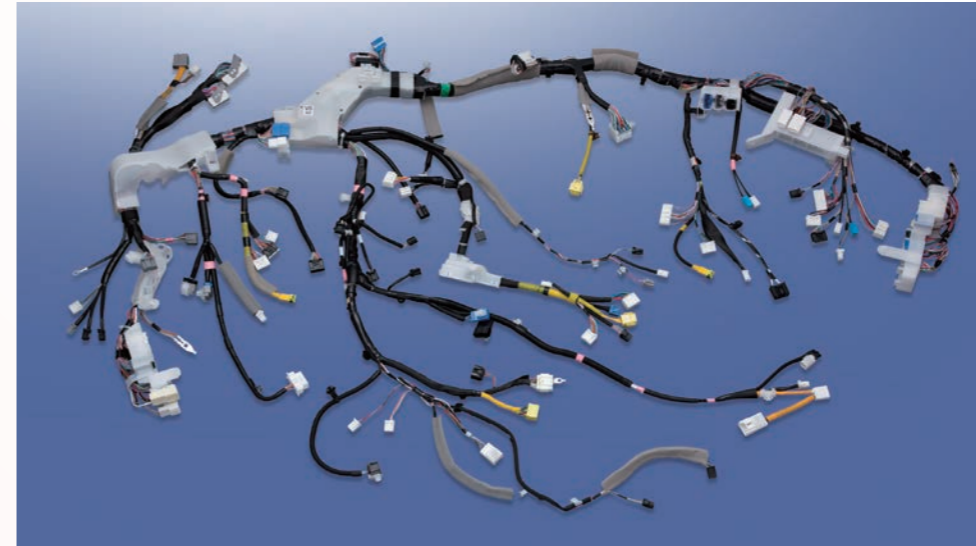


09 **One Motion Grommet**
Sumitomo Wiring Systems

This dash panel rubber grommet is used on wire harnesses passing between the engine compartment and the cabin. It supports one-touch installation and accommodates tight bends while maintaining water sealing. It enables efficient routing in confined spaces and contributes to improved cabin space utilization.

Connecting with high reliability

In-vehicle network



07 **Wire Harness**
Sumitomo Wiring Systems

An electrical wiring system that transmits information and energy is becoming an increasingly important automotive component as electronic control functions in vehicles continue to increase.

07~10

Check on the web!



10 **Waterproof Connector**
Sumitomo Wiring Systems

It delivers reliable performance even when used for wire connections in the engine compartment, where waterproofing is required.



11 **Irradiated Cross-linked Products**
Sumitomo Electric Fine Polymer

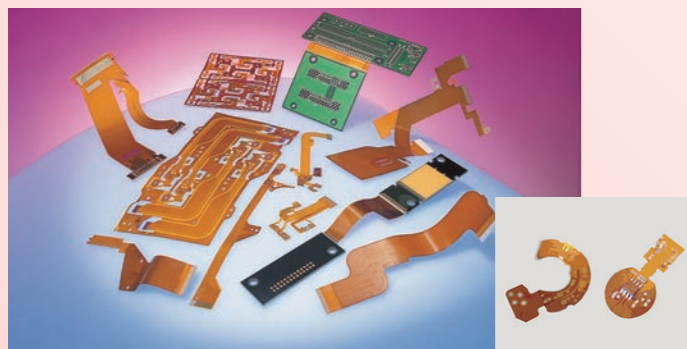
SUMITUBE™ has excellent heat resistance and electrical properties, and is widely used for insulation protection and waterproofing applications in wire harnesses.

Check on the web!



Design for safety

Materials for thinner designs



12 **Flexible Printed Circuit (FPC)**
Sumitomo Electric Printed Circuits

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

Check on the web!



13 **Flexible Flat Cable (FFC)**
Sumitomo(SEI)Electric Wire

FFC (Flexible Flat Cable) is a wiring solution formed by laminating flat conductors with an insulating film. It enables integrated wiring of multi-core circuits, contributing to weight reduction and space savings in automotive systems. We offer a broad product lineup with high-speed transmission performance as well as excellent heat and moisture resistance.

Check on the web!



14 **Porous PTFE Membrane "POREFLON"™ Air Vent**
Sumitomo Electric Fine Polymer

POREFLON™ AIR VENT is a product for precision equipment that utilizes the characteristics of a porous PTFE membrane, allowing venting while preventing water and dust from penetrating.

Check on the web!

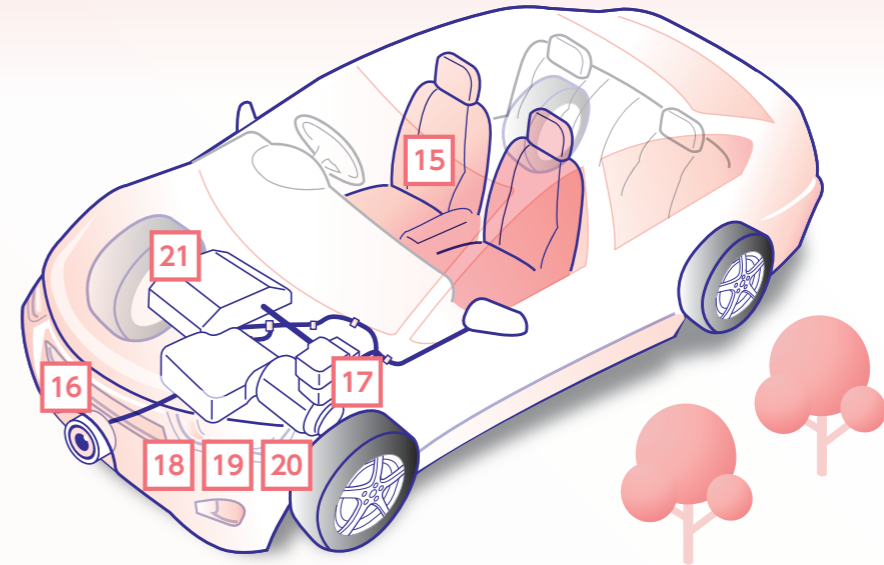




Supports safe driving

Promotes safer driving

Driver monitoring

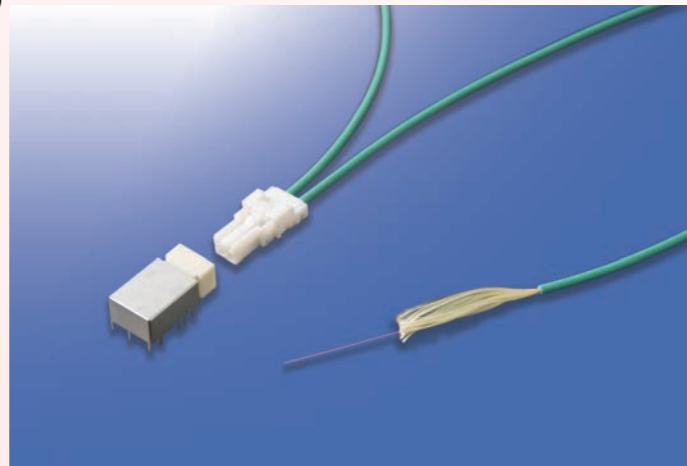


15 Driver Monitoring System

Sumitomo Riko

The occupant's vital signs, such as heart rate and respiration, can be estimated while driving simply by sitting in the seat.

Check on the web!



16 Automotive High Speed LAN

Sumitomo Wiring Systems

With advances in driver assistance technologies such as automated driving, the amount of data needed to monitor the surrounding environment (e.g., video data) grows dramatically. We have developed a high-speed in-vehicle communication harness, offered in metallic and optical types, that transmits this data without delay.



19 Compact and Lightweight Intelligent Power Distribution Module

Sumitomo Wiring Systems

A product for controlling engine startup, the headlamp relay, and the wiper relay.



20 ECU Connector

Sumitomo Wiring Systems

A connector that can be mounted on a printed circuit board. It is suitable for connecting wires and electronic control units.



17 EPB Harness Integrated with Wheel Speed Sensor

Sumitomo Wiring Systems

We integrated a wheel speed sensor with an electric parking brake (EPB) harness. This reduced the number of required parts and vehicle assembly man-hours.



18 Relay Boxes

Sumitomo Wiring Systems

Relay and fuse functions have been implemented using semiconductors. This has enabled further reductions in size and weight.

For critical moments Power Supply



21 Integrated Backup Power Supply for X-By-Wire System

Sumitomo Wiring Systems

It is a backup power supply that can maintain multiple by-wire control functions even in the event of a vehicle power supply failure. It is equipped with a DC/DC converter and an energy storage device (electric double-layer capacitor) to achieve high performance and a high level of integration.

16~21

Check on the web!



Comfort

Deliver a quiet and spacious cabin

Creating a spacious environment

Harness-related

22 High-Performance Wire Harness "e-STEALTH W/H™"

Sumitomo Wiring Systems

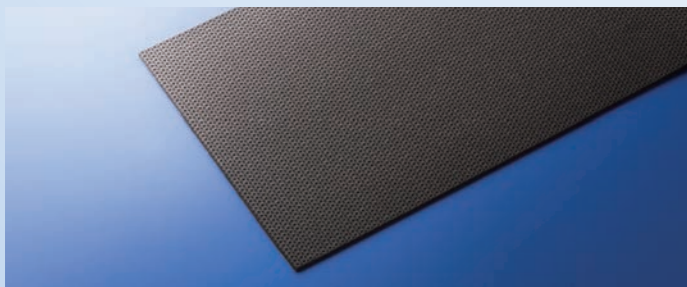
A next-generation flat wire harness that arranges vehicle wiring in a flat layout. By simplifying the harness structure, it enables a higher level of manufacturing automation compared to conventional harnesses, while also achieving weight reduction and space savings. It reduces noise to ensure stable communication and contributes to improved cabin space utilization.

Check on the web!



A quieter, more comfortable drive

Motor / Engine / Tire



23 Sound Absorbing Part Made by Sumitomo Wiring Systems

Sumitomo Wiring Systems

Sumitomo Wiring Systems' sound-absorbing component suppresses unwanted noise caused by interference between wire harnesses and surrounding parts. Its water-resistant design allows installation both inside and outside the vehicle.



24 Anti-Vibration Rubber

Sumitomo Riko

Materials developed using polymer technology combine flexibility, damping, and high reliability to efficiently absorb vibrations from road surfaces, engines, motors, and compressors.

Check on the web!



26 Steel Cords for Tire Reinforcement

Sumitomo Electric, Special Steel Wire Division

We have earned high recognition by bringing new technologies and products to the market in response to diverse needs, such as higher tire performance and improved sustainability.

Check on the web!

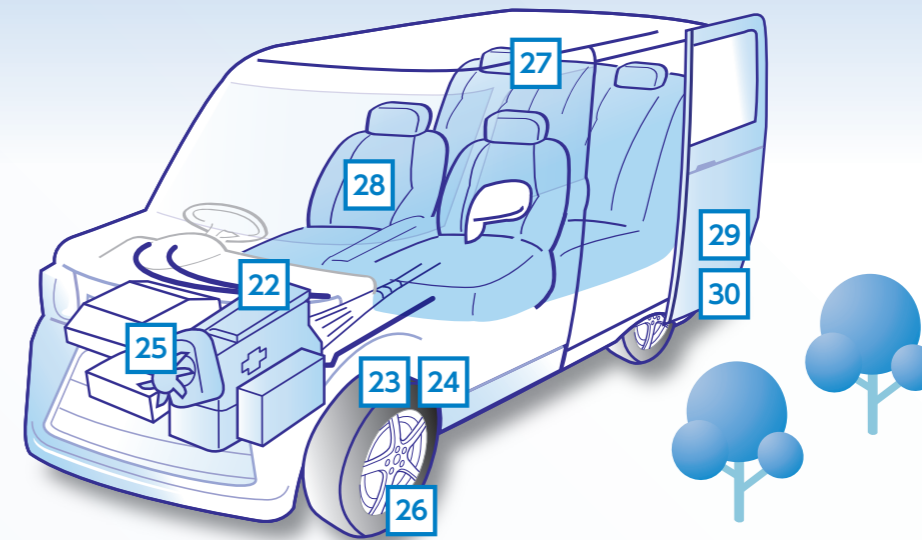


25 Heat-Dissipating Soundproofing Material "MIF™"

Sumitomo Riko

Using Sumitomo Riko's proprietary compounding technology, this heat-dissipating, soundproofing material provides heat dissipation 10 to 50 times greater than that of conventional soundproofing urethane. It also has potential for broader applications, including home appliances.

Check on the web!



23 29 30

Check on the web!



A quieter, more comfortable drive

Acoustic and thermal solutions



27 Thin-Film High-Heat Insulation Material "Finesulight™"

Sumitomo Riko

This thin insulation material, based on silica aerogel, provides high thermal insulation performance even at thicknesses of 1 mm or less. It is lightweight, flexible, and easy to process (e.g., cut), enabling application to complex shapes. It helps block heat transfer both into and out of the vehicle, improving comfort and reducing air-conditioning energy consumption.

Check on the web!



28 Sound Controlling & Insulation Products / Interior Equipment

Sumitomo Riko

Automobiles have many sources of noise, including the engine. Sound-insulation products reduce unwanted noise and help keep the cabin quiet. Our interior products, such as headrests, armrests, and seat backboards, offer excellent shock absorption and a pleasant touch.

Check on the web!



Easier entry and exit

Door control



29 Wiring Harnesses for Sliding Door

Sumitomo Wiring Systems

A wiring harness that constantly supplies power to electrical components in the sliding door, regardless of whether the door is open or closed.



30 Body ECUs

Sumitomo Wiring Systems

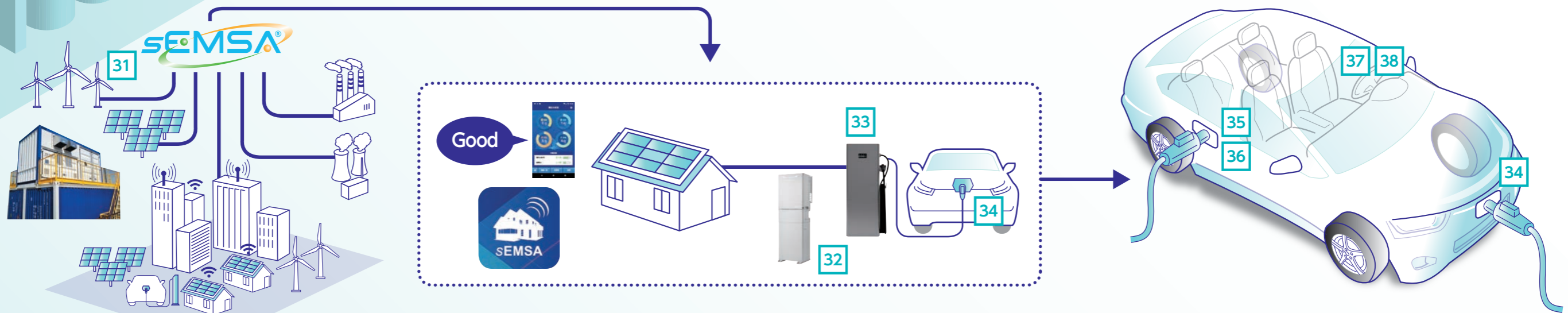
Door locks, keyless entry, headlamps, room lamps, and other functions are part of the electrical unit that controls in-vehicle functions. The control system can be customized depending on the vehicle model.



Integration with renewable energy

Supply energy

Infrastructure supporting BEVs and PHEVs



31 Smart Energy Management "sEMSA™"

Sumitomo Electric

An innovative platform designed to optimize energy use. By leveraging IoT technology, it enables real-time monitoring and control of energy consumption, improving efficiency, reducing costs, and supporting sustainable energy management.

Check on the web!



32 Home Battery System "POWER DEPO™"

Sumitomo Electric

A hybrid residential energy storage system combining a power conversion unit for photovoltaic generation with a lithium-ion battery. It delivers high efficiency and durability while reducing environmental impact through peak shaving. It also provides reliable backup power in the event of a disaster.

Check on the web!



33 sEMSA-V2H

Sumitomo Electric

This device connects an electric vehicle (BEV) to a home energy system, enabling the use of stored BEV power for household supply. It supports efficient energy management, reduces electricity costs, and maximizes the use of renewable energy. It also provides reliable backup power during outages and supports faster BEV charging—up to twice that of conventional systems.

Check on the web!



34 EV Quick-charger Connector

Sumitomo Electric, Electric Wire Energy Business Unit

"SEVD™-22" supports charging up to 400 kW at 1,000 V and 400 A (high current for short durations). Compared with the previous model "SEVD™-11," the connector is 30% lighter, while the IEC-compliant cable is 20% lighter and has a 10% smaller outer diameter. These improvements enhance usability and handling.

Check on the web!



35 Standard Charging Connector, Inlet

Sumitomo Wiring Systems

An AC charging connector for PHEV/BEV applications. It complies with international standards (IEC 62196-1, SAE J1772, and UL 2251).

Check on the web!



36 Quick Charge/Discharge Connector

Sumitomo Electric, Electric Wire Energy Business Unit

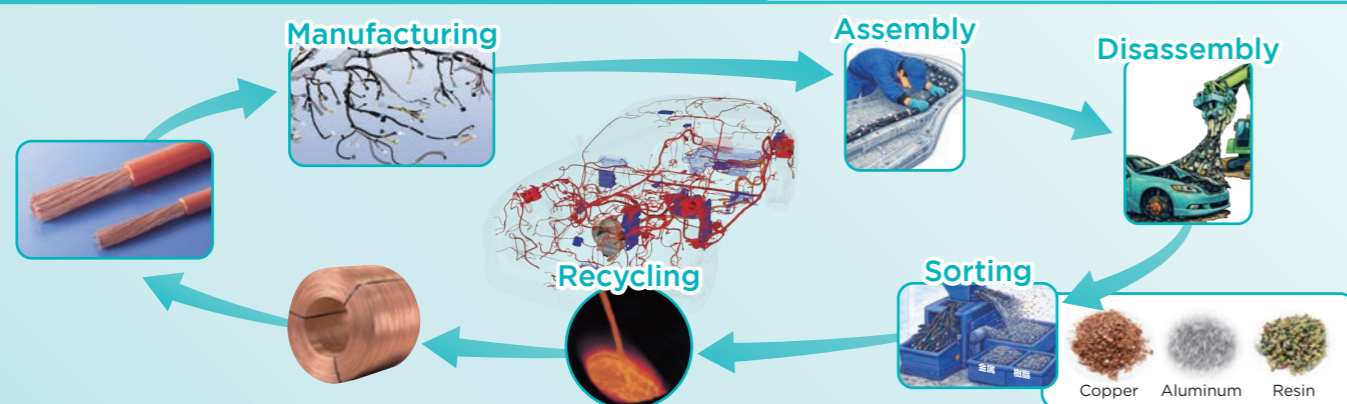
"SEVD™-V3F" is a CHAdeMO-compliant cable assembly with a connector for fast charging and discharging applications. Its highly flexible cable offers excellent handling, and the unit features a compact, simple design suited for residential use.

Check on the web!



Connecting vehicles and society

Waste reduction and resource circulation

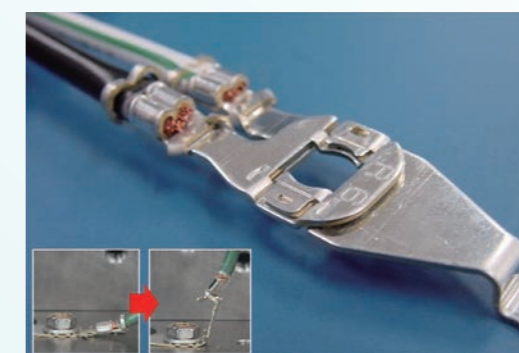


37 Circular Economy

Sumitomo Electric

To support a circular economy, we develop components designed for easy disassembly to reduce waste. We also advance technologies for sorting and recycling end-of-life products.

Check on the web!



38 Easy-Disassembly Terminal

Sumitomo Wiring Systems

A grounding terminal with a breakaway structure that separates when a specified load threshold is exceeded. It facilitates the removal of wire harnesses during vehicle dismantling and contributes to improved resource recovery rates.

Check on the web!

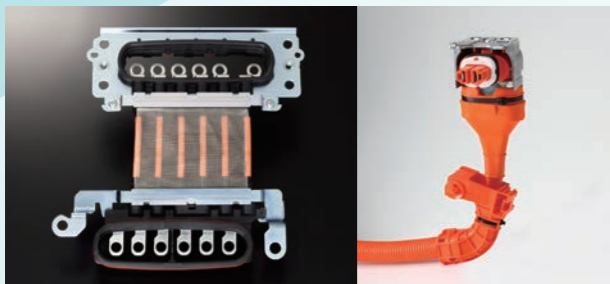




Supporting HEVs, BEVs, and FCEVs

Connecting energy

High-voltage system



39 High-Voltage Connectors

Sumitomo Wiring Systems

A waterproof, electromagnetic-shielded connector for high-voltage wiring. It is used to connect inverters, motors, or batteries.



40 High-Voltage Cable

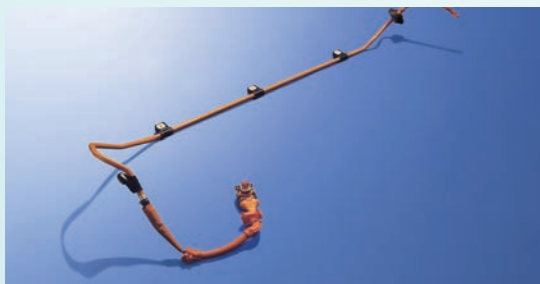
Sumitomo Wiring Systems

In consideration of the environment, halogen-free materials or lead-free PVC are used. With excellent flexibility, it is suitable for wiring that requires long high-voltage routing.

Check on the web!



39~41
43 45 46



41 High-Voltage Under-floor Harness

Sumitomo Wiring Systems

A DC high-voltage wiring harness that connects the high-voltage battery to the inverter in the engine compartment. It uses aluminum pipes formed into a three-dimensional structure with shielding and protective functions.



42 Resin Tube for BEV Cooling Piping

Sumitomo Riko

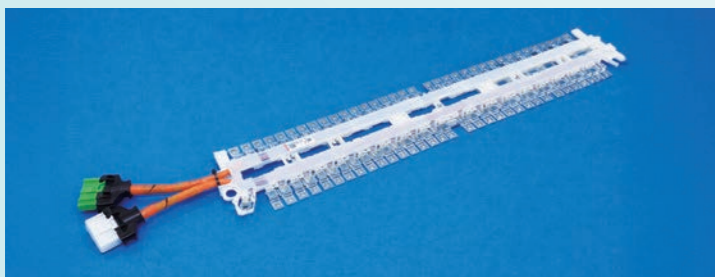
A new resin tube for underfloor and e-Axle routing replaces conventional rubber hoses, achieving approximately 80% weight reduction. It supports long routing lengths, optimizes coolant flow and cooling performance, and helps extend battery life.

Check on the web!



Energy storage

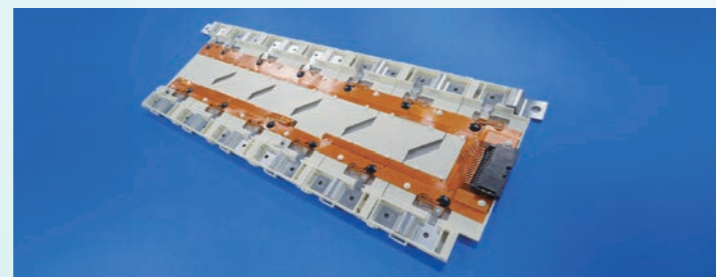
Battery-related products



43 Battery Wire Module for HEVs

Sumitomo Wiring Systems

A component designed for the series connection of high-voltage HEV batteries, with a voltage detection terminal and harness integrated within a resin case, enabling connector-based connection to the battery ECU.



44 Battery Wire Module for BEVs

Sumitomo Wiring Systems

A component for BEV high-voltage batteries that enables high-density, thin wiring through the use of FPCs. It helps reduce battery pack thickness and addresses space constraints as capacity and cell count increase to extend driving range.

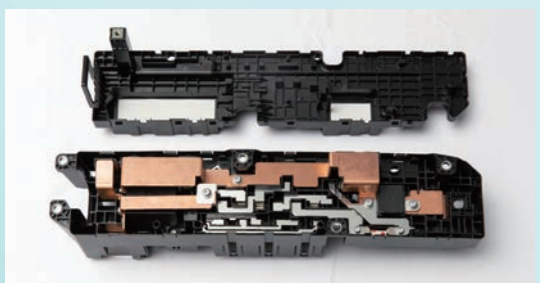
Check on the web!



45 Power Supply BOX

Sumitomo Wiring Systems

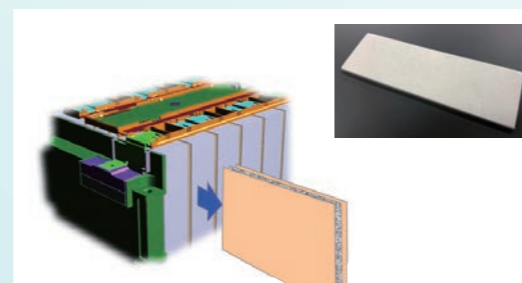
A power supply box for HEV/BEV applications installed within the high-voltage battery. It integrates functional components such as relays, resistors, fuses, and current sensors to enable supply, cutoff, and distribution of high-voltage power.



46 High-Voltage Junction Box

Sumitomo Wiring Systems

It is equipped with a function that checks the electrical circuit connections in the battery pack and shuts down the circuit when a connection failure is detected. Technology capable of managing heat generated by concentrated circuits is required.



47 Insulation for between Battery Cells

Sumitomo Riko

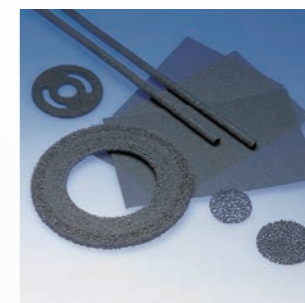
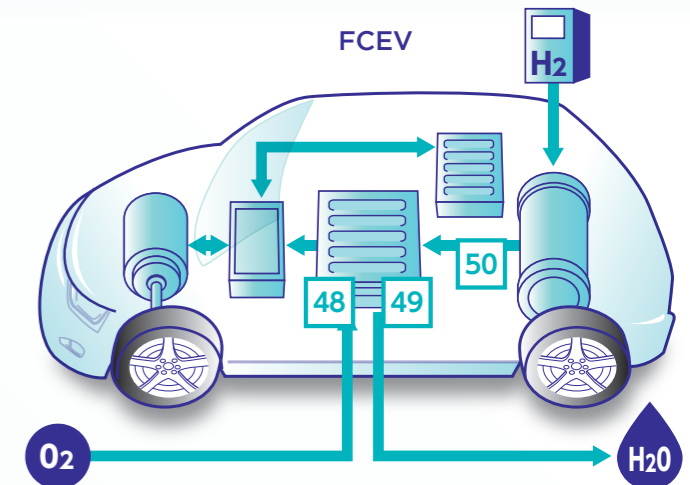
This is a single-layer insulation material placed between battery cells, combining thermal insulation performance that suppresses the propagation of thermal runaway to adjacent cells with compression characteristics that accommodate cell expansion and contraction during charging and discharging. It contributes to improved safety and a longer service life for automotive batteries.

Check on the web!



Hydrogen fuel solutions

FCEV-related products



48 Porous Electrode "CELMET" for FC stack

Sumitomo Electric Toyama

Three-dimensional porous metal parts for fuel cell stack electrodes. They offer advantages such as low electrical resistance and reduced pressure loss due to high porosity and a large surface area.

Check on the web!



49 Fuel Cell Gaskets

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)

49 50

Check on the web!



50 Hydrogen Hoses

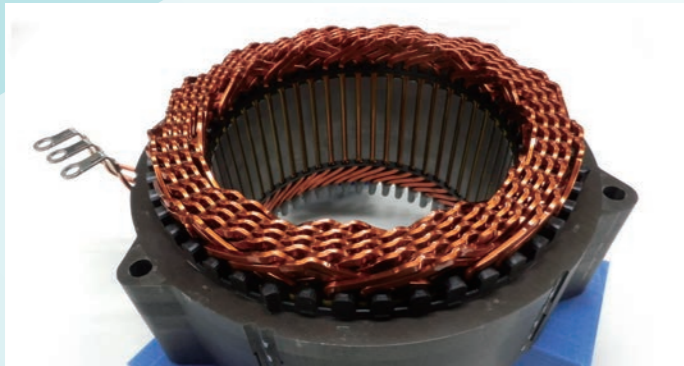
Sumitomo Riko

Hydrogen hoses are used to transport small gas molecules that are difficult to seal at high pressure. Installed in fuel cell electric vehicles (FCEVs), these hoses require a high level of reliability and durability to ensure that hydrogen does not leak outside the vehicle under any circumstances.

Supporting mobility: Motors and e-Axles

Generating driving force

Motor, inverter, and e-Axle products



51 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.



52 Motor Mount

Sumitomo Riko

It supports the motor and reduces vibration and noise from the motor and gears.



53 Heat- and Oil-Resistant Wires

Sumitomo (SEI) Electric Wire

We develop and manufacture 200°C heat- and oil-resistant wires for applications requiring high oil resistance, such as oil-cooled e-Axles. Our product lineup includes ARX-9 for resolvers and thermistors, as well as TERX (Z), a flexible wire that can serve as an alternative to busbars in motor drive sections.



54 High-Performance, Sustainable Soft Magnetic Composite Cores

Sumitomo Electric Sintered Alloy

Soft magnetic powder cores offer excellent magnetic properties and high design flexibility, contributing to improved performance and efficiency in traction motors and auxiliary electric machines. They also reduce CO₂ emissions during manufacturing and enable closed-loop recycling into equivalent-performance soft magnetic cores after use.



Component processing

Quality improvement



55 Shaped Wire Drawing Diamond Dies for square wires for motors

A.L.M.T.

These tools form winding wire into various square shapes. With higher copper packing than round wire, they improve motor/coil output per unit volume and enable more compact, lightweight motors.



56 Planetary Carrier

Sumitomo Electric Sintered Alloy

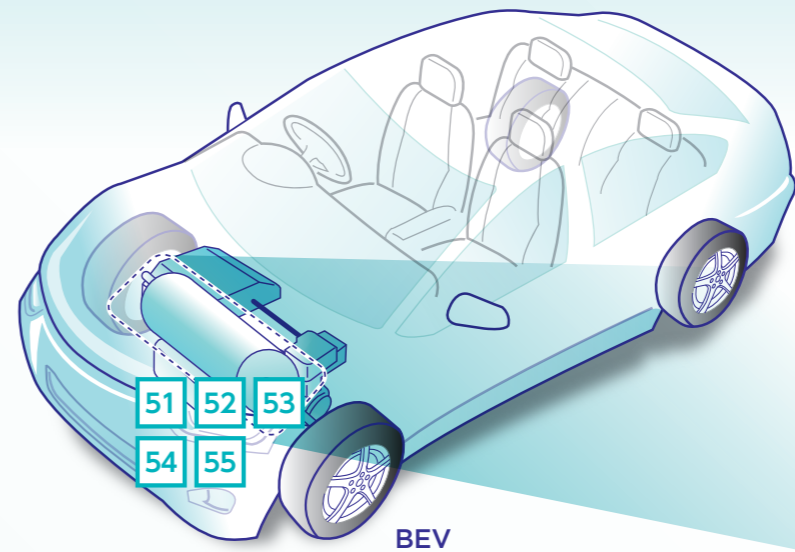
Planetary carriers are one of the components of the planetary gear mechanism used in BEV e-axle reduction drives. By molding two or more components and assembling them to net shape, window and spline dimensions can be achieved without machining.



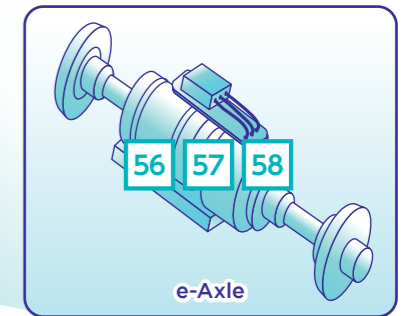
58 Diamond Grinding Wheels for SiC Wafers

A.L.M.T.

These diamond grinding wheels are used for thickness grinding of increasingly large-diameter SiC wafers. They contribute to the wider adoption of SiC power devices by enabling low-damage machining, long wheel life, and lower costs.



BEV



e-Axle



57 Heat spreaders for Power Semiconductors

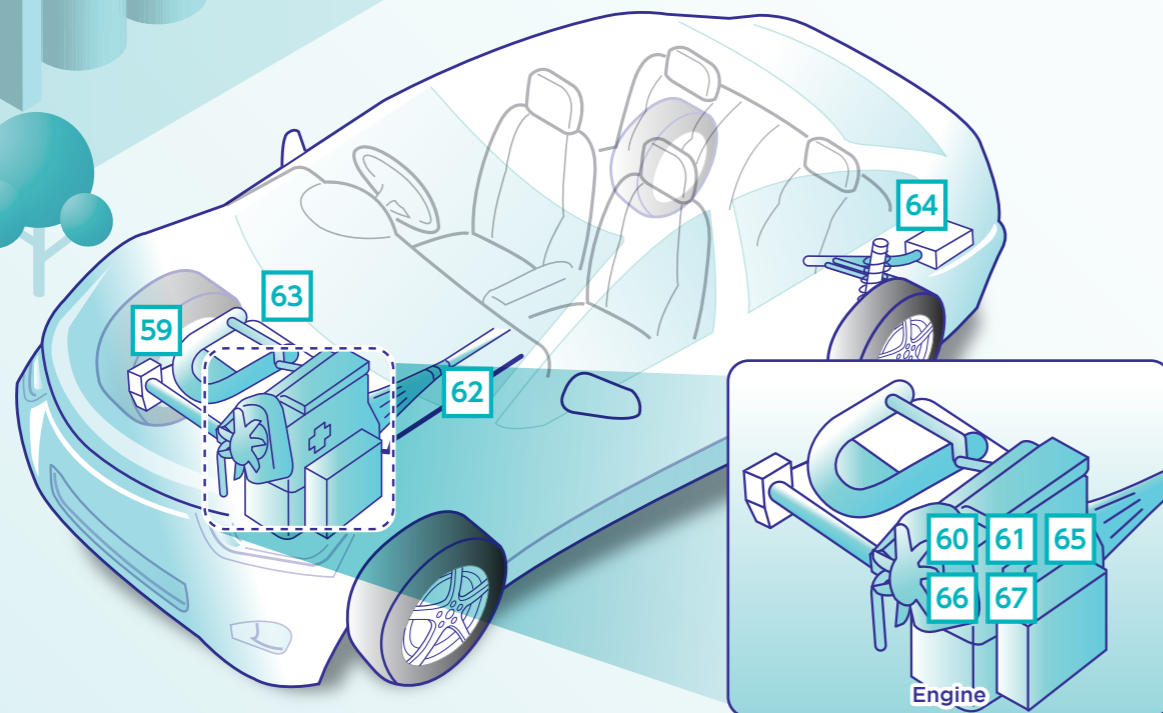
A.L.M.T.

These heat spreader materials for semiconductors offer high thermal conductivity and low thermal expansion. They reduce thermal stress in high-performance power semiconductors such as SiC and GaN, improving system reliability.





Supporting environmentally friendly engines



Compliance with environmental regulations

High-performance materials



59 Hoses

Sumitomo Riko

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

Check on the web!

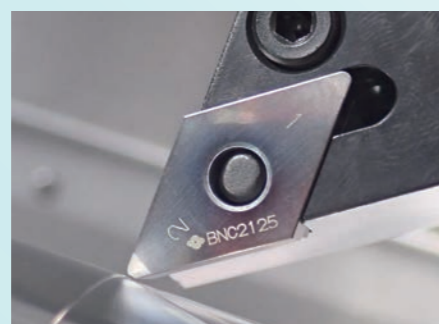


60 Ni-Free High-Strength Sintered Materials

Sumitomo Electric Sintered Alloy

The newly developed Ni-free sintered material offers strength equal to or greater than that of conventional high-alloy materials at lower cost, thereby mitigating nickel-related price increases and supply risks. It has been applied to various automotive parts and helps reduce alloy content.

Check on the web!



61 High-Hardness Tool Materials "SUMIBORON™, SUMIDIA™"

Sumitomo Electric Hardmetal

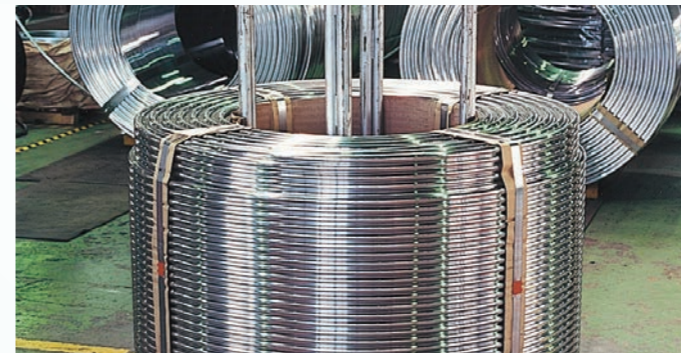
SUMIBORON™ is a cutting tool made from a cubic boron nitride (cBN) sintered body produced using our proprietary high-pressure/high-temperature sintering technology. It contributes to low power consumption in high-productivity, high-precision machining of hardened steel and cast iron.

Check on the web!



Improved fuel and energy efficiency

Lightweighting and reduced drivetrain loss



62 Aluminum Alloy Wire and Rods for Forging and Machining

Sumitomo Electric Toyama

Aluminum-alloy wire and bar for forging and machining are produced using a unique continuous cast-rolling method and contribute to the weight reduction of automotive parts. Compared with the extrusion method, finer grain sizes and larger coils (max. 2 t) are available. This enables high forgeability and machinability, resulting in higher yield and productivity.

Check on the web!



65 Oil Pump Rotors

Sumitomo Electric Sintered Alloy

Internal gear pump rotors are powder metallurgy parts widely used in oil pumps for automobile engines, automatic transmissions, continuously variable transmissions, lubrication systems for HEV power-split mechanisms, and electric pumps for BEVs. Our pump rotors can reduce driving torque, noise, and the size of this automotive equipment due to our original rotor tooth profile.

Check on the web!



63 High-Strength Aluminum Harness

Sumitomo Wiring Systems

We developed the world's first aluminum wire with higher strength and flexibility than conventional thin twisted-conductor aluminum wire. It can be used in sections subject to vibration or bending and enables a reduction in wire size.

Check on the web!

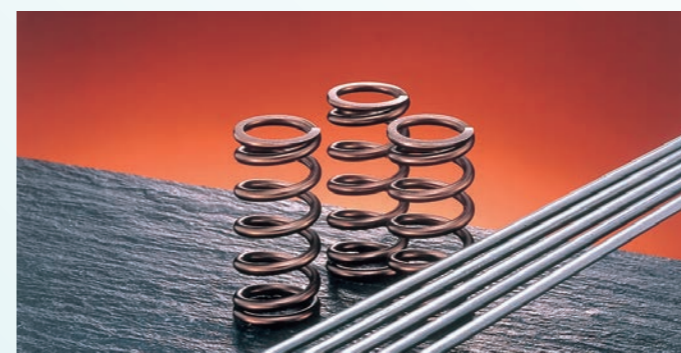


66 Ceramic Coating

Nippon ITF

DLC is a ceramic coating with excellent friction-reduction properties, greatly contributing to environmental and energy-related applications.

Check on the web!



64 High-Strength Oil Tempered Wire

Sumitomo Electric, Special Steel Wire Division

By applying state-of-the-art technologies and a well-established quality management system, our product delivers outstanding performance and stable quality. It helps reduce vehicle weight.

Check on the web!



67 Cross-Linked Fluoropolymer "FEX™"

Sumitomo Electric Fine Polymer

FEX™ is a fluororesin product that offers significantly improved wear resistance through our proprietary manufacturing process. It retains the inherent properties of conventional fluororesins, including low friction, heat resistance, oil resistance, and chemical resistance.

Check on the web!

