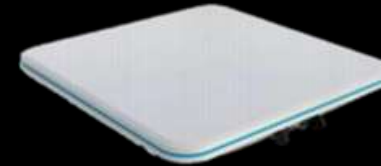




Rancommunication *Global*

A Wire & Wireless Infrastructure and Automotive Solutions Company



Introduction

Company Overview

Rancommunication Global was founded and is managed by a group of elite Wireless Infrastructure, Fiber Optic and Automotive Industry professionals to strategize, design and manufacture high quality and high-performance radio frequency, fiber optic and automotive solutions and products.

Each connection point, from antennas to interconnect solutions to fiber optic components, is critical to the performance of your wired and wireless network. That is why at Rancommunication Global we are committed to providing our customers with most reliable, industry leading products built on innovations.

We understand the complexity of managing large amounts of data that must be transferred quickly and safely. In times when bandwidth services are more demanding, our broad portfolio of Wireless, Fiber Optic, Automotive and Coaxial cabling systems will ensure the transmission and processing of your most valuable asset, the data.

Headquarters

- Netherlands
- Singapore



Operating Units

- Rancom Wireless
- Rancom Automotive Solutions
- Rancom SatCom
- Rancom Fiber Optic Solutions
- Rancom Green Energy



Product Range



Antennas

- Base Station
- Omni-Directional
- DAS & Small Cell
- Massive MIMO
- Front- & Back-Haul mmWave
- Satcom/6G



Mobile Broadband

- IOT
- CPE (4G, 5G)
- Wireless Routers (ONT, ONU)
- Repeaters
- Digital DAS
- Unlicensed Band Radio



Services

- RF Planning
- Macro site field services
- IBS planning & site services
- Wireline planning & field services



Automotive

- Telematics
- High Voltage Cable
- Busbar
- Sensors
- Antennas
- ESA



Fiber Optics

- Photos Technologies
- FTTx Active Solutions
- FTTx Passive Solutions



High Frequency & High Performance RF

- 20-130 GHz for Military & Aerospace
- Quantum computing
- EMC & Fiber Optic Testing
- Commercial 5G
- Automotive Applications



Industrial Interconnect Solutions

- Rail system – traction, coupling, braking
- Off-shore
- Civil aviation



Green Energy

- Lithium Battery
- Solar Invertors
- Hydrogen-Based Solutions



6

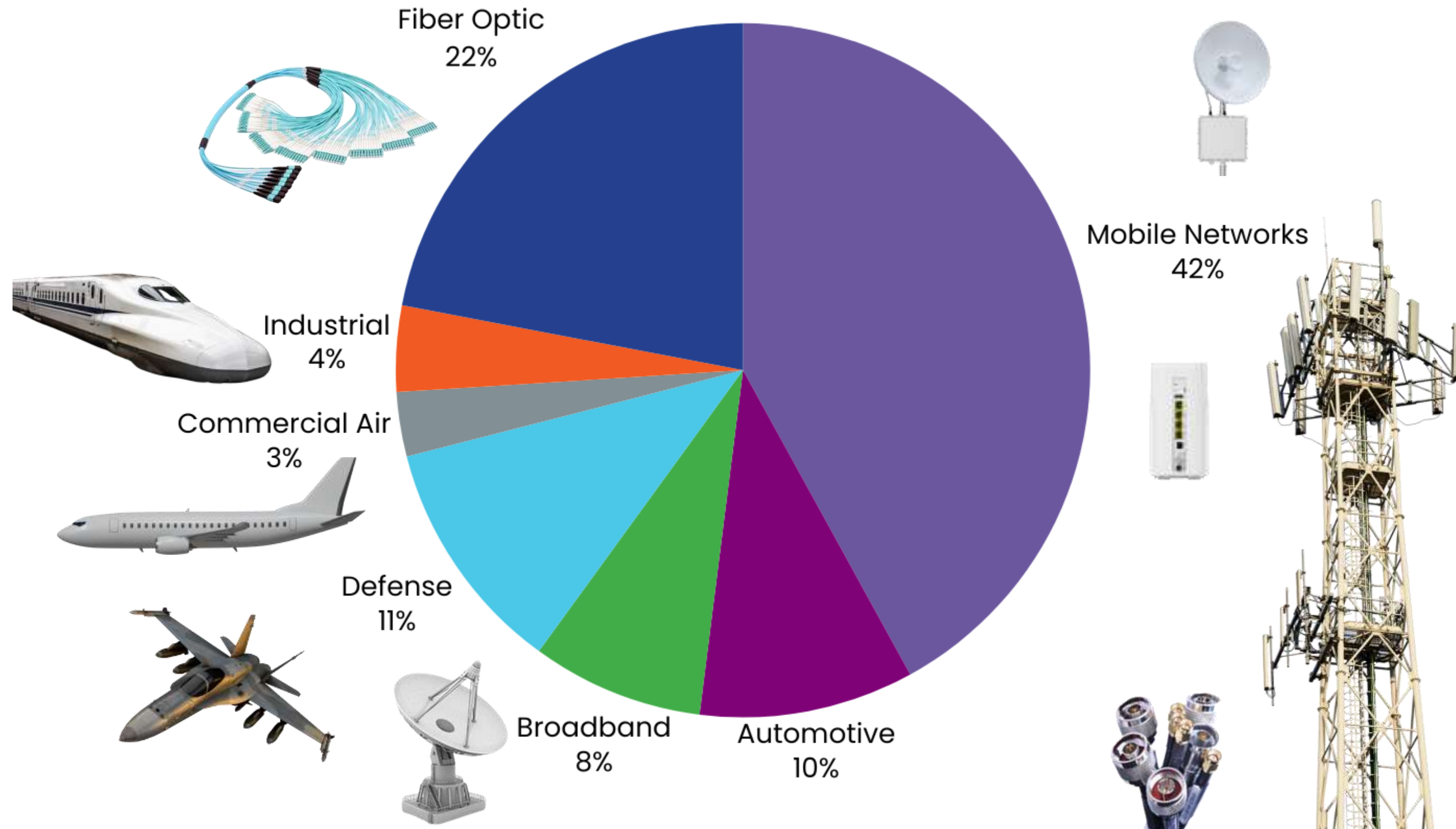
Operating Divisions

4,854

Employees

168

R & D engineers



Market
Diversification

Global Presence



-  Headquarters
-  R & D
-  Manufacturing
-  Sales & Distribution



Customer Base



Wire- & Wireless Infrastructure



Automotive



Appliance/Industry



India Presence



Rancommunication Solutions Private Limited

Registered Address: Unit No. 8, 38-DLF Industrial Area, Kirti Nagar, New Delhi-110015

CIN: U26300DL2024PTC429179

Social Responsibility

Customer Satisfaction Through People Dedicated to Excellence

- Our Goal is to exceed our customer expectations through the quality of our products and services. This is achieved through our drive for continuous improvement in quality, design, cost and delivery
- Quality and Quality Improvement is every Rancom Wireless employees' responsibility and ultimate goal
- Our directives, processes, systems and goals are based on requirements from International standards, the expectations of our customers, our knowledge and experience. Knowledge of and compliance with these directives and processes is the foundation of our improvement activities
- Preventing failures is more important than stopping defects. We apply methods and tools from preventative Quality Assurance in a systematic way, learning from opportunities to eliminate root causes without delay
- Our suppliers contribute substantially to the quality of product and services, therefore, our suppliers must live up to the same high quality standards we have adopted
- Communication and employee empowerment is the cornerstone of our principles; this is accomplished by our ongoing commitment to training and our employees' direct involvement in continuous improvement





Automotive



One-Stop Shop Vertically Integrated Manufacturing Solution Provider with an extensive portfolio of automotive products



Automotive

Capabilities



Production Area

32,000 m2



Headcount

Staff : 100 (11 %)

Engineering : 120 (13%)

Quality staff: 100 (11 %)

Operators: 580 (65%)



Operations

P1 Precision Components

P2 Electronic Products

P3 Connectors and
Cable Assemblies



1-Stop Shop

R&D

Tooling Fabrication

Precision Components

Product Assembling,

Inspection & Verification

Automotive

Operations & Capacity

High flexibility and vertically integrated manufacturing capabilities enable a quick response to customer needs and to provide customers with high quality products and solutions.



 Product Lines	Precision Components • Zinc/Aluminum Die-casted Part • Stamping and Injection Molding Part • Optical Modules Structural Parts	Electronics & Switch Modules • Switch Modules & Smart Control Knobs • Encoders & Potentiometers & Switches	Connectors & Cable Assemblies • Telematic Connectors • Cable Assemblies
 Equipments/ Assembly Lines	• Plastic: 10~200 tons • Stamping: 3 ~ 160 tons • Zinc Die-casting: 25~ 170 tons • Aluminum Die-casting: 180~ 500 tons	• Lean production lines • Automated production lines	• Lean production lines • Automated production lines
 Monthly Capacity (pcs)	• Precision Components : 91000K <i>Expansion Capacity Ratio: 40%</i>	• Switch Modules & Smart Control Knobs: 500K • Encoders & Potentiometers & Switches: 7000K	• Connectors & Cable Assemblies 2200K <i>Expansion Capacity Ratio: 100%</i>
 Others	• Center Department • Automated Assembly Workshop • Tooling Fabrication Center • In-house laboratory	• Internal R&D expertise • Automated assembly Workshop • In-house laboratory	

Automotive

Quality Certification

Lean Manufacturing & Quality Assurance

Lean-manufacturing offers competitive products to meet with market and customer needs; High quality requirements with strict goals in QA, QC and QS.



IATF16949



ISO9001



ISO14001



IECQ QC 080000



D-U-N-S



Product quality refers to how well a product satisfies customer needs, serves its purpose and meets industry standards. We have passed IATF16949, ISO9001, ISO14001, IECQ QC080000 and other quality system certifications. Our product quality control is implemented in strict accordance with specific industry requirements for automotive and communication industries.

Automotive

Products – Switches/Telematic/Electronic/Precision

Product Development & Innovation

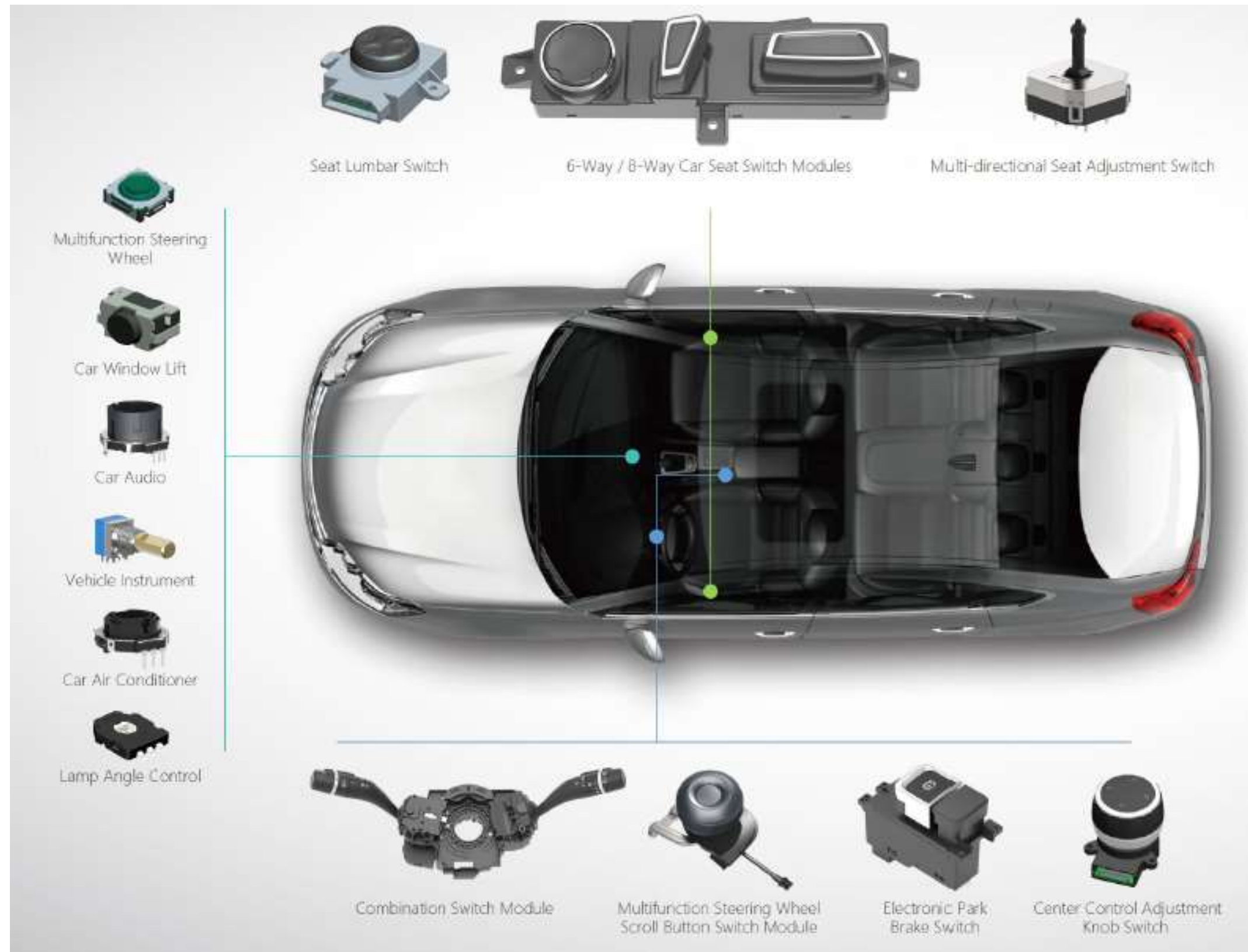
Rancommunication Global offers a comprehensive range of telematic connectors and cable assemblies, electronic products ranging from Automotive Switch Modules, Smart Control Knobs, Encoders, Potentiometers, Switches as well as precision components containing Die-casting, Stamping Injection Molding and Over-molded parts.

Our diversified product lines are widely utilized in the fields of automotive, smart home appliance, (5G) communication, etc.



Automotive

Products – Switches & Modules



Switches & Modules

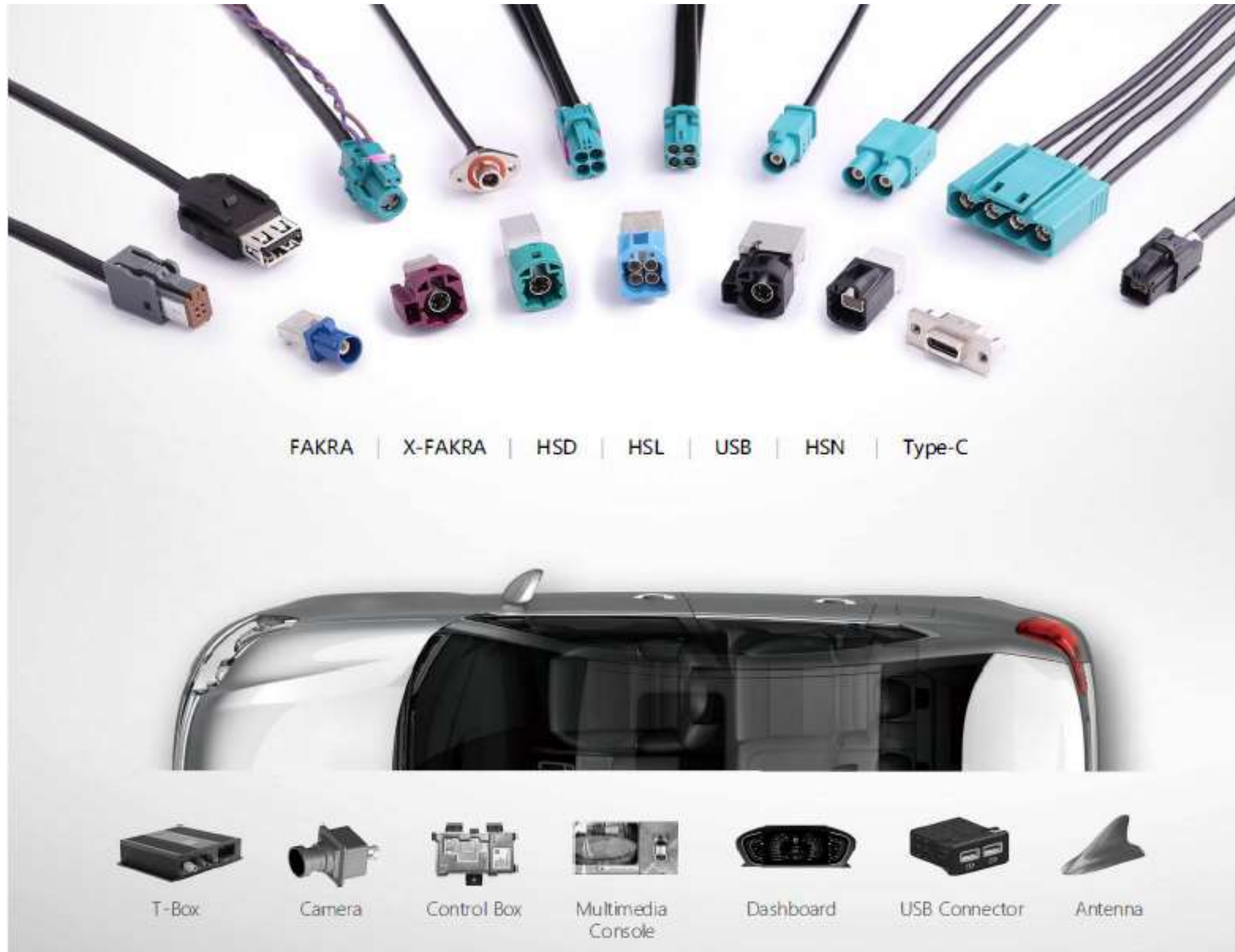
- Car Seat Adjustment Switch Module
- Combination Switch Module
- Multifunction Steering Wheel Scroll Button Switch Module
- Electronic Park Brake Switch
- Center Control Adjustment Knob Switch
- Encoder, Potentiometer, Switch

Application Area

- Car Seat Adjustment
- Car Seat Heating
- Multifunction Steering Wheel
- Electrical Parking Brake
- Car Window Lift
- Car Audio
- Vehicle Instrument
- Car Air Conditioner
- Lamp Angle Control

Automotive

Products – Telematic



Telematic Connectors & Cable Assemblies

- FAKRA
- X-FAKRA
- HSD
- HSL/USB
- HSN (Ethernet Series)
- Type-C

Application Area

- 360° Surround View Camera
- Advanced Driver Assistance System (ADAS)
- In-Vehicle Infotainment System
- Telematics
- Wireless Communication
- Autonomous Driving System
- Automotive Instrument Cluster
- GPS Navigation
- RF Bluetooth
- Radio Antenna

Automotive

Products – Electronic



Electronic Product Series

- Encoders
- Potentiometers
- Switches

Application Area

- Home Appliance
- 5G Communication
- Automotive
- Electronic Audio Equipment

Automotive

Products – Precision Components

Die-casted Parts



Injection Molding Parts



Stamping Parts



Over-molded Parts



Precision Optical Modules Structural Parts



Precision Component Series

- Zinc/Aluminum Die-casted Parts
- Precision Injection Molding Parts
- Precision Stamping Parts
- Precision Over-molded Parts
- Precision Optical Modules
- Structural Parts

Application Area

- Automotive
- Communication
- Home Appliances
- Optical Camera Module
- Security
- Smart Device
- Consumer Electronics
- Transportation

Automotive

Customer Satisfaction

Core Competitive Advantages

Vertically Integrated Manufacturing	Full-process design and manufacturing system Efficient coordination among business units In-house components manufacturing Internal control of production processes
R&D Customized Solutions	Considerable experience in independent R&D Follow the market and fulfill customer needs Actively responds to customer needs Product solutions and full-process services
Automation Focus	Self-owned automation engineering team Complete automation equipment Continued investment in automation Optimizing automated equipment and process
MES	MES (Manufacturing Execution System) WMS (Warehouse Manage System) QIS (Quality Information System)

Customer Satisfaction

- ✓ Cost
- ✓ Service
- ✓ Quality

- ✓ Technical Innovation
- ✓ Cost
- ✓ Quality

- ✓ Cost
- ✓ Quality
- ✓ Service

- ✓ Quality
- ✓ Service
- ✓ Cost

Automotive

High Voltage Cables

High Voltage Cables ensure reliable power supply in the vehicle. Rancommunication Global's single- and multi-core cables are available in shielded and unshielded versions for all application relevant temperature ranges.

Only materials that meet the high requirements that are placed on vehicles with alternative drive systems in terms of electrical, mechanical, thermal and chemical properties are used.

Benefits

Life Cycle

Long life span in various temperatures and climates. Up to 20 year life span at 105° C and can meet short-term temperature resistance up to +250°C.

Shield Effectiveness

Limits interference of data and electrical connections in automobiles.

Flexible, Anti-Cracking

Simulation on the long-term use under different bending radius (2D~5D) in outdoor, normal and high temperature environment ensure the long-term stability of the cables.

Insulation Materials

Employ specially selected insulation materials for high voltage applications (thermoplastic elastomers, crosslinked polymers, silicone) that all meet with RoHS, REACH.

High Mechanical Strength

Copper or Aluminum Conductor

Automotive

High Voltage Cables

125° C Series



125°C Copper, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Unscreened
Insulation material: XLPO
Conductor material: Copper



125°C Copper, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 600 V AC / 900 V DC
Type: Single-core, Screened
Insulation material: XLPO
Conductor material: Copper



125°C Copper, XLPO Insulation, Multi-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 600 V AC / 900 V DC
Core: Multi-core, Unscreened
Insulation material: XLPO
Conductor material: Copper



125°C Copper, XLPO Insulation, Multi-Core, Screened, High Voltage Cables

Range: -40° C to +125° C
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125°C Copper, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Unscreened



125°C Copper, XLPO Insulation, Single-Core, Screened, High Voltage Cables

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Conductor material: Copper



125°C Copper, XLPO Insulation, Multi-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 1000 V AC / 1500 V DC
Core: Multi-core, Unscreened
Insulation material: XLPO



125°C Copper, XLPO Insulation, Multi-Core, Screened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 1000 V AC / 1500 V DC
Core: Multi-core, Screened
Insulation material: XLPO
Conductor material: Copper



125°C Aluminum, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Unscreened
Insulation material: XLPO
Conductor material: Aluminum



125°C Aluminum, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Screened
Insulation material: XLPO
Conductor material: Aluminum



125°C Aluminum, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Unscreened
Insulation material: XLPO
Conductor material: Aluminum



125°C Aluminum, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +125° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Screened
Insulation material: XLPO
Conductor material: Aluminum

Automotive

High Voltage Cables

150° C Series



150°C Copper, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +150° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Unscreened
Insulation material: XLPO
Conductor material: Copper



150°C Copper, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +150° C
Voltage: 600 V AC / 900 V DC
Type: Single-core, Screened
Insulation material: XLPO
Conductor material: Copper



150°C Copper, XLPO Insulation, Multi-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +150° C
Voltage: 600 V AC / 900 V DC
Core: Multi-core, Unscreened
Insulation material: XLPO
Conductor material: Copper



150°C Copper, XLPO Insulation, Multi-Core, Screened, High Voltage Cables

Range: -40° C to +150° C
Voltage: 600 V AC / 900 V DC
Core: Multi-core, Screened
Insulation material: XLPO
Conductor material: Copper



150°C Copper, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +150° C
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150°C Aluminum, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +150° C
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Conductor material: Aluminum



150°C Aluminum, XLPO Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +150° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Unscreened
Insulation material: XLPO
Conductor material: Aluminum



150°C Aluminum, XLPO Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +150° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Screened
Insulation material: XLPO
Conductor material: Aluminum

Automotive

High Voltage Cables

180° C Series



180°C Copper, Silicone Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Unscreened
Insulation: High Tear Resistant
Silicone
Conductor material: Copper



180°C Copper, Silicone Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 600 V AC / 900 V DC
Type: Single-core, Screened
Insulation: High Tear Resistant
Silicone
Conductor material: Copper



180°C Copper, Silicone Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Unscreened
Insulation: High Tear Resistant
Silicone
Conductor material: Copper



180°C Copper, Silicone Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 1000 V AC / 1500 V DC
Core: Single-core, Screened
Insulation: High Tear Resistant
Silicone
Conductor material: Copper



180°C Aluminum, Silicone Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Unscreened
Insulation: High Tear Resistant
Silicone
Conductor material:
Aluminum



180°C Aluminum, Silicone Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +180° C
Voltage: 600 V AC / 900 V DC
Core: Single-core, Screened
Insulation: High Tear Resistant
Silicone
Conductor material:
Aluminum



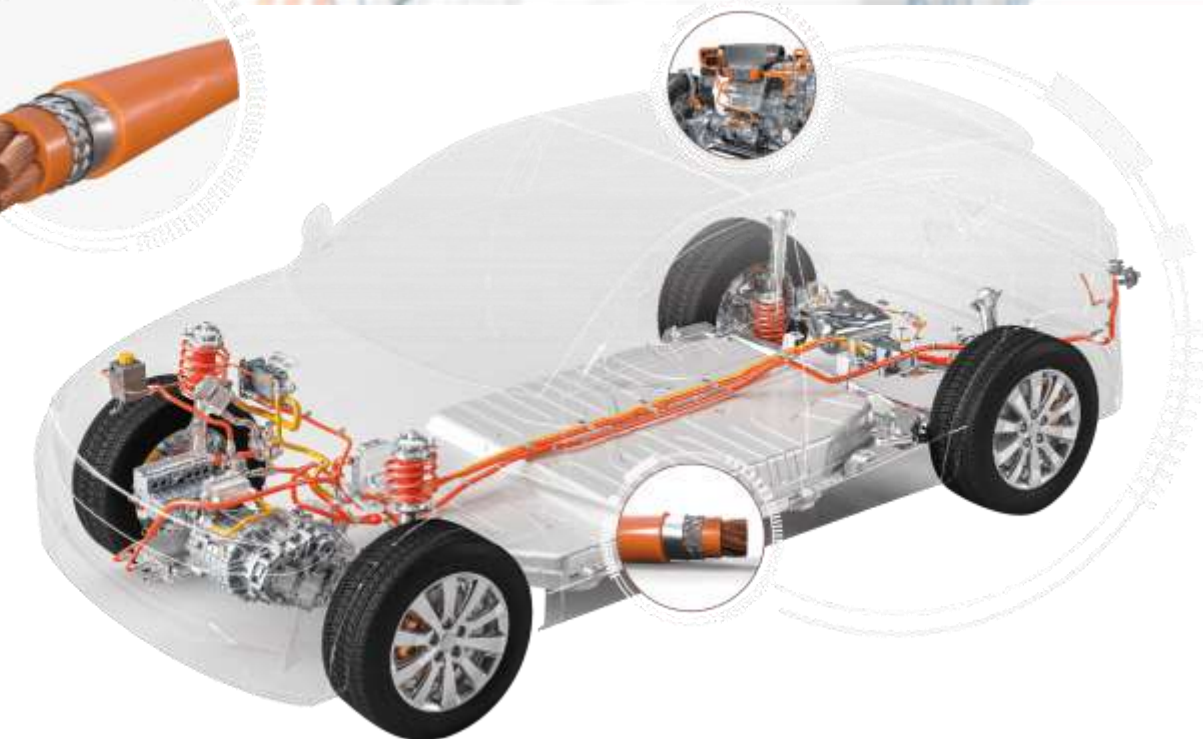
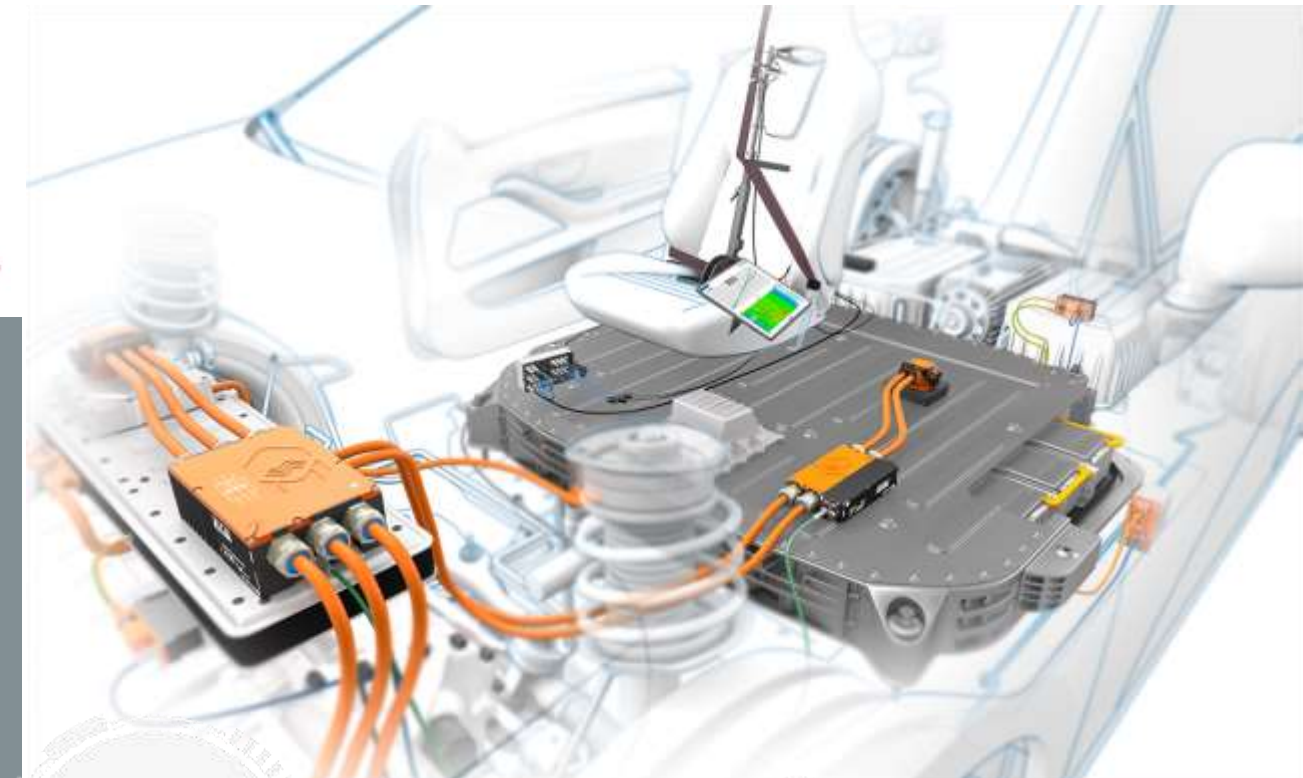
180°C Aluminum, Silicone Insulation, Single-Core, Unscreened, High Voltage Cables

Temp Range: -40° C to +180° C
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Core: Single-core, Unscreened
Insulation: High Tear Resistant
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Conductor material: Aluminum



180°C Aluminum, Silicone Insulation, Single-Core, Screened, High Voltage Cables

Temp Range: -40° C to +180° C
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Insulation: High Tear Resistant
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Conductor material:
Aluminum

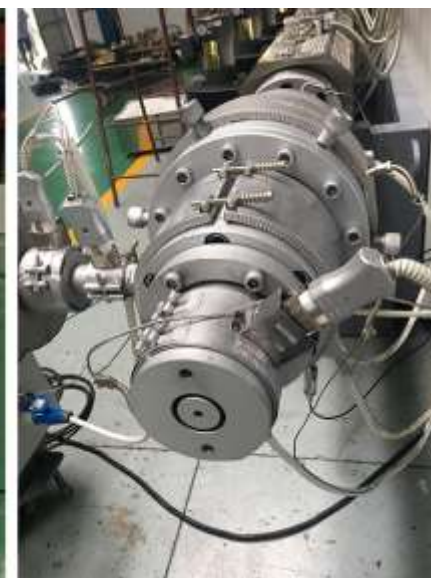


Automotive

High Voltage Cables – Equipment Capacity



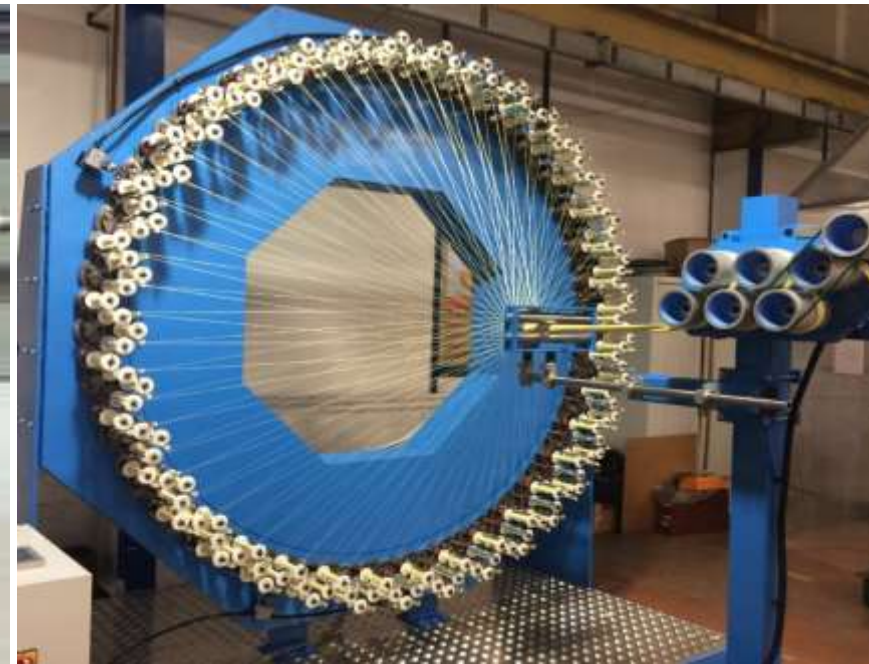
Extruders



Automotive

High Voltage Cables – Equipment Capacity

Braiding Machine



Automotive

High Voltage Cables – Equipment Capacity

Cable Forming & Packaging Machines



Hydraulic Decoiler

Leveller Unit



Hydraulic Punching Unit

Press Machine



Pre-Cutter

Post Cutter



Automatic Movable Roll Forming Machine

Suitable For Different Widths Cable Trays

Automotive

High Voltage Cables – Quality Assurance

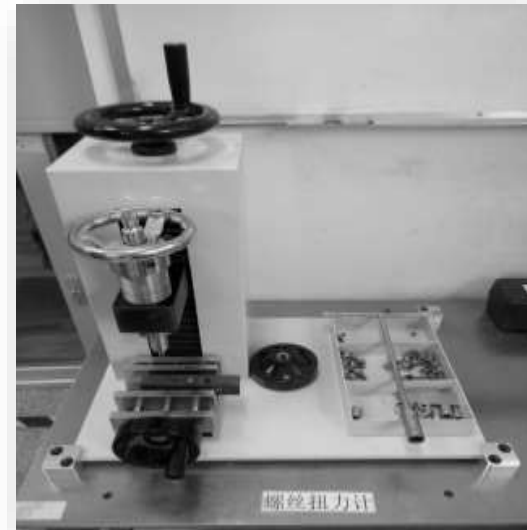
Electrical Performance Testing Equipment



ROHS



Carton burst strength



Screw torque



Coating thickness



Dimension Metering



Electron microscope



Coating



Alloy material analyzer



Wechsler hardness tester

Automotive

High Voltage Cables – Quality Assurance

Mechanical Property Testing Equipment



Environmental Performance Testing Equipment



Automotive

High Voltage Cables – Quality Assurance

Combustion Performance Testing Equipment

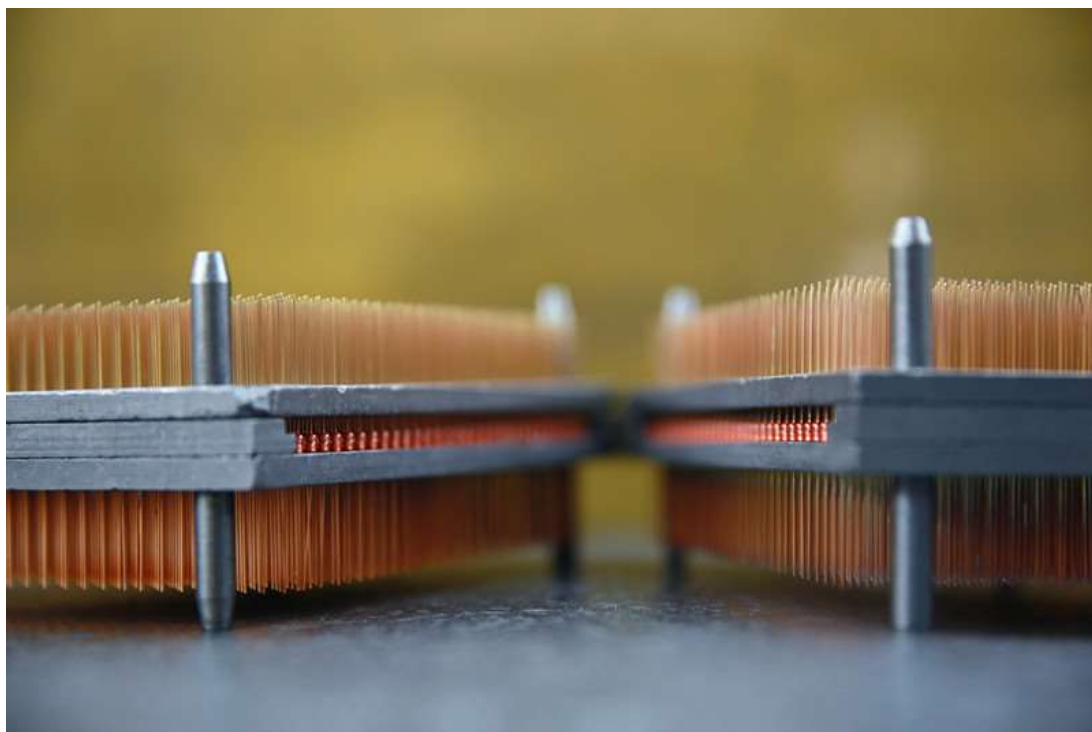


Automotive Sensor Technologies



Rancommunication Global is a market leader in sensor technologies and optical device production.

Rancom Automotive Sensor Products Offer A Wide Range Of Sensors For Use In Monitoring Various Vehicular Functions In The Areas Of Passenger Safety, Comfort And Convenience. Specialized in thermistor (temperature sensor) R&D, design, manufacturing and service since 2016, we have an annual output of 1 billion pieces of various multi-functional sensors. Among them, air conditioning sensors cover 25% of the global market share and cover 32% of the new energy vehicle market.



Multi-functional sensors such as temperature, humidity, light, and air, and PTC heating systems for new energy vehicles

Automotive

Sensor Technologies – Test Lab



Partical Size Tester



Environmental Simulation Wind Tunnel



Walk-in Low Temperature Room



Dustproof Testing Machine



Water Resistance Testing Machine



X-Ray Machine



SEM



High And Low Temperature Impact Test Chamber



High And Low Temperature Test Chamber



High Temperature Oven



Grinding Equipment

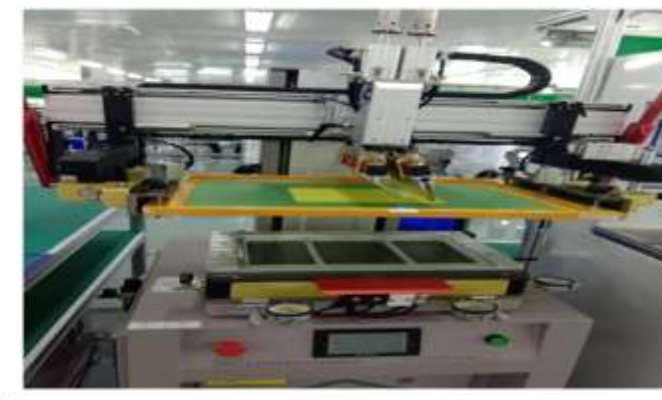


Humidity, Temperature And Vibration Comprehensive Environmental Test Chamber

Automotive

Sensor Technologies – Manufacturing

- Automated production line for multi-functional sensors for smart home appliances and smart cars
- Annual production capacity of 1 billion pieces.
- World's largest multi-functional sensor manufacturing base



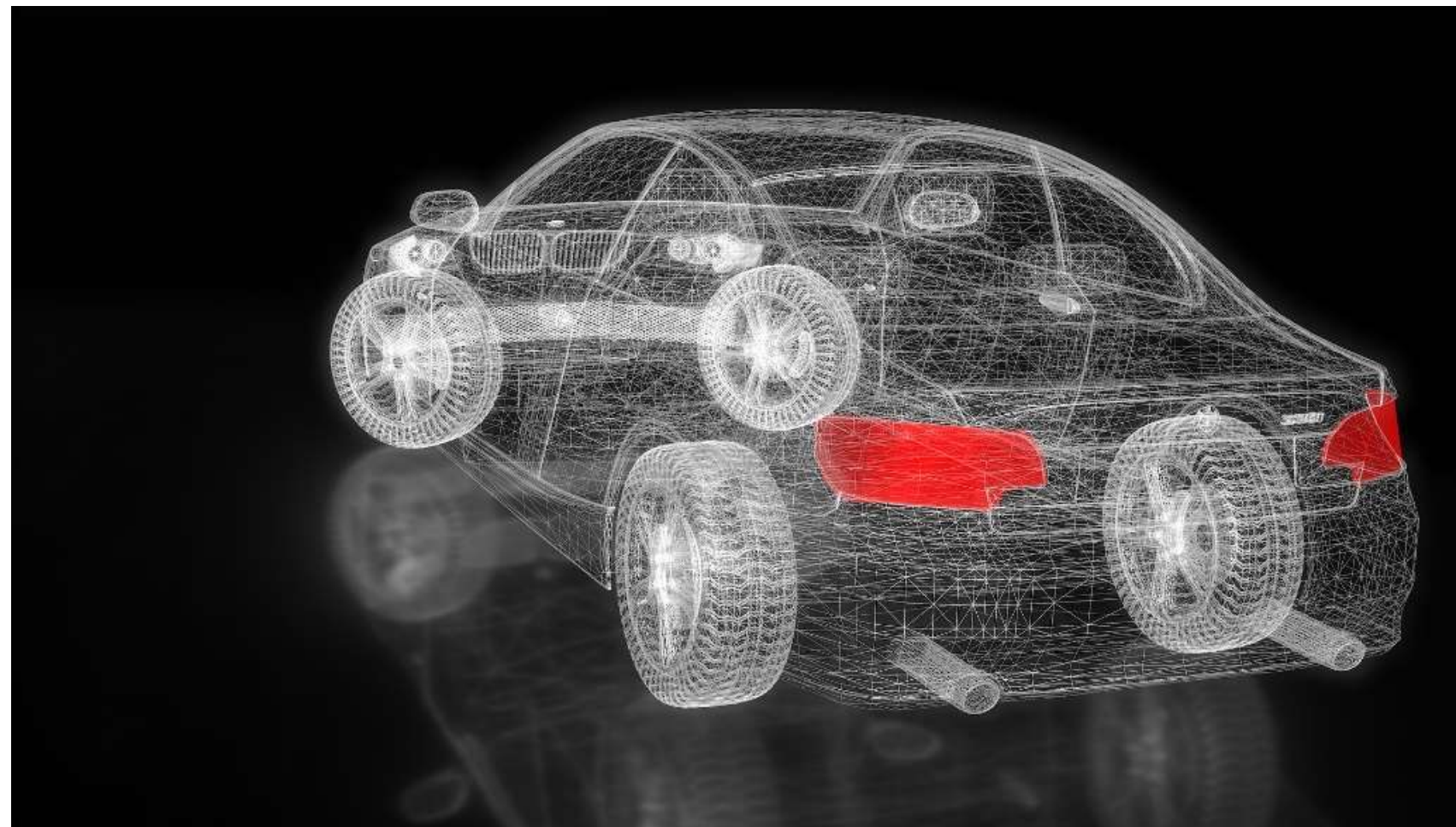
Automotive

Sensor Technologies – Thermistors

The ability of thermistors to provide highly accurate and sensitive readings makes them an essential component in various applications.

Applications

- Medical Devices
- Automotive Engines
- Consumer Electronics
- HVAC Systems



Sensor Technologies – Automotive Electronic

Evaporator Temperature Sensor



Features:

- Specifications can be customized according to customer requirements
- The accuracy can reach $\leq \pm 1\%$ accuracy
- Highly sensitive, reaction time constant $\leq 3s$
- Temperature and moisture resistance, high sealing and moisture resistance
- Working temperature $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$

Applications:

- Temperature measurement at evaporator locations for automotive air conditioning systems

Sensor Technologies – Automotive Electronic

Car Interior Temperature Sensor



Features:

- Specifications can be customized according to customer requirements
- Use self-suction fan or negative pressure design
- Easy to install, with multiple interface functions
- Working temperature $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$

Applications:

- Used for interior temperature measurement in automobile air conditioning systems

Sensor Technologies – Automotive Electronic

Outdoor Temperature Sensor



Features:

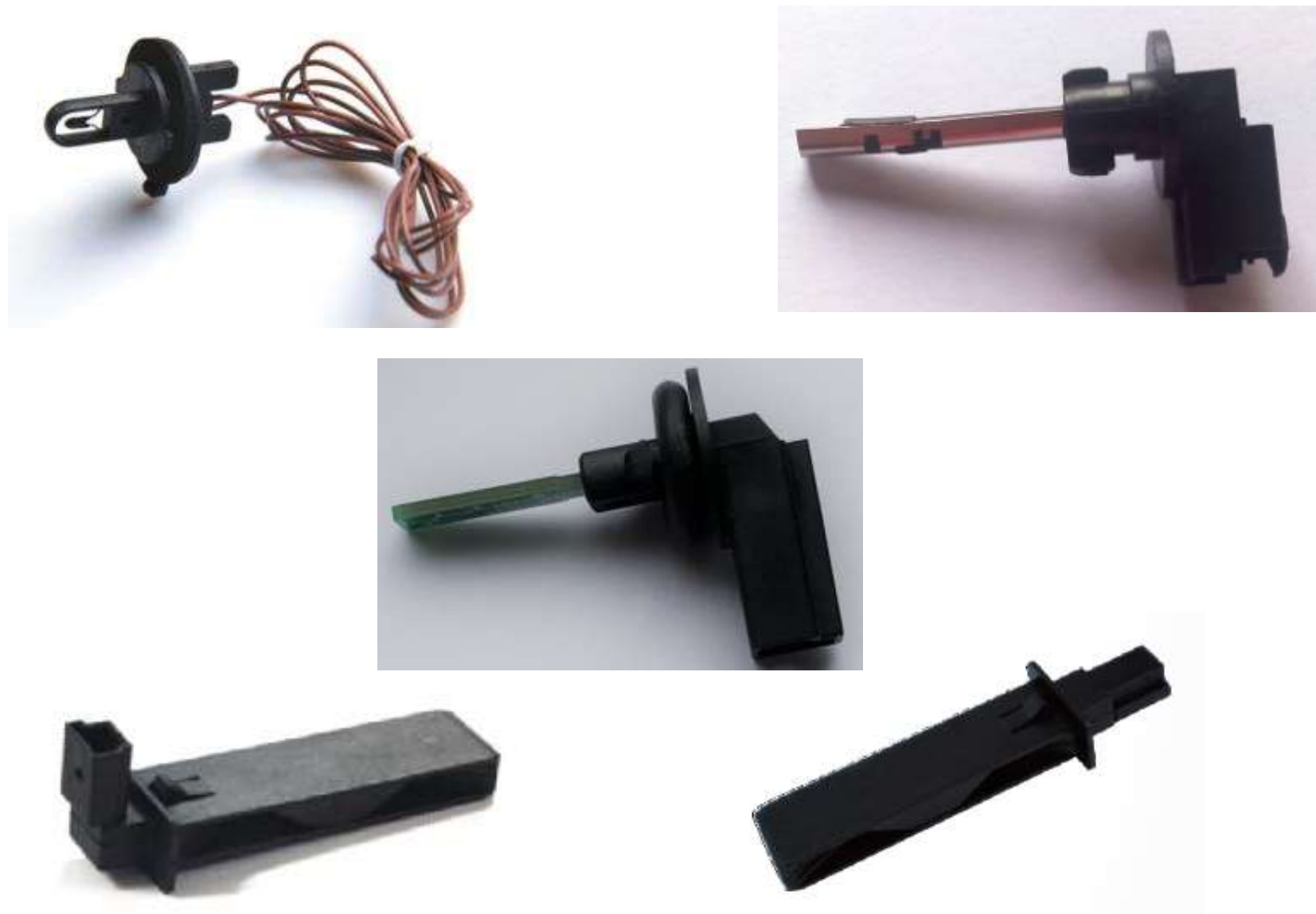
- Specifications can be customized according to customer requirements
- Adopt injection molding or potting packaging process
- It has good waterproof performance and the protection level can reach IP67
- Designed with corrosion-resistant materials
- Working temperature $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$

Applications:

- Used in automobile air conditioning systems to detect the ambient temperature outside the car

Sensor Technologies – Automotive Electronic

Air Duct Temperature Sensor



Features:

- Specifications can be customized according to customer requirements
- Simple structure, capable of sensing air temperature in all directions
- Design a sponge or sealing ring to facilitate the fitting of the air conditioner housing
- Rotating buckle or double-ear clip for easy installation and removal
- Working temperature $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$

Applications:

- Used for temperature measurement in the air duct of automobile air conditioning system

Sensor Technologies – Automotive Electronic

Water Temperature / Refrigerant Sensor



Features:

- Specifications can be customized according to customer requirements
- Using copper temperature sensing head, it can quickly realize heat conduction
- Select high temperature resistant materials, the working temperature can reach 200°C
- The product adopts thread, wall sticker, and pipe access methods to achieve better fixation.
- Working temperature -40°C~+150°C

Applications:

- Used to measure the temperature of automobile water tanks/refrigerant pipes

Automotive

Sensor Technologies – Automotive Electronic

Sunlight Sensor



Features:

- Working voltage 5V
- Single zone and dual zone functions
- Low angle sensitivity, easy to calibrate with air conditioning system
- Working temperature -40°C~+100°C

Applications:

- Used to measure light irradiance and provide compensation control for air conditioning systems

Sensor Technologies – Automotive Electronic

Ambient Light Sensor



Features:

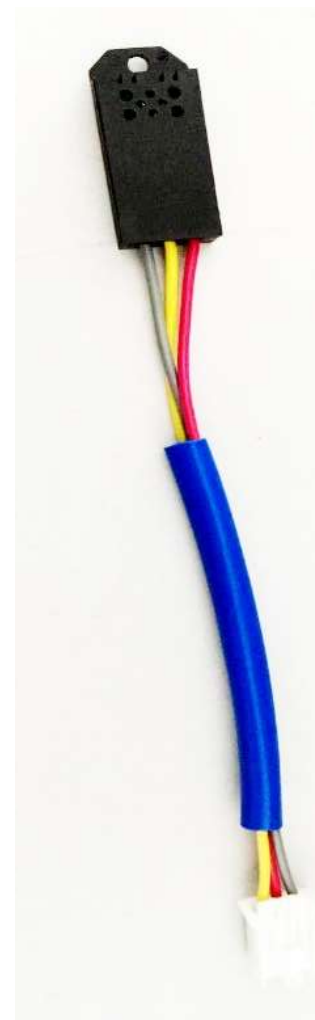
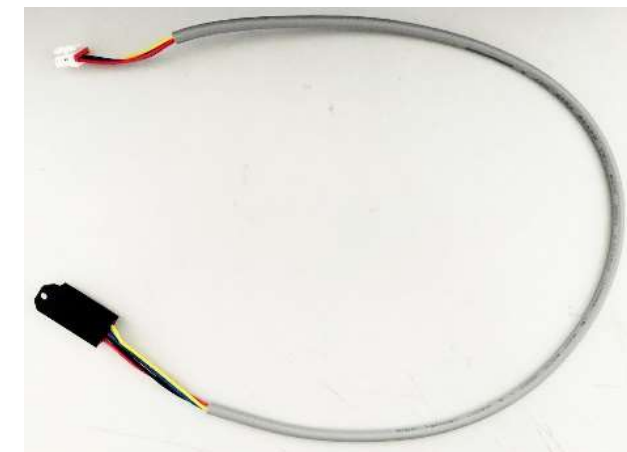
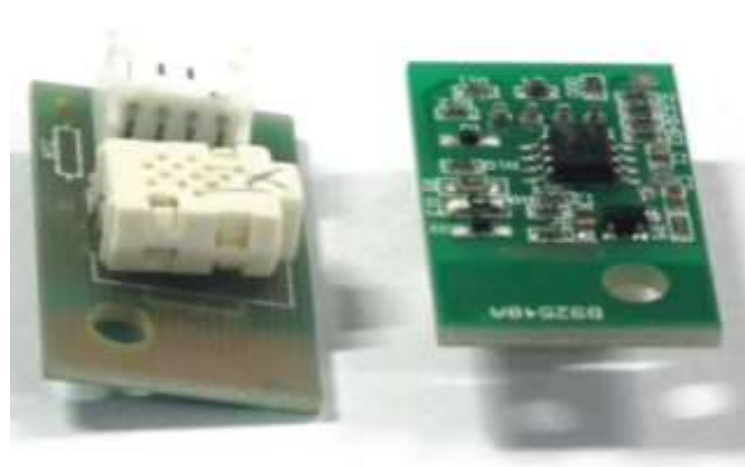
- Working voltage 9~16V
- Ambient light and sunlight sensor platform integration functions
- Low power consumption, control accuracy $\pm 3\text{LX}$
- Comply with EMC requirements
- Working temperature $-40^{\circ}\text{C}\sim+100^{\circ}\text{C}$

Applications:

- Car headlight automatic on/off control

Sensor Technologies – Automotive Electronic

Humidity Sensor



Features:

- Rated voltage 5V
- Output accuracy $\pm 3\%RH$
- Output range: 0~100%RH
- Output control: analog output and digital output
- Humidity response time: $\leq 30s$
- Working temperature $-40^{\circ}C \sim +105^{\circ}C$

Applications:

- Used for automotive and household air conditioners, refrigerator defogging and defrosting detection

Sensor Technologies – Automotive Electronic

PM2.5 Sensor



Features:

- Rated voltage 12V
- With enabling control terminal
- Output PWM waveform, frequency 200Hz
- PM2.5 concentration effective value low-level duty cycle 10%-85%, representing 0-500ug/m³

Applications:

- Used in automobile air conditioning systems to detect PM2.5 concentration in the passenger cabin in real time



Sensor Technologies – Automotive Electronic

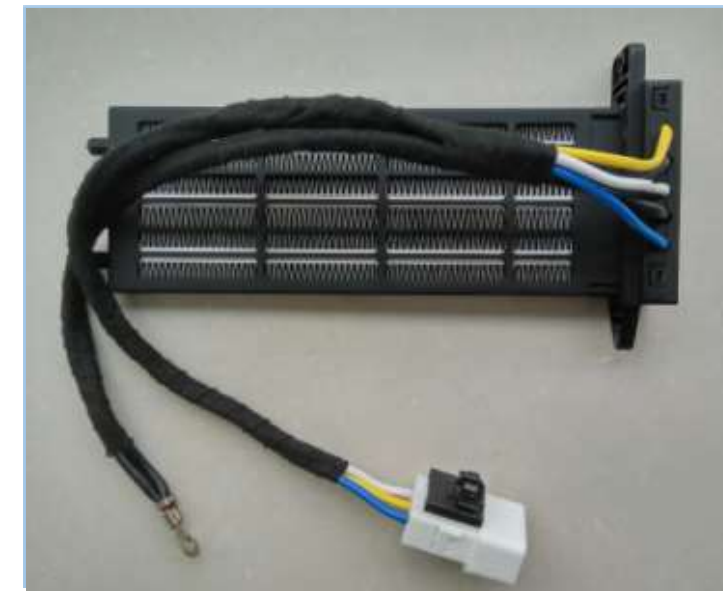
Fuel Vehicle Auxiliary Heater



Project: JAC H1
Application Model: JAC Ruifeng

Specifications:

- Rated Power: 1000W+5/-10%@0°C, 400m³/h
- Rated Voltage: 12V
- Withstand Voltage: 36V/1min
- Inrush Current: ≤115A
- Curie Temperature: ≤170°C
- Core Size: 250x173x27mm



Project: SAIC SV91
Application Model: SAIC Maxus D90

Specifications:

- Rated Power: 1000W+5/-10%@0°C, 300m³/h
- Rated Voltage: 13.5V
- Withstand Voltage: 36V/1min
- Inrush Current: ≤110A
- Curie Temperature: ≤180°C
- Core Size: 275x73x14mm

Automotive

Sensor Technologies – Automotive Electronic

Fuel Vehicle Auxiliary Heater



Project: SAIC EV78
Application Model: SAIC Maxus G10

Specifications:

- Rated Power: 1000W+5/-10%@0°C, 300m³/h
- Rated Voltage: 13.5V
- Withstand Voltage: 36V/1min
- Inrush Current: ≤110A
- Curie Temperature: ≤180°C
- Core Size: 245x103x13mm



Project: BYD C200
Application Model: BYD Qin EV200

Specifications:

- Rated Power: 1000W+5/-10%@0°C, 400m³/h
- Rated Voltage: 12V
- Withstand Voltage: 36V/1min
- Inrush Current: ≤100A
- Curie Temperature: ≤170°C
- Core Size: 176x140x20mm

Sensor Technologies – Automotive Electronic

New Energy Vehicle Heater



Project: SAIC-GM-Wuling E100
Application Model: Baojun E100

Specifications:

- Rated Power: 3000W+5/-5%@25°C, 400m³/h
- Rated Voltage: 110V
- Withstand Voltage: 220V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤22 0°C
- Core Size: 215.8x108x30



Project: Bonaire M1A
Application Model: Chery Arrizo 5

Specifications:

- Rated Power: 5500W+10/-5%@-15°C, 300m³/h
- Rated Voltage: 353V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤200°C
- Core Size: 220x193x37.5

Automotive

Sensor Technologies – Automotive Electronic

New Energy Vehicle Heater



Project: Bonaire S15
Application Model: Chery EQ

Specifications:

- Rated Power: 3600W+5/-5%@-15°C, 400m³/h
- Rated Voltage: 336V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤200°C
- Core Size: 200x140x40



Project: Bonaire W11
Application Model: Zotye E100

Specifications:

- Rated Power: 3000W+5/-10%@-15°C, 220m³/h
- Rated Voltage: 320V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤200°C
- Core Size: 223x125x40mm

Sensor Technologies – Automotive Electronic

New Energy Vehicle Heater



Specifications:

- Rated Power: 2500W+5/-10%@25°C, 4.5m/s
- Rated Voltage: 320V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤ 2 times working current
- Curie Temperature: $\leq 200^{\circ}\text{C}$
- Core Size: 195x168x36mm



Specifications:

- Rated Power: 2500W+5/-10%@25°C, 4.5m/s
- Rated Voltage: 320V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤ 2 times working current
- Curie Temperature: $\leq 200^{\circ}\text{C}$
- Core Size: 220x184x36mm



Project: JAC Fourth Generation, JAC Fifth Generation
Application Model: JAC fourth-generation electric vehicle, JAC fifth generation electric vehicle

Automotive

Sensor Technologies – Automotive Electronic

New Energy Vehicle Heater



Specifications:

- Rated Power: 2500W+5/-10%@25°C, 400m³/h
- Rated Voltage: 320V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤200°C
- Core Size: 220x148x36mm



Project: JAC A0

Application Model: JAC sixth-generation electric vehicle

Automotive

Sensor Technologies – Automotive Electronic

PTC Air Heater



Project: SAIC EV69
Application Model: SAIC Maxus EV80

Specifications:

- Rated Power: 6000W+5/-10%@0°C, 400m³/h
- Rated Voltage: 336V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤2 times working current
- Curie Temperature: ≤200°C
- Core Size: 224x199x46mm



Project: SAIC EV79
Application Model: SAIC Maxus EG10a

Specifications:

- Rated Power: 6000W+5/-10%@0°C, 400m³/h
- Rated Voltage: 336V
- PTC Withstand Voltage: 500V/1min
- Inrush Current: ≤1.5 times working current
- Curie Temperature: ≤170°C
- Insulation Resistance: 1000V for 2 minutes >100MΩ
- PWM Control Method: integrated design of control module and PTC, LIN communication, 7-speed adjustment
- Temperature Protection: PTC over-temperature protection, IGBT over-temperature protection
- Core Size: 337x193x96mm

Automotive

Sensor Technologies – Automotive Electronic

PTC Water Heater



Project: Liuqi S50
Application Model: Jingyi S50EV

Specifications:

- Rated Power: 4000W @0°C, 10L/min
- Rated Voltage: 350V
- Electrical Strength: 3000VDC
- IP Rating: IP6K9K & IP67
- Curie Temperature: no more than 230°C
- Insulation Resistance: 1000V/2min >100MΩ
- Heater Size: 157×118×76



Project: Geely FE-3HP
Application Model: Emgrand PHEV

Specifications:

- Rated Power: 5000W @60°C, 10L/min
- Rated Voltage: 350V
- Electrical Strength: 3000VDC
- IP Rating: IP6K9K & IP67
- Curie Temperature: no more than 230°C
- Insulation Resistance: 1000V/2min >100MΩ
- Heater Size: 257 × 199 × 61

Sensor Technologies – Automotive Electronic

Application Specific Development Projects



Project: Geely platform parts (KC-2HB, VF11P, SX11P, FS11, FE-5HA, DNL-5P)

Applicable Models: Boyue EV, Borui EV, etc.

Specifications:

- Rated Power: 5000W @60°C, 10L/min
- Rated Voltage: 350V
- Electrical Strength: 3000VDC
- IP Rating: IP6K9K & IP67
- Curie Temperature: no more than 230°C
- Insulation Resistance: 1000V/2min >100MΩ
- Heater Size: 185×159×105



Project: Dongfeng Nissan 322EV, 331EV
Application Model: Venucia D60EV

Specifications:

- Rated Power: 5000W @60°C, 10L/min
- Rated Voltage: 350V
- Electrical Strength: 3000VDC
- IP Rating: IP6K9K & IP67
- Curie Temperature: no more than 230°C
- Insulation Resistance: 1000V/2min >100MΩ
- Heater Size: 185×159×105

Automotive

Sensor Technologies – Automotive Electronic

Application Specific Development Projects



Project: Dongfeng Nissan 322EV, 331EV
Application Model: Venucia D60EV

Specifications:

- Rated Power: 5000W+10/-10%@-10°C, 300m³/h
- Rated Voltage: 350V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤1.5 times working current
- Curie Temperature: ≤200°C
- Core Size: 230x160x32



Project: Valeo M01
Application Model: Chehejia M01

Specifications:

- Rated Power: 2500W+5/-5%@0°C, 400m³/h
- Rated Voltage: 353V
- Withstand Voltage: 500V/1min
- Inrush Current: ≤1.5 times working current
- Curie Temperature: ≤200°C
- Core Size: 180x150x36

Sensor Technologies – Automotive Electronic

Application Specific Development Projects



Specifications:

- Working Voltage: 50VDC-600VDC
- Power Range: 100-500W
- Inrush Current: less than 2.5 times rated current
- Surface Temperature: less than 80°C, plane temperature difference less than 5°C
- Operating Temperature: -40°C—110°C
- Temperature Stabilization time: ≤ 30 S
- Electrical Strength: 3000V/15mA/S
- Insulation Resistance: $>50\text{M}\Omega$, test voltage 1000VDC, duration 1min



Project: Changan platform parts

Application Model: Changan Yidong EV

Thank You!



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