

Authorised Distributor for:



High Voltage Power Connector, High Voltage Metal Connector, Manual Service Disconnector, Signal Connector, Charging Coupler, EV High Voltage Harness, High Voltage Power Distribution System





Our Served Markets and Products





Dedicated in offering reliable connection technologies and end-to- end Interconnect System Solutions



Interconnect System Product Solutions













Design Assurance



Ш

• DESIGN: Close connection with customers and applications, solving their bottlenecks and offering reliable interconnection system solutions

Design Force 25Y + Design Experience
180 + Design engineers

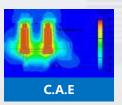
\$10M + yearly Desgin Investment

Design Achievement

20000 + Interconnection Solutions

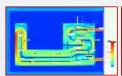
160 + Design Patents

Key Strength

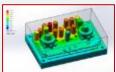












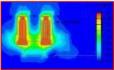
mold flow analysis



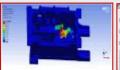
current density



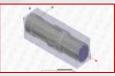
C.F.D



thermal electric



| February 16s | February | Febru



mechanic stress

stray induction simulation

SI & EMC



Manufacturing Capabilities



MANUFACTURING: 200K+m² facilities, located in Wuxi, Suzhou, Hefei, Wuhan and Sichuan to ensure accurate and fast delivery to customers.

Highly In-house integrated manufacturing capabilities that includes tooling design and fabrication, machining, stamping, busbar production, raw cables, and assemblies



Tooling design & Fabrication

- >30 unit machines
- UG, Solid work, HFSS

Machining

- 120 units, automatic -Citizen, Fanuc, Tsugami

High-speed Stamping

- 300~700 times/min

- Progressive die



Injection Molding

- -50+ units, Robotics



- FANUC, SOMITOMO....

Busbars

Raw Cable

- Electronics cable - Control cable

- High Voltage cable

- EV charging cable

- Flex & rigid busbars
- Vertical Injection molding
- Laminated busbars





Assembly

- Automatic production
- MES System



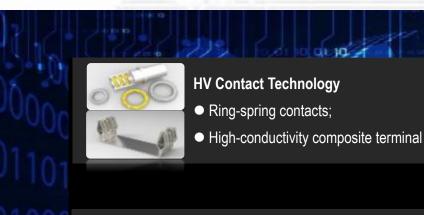




Our Key Technologies



Our key technologies with interconnect system facilitates creating the value to our customers in various industry



Quick Lock Technology

- HV Self Quick-lock solution
- Q-AISG



High Density Hybrid Technology

- HTTA solution;
- CRH Cart-cart Coupling connector
- Fast-swap connector
- Microwave solutions

Float Mounting Technology

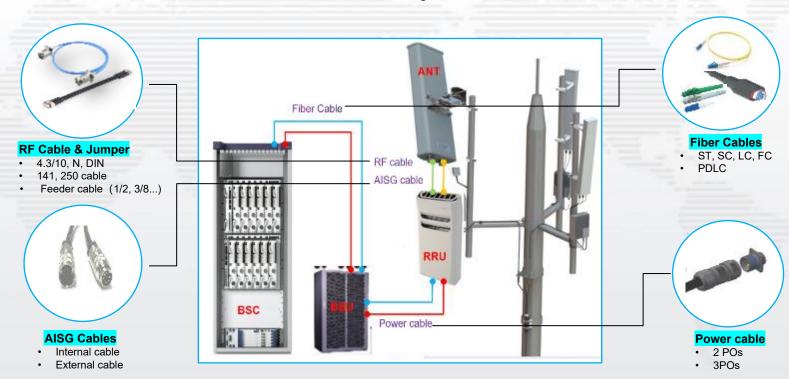
- Multi-contacts fast-swap connector;
- High-density RF BTB Connector
- Blind mating 4.3-10 BTB Connector







Telecom Interconnect System Solutions







Input / Output Solutions







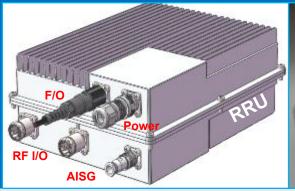
Power Connectors 2PINs, 3PINs



RF Connectors DIN, N, 4.3/10, RF Coupler



AISG 4,6,8,12,14,19 PINs





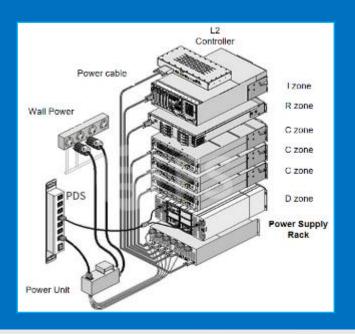


Quick Lock Solutions
QDIN, QN, Q4.3/10, QAISG





Data Center and Server connection Solutions







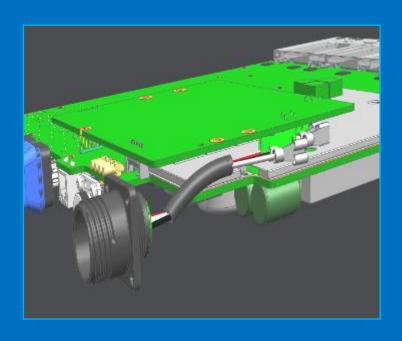








Module inside Interconnect System Solutions





SMA, SMB, MCX, MMCX, BMA,TNC....



Mini BTB HIGH SPEED

Micro design High speed up to 10G High density, max 50 PINs Height 6mm-20mm





On-site installation Solution: Hybrid to The Antenna (HTTA)

Hybrid main

cable(7/8")



Conventional separate 2 power cables and 4 F/O cables supporting 1 RRU



HTTA with hybrid cable and one hybrid connector supporting 1 RRU



Features

• One hybrid connector integrates 4 F/O and 2 Power, supporting one RRU;

• Rotation feature avoids damage during on site installation;

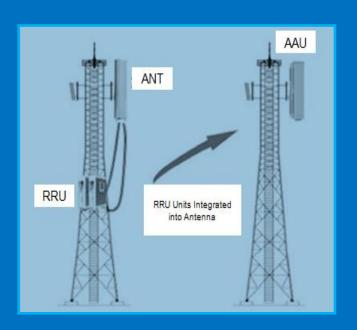
• IP68, Lightning protection, 720H Salt spray resistance

RECODEAL owns IP





5G Interconnect System Solutions











EV Interconnect System Solutions

BATTERY

- High Voltage connectors
- · Low Voltage connecters
- Manual Service Disconnect
- Battery fast-swap connectors

• PDU / BDU

MCU, PTC, DC/DC

- · High Voltage connectors
- Low Voltage connectors

MOTOR

High Voltage Connectors

CHARGING System

- Charging Inlet AC/DC
- Charging plugs AC/DC

ON-BOARD CHARGER

High Voltage Connectors

WHAT ELSE in MODULES?

- Flex busbars, rigid busbars, flex-rigid busbars
- Laminated busbars
- molded busbars and Frame connectors
- Board To Board connectors

VEHICLE High Voltage Harness assemblies





EV HV & LV connectors



HV small current connectors

normally used on DCDC, OBC, PTC, PDU etc, up to 60A/1000V max, with IP68 Protection, Shielding, HVIL



Manual Service Disconnect

offering safe disconnections for battery, PDU and PEUs supporting 630A max. over 10 deferent sizes and contact types for selection meeting different working environments.



HV large current connectors

used on Battery pack, PEU, MCU, PDU, etc, up to 500A/1000V, with IP68 protection , shielding and HVIL



Low Voltage connectors

Chassis to wire signal connection solutions



Low Voltage connectors

Board to wire signal connection solutions





Battery fast-swap connectors



RECODEAL serial fast-swap connectors are widely used on EV of commercial vehicles, passenger cars, and heavy trucks etc, and taking more than 95% market share in EV battery fast swap market, providing fast power replenishment and reliable connections through battery replacement for vehicles. Recodeal unique X,Y,Z float-mounting design technologies generates much reliable swaping process and connector functionality than any other existing technologies in the market.





Vehicle Charging Connectors









Features:

One-piece plastic body design for better water proof.
AC Types (Type II): 10A/220V, 16A/220V, 32A/450V
DC Types: 32A/450V, 125A/750~1000V,200A/750~1000V,250A/750~1000V
Compact control box design, replaceable pin design optional









Features:

Mating life >10000times AC Types: 10A/220V, 16A/220V, 32A/450V AC Inlet: Conventional types, LCD and LED display types









Features:

Reliable ring-spring contact, mating life >10000times
DC Types:125A/750~1000V,200A/750~1000V,250A/750~1000V
Replaceable ring-spring contacts
Offering different outlet angle under different application circumstance
(90 degree right, 90 degree downward, 45 degree)



GB AC+DC compact design 10A/16A,220V



COMBO DC125A,200A,250A AC 16A, 32A



JAPAN DC CHADEMO AC TYPOII









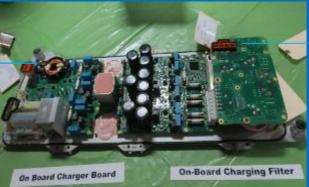


Frame Connectors inside EV electrical systems

Recodeal owns full in-house injection molding, stamping, machining and busbars fabrication capabilities and provide our customer with customizing supports for diverse frame connectors and board to board solutions which are used inside the EV electrical systems

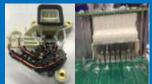










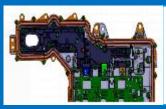


















CCS, HV harness asemblies and box assemblies







HV CABLE ASSEMBLIES

- □ Offering wide range cable assembly production with different process technologies (crimping, welding, over-molding)
- MES System and computer-aided production
- Process automation and error-proofing technology

CCS ASSEMBLIES

- cell connection system offers the connections between BMS and battery cell components
- Recodeal provides diverse customizing solutions with FPC types, PCB types as well as the wire types

PDU/BDU ASSEMBLIES

- MES System and computer-aided production
- ATLAS intelligent screw driving system
- ☐ Strong PDU/BDU solutions: Laminated busbar for high voltage and PCB for signal connections





VEHICLE COMMUNICATION Interconnect System Solutions





FAKRA Interfaces for automotive high frequency applications, such as antennas, navigation, car mobile communication, Bluetooth applications etc

- RF signal transmission <6G Hz
- · Coaxial cable connections, straight and right angle
- 360 degree turn-able right angle connectors
- PCB types, panel types...
- · Single and multi-connectors
- Waterproof
- Temperature range -40~+105 degree C
- Secondary locking system

mini FAKRA

can transmit both microwave signals and differential signals

HSD Connectors

High performance in preventing interference from crosstalk and external sources. Used for automotive electronic applications that transmit high bit rate data streams, such as low-voltage differential signal cameras, USB connections, CAN communication, digital entertainment electronics, vehicle microcell base stations etc

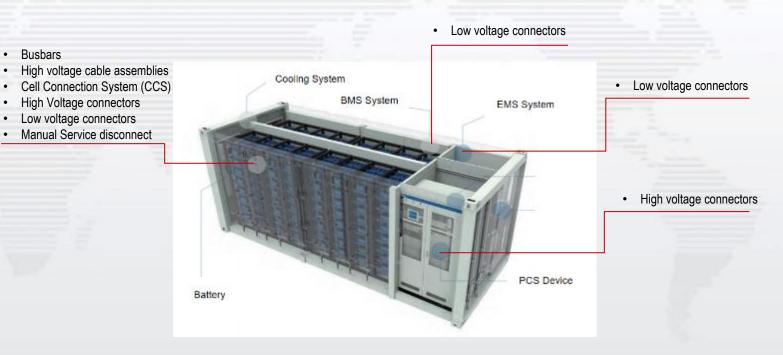
- 10Gbt/s
- · Secondary locking system
- Crimping connection
- · Good protections to avoid pin damages







Energy Storage Interconnect System Solutions





Energy Storage Interconnect System Solutions



High Voltage & Low Voltage Connectors



Before Year 2019

- REA 250A/1500VDC
- REF 250A/1000VDC

Year 2020

- REQ 350A/1000V
- REA1~4, 350A/1500VDC

Year 2021+

- REA1-B 120A/1000v
- CHIP terminal HV connector
- multi-pos low current

Recodeal high voltage connectors used on energy storage are TUV/UL certified, and can support 360 degree rotation to meet cable outlet from different directions







Energy Storage Interconnect System Solutions



MSD, BUSBARS and Cell Connection System (CCS)

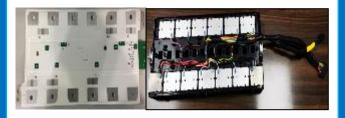


630A MAX / 1000-1500V DC, offering manual power disconnect prior to any repairing and mantenance



BUSBARS
Full flex and rigid busbar, and laminated busbar process in house





CCS Solutions

Diverse cell connection system solutions by integrating FPC (or PCB, wire) and copper, offering connections between BMS and battery cell components





Industry Interconnect System Solutions





INDUSTRY Interconnect System Solutions











M12, M23 Series

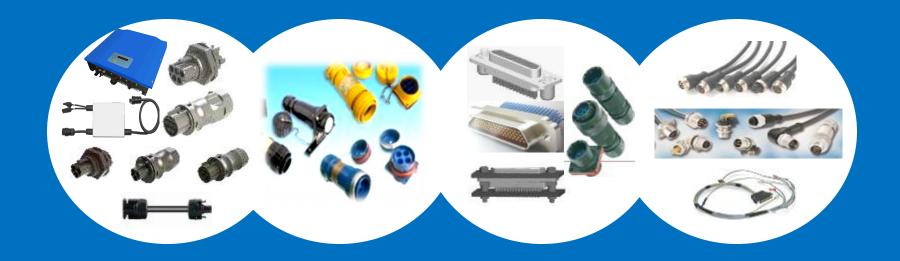
Heavy Duty Connector Series

Subway Cart to Cart Coupling Connector

Locomotive signal control connectors



INDUSTRY Interconnect System Solutions



Solar outdoor connectors(1,3,5pos)

Petroleum explosion proof connectors

Industry Rectangle/circular connectors

Harness & cable assemblies Different process technologies





MILITARY Interconnect System Solutions

Radar system, Communication System, Electronic Interference System

FULL MILITARY CERTIFICATES





MILITARY Interconnect System Solutions











RF connector series RF Jumpers

MIL STD Circular connectors (38999,26482, C-5015, YW,Y50, Micro YM.....)

MIL STD micro rectangle connectors (J29A,J30J, anti-interference filter connector..)

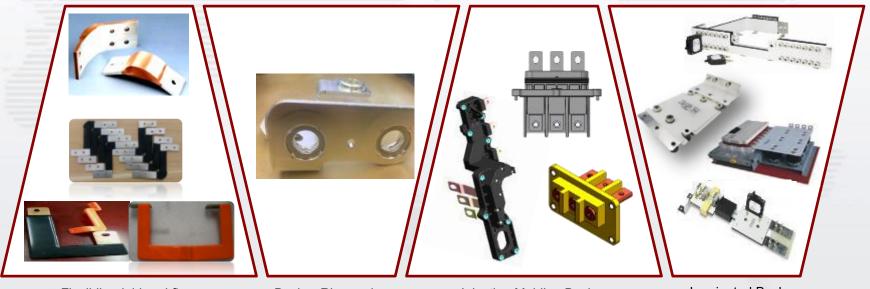
Microwave Connectors, Up to 60G (2.92, 2.4, 1.85 series..)





BUSBAR Interconnect System Solutions

RECODEAL provides wide range of BUSBAR solutions e.g. flexible busbars, rigid busbars, flex-rigid busbars, Injection molding busbars, Laminated busbars etc, which are widely used for module-module high voltage connections, In-module high voltage connections on Electric Vehicle industry, as well as high voltage connections inside Electric Control Enclosures on Railway and Telecom industry etc.



Flexibile, rigid and flexrigid busbar Solutions

Busbar Ring-spring Solutions

Injection Molding Busbar Solutions

Laminated Busbar Solutions





Tooling and Spare parts



Plastic Injection Molding Parts

Precision Turning Parts

Progressive die stamping Parts

Injection Molding Tooling & Progressive die



Our Served Customers



TELECOM

















INDUSTRY













Wind Power, photovoltaic, energy storage, charging infrastructure















ELECTRIC VEHICLE



















东风汽车

















ALSTOM



























Quality Assurance





QUALITY: National Cerfied laboratory which offers full sets of reliabity tests covering mechanical, electrical and environmental properties.













GJB







IATF16949

ISO9001

IRIS

ISO13485

ISO14001

ISO45001

GB/T29490



Our Global Presence



We Operate globally in close association with our customers and partners.



THANK YOU

For Recodeal Products RFQ's please contact:

MICRO DEVICES INC

Address: 306-307, Bhandari House 91, Nehru Place, New Delhi- 110019 (INDIA)

Telephone: +91- (011) 4978-7284, 2621-3855, 2648-0837, 2644-7837

FAX: +91- (011) 2646-4814

Email: info@microdevicesindia.com

Web: www.microdevicesindia.com

