



Connectors for Unmanned Systems (Drones, Robots, Quadraped Robots, etc.)

——Sichuan Yonggui Science and Technology Co.,Ltd

TECHNOLOGY CONNECTION TO FUTURE



1

Company Overview



1.Company Overview



- ◆ Sichuan Yonggui Science&Technology Co., Ltd., established in March 2008 with a registered capital of RMB 120 million and total assets of approximately RMB 1.8 billion, is a wholly-owned subsidiary of Zhejiang Yonggui Electric Equipment Co., Ltd. (Stock Code: 300351).
- ◆ The company covers over 200 mu of land, with more than 200,000 square meters of factory and office space, and is equipped with over 5,500 sets of R&D and manufacturing equipment.
- ◆ It is recognized as a National High-Tech Enterprise, a National Intellectual Property Demonstration Enterprise, and a "Little Giant" Enterprise specializing in advanced, distinctive, and innovative technologies.
- ◆ The company provides comprehensive interconnection system solutions for key national equipment sectors.
- ◆ As of the end of 2024, the company achieved annual sales of RMB 1.78 billion.

◆ YG products are mainly used in rail transit, industrial applications, special equipment, new energy vehicles, and energy storage systems.

The special equipment segment covers defense, explosion-proof, liquid cooling, shore power, watertight, and nuclear power applications.



Railway&Industrial

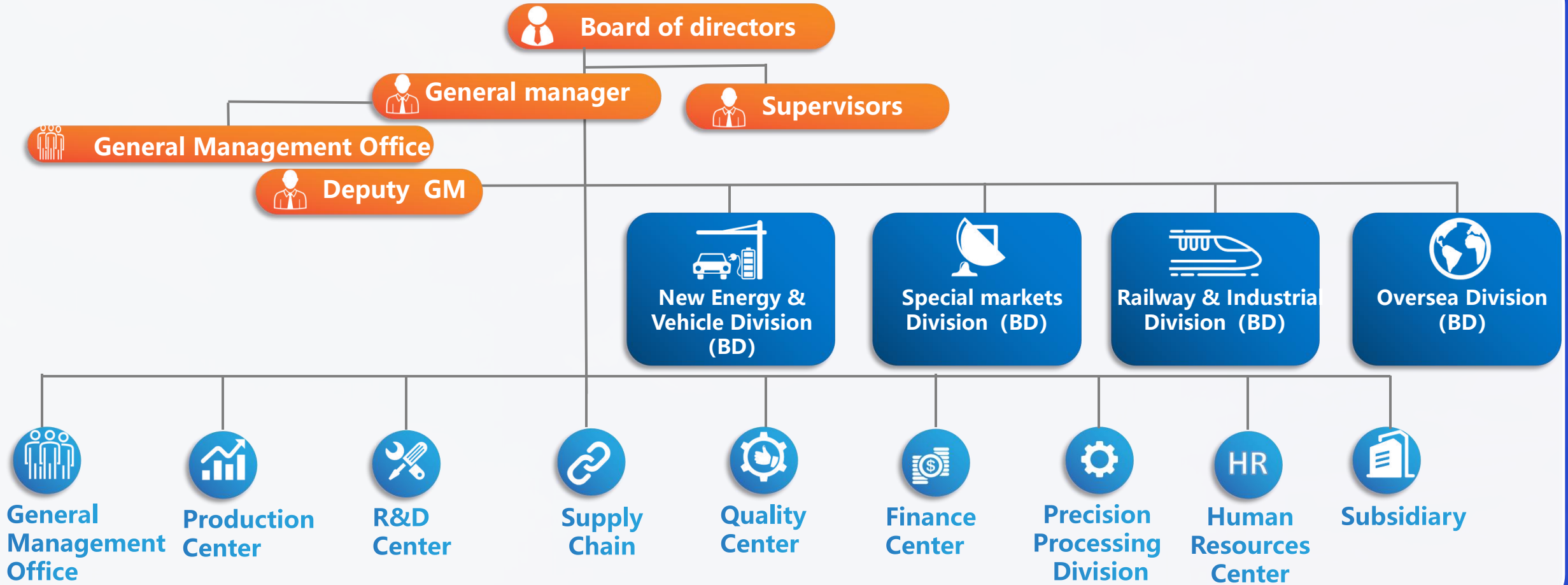


Special Segment



New Energy&Vehicle

2.Organization structure



3. Quality System



ISO14001 EMS



ISO45001 OHSAS



ISO9001 QMS



IATF16949 QMS



ISO/IEC17025
CNAS



GB/T29490 IPMS



QC080000
HSPM



ISO/TS22163
QMS

- GJB9001C QMS
- Second-Class Confidentiality Qualification Certificate
- License for Weaponry Equipment Research and Production
- Registration Certificate for Equipment Manufacturing Entity

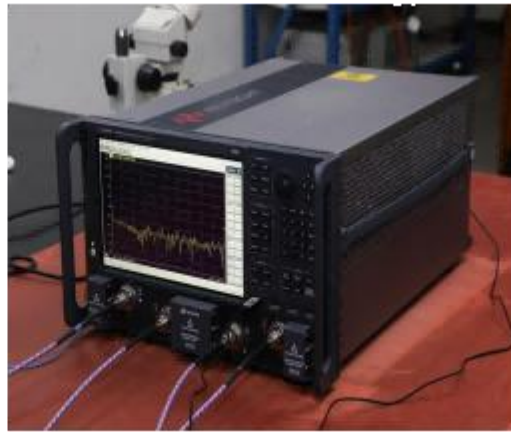
Special Qualifications



AS9100D
QMS

Certified across multiple quality systems, the company enhances management and delivers high-quality products for diverse applications.

4.Product Test



The company operates a dedicated, CNAS-certified testing center covering over 2,000 m², equipped with more than 200 sets of testing devices. It supports mechanical, electrical, environmental, and physicochemical testing for various products, components, and materials.

5.Component Machining

01

Machining

Over 150 precision machines, with a capacity of 70 million parts annually.



Machining

02

Stamping

Over 50 machines, 1 million enclosures/cabinets annually.



Stamping

03

Mold Processing

Over 50 injection molding machines, 80 million parts annually.



Mold Processing

04

Surface Treatment

11 production lines, including gold, silver, tin, zinc plating, phosphating, nickel plating, and anodizing.



Surface Treatment

6.Smart Manufacturing



01

Planning & Design

Responsible for automation development, technical reform planning, and execution.

02

Assembly & Debugging

Design, assembly, debugging, and training for automation and testing equipment.

03

Upgrade & Renovation

Introducing advanced equipment, automation, and upgrading production lines.

04

Promotion & Cooperation

Advancing automation, new technologies, and external collaborations.



Robot Applications



Vision Applications



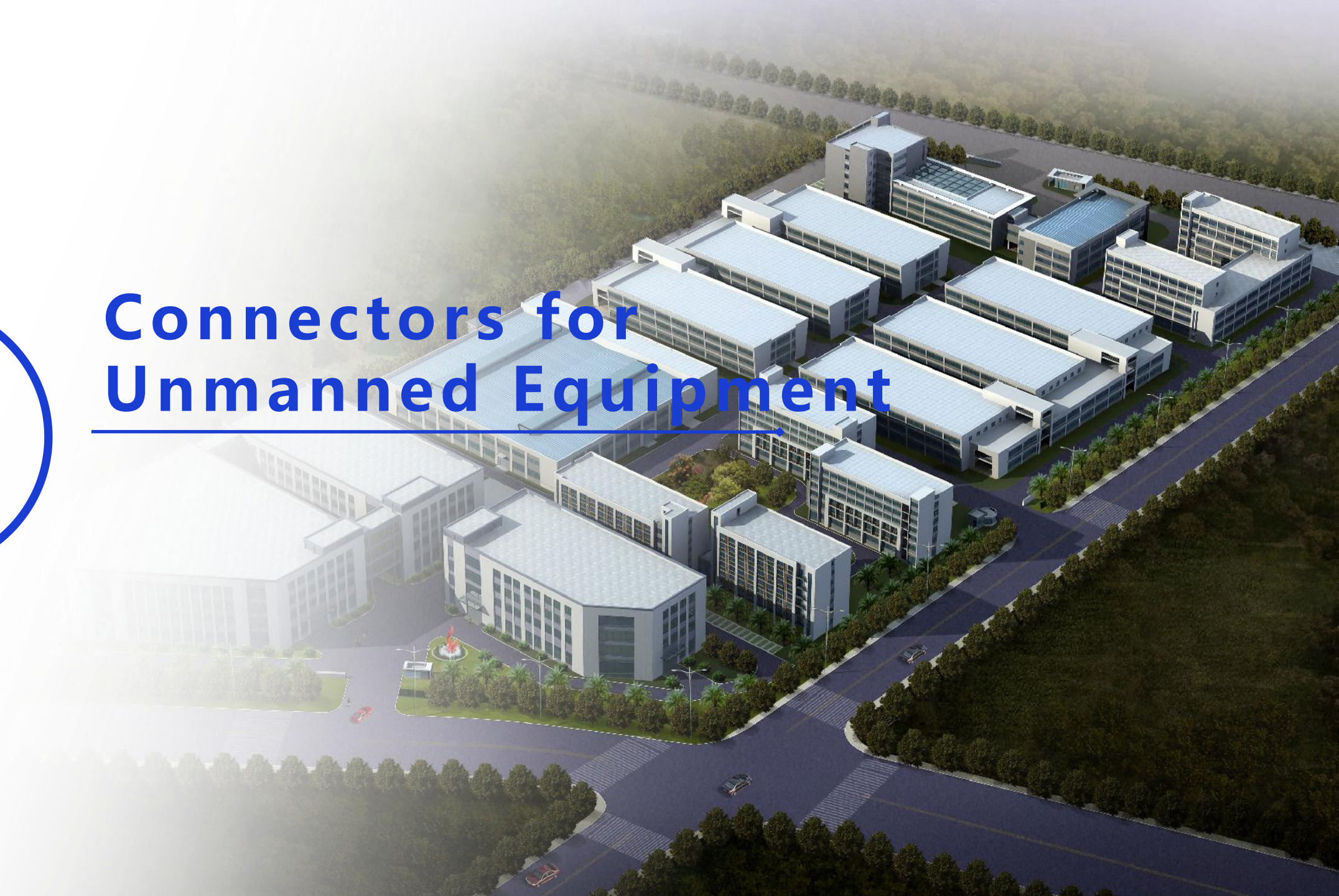
Data Collection



Machine Development

2

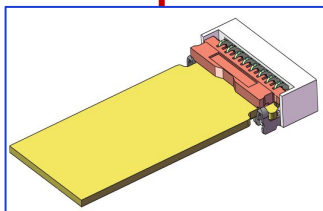
Connectors for Unmanned Equipment



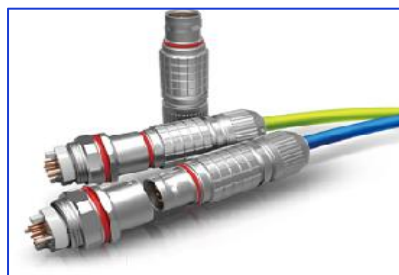
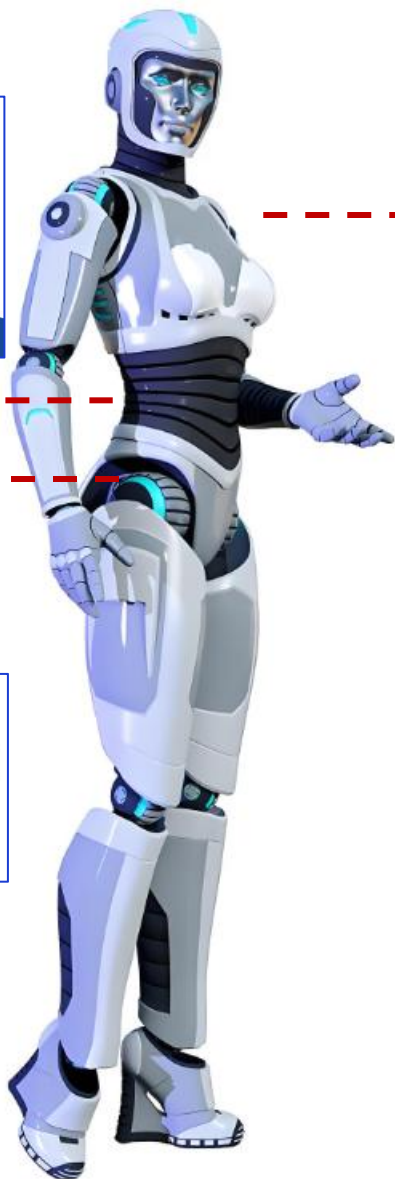
1.Unmanned Equipment Product Series



Wire-to-board



Micro FPC



**Push-pull
communication/
power**



**RF
communication**



**Ethernet
communication**



**Camera module
communication**



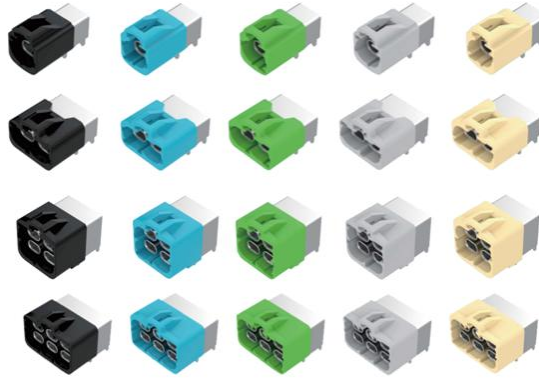
2.High-Speed Communication Connectors

RF Series



- Full Series Coverage:N/SSMP/2.92
- Up to 65GHz (1.85)
- Minimum size: 3mm (SMPM)
- Low VSWR: 1.3 (65GHz)

HESD Ethernet Series



- Mainly for cable-to-PCB connections
- 1Pair、2Pair、4Pair、6Pair
- Supports data rates up to 20 GHz;
360° shielding for excellent EMC performance

Minifakra Series



- Mainly for cable-to-PCB connections
- 1pin、2pins、4pins、6pins
- MiniFAKRA system for RF & high-speed data; Supports 15–20 GHz / 20–28 Gbps

3.Sensor Signal Connectors(External Interface)



Push-pull Series



- Compliant with GJB9176-2017
- Push-pull locking
- Five series: K, B, C, F, FX
- Features: quick mating, high density, waterproof, compact, blind-mating, long lifespan

M6/M8 Series



- M6/M8 threaded locking, IEC 61076 compliant
- 180°/90° field-attachable plugs
- 180°/90° pre-terminated cables
- 3- & 4-pin wire-to-board and wire-to-wire options with removable contacts

M12 Series



- M12 threaded locking, IEC 61076 compliant
- 4, 5, 8, and 8X pin options
- Supports 100M/1G/10G Ethernet & 13A current
- Wire-to-board and wire-to-wire with removable contacts

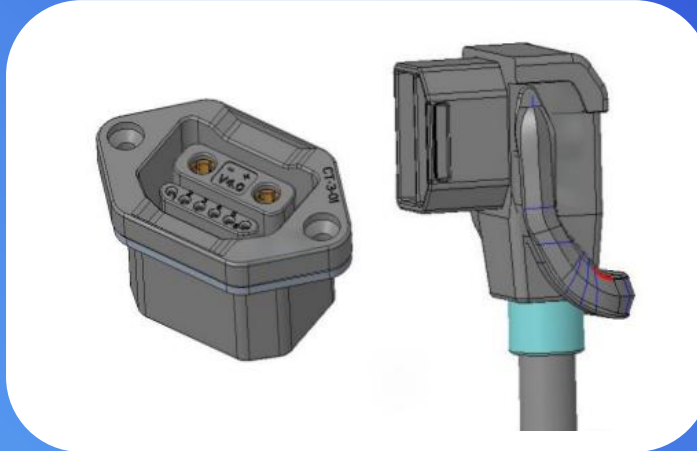
4.External Device Interface Connectors

Battery & Internal Wiring Series



- Snap-in lock with strong mechanical performance
- Mixed power/signal; single-core current >60A
- Multiple mounting types: cable, 180°/90° PCB; supports wire-to-board and wire-to-wire connections

Charging Interface: YG1611 Series



- Charging connector, non-detachable, for battery charging applications
- Push-pull handle connection with self-locking mechanism
- 5000+ insertions, anti-tilt and blind-mating protection
- High vibration and shock resistance, salt fog and rainproof

Ethernet Interface Series



- Products include RJ45, USB, HDMI interfaces; High reliability, environmental resistance, and vibration/shock resistance; Suitable for harsh environment network data interfaces
- Protection rating up to IP67

5.Internal Device Interface Connectors

Internal/External Interface: Micro-Rectangular Series



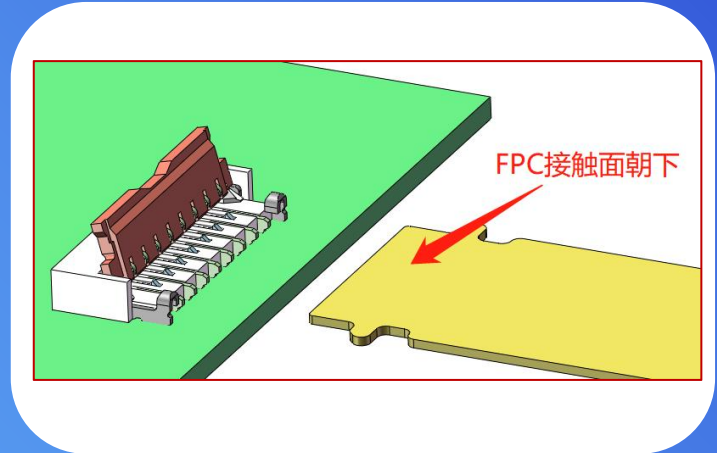
- Compliant with GJB2446 standard
- Products include DB, J29A, J30, J63, etc.
- Designed for space and weight-sensitive environments
- Supports wire-to-wire, wire-to-board, and board-to-board electrical transmission

PCB-to-PCB: 5557 Series



- Compliant with GJB1438A standard
- Hinged structure, quick locking, plastic housing, 4.2mm contact pitch
- 4 to 24 pins, wire-to-board connection, removable contacts

PCB-to-PCB: FPC Series



- Micro FPC connectors for signal connections between precision PCBs
- Compact size, low height, easy to connect
- Ideal for meeting device miniaturization needs

6.Other Connector

Vehicle-side reconnection



Air Conditioning Connection



Vehicle-End Jumper Integration
Connector and Harness Integration Junction Box and Harness Integration





In-Vehicle Control, Network, and Driver Console Connection



Under-vehicle ground power supply, motors, and sensors and other connections



Integrated cabinet under the car



HV & large current connector for batteries/motors



Vehicle HV harness



HV & small current connector for battery charger



HV connector for batteries/motors



HV adapter junction box/PDU/BDU



AC compressor/HV conn for PTC

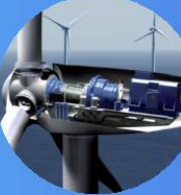


vehicle-mounted discharge panel





Wind Power Industry



Construction Machinery



Industrial Robots



Pitch Control Cabinet Integration



Heavy-Duty Connectors and Harnesses



Wind Power Slip Ring Connectors



Circular Connectors



Control Cabinet Integration



Connectors



Harness Integration



Sensor Connectors



Motor Encoders and Power Circular Connectors



Base Control Cabinets and Inter-Panel Wiring





YG-GB/YG-EN/YG-NA vehicle inlet
YG-ED Electronic Lock



YG-GB Mode2
YG-EN Mode2



YG-GBD discharger
YG-END discharger



YG-GB/YG-EN/YG-NA DC Charging
YG-GBHPC/YG-ENHPC/YG-NAHPC



YG-GB/YG-EN/YG-NA AC Charging



YG-LCS liquid cooling system



YG-EN socket outlet
YG-CH holders



7.Custom Development



Connector Customization

Offering customized connectors for various industries, including electrical, fiber optic, fluid, and hybrid electrical-fluid connectors.



Harness Integration

Offering harness integration services for various industries, including connector harnesses and fiber optic harnesses; custom cable types and lengths available.





CONNECTION TO FUTURE