

Industrial & Medical



IMPRESSION OF ZHAOLONG

Zhaolong Interconnect (SZ.300913) was founded in 1993. It is a high-tech enterprise specializing in the design, manufacture and sales of data cables, special cables and connection products. It is a full-fledged member of China Communications Standards Association and a drafter of National Standards for Data cables.

The company has established close industry-university-research cooperation with well-known domestic universities and institutes, and established a scientific research and production base with Shanghai Electric Cable Research Institute, cooperated with Tsinghua University to conduct research on material processing technology, and also built a joint laboratory of signal integrity and electromagnetic compatibility with Zhejiang University.

The company has established provincial enterprise research institute, provincial enterprise technology center, provincial high-tech enterprise research and development center and other innovation platforms, which all provide strong technical support for product design and manufacturing. What's more, the R&D laboratory Testing Center has been recognized by China National Accreditation Service for Conformity Assessment (CNAS), and obtained the Laboratory qualification for the "Satellite Program" of Intertek. They also provide strong technical support for product design and manufacturing.

The company has passed the management system certification of ISO 9001, ISO 14001, ISO 45001 and IATF16949. The products have got various certifications such as the certificate of China Telecommunication Technology Labs(CTTL), UL of the United States, ETL of the United States, CE of the European Union, the Construction Products Regulation (CPR) and the certificate of EC and American Bureau of Shipping(ABS), etc. And all products comply with the directive requirements of the RoHS and REACH as well.

Since it established about 30 years ago, the company has been always working hard, accumulating every little achievement and then moving forward step by step. And the core technology and product development are closely following the evolution of Ethernet technology.

The products are exported to more than 100 countries and regions worldwide with a wide application in various fields such as 5G communication, Cloud Computing, Data centers, Enterprise Network, Industrial automation, IoT, Home automation, special environment (medical, wind energy, marine, rail transit, photovoltaic, nuclear power and Aerospace) and other fields.

*Connect with
a brilliant future*

CULTURE

Mission

Provide value for customers
Create wealth for society

Vision

To be the world's advanced design
and manufacture enterprise of
data cables, special cables and
connection products.

Value

Concentration Innovation Quality
Reliable Efficient Sustainable

Service Concept

With ceaseless creativity
Satisfying our customers

1993-Present Development Process

1993-2000

Founded in Deqing, Zhejiang, Zhaolong entered the voice communication field and with a country-wide business.

2001-2012

Stepped into the era of Gigabit network (CAT5e and CAT6)
Started the era of 10-Gigabit network (CAT6A, CAT7, CAT7A)
Entered the field of high-speed Switches and Servers in data centers (14G-NRZ, 28G-NRZ)
The products are exported to more than 100 countries and regions worldwide

2013-Present

2013-Reached international advanced level with developing the CAT8 data cable (40Gbps)
Expanded the High-speed Interconnect product to 56G-PAM4 and 112G-PAM4
Stable forefront in the export volume of data cables in China
Developed Industrial data communication cable, Signal control cable, Robotic cable and its assemblies
Stepped into the industrial field
Set up Shanghai Innovation and Marketing Center, Hangzhou Research Institute
Be listed on the Shenzhen Stock Exchange in December, 2020. (SZ.300913)

INNOVATION-DRIVEN DEVELOPMENT

Scientific Research Strength



Research and production base of Shanghai Electric Cable Research Institute



The Industry-university Cooperation base with Tsinghua University



The Hangzhou Research Institute of Zhejiang University - Zhaolong Interconnect



the Industry-University Cooperation base with Zhejiang University of Technology



The accredited Laboratory of CNAS



The Satellite Laboratory of Intertek



The Provincial Enterprise Research Institute of Zhejiang



The Provincial Enterprise Technology Center of Zhejiang

R&D Team

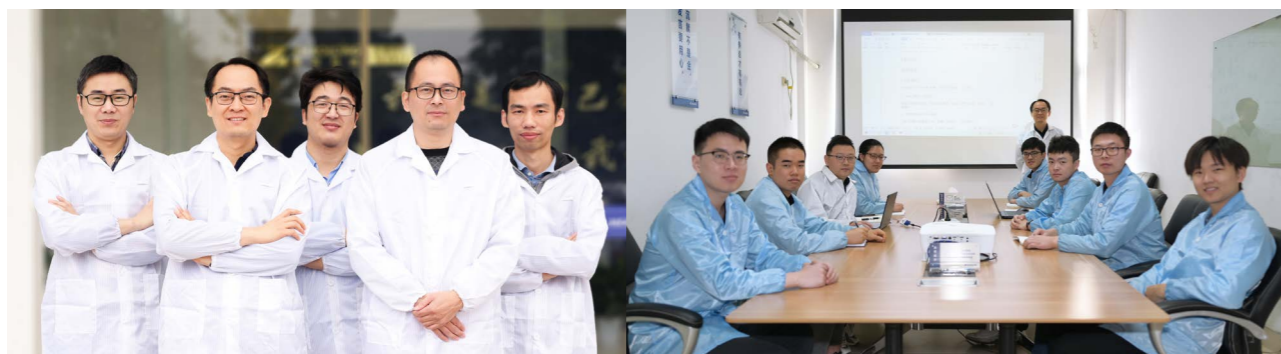
Over 100 people in the R&D team

Leading Experts:

The member of Optical and Cable Expert Committee of China, The senior member of IEEE(Institute of Electrical and Electronic Engineers), National Senior Engineer, Doctors and Masters from World-renowned universities

Cooperative Experts:

Fellow of IEEE, Experts of SECRI, Professors of famous universities, Experts of famous Research Institute

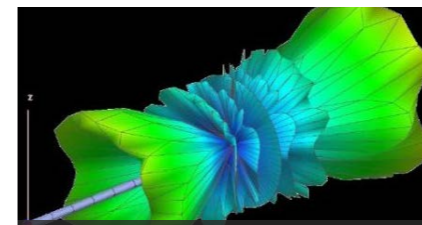


Development and Application of Materials

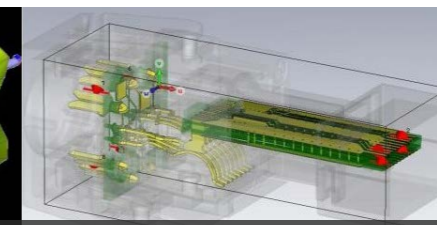
- High-frequency Cable conductor
- Copper Alloy Conductor
- Foamed insulation
- Fluoroplastics
- Flame Retardant Refractory
- Materials for Special environment
- tape



Design and Simulation



Algorithm Development of computational electromagnetics



electromagnetic simulation



physical design

Laboratories

- Material Analysis Laboratory
- Environmental Simulation Laboratory
- High-frequency Transmission Laboratory
- Combustion Laboratory
- Complex Laboratory (Optical System Test)
- Complex Laboratory (Comprehensive Test of Mechanical Environment)
- Complex Laboratory(Transmission performance test)
- Mechanical Durability Laboratory
- System Application Laboratory



The Profession from the Devotion

the scale of production capacity

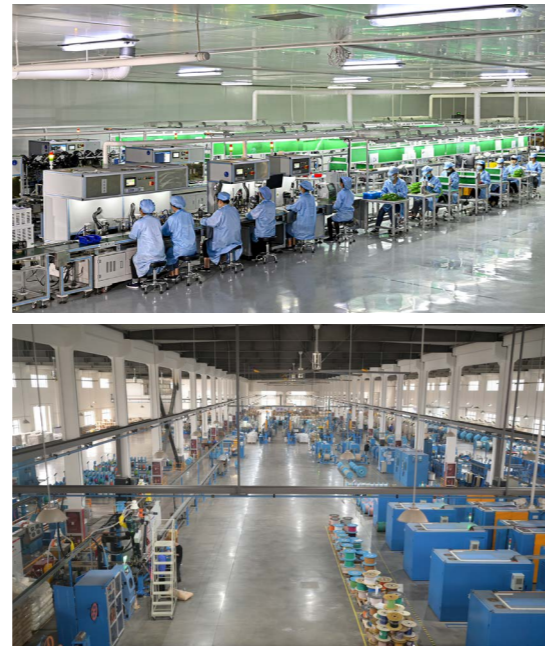
160,000 m²
of production base

1300
Employees

4 million boxes of data cables a year
5 million connection components a year

100,000 kilometers
of special cables a year

500,000 kilometers
of microelectronic cables a year

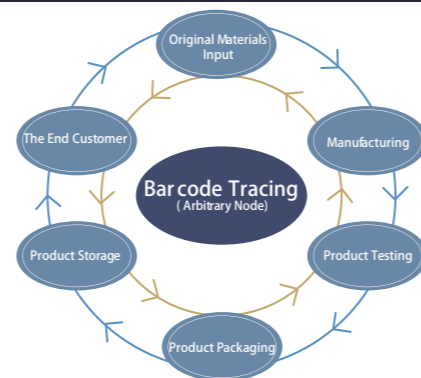


System Certification

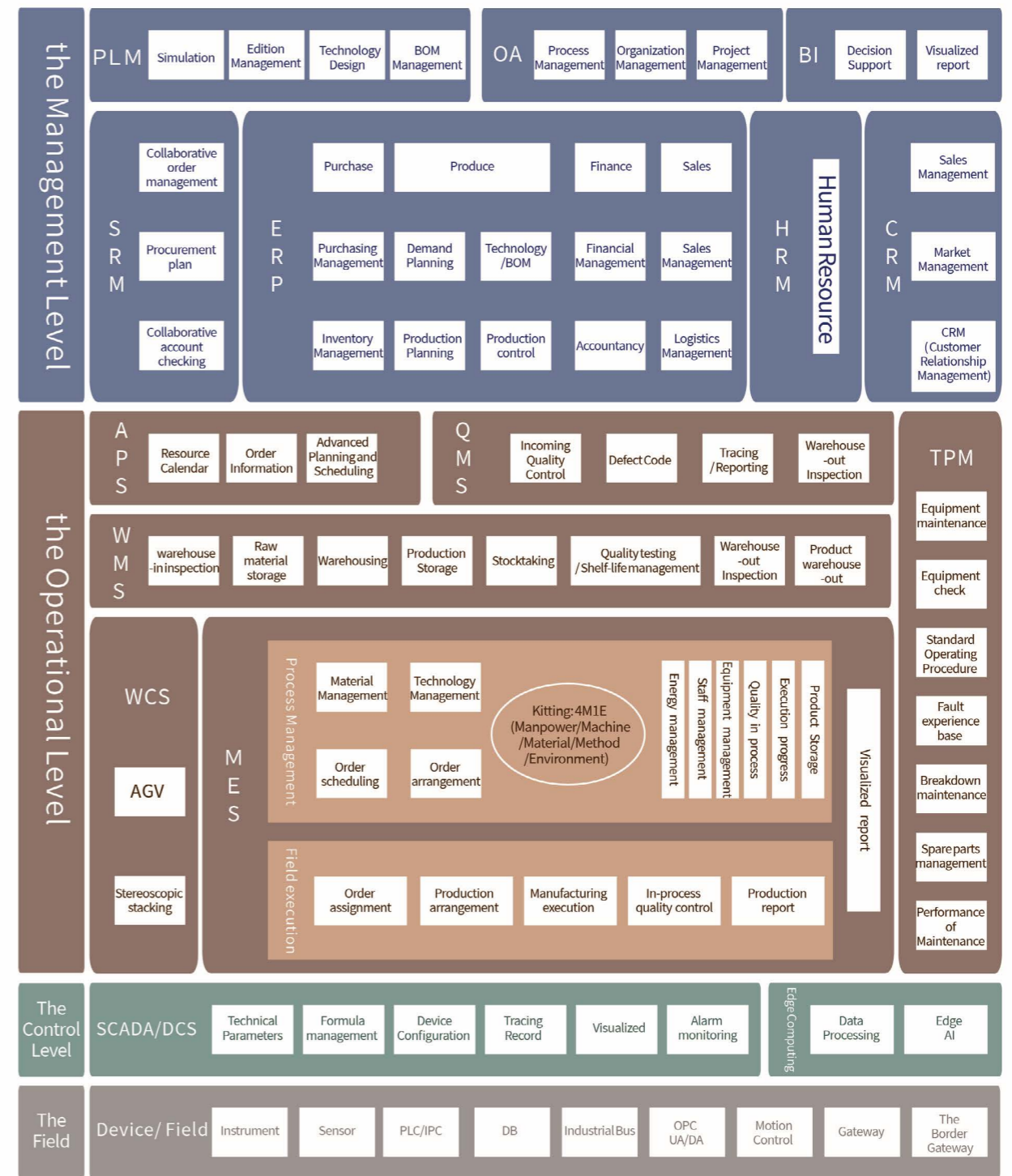


Product Barcode Traceability System

The company has realized the whole process of barcode tracing from original materials to products through the Barcode Traceability System. Information such as personnel, machine, time, original materials, products status and testing data can be found quickly and accurately. Meanwhile, the system has the functions of preventing errors and reducing false detection and leakage.

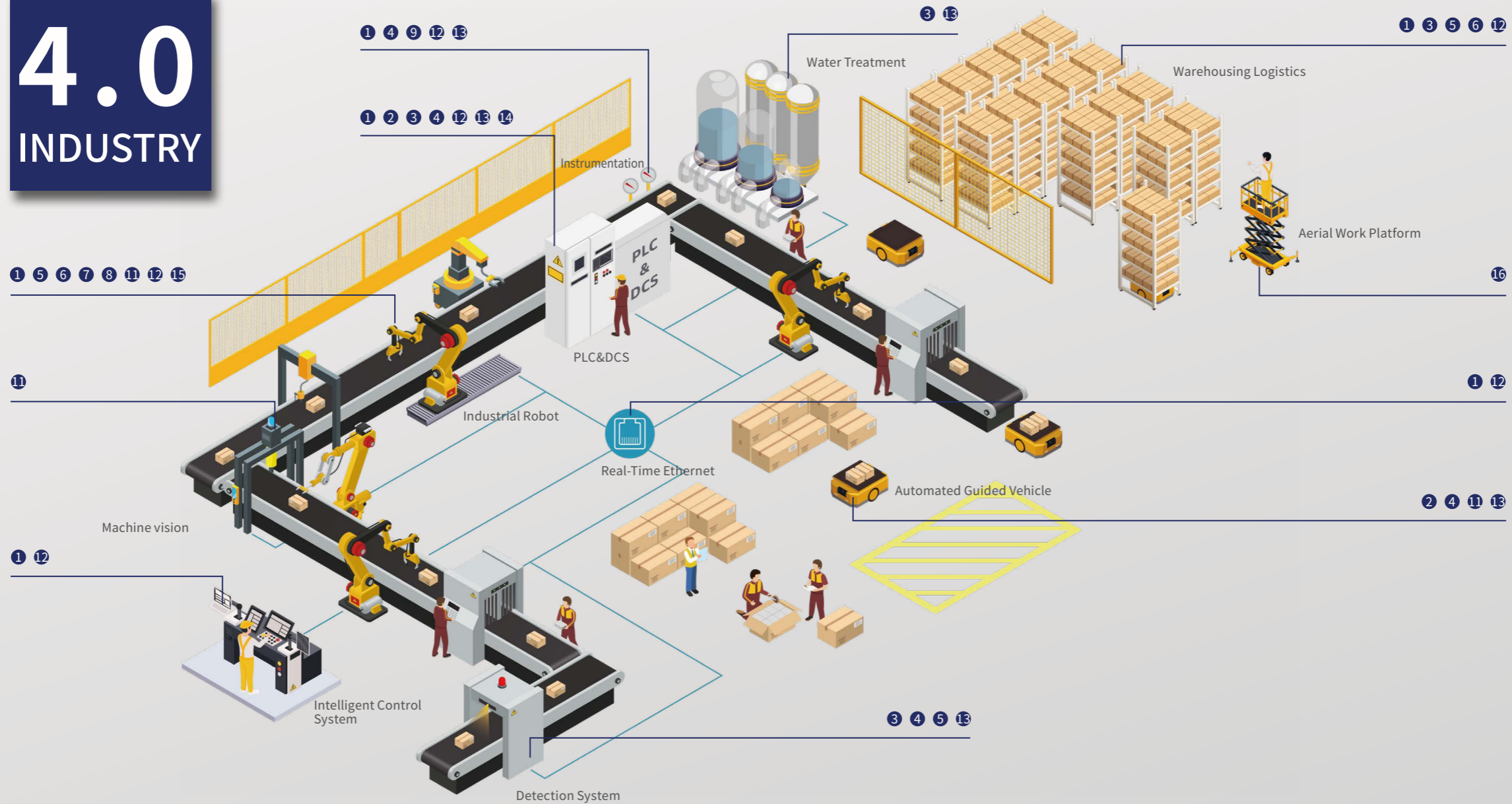


Digital, Automatic and Intelligent



FACTORY AUTOMATION SOLUTIONS

4.0
INDUSTRY



- | | | | | | | | |
|--|-----------------|-------------------------|----------------|----------------------------------|--|---------------------|---------------------------------------|
| ① Industrial Ethernet Cables | ③ Bus Cables | ⑤ Motion Control Cables | ⑦ Servo Cables | ⑨ High Temperature Cables | ⑪ Machine Vision Assemblies | ⑬ M8/M12 Assemblies | ⑮ Servo Assemblies |
| ② Low Frequency Data Transmission Cables | ④ Sensor Cables | ⑥ Drag Chain Cables | ⑧ Robot Cables | ⑩ Electrical Installation cables | ⑫ Industrial Ethernet Cable Assemblies | ⑭ D-SUB Assemblies | ⑯ Heavy Industry Machinery Assemblies |

LONGTRONIC® INDUSTRIAL DATA COMMUNICATION CABLES

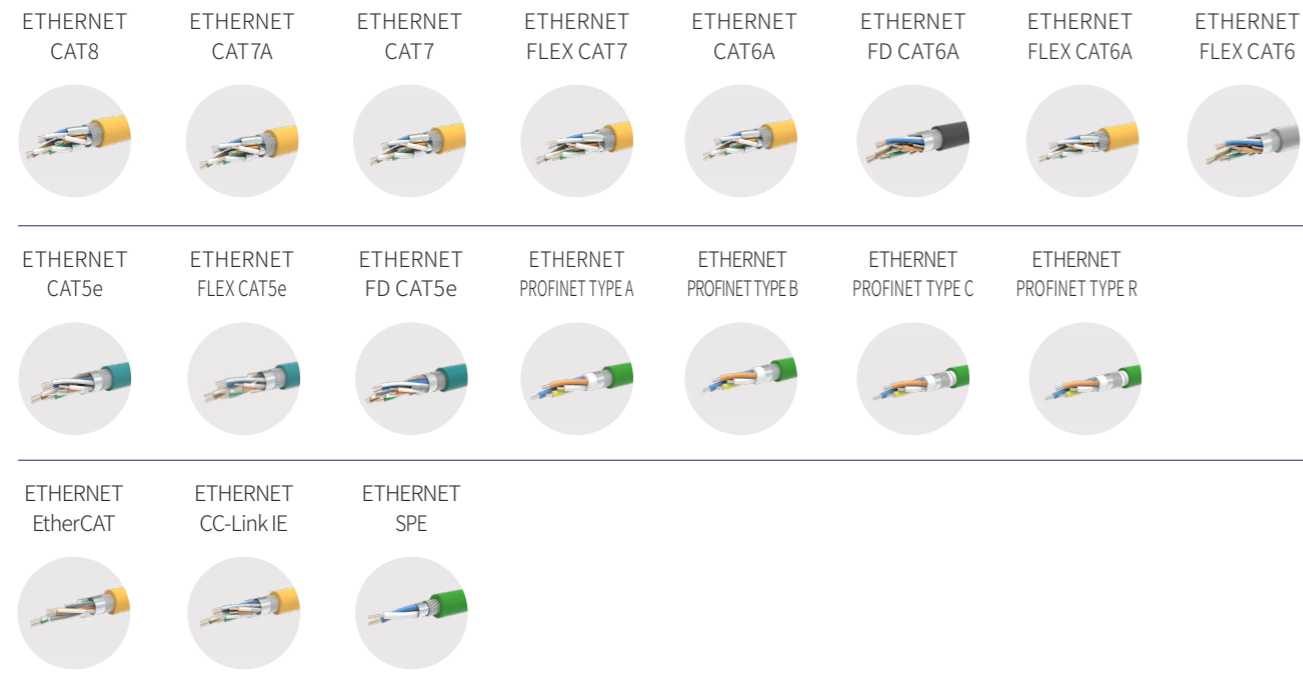
Industrial Ethernet Cable

Applications

Applied in complex industrial environment, suitable for EtherCAT and EtherNet/IP, guarantee safe and efficient operation of industrial production.

Features

Super anti-electromagnetic interference performance
Excellent transmission performance
Specially designed flexible cables can meet the requirements of drag chain applications
Products comply with UL certification



LONGTRONIC® INDUSTRIAL DATA COMMUNICATION CABLES

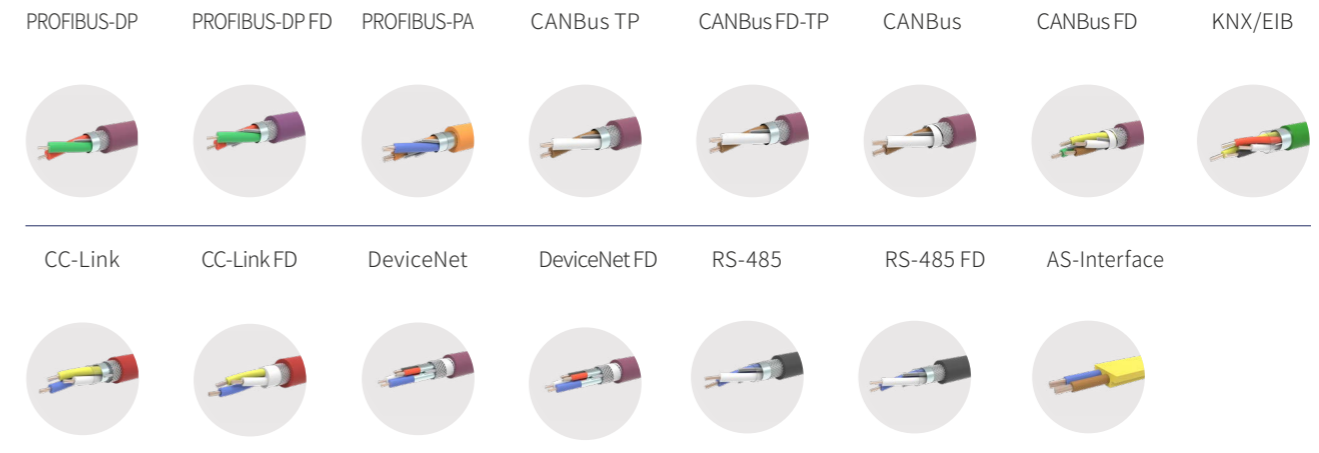
Bus Cable

Applications

Used in automated fieldbus systems in manufacturing, process operations, buildings, transportation and other occasions, It is used for information exchange and control between field-level equipment.

Features

Support multiple industry bus standards
Super anti-electromagnetic interference performance
Rich product categories are suitable for different applications
Products comply with UL certification



LONGTRONIC® INDUSTRIAL DATA COMMUNICATION CABLES

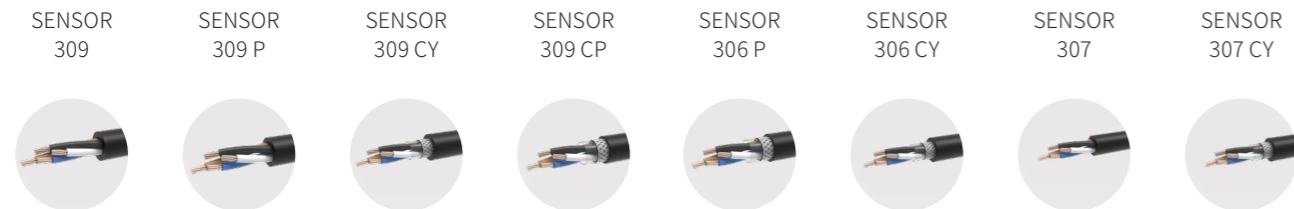
Sensor Cable

Applications

Used in industrial production, environmental protection, space development, medical diagnosis, bioengineering and other fields,Used for sensor connection to realize data monitoring and control.

Features

- Safe and Stable
- Long Lasting
- Variety of Products
- Products comply with UL, CE certification



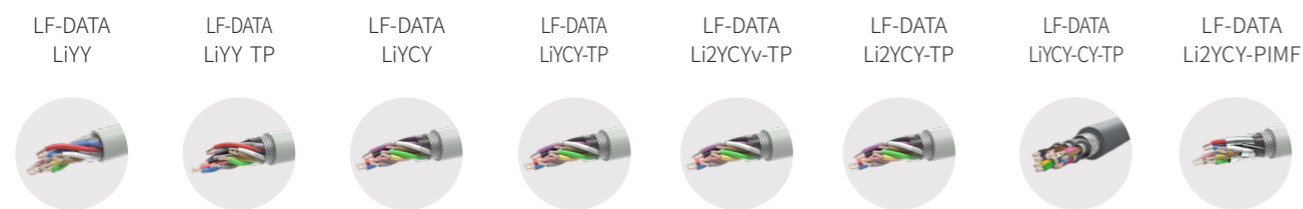
Low Frequency Data Transmission Cable

Applications

As signal transmission and control cables, used in computer systems, electronic control equipment, mechanical processing, Measuring instruments, assembly lines, etc.

Features

- Good Flame Retardancy
- The product has certain oil resistance
- Shielded cable has excellent anti-electromagnetic interference performance
- Products comply with UL certification



LONGTRONIC® INDUSTRIAL DATA COMMUNICATION CABLES

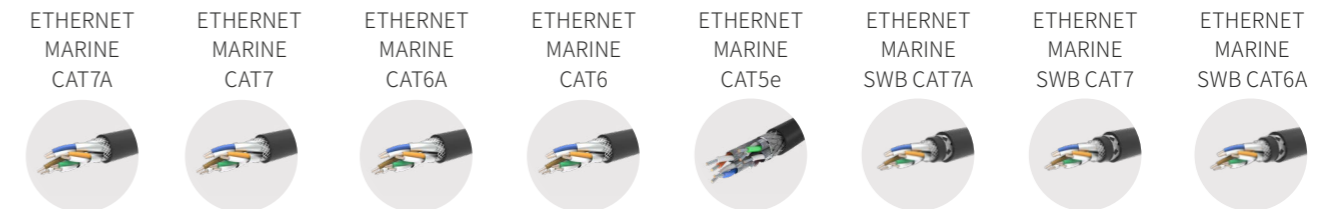
Marine Cable

Applications

Used in ships, offshore oil platforms and other maritime constructions and marine environments, etc. Harsh environment, used in marine data centers, marine acoustic navigation systems and other occasions.

Features

- Products comply with ABS certification
- High flame resistance meets the requirements of IEC60332-3-22
- SHF1 sheath and SHF2 sheath cables can be provided
- Super anti-electromagnetic interference performance
- Steel wire braided armored cable can withstand extreme tension



ETHERNET
MARINE
SWB CAT6

ETHERNET
MARINE
SWB CAT5e



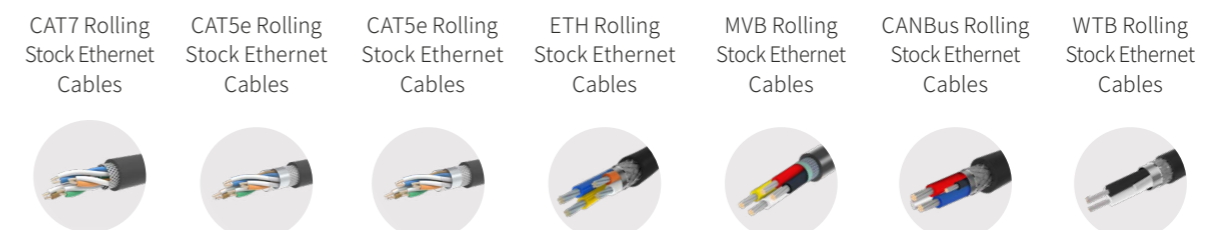
Rolling Stock Cable

Applications

It is applied to the PIS system, WIFI system, and vehicle operation and maintenance system of rail transit vehicles for information publicity, Entertainment and leisure and data monitoring collection.

Features

- The product meets the requirements of TJ/CL313, EN45545-2
- Cable has double oil resistance
- The cable has acid and alkali resistance
- The shielding method of aluminum foil and braid makes the cable have excellent anti-electromagnetic interference performance



LONGFLEX® INDUSTRIAL FLEXIBLE CABLE

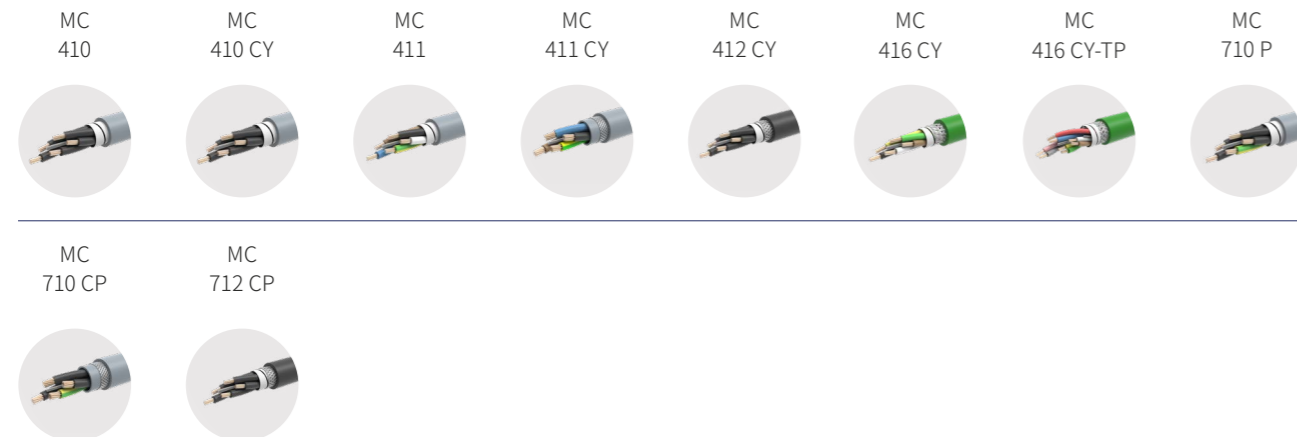
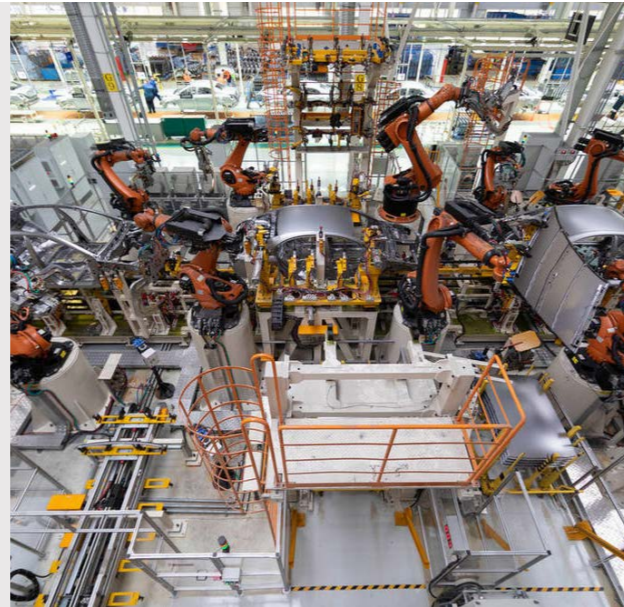
Motion Control Cable

Applications

Used in processing machinery, conveyor belts, machinery manufacturing production lines, air conditioning systems and steel production lines, etc. Suitable for fixed applications or low-speed drag chain applications.

Features

- Good flame retardancy
- High flexibility, resistance to bending and torsion
- The product has certain oil resistance
- Shielded cable has excellent anti-electromagnetic interference performance
- Products comply with UL, CE certification



LONGFLEX® INDUSTRIAL FLEXIBLE CABLE

Drag chain cable

Applications

Drag chain cables are suitable for measurement and control circuits, and can also be used as automation control and robots. The power connection line can also be used in the drag chain system of assembly lines, production lines and various types of machinery.

Features

- High Flexibility, Bending Resistance
- Oil and wear resistance
- Stable performance and long life
- Products comply with UL, CE certification



LONGFLEX® INDUSTRIAL FLEXIBLE CABLE

Robot cable

Applications

The robot cable can be used for the internal wires of industrial automation robot arms, inside and outside the intelligent robot Internal cables for high-speed drag chains.

Features

High flexibility, resistance to bending and torsion
Oil and wear resistance
Super anti-electromagnetic interference performance
Products comply with UL certification



ROBOTIC FD 930 CP ROBOTIC FD 930 CP-TP ROBOTIC FD 938 CY ROBOTIC FD 938 CY-TP



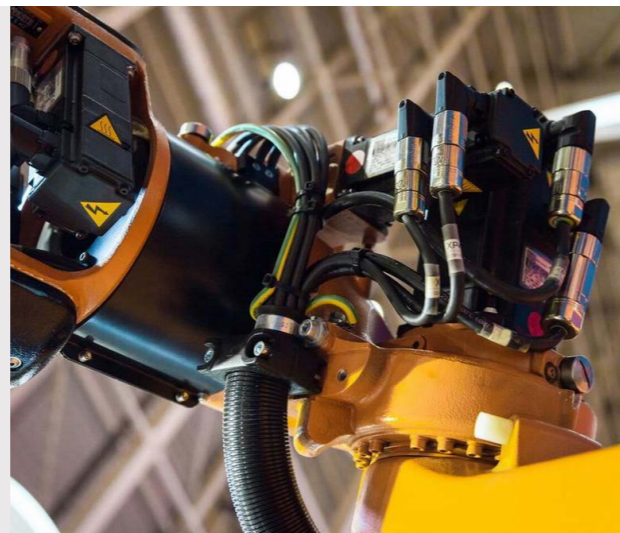
Servo cable

Applications

Used in CNC machine tools, robotic arms, laser processing equipment, automated production lines, etc., connected to the servo motor, realize the power supply and brake control of servo motor to ensure the mechanical movement of equipment high accuracy.

Features

Oil and wear resistance
Super anti-electromagnetic interference performance
Products comply with UL, CE certification



SERVO 312 CY SERVO FD 320 CY SERVO FD 320 CP SERVO FD 330 CP SERVO FD 340 CP



LONGHEAT HIGH TEMPERATURE CABLE & ELECTRICAL INSTALLATION CABLE

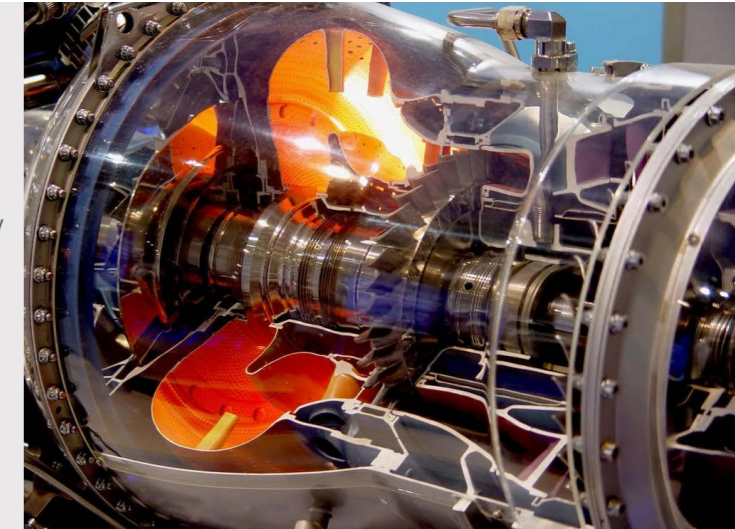
LONGHEAT high temperature cable

Applications

Used in processing machinery, engines, transformers, machinery manufacturing production lines and steel production lines, etc. Especially suitable for installation and use in high temperature environment.

Features

The product has excellent heat resistance, cold resistance, chemical stability and solvent resistance
Designed to meet special high temperature environment applications to ensure excellent product performance
Products comply with UL, CE certification



SC 105 PVC MC 105 PVC SC 125 XLPO MC 125 XLPO SC 205 FEP SC 250 PFA



Electrical Installation Cable

Applications

Used in electrical equipment control connection. It is suitable for installation and use of machine tools and complete sets of equipment.

Features

Flame retardancy meets IEC60332-1
The product has good flexibility
High-quality products, durable
Products comply with CE certification



H05VV-F H03VV-F H05V-K, H07-K RVVYP RVVY RVVP RVV RV



MEDICAL CABLE

Medical cable

Applications

Medical equipment connection and data transmission cable, used in endoscopes, ultrasound probes, surgical machines, Robots and other aspects.

Features

Resistant to bending and torsion
 Excellent anti-electromagnetic interference performance
 The product has excellent transmission performance



Ultrasonic Equipment Probe Cable



Endoscope Cable



Medical Equipment Cable



Medical Flexible Radio Frequency Cable



High Temperature and Low Loss Medical Coaxial Cable



Medical Surgical Robot Cable



Endoscope Arm Cable



MACHINE VISION ASSEMBLIES

Machine Vision Assemblies

Applications

Designed for machine vision systems, industrial cameras, in motion control and other harsh environments. Provide guarantee for camera data transmission. Products are used in consumer electronics, robots and automobiles. Automotive automation, semiconductors, PCBs, etc.

Features

The perfect matching of cable assemblies and visual monitoring products of different connectors solves different customers' demand. Excellent and stable performance in harsh environments, such as oil, acid and alkali, and humid environments. Different cable products can meet the needs of different applications (fixed cables and high flexible cable). The cable has a very small bending radius, suitable for installation in a small space. The shielding design makes the cable have super anti-electromagnetic interference performance to ensure the reliability of the signal and completeness. It can provide drag chain cable products that meet the requirements of 10 million times or more. Product service life can reduce maintenance time, downtime and total cost. Multi-angle high-quality cable joints can meet different wiring angles and space requirements (straight and elbow).



Camera Link



USB 3.0



GigE Ethernet



10 Gige Ethernet



CoaxPress



Camera Power Cable HR10A-7P-6S



Camera Power Cable M8 6PIN



Camera Power Cable M12 A 12PIN



INDUSTRIAL ETHERNET ASSEMBLIES

Industrial Ethernet Assemblies

Applications

The product is applied in factory automation, rail transit, smart power, military communication network and other occasions, Used in EtherNet/IP, EtherCAT, CC-Link IE, PROFINET and other protocols and standards.

Features

- Cable flame retardancy meets IEC60332-1
- Excellent anti-electromagnetic interference performance
- Excellent product transmission performance
- Products with different sheath materials can meet different application requirements
- Protection level can reach IP20, IP65, IP67
- Provide fixed application and high flexible drag chain application products
- M12 X Code connector assemblies can meet the requirements of 10G network applications



CAT5e/CAT6 /CAT6A RJ45-RJ45



FD CAT5e RJ45-RJ45



M12-M12



M12-RJ45



Industrial Ethernet Assemblies M8-M8



PROFINET TYPE A/B/C Assembly M12-M12



PROFINET TYPE A/B/C Assembly M12-RJ45



PROFINET TYPE A/B/C Assembly RJ45-RJ45



M12 X-code-M12 X-code



M12 X-code-RJ45



M8/M12 & D-SUB ASSEMBLIES

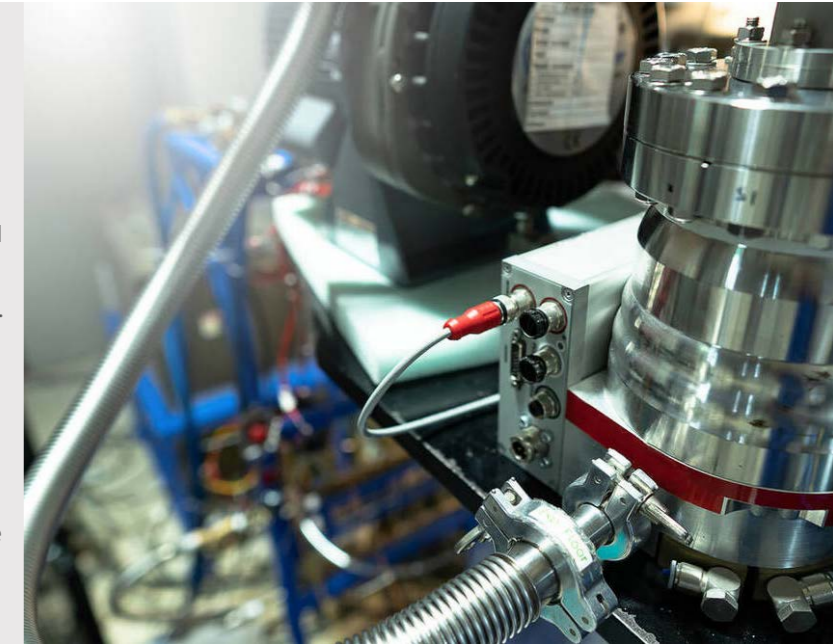
M8/M12 Assemblies

Applications

Products can be used in industrial automation production, resource exploration, environmental protection, aerospace and other fields, Mainly to realize signal control and data transmission functions.

Features

- Cable flame retardancy meets IEC60332-1
- Shielded products have excellent anti-electromagnetic interference performance
- PUR sheathed cable assembly has excellent abrasion resistance and oil resistance
- Protection level can reach IP65, IP67



PROFIBUS DP Assembly M12-M12



DeviceNet CANopen Assembly M12-M12



3/4 Pole M8 Assembly



3/4/5/8 Pole M12 Assembly



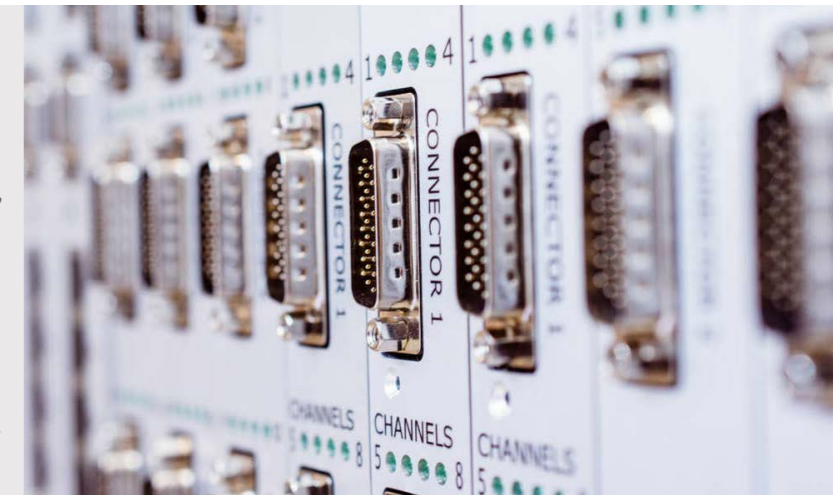
D-SUB Assemblies

Applications

Products are used to connect serial devices, industrial PCs, etc., and are mainly used in photovoltaic and wind power industries.

Features

- Cable flame retardancy meets IEC60332-1
- Shielded products have excellent anti-electromagnetic interference performance
- Can provide 9Pin, 15Pin, 25Pin, 37Pin, 62Pin multiple connector products



DB9 Assembly



DB15 Assembly



DB25 Assembly



DB37 Assembly



DB50 Assembly



HEAVY INDUSTRY MACHINERY ASSEMBLIES

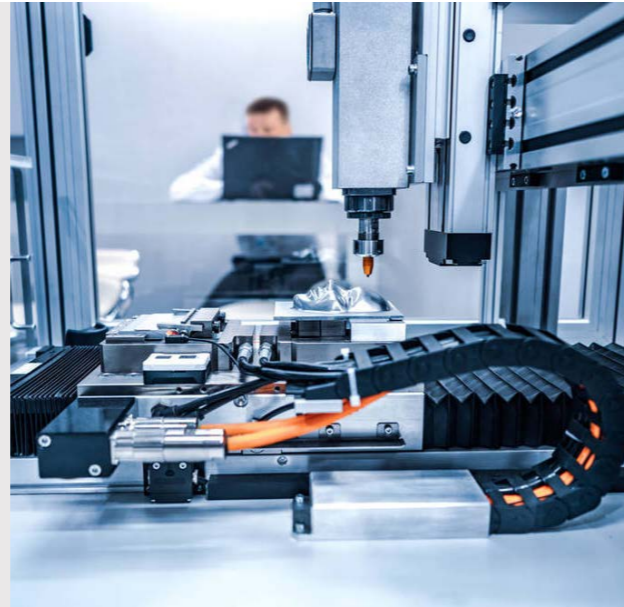
Servo component

Applications

Used in CNC machine tools, robotic arms, laser processing equipment, automated production lines, etc., connected Servo motor and encoder realize the power supply of servo motor and signal control of encoder. Ensure the accuracy of equipment operation.

Features

Cable flame retardant meets IEC60332-1
Shielded products have excellent anti-electromagnetic interference performance
The product has good flexibility and can be used in drag chain system
Optimal connectors and self-made cable products ensure a long service life of the product



V90 Servo Motor Wiring Harness

Motor Power Cable Assembly



Encoder Cable Assembly



Brake Cable Assembly



Set Point Cable Assembly



Mitsubishi Electric Servo Wire Harness

Motor Power Cable Assembly



Encoder Cable Assembly



Encoder Cable Assembly



Brake Cable Assembly



HEAVY INDUSTRY MACHINERY ASSEMBLIES

Heavy Industry Machinery Assemblies

Applications

Widely used in construction machinery, textile machinery, packaging and printing machinery, tobacco machinery, robots, Rail transit, hot runners, electricity, automation and other equipment that require electrical and signal connections in preparation.

Features

The lock type connection design effectively guarantees the safety, reliability and firmness of the connection
Different IP protection, high protection series can meet IP67&68
A variety of housing options can meet the stringent requirements of different environments
With highly flexible cables, it can be applied to highly flexible mobile occasions such as robots





ZHEJIANG ZHAOLONG INTERCONNECT TECHNOLOGY CO.,LTD.
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