Company Overview

Steady Growth | Continuous Expansion | Sustainable development 凌特國際股份有限公司 Lintronix Co., Ltd.

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treadmaster







Adaptaflex













About Lintronix

Lintronix Co., Ltd. founded in 1987 and headquartered in Xinzhuang, New Taipei City, has branch offices in Taichung and Kaohsiung for convenient customer service. The company represents high-quality European industrial components, providing solutions to enhance product quality and factory efficiency in the machinery industry.

For nearly 40 years, Lintronix has prioritized integrity, quality, professionalism, and responsibility. With a commitment to sustainable growth, the company focuses on building strong systems, nurturing talent, and embracing digital management. Lintronix aims to create value by boosting customer satisfaction and competitiveness, generating profit to give back to society, and fostering personal and professional growth.



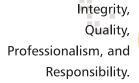
Business Objectives

Generate profit, give back to society, foster personal growth, and support others' success.



Mission

Boost customers' global competitiveness by reducing labor hours, cutting costs, extending product lifespan, and increasing added value.



Business Philosophy





Management **Strategy**

Corporate

Establish systems, nurture talent, and implement digital management.

Build a proactive, efficient, and collaborative management team.

Ideal **Scenario**



Knowledge Management

The energetic "Good morning, hello" starts our workday, setting a tone of open communication. In morning meetings, we encourage team members to speak up, enhancing critical thinking and market insight. These meetings also help new employees integrate and allow for sharing work experience to build skills.

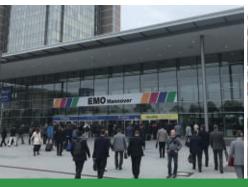
In the knowledge economy, Lintronix enhances professional growth through "article sharing," book exchanges, and reflections compiled as "Lintronix Essays" in our "Special Edition" for suppliers and clients worldwide. Through ongoing training, we strengthen skills, broaden international perspectives, and pursue growth while helping others succeed.







▲ Visit to the InnoTrans Exhibition in Berlin, Germany







BUSINESS AREAS

Lintronix Co., Ltd. is committed to sustainable growth by launching new products and expanding services. We send technical and business staff to advanced countries like Europe and the U.S. for seminars, product launches, and visits to top exhibitions and factories, gaining unique product insights. We bring high-quality, compliant products to market, sharing supplier success stories and user experiences, creating a win-win situation for our customers, suppliers, and Lintronix.



Rolling stock and infrastructure

Rolling stock and infrastructure With the rapid growth of urban public transport and increased maintenance needs for long-distance rail, Lintronix Co., Ltd. partners with top manufacturers from Germany, Switzerland, and France to offer wiring solutions meeting IEC and EU standards. We provide expert planning and support, positioning ourselves as a trusted technical partner for complex on-board vehicle challenges.

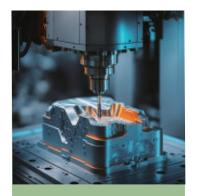
Industry 4.0

To boost industrial competitiveness, global governments and large enterprises are heavily investing in IIoT, big data, cloud computing, AI, and industrial robotics. Lintronix Co., Ltd. responds to these trends by offering advanced products like smart sensors, fieldbus systems, data modules, robot protection kits, and precision calibration tools, delivering comprehensive smart factory solutions.



Machinery industry

For nearly 40 years, we have been deeply involved in various mechanical and mechatronic fields, serving a wide range of industries including machine tools, rubber and plastic machinery, mold making, electronic machinery, semiconductors, military, aerospace, shipbuilding, green energy, petrochemicals, and power transmission and distribution.



Application Wiring Accessories

ABB PMA

Cable Protection System

PMA Cable Protection System PMA offers robust cable protection for machinery and equipment, with solutions like a three-layer tube with IP69 waterproof connectors for processing areas and flexible, impact-resistant systems for harsh environments. PMA products are flame-retardant, low-smoke, halogen-free, and certified to EU CE, IEC, and UL standards, meeting global manufacturing needs.



- Various cable protection and accessories developed by PA6 and PA12 materials.
- Applications for machinery, rolling stock, track side, petrochemicals, and shipbuilding.
- Widerange of fittings to accommodate various installation angles and wiring requirements.
- Passes IP66, 68, and 69 protection level tests, with excellent connector sealing performance.







CE 1258 II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db
SEV 15 ATEX 0121X, IECEX SEV 15.0009X



Explosion-Proof Products







- Special Explosion-Proof conduits:
- PMA EX uses a special anti-static formula and complies with increased safety explosion-proof standards.
- ◆ It is suitable for Zone 1/2 gas explosion protection and Zone 21/22 dust explosion protection.
- A full range of fittings is available to address installation challenges.
- These products are used in petrochemical plants, electronics factories, pharmaceutical manufacturing, synthetic fiber plants, and power plants.



Cable Assembly solution for mechanical equipment



EFK Cable Drag Chains

Product Features:

- Sturdy, robust, and durable modular structure.
- Easy installation with a comfortable assembly experience.
- Layered cable separation design for simplified wiring.
- Quick cover-opening design for efficient construction and labor savings.
- Provides Chainbuilder CAD/3D files for model selection.

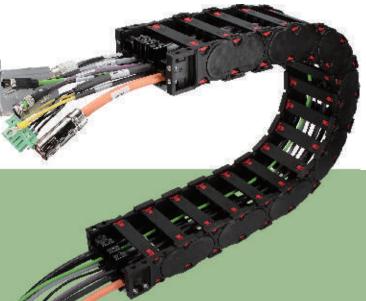


ACS Labelling System

ACS Labelling System the eco-friendly label is water-resistant, non-deformable, UV-resistant, and fade-proof, with clear text. Ideal for labeling pipelines, equipment enclosures, and nameplates.

Product Features:

- Efficiently prints letters, numbers, and symbols.
- Pre-designed layout simplifies wiring.
- Easy installation cuts wiring time by 60%.
- Offers custom printing, removing inventory needs.
- Allows data transfer from CAD and easy data storage/modification.
- User-friendly, easy-to-use software.



KDH Cable Entry Systems& Holders

KDH adopts a modular design, solving the assembly issues caused by original connectors with cables that cannot pass through sheet metal smoothly. The use of the cable entry plate enhances the convenience of after-sales service.

Product Features:

- Standardized opening sizes for multipole connectors HB16/HB24.
- Adding, removing, or replacing cables only requires changing the cable clamp without modifying the sheet metal opening.
- Protection rating from IP40 to IP69K, with an EMC version available.



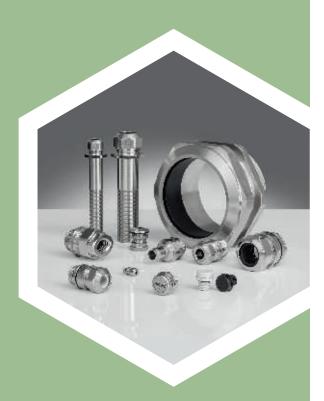
binder

Connectors

Product Features:

- Leading brand of European circular connectors.
- Commonly used in automation equipment, instruments, semiconductor equipment, medical devices, and automotive systems.
- Superior and stable quality.
- Offers cable processing services; inquiries are welcome.







Cable Glands & Pressure Balance elements

Product Features:

- Developed and manufactured high-quality cable glands according to EN 62444.
- ◆ Temperature application range: (-40°C to +200°C), with protection ratings of IP68/IP69.
- Special waterproof clamping claw design prevents cable twisting during installation.
- Complies with EU EN 45545 and US NFPA 130 standards.
- Certified by DNV for marine applications.
 Provides EMC solutions.
- Explosion-proof products comply with IECEX/ATEX/TS standards, suitable for Zone 1/2 gas explosion protection and Zone 21/22 dust explosion protection.
- Widely used in industrial machinery, semiconductor equipment, railway vehicles, electric buses, marine, and explosion-proof areas.















BizlinkElocab's particle free cable drag chains and Teflon flat cables are commonly used in the panel, semiconductor, medical industries, and AOI inspection equipment. The Teflon material reduces the friction coefficient between the cable and the drag chain, achieving cleanroom classification ISO Class 1.

Product Features:

Custom Systems and Assemblies (FST)

- Flexible durability of over 10 million cycles.
- In-stock availability for quick sampling.
- Offers cable harness services.

HPF High Performance Flex Cable (HPF)

- Flexibility durability of up to 150 million cycles.
- Ideal for narrow installation spaces.
- Customized production based on specific functional requirements.
- Minimum order quantity: 100 meters.

Harnessflex

Specialist Conduit Systems for Heavy Automative

- Founded in 1984.
- Experts in wire protection solutions for harsh environments, including high temperature, vibration resistance, and waterproof capabilities.
- Products: wire protection conduit systems, connectors, and interfaces.
- Commonly used in heavy machinery, agricultural equipment, trucks, garbage trucks, forklifts, buses, EV vehicles, and generator sets.
- Connector interfaces compatible with TE AMP, TE Deutsch DT, FCI, Bosch, Aptiv, Kostal, Sumitomo, and other automotive connector brands.
- Offers a variety of Y.T.X type connectors and reducers.



Adaptaflex

Flexible Conduit Systmes

Offers both metal and non-metal protection conduits and accessories. The key features of the metal products include easy installation, convenient construction, and excellent EMI shielding. These products meet world-leading industry standards and certifications, including CE, UL, and others.

Product Features:

- Corrosion-resistant and rust-proof.
- High compression resistance and impact resistance.
- "Push-Twist-Pull" quick installation system.
- Proven patented design with a lifespan of over 20 years.





Connectivity solutions

- Motors, servo control, sensors, drag chains, industrial robots, encoders, high-temperature resistance, communication equipment, and more.
- Available for small quantity purchases, inquiries are welcome.





Connectors for Increased Motor Productivity

- High power, compact size, available from M12 to M58.
- ◆ Straight, angled, and flange panel types, with a maximum single-point current rating of up to 200A.
- Suitable for automation machinery, robotic arms, European standard servo motors, optical scales, and heavy industrial equipment.



HellermannTyton

Profession Cable Management

HellermannTyton, Profession Cable Management Specializing in material research and development, the company offers cable management solutions, including cable ties, tie guns, fasteners, heat shrink tubing, terminal blocks, connectors, labeling, printing equipment, and tools. Their products come with comprehensive testing reports and certifications for various industries, including aerospace, agriculture, automotive, defense, food, rail, solar, construction, medical, and wind power.



Application Heating Elements



Industrial Heating and Thermal Engineering



Products:

- Cartridge Heater
- Wound Heater
- Flexible Heater
- Thermocouples
- Extended Nozzle for Plastic Injection Molding Machines
- Cast Material Tubes
- Material Tube Insulation Sleeves

Applications:

- Hot Runner Molding Systems
- Plastic Injection Molding Machines
- Plastic Extrusion Machines
- Plastic Vacuum Forming Molds
- Plastic Sealing and Bagging Machines
- Zinc Alloy Hot Chamber Die Casting Industry
- Other Machinery and Instrument **Heating Products**









Complete Infrared Heating Systems

- Coating Industry: Metal Coating, Wood Coating, Plastic Coating, Electroplating Industry.
- Food Industry: Food Insulation and Baking.
- Packaging Industry: PVC Shrink, PVC and PSP Vacuum Forming.
- Plastic Industry : Vacuum Forming Machines.
- Semiconductor Industry: Wafer. pipe Heating, Testing Instruments.
- Paper, Glass, Electronics, Footwear, Medical Industry.











FSR

Application **Explosion Proof- IECEx**



Ex Systems for hazardous areas

PMA Ex products meet IECEx, ATEX, InMetro, TR-CU, CNEx, and Taiwan TS explosion-proof standards for petrochemical plants, power plants, and food and pharmaceutical factories. Their nylon cable protection pipes and connectors offer superior UV, vibration, impact, weather, and corrosion resistance, ensuring over 20 years of service life with proper installation. Unlike metal conduits, these non-corrosive, lightweight pipes are easy to cut and install on-site. Rated IP66 and IP68, they are suitable for outdoor waterproof and dustproof applications. Anti-static PA12 nylon materials make them ideal for Zone 1/2 and Zone 21/22 explosion-proof areas. Non-explosion-proof options are also available. Contact us for more details.

Product Features:

♦ RTI 110°C Surface Resistance<10 ^ 6 Ω

XESX Conduit Size Range

NW 10, 12, 17, 23, 29, 36, 48 Inner diameter: 9.2 to 46.8 mm



IP66. IP68 Fittings

- ◆ NENV Straight conduit fitting
- ◆ NEIR Straight female conduit fitting
- ♦ NENZ Straight conduit fitting with strain relief
- ◆ NEBV 90° Elbow fitting
- ◆ NEWV 90° Elbow fitting
- ◆ NEAV 45° Elbow fitting
- ◆ BESGR Splice connector
- BEYR Y piece
- ♦ BETR T piece
- ◆ BEAVR Conduit adapter
- ♦ BENRRE Corrugated conduit to rigid metal pipe connection
- ◆ BEH Conduit clip



Ex Metallic Conduit Systems



The Kopex-Ex cable protection system provides robust metal conduits, in galvanized or stainless steel, for hazardous areas. Certified to ATEX, IECEx, and EAC Ex standards, it's ideal for explosive environments. The system includes fixed and rotatable fittings, connectors, and cable glands for both armored and non-armored cables, along with nuts, reducers, and NPT adaptors for easy installation in hazardous zones.

Application **Control Elements**





Fieldbus I/O Systems

Fieldbus I/O Systems The Internet of Things (IoT) in industrial applications, along with miniaturized control box components, improves space efficiency and production output while enhancing competitiveness. A modular fieldbus system reduces assembly and wiring costs and offers diagnostics and downtime fault warnings, minimizing downtime and increasing protection levels. By integrating virtual and physical systems, it supports the transition to smart manufacturing. With simple settings, data from intelligent monitoring can quickly establish "smart production lines" and facilitate big data collection, providing manufacturers with high-value solutions for production.

Product Features:

- Reduces planning time and assembly hours.
- Lowers wiring labor costs significantly.
- Plug & Play functionality.
- Circuit protection and diagnostic feedback.
- Easy expandability for production line adjustments.
- Supports various communication protocols.
- Enables Industry 4.0 and smart machinery.



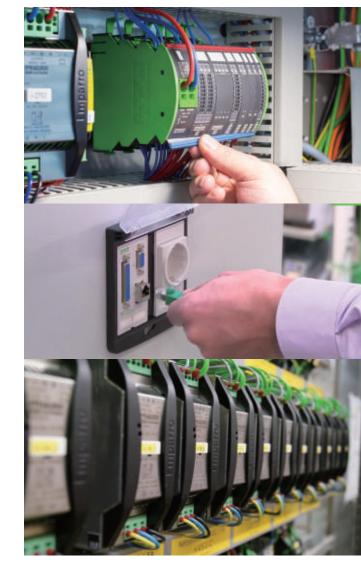






OIO-Link





BizLink

Advintec TCP

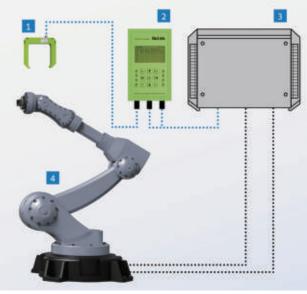
Calculation and calibration of robotic tools and fixtures in up to 6 dimensions

Aligned with smart manufacturing, this system resolves robotic arm path deviation and precision compensation issues, reducing defective workpieces and enhancing yield and production efficiency. It includes built-in machining applications tailored for six-axis and collaborative robotic arms from brands like ABB, Yaskawa, Kuka, Fanuc, Staubli, and UR.

The TCP calibration system supports smart factories by reducing defects and increasing productivity. It calibrates during production, enabling preventive maintenance without downtime, automatically adjusting tool TCPs and position deviations. The software saves time by eliminating extensive manual programming and reduces the need for manual calibration. An optional platform with specialized software is available for welding, screw fastening, grinding, and cutting.









Smart Sensors

- IO-LINK standardized configuration reduces the threshold for integrating smart sensors.
- More than 8,000 types of sensor products are available.
- Product range includes proximity switches, fiber optic amplifiers, transparent object detection sensors, safety light curtains, color recognition sensors, and common photoelectric switches.
- Applications: packaging, spindles, machine tools, tool magazines, and automation equipment.



POSITAL Industrial Position and Motion Sensors

- POSITAL is a leading manufacturer of advanced industrial position sensors, widely used in motion control and safety systems.
- Core product line is encoders, focusing on high-tech solutions for industrial automation.
- Their portfolio includes hundreds of thousands of components, including inclinometers and over 100,000 types of encoders.
- Products are suitable for industrial machinery, material handling, automated mobility, robotics, and explosion-proof motors.





Inclinometers

The system offers repeatability of up to 0.1°, with resolution as high as 0.01°. It supports a measurement range of $\pm 90^{\circ}$ for dual-axis or 360° for single-axis configurations, and has a protection rating of up to IP69. Multiple communication interface options are available, along with an explosion-proof inclinometer series.

Encoders

The development focuses on high-precision sensors that support various European communication interfaces, offering incremental, absolute, and magnetic encoders. Additionally, there is a series of explosion-proof encoder products available.



Surge Protection Devices (SPDs)

With over 100 years of experience in designing lightning protection and grounding systems, Furse ensures that critical systems can continue operating even during direct lightning strikes. Furse's electronic system protection products (SPDs) provide the highest level of transient protection, delivering a comprehensive lightning protection solution in compliance with IEC/BS EN 62305 standards.

Application

- Safety grounding and lightning protection.
- Transient overvoltage protection for electronic systems.

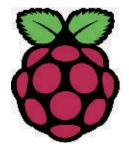






Automation & Robotics: Customized Solutions

Providing complete cable protection solutions for six-axis robotic arms from ABB, FANUC, KUKA, YASKAWA, TM, UR, and others. Based on the arm's operating environment, conditions, and application, we offer selection and installation recommendations. We also provide bundle design and manufacturing services, helping customers quickly deploy and maintain robotic arms, including replacement and repair.



Industrial Raspberry Pi (Edge Computing Single-Board Computer)

Industrial applications require IP protection, excellent heat dissipation, high stability, and EMC resistance. The industrial version of the Raspberry Pi uses industrial-grade electronic components and undergoes rigorous vibration, acceleration, and EMC testing. It is suitable as a 24/7 operational industrial controller, AI edge computing, machine diagnostics and monitoring, small PLC, smart appliance control, and countless other applications.

Product Features:

- ◆ ARM processor with extremely low power consumption (energy-saving).
- 12/24VDC industrial-grade voltage control.
- Lower cost advantage compared to traditional IPCs.
- Extensive free open-source software (OSS) and libraries.
- Excellent heat dissipation with a metal casing, suitable for 24/7 operation.
- Wireless data transmission enabled by pairing with rMICA modules.



Application

Rolling stock and infrastructure



Railway Vehicle Specialized Cables

Railway Vehicle Specialized Cables Studer Cables specializes in cables for harsh environments, serving sectors like railway vehicles, electric vehicles, energy facilities, and airport runway wiring. They offer comprehensive in-house development, from plastic formulation to cable production and electron beam crosslinking.

Renowned for their durability, Studer Cables conducts extensive research on materials resistant to oil, fuel, UV rays, and ozone, resulting in robust outer sheath materials designed to last up to 30 years in harsh railway conditions. Their cables can withstand temperatures from -40°C to +120°C, with short tolerance ranges of -50°C to +125°C.

All railway cables are flame-retardant, lowsmoke, halogen-free, and release no corrosive gases when burned, ensuring safety in case of fire.



European (EN) Standards:

EN 45545-2: Fire protection for railway vehicles.

EN 50264: Standard wall thickness insulated cables with cross-linked properties.

EN 50288: Analog and digital communication and control cables.

EN 50306: Thin-walled insulated cables.

International Standards:

IEC 62995: Wiring installation rules for railway vehicles.

IEC 60216: Test methods for heat resistance and aging.

IEC 60287: Rated current calculation for cables.

IEC 60332: Fire safety testing standards.

IEC 60811: Common test methods for materials.

IEC 61156: Digital communication cables.

NFPA 130: Fixed guideway and passenger rail systems standards.

RTE 49610: Swiss train carriage cable standards.

UIC 895: International Union of Railways (UIC)

technical standards.







ABB PMA

Railway Transportation Cable Protection System

PMA is a leading brand in cable protection conduit systems for railway vehicles. They prioritize rigorous composite material development and conduct strict durability tests to ensure quality. With a commitment to continuous improvement in manufacturing processes, PMA sets the standard for fire safety in global markets, firmly positioning itself as a guardian of safety for railway vehicle cable protection.

Product Features:

- EN 45545-2 standards, including HL2 and HL3 fire safety requirements, ensuring low smoke, non-toxic, and flameresistant properties.
- Exterior Protection: XPCS, XPCSF
- Interior Protection: VAM, Braided Mesh F.66, G.PX
- Chassis Bogie: XVCSF
- Fitting Types: Metal thread connectors at straight, 45°, and 90°angles, with EMC accessories.
- ◆ IP69 protection and fire resistance compliant with EN 45545-3 standards when paired with Roxtec kits.













GIMOTA

Railway Connectors

GIMOTA specializes in providing connector solutions for railway vehicles. Their offerings include military-grade (circular), square heavy-duty, single or multi-pin connectors for high current applications (above 200A), D-SUB, M12A, D, X, and fiber optic data connectors. With expertise in wiring harness processing, vehicle modification, and extensive market experience, GIMOTA delivers complete solutions to clients. It is a preferred brand chosen by European car manufacturers and CRRC Group's equipment factories.

Product Features:

- MIL circular connectors: Power and signal connections.
- ♦ M12 connectors A, D, X: GTM, GTB series
- ◆ Sensor connectors: Size 14S with 4,5,7,10-pole contacts
- Data connectors: TRAC D-SUB, TRAC DIN
- ◆ Power connectors: Circular, GMP, GMR series
- DMC crimping tools: For secure and efficient connector assembly.

(() Cembre Railway Maintenance Tools

Cembre, established in 1969, specializes in developing a wide range of terminal connectors and installation tools. With a daily production capacity of 5.1 million terminals, Cembre is one of Europe's leading manufacturers of terminal connectors and crimping tools. In the railway industry, Cembre offers comprehensive solutions with a rich portfolio of wiring materials and trackside construction equipment, such as rail drilling machine, impact wrench, rail cutting machine, and Pandrol E-Clip/ FASTCLIP rail clip machines.



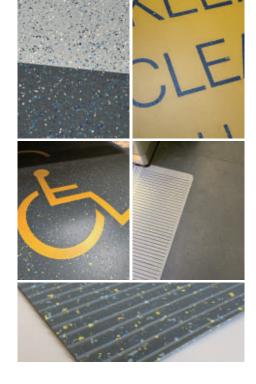
Product Series:

- Terminals (cable lugs): Insulated terminals, copper tube terminals, copper-aluminum terminals.
- Hand Tools: Wire strippers, various terminal crimping tools.
- Power Tools: Electric crimping tools, wire cutting tools.
- Trackside Equipment: rail drilling machine, impact wrench
- Trackside Accessories: Electrical connection systems AR60, AR260.

treadmaster

Rubber Fire Safety Transport Flooring

- "Treadmaster is a leading UK manufacturer of professional railway vehicle flooring. "offering standard and anti-slip floorings, with a special manufacturing process that prevents wear of the patterned surface.
- Low smoke, halogen-free, non-toxic, fire-resistant.
- Meets BS6853 Cat 1a, EN45545-2 HL3 certification standards.
- Standard flooring thickness is 2.5mm, but customizable between 2.5mm - 5.5mm.
- Completed 250,000 single-point wear tests, with only 0.12mm of wear, estimated to last over 30 years.
- Standard Size: 11,500 x 1,200mm (roll format) at 2.5mm thickness.
- The factory can cut any shape or contour to save on installation time and reduce waste.
- Offers No.15 fireproof epoxy glue, meeting EN45545 railway certification standards.
- Offers Self-adhesive version available, reducing installation time as no epoxy drying is needed.
- Available in RAL or NCS color charts, with one base color and three speckled patterns for flexible design.
- Samples for small quantities are available, with custom samples typically shipped within 2-3 weeks.











































BAILINGTEK CO., LTD.

BAILINGTEK CO., LTD. Specialized services tailored for automotive, electronics, SEMI automatic machines and railways. Focus on precision, quality, and customized solutions to meet client requirements.

- ◆ Wire Assembly: Utilizing advanced equipment and a skilled technical team, BAILINGTEK offers precise assembly services for various types of wires and connectors, from single-core to complex multi-core cable harnesses. Ensures product quality and durability.
- ◆ OEM Customized Wire Processing: Offering customized processing based on the unique needs of different industries and clients.BAILINGTEK delivers products that fully meet customer specifications, ensuring timely delivery and reliability.



Railway Signal Cables





Cleanroom Flexible Flat Cable



Cleanroom Flexible Cable

百凌工業股份有限公司

專業線材加工 線束維修 客製化電線電纜

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