HTP®

HIGH TECH PRODUCTS S.R.L.

TÜV SÜD ISO 9001

CERTIFICATO Nr 50 100 10684

WIRES AND CABLES

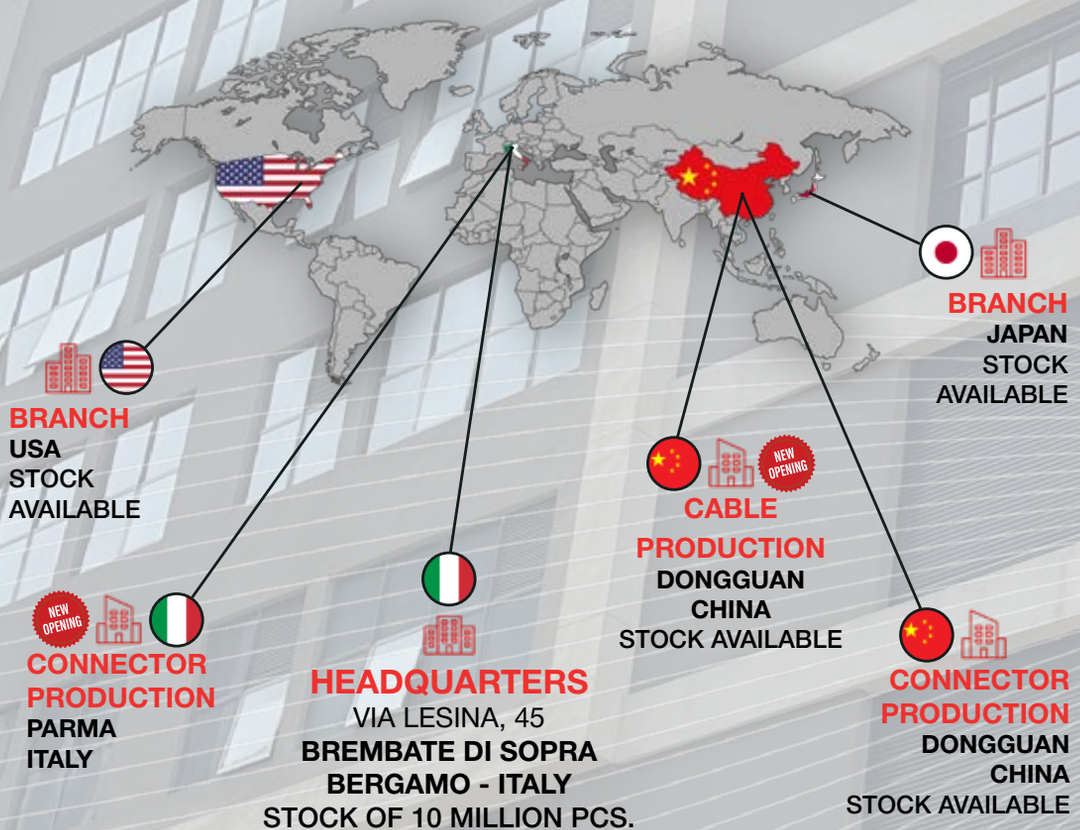
ABOUT US

HTP established in 2003, operating in pneumatics, hydraulics and industrial automation. The key philosophy of the company is to focus on skills and expertise of custom manufacturing to enhance competitiveness. Our consolidated expertise and the continuous demand for increasingly functional products have led HTP to expand its offering through the production of special cables for the industrial automation market.

Instead of buying cable and products to be assembled our customers can receive connectors 100% made in HTP already assembled with our own cables with lengths and sizes meeting the required specifications.

To provide all these services HTP s.r.l. employs staff capable of understanding the particular needs of each customer in order to deliver the specific required product in a short time. Today HTP s.r.l. is the protagonist in the market with head office in Brembate di Sopra (BG), Italy, where it has more than ten million pieces and cable reels in stock ready to ship.

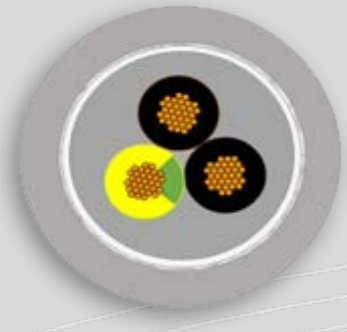
HTP also has branches in Rockaway, New Jersey, USA, and in Osaka, Japan, all with related sales offices and warehouses. The organization of the production, certified in accordance with ISO 9001, is done according to criteria that enable the achievement of a standard of quality of the highest level. Quality control of every single finished product is performed twice, in order to guarantee our customers absolute quality. The various locations are a team capable to absorb and respond to requests from the world of industrial production more and more in real time.



PRODUCT CATEGORIES

- CONTROL CABLE
- MINING, DRILLING & TUNNELING CABLE
- FIXED WIRING CABLE
- POWER NETWORK & LOCAL DISTRIBUTION CABLE
- BUS CABLE
- EOWFLEX CABLE
- WELDING CABLE
- LAN CABLE
- TELEPHONE CABLE
- INSTRUMENTATION CABLE
- LSZH CABLE
- SUBMERSIBLE & PUMP CABLES
- PVC CABLE
- INDUSTRIAL CABLE
- DEFENCE CABLE
- PUR CABLE

CONTROL CABLE



Control Cable

This includes commonly used cables such as CY, SY, YY, as well as LiYCY and LiYY types, which are designed for a broad spectrum of industrial automation tasks. These cables are suitable for signal transmission, measurement, control, and regulation processes. They are often categorized based on their specific use, such as cables for machinery power supply, motor connections, or robotic systems. Other names for these cables include multi-core cables, flexible control cables, or simply control flex cables.

Depending on their structural features, these flexible cables can be used in environments with light, moderate, or heavy mechanical stress. They also provide varying levels of protection against electrical interference and are resistant to corrosive substances and oils.

MINING, DRILLING & TUNNELING CABLE

Mining, Drilling & Tunnelling Cable

Our extensive selection of mining cables supports both stationary and mobile equipment, as well as low and medium voltage infrastructure systems. These cables are manufactured in line with key international standards and are tailored for use in both surface mining and underground operations.

Designed to perform in some of the world's most demanding environments, our mining, drilling, and tunnelling cables are built to handle extreme conditions. Equipment malfunctions and the resulting downtime can be highly expensive in this sector, which depends heavily on robust machinery. In the worst cases, such failures can also pose safety risks. As the industry moves toward greater automation, it requires cables that consistently deliver reliable, high-level performance.

Our cables are engineered to resist mechanical wear, oils, greases, and water — including full immersion. We offer mining cables that are safe for use in confined spaces, helping to protect both personnel and valuable equipment in the event of a fire by producing low smoke and minimal toxic emissions.

FIXED WIRING CABLE

Fixed Wiring Cable

Fixed wiring cables are primarily used to deliver power to outlets, switches, and lighting systems in residential, commercial, and industrial settings.

As the name implies, these cables are intended for permanent installation — either secured to a support structure or placed in a designated location — and are not suitable for use with either stationary or moving equipment. They are widely used in construction projects and are therefore classified under the Construction Products Regulation (CPR) for use throughout Europe.
To meet various installation needs and design requirements, our fixed wiring cables are typically available with either PVC or Low Smoke Zero Halogen (LSZH) outer insulation. LSZH sheathing is especially suitable for environments where enhanced protection of people and equipment is essential in the event of a fire.

POWER NETWORK & LOCAL DISTRIBUTION CABLE

Power Network & Local Distribution Cable

We offer a variety of power network cables suitable for utility grid operators — including cables approved by Distribution Network Operators (DNOs) — as well as cabling solutions for local power distribution in the Building & Construction sector. Local distribution cables are available with copper or aluminium conductors, and come in solid, stranded, or sector-shaped configurations depending on the design, number of cores, and cross-sectional area. These cables feature cross-linked polyethylene (XLPE) insulation and are further protected by fillers, metallic tapes, or armouring, with outer sheaths made of either PVC or Low Smoke Zero Halogen (LSZH) materials.

For installations where cables are not intended to be buried — whether directly in the ground or within ducts — Aerial Bundle Cables (ABC) can serve as an alternative. These overhead cables consist of insulated aluminium conductors bundled with neutral wires and, when needed, reinforced with strength members to provide a lightweight and efficient solution for power distribution.

BUS CABLE

Bus Cable

Our range of BUS cables — including profibus, device-net, and profinet types — is specifically engineered for use in industrial fieldbus systems and industrial Ethernet networks.

Thanks to their high-speed data transmission capabilities, these cables are ideal for automation and process control environments where standard data cables fall short. All our BUS cables are available with Low Smoke Zero Halogen (LSZH) sheathing for enhanced safety.

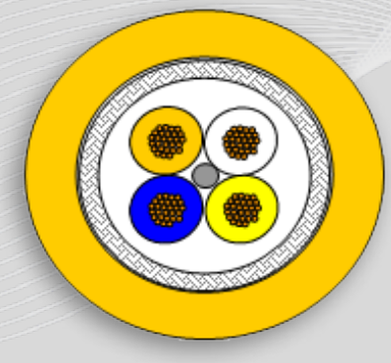
We offer a broad selection of cables to meet diverse data communication needs, including those required for CAN BUS (Controller Area Network) systems. These cables are also commonly referred to as industrial Ethernet cables.

EOWFLEX CABLE

EOWFlex Cable

EOWFlex cables ensure consistent product quality and reliable supply for your projects. They undergo a thorough evaluation process in our ISO 17025 UKAS-accredited laboratory, reflecting our dedication to quality, performance, and regulatory compliance.

The EOWFlex cable range is precisely engineered to deliver the ideal solution for your specific application — from core layout and RAL sheath color to dimensional accuracy and conductor configuration. This level of precision ensures seamless compatibility with leading cable gland systems. By strictly adhering to these specifications, EOWFlex cables help reduce on-site termination issues caused by mismatched accessories, ultimately saving time and reducing costs.



WELDING CABLE

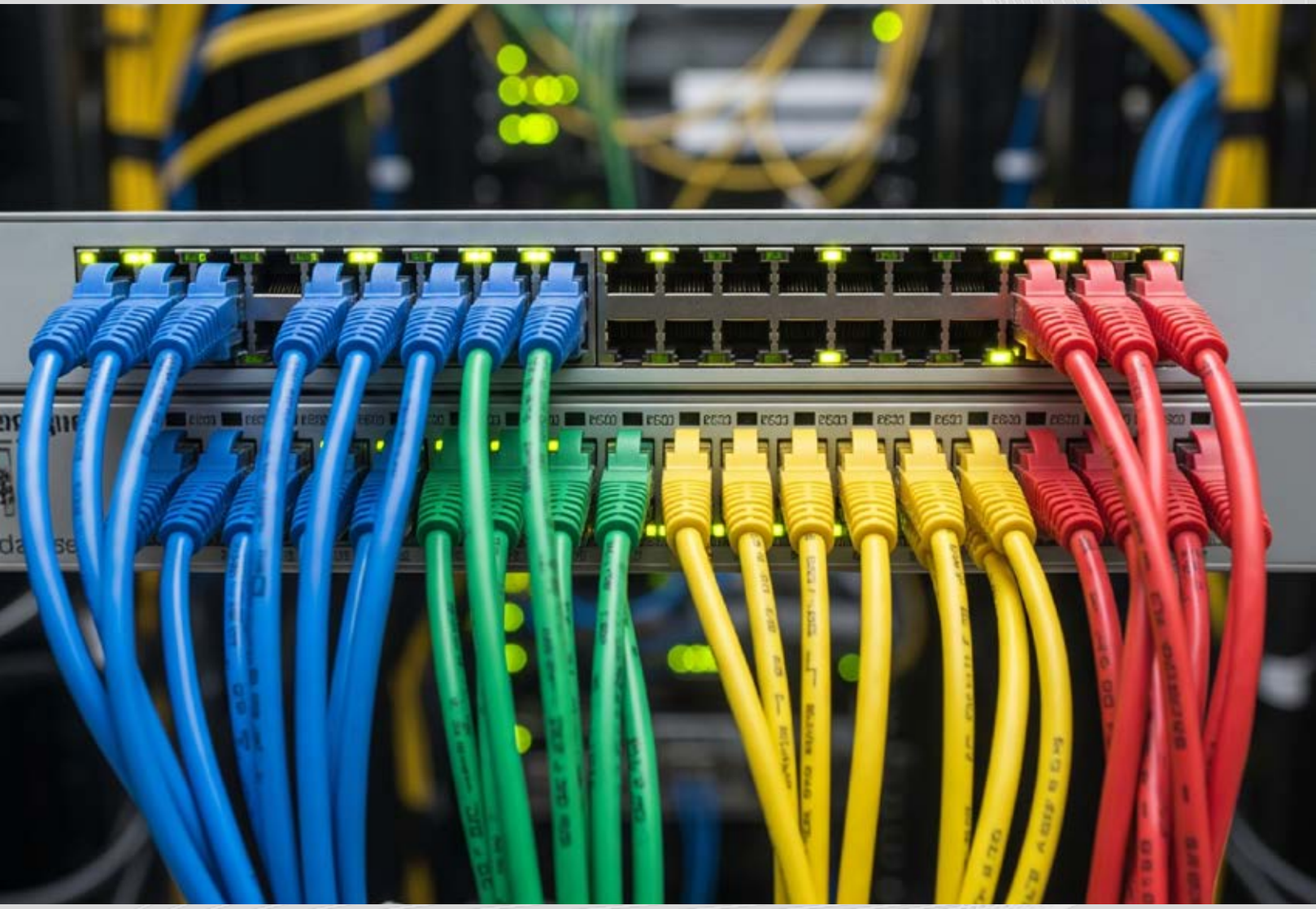
Welding Cable

These durable welding cables are built to handle high electrical currents in demanding conditions and are designed to withstand the elevated temperatures associated with welding operations.

They are suitable for connecting welding machines to tools in both manual and automated setups, commonly found on construction sites and in robotic welding systems used in industries such as shipbuilding and automotive manufacturing.

Thanks to their strength and flexibility, welding cables are often used in applications beyond welding. For guidance on selecting the right cable for either welding or non-welding purposes, please reach out to our technical engineering team.

LAN CABLE

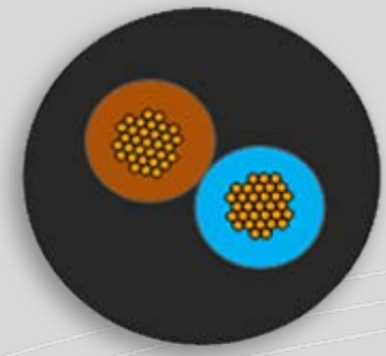


LAN Cable

Category 5e (Cat 5e), Category 6 (Cat 6 and Cat 6A), and Category 7 (Cat 7) cables are types of structured cabling used in computer networks such as Ethernet. Their specifications define construction standards, performance criteria, and testing requirements.

Category 7 cables are outlined in the CENELEC EN 50173:2002 and ISO/IEC 11801:2002 standards for installation cables. However, they are not yet officially recognized by the Telecommunications Industry Association (TIA/EIA). Alongside the widely accepted Cat 5e, Cat 6, and Cat 6A cables, Cat 7 is part of a broader range of solutions designed for high-speed Gigabit Ethernet transmission.

TELEPHONE CABLE



Telephone Cable

Our range of telephone cables, including those manufactured to European specifications, are suitable for interconnecting communication equipment and low signalling appliances. Eland Cables supplies outdoor telephone cables (CW1128 & CW1198) designed specifically to withstand environmental factors such as UV and moisture, as well as the full spectrum of weather conditions.

We also supply lightweight indoor telephone cables such as the CW1308 cable and J-YstY cable German specification cable widely used in European installations, and CW1423 cables for jumping BT telephone services terminated on IDC blocks. Telephone cables form part of our wider telecommunications product range which covers Ethernet networks and data centre

INSTRUMENTATION CABLE

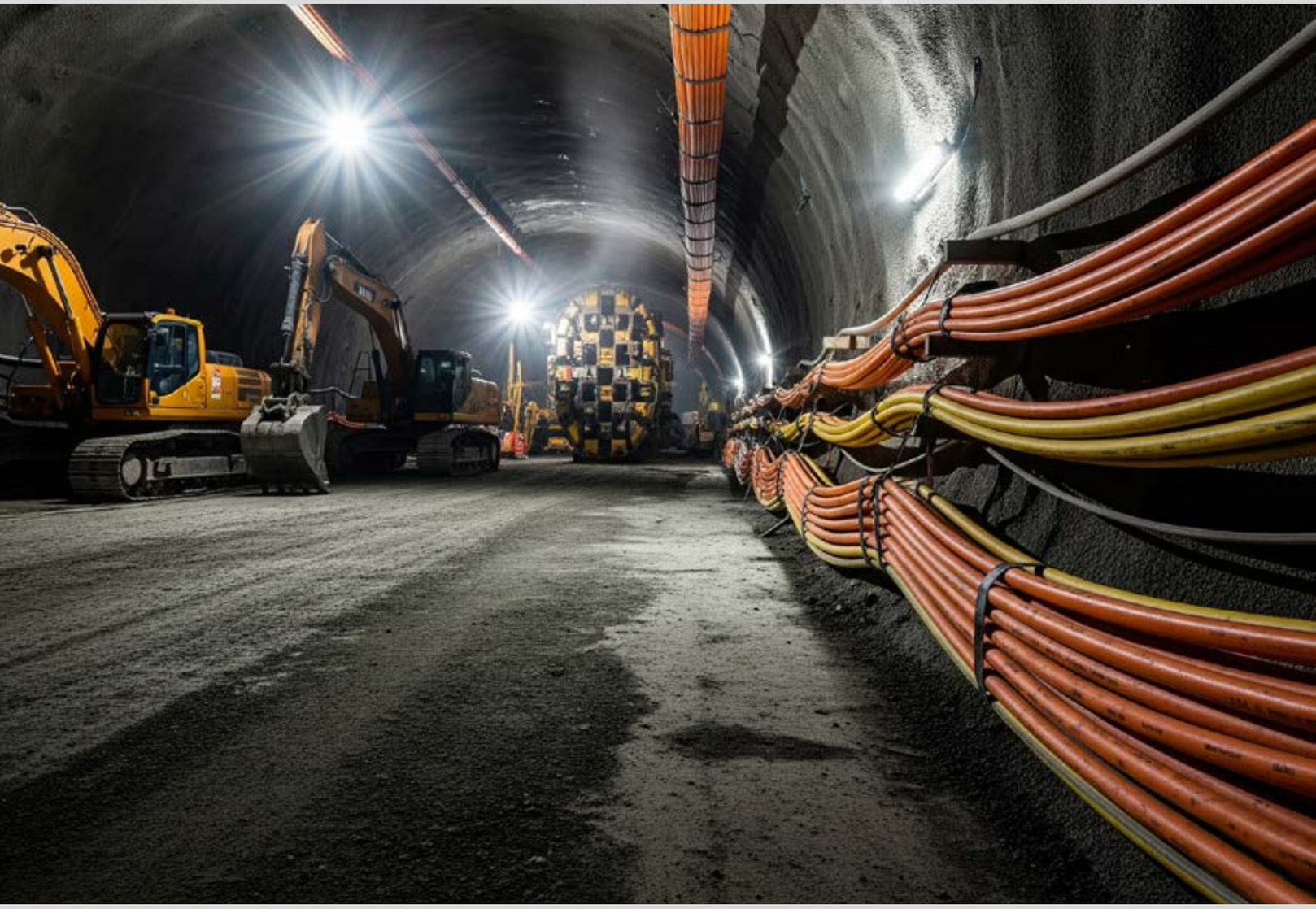
Instrumentation Cable

We offer a broad selection of instrumentation cables suitable for a wide variety of applications across industries where electronic systems are used to monitor and control manufacturing and processing operations.

Our instrumentation cables feature flexible copper conductors and comply with both British and international standards, including BS5308 (UK), NF M87-202 (France), EN 50288-7 (Europe), and UL PLTC (USA), among others. In addition, our technical team collaborates with clients to develop custom shielded cables tailored to specific requirements in sectors such as oil & gas, petrochemicals, automation, process control, marine, and offshore.

As a trusted supplier of instrumentation and shielded signal cables, our engineering experts are available to support the cable selection process, helping ensure the best solution for your particular application.

LSZH CABLE



LSZH Cable

We offer a wide selection of Low Smoke Zero Halogen (LSZH) cables designed for environments where smoke and toxic emissions could pose a threat to human health or critical equipment in the event of a fire.

Also known as ZHLS or halogen-free cables, these products often feature flame-retardant properties, making them suitable as Flame Retardant Low Smoke (FRLS) cables. Unlike PVC and other compound-based cables that release thick black smoke, harmful fumes, and corrosive gases when exposed to fire, LSZH cables emit minimal smoke and toxins and produce no acid gases — making them a safer alternative.

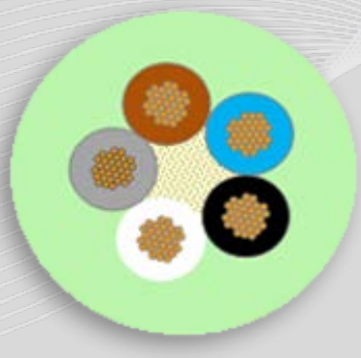
Because of these safety features, LSZH cables are frequently specified for indoor installations, especially in public spaces and hazardous or poorly ventilated areas. Typical applications include vehicles, aircraft, railway systems, ships, tunnels, and underground rail networks.

SUBMERSIBLE & PUMP CABLES

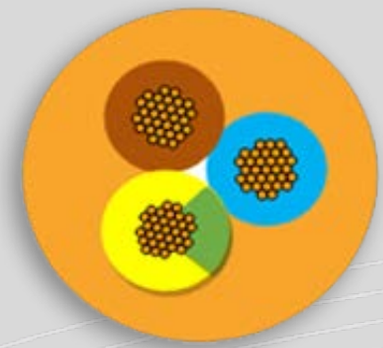
Submersible & Pump Cables

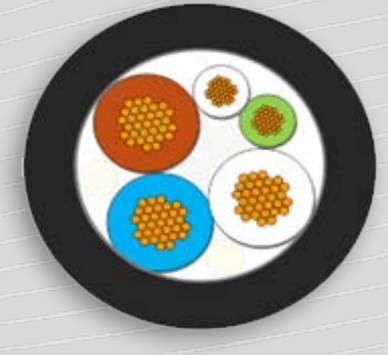
Submersible and pump cables are engineered for electrical connections in water at various depths and under different pressure conditions. From shallow installations to depths reaching 800 meters, these cables deliver reliable underwater performance.

Used across multiple industries, pump cables connect low-voltage motor equipment in both process and potable water systems. They are suitable for applications requiring enhanced resistance to chemicals and abrasion, including submersible pumps in mining operations, water purification and chlorination systems, swimming pool lighting, aquariums, and food and beverage processing systems intended for human consumption.



PVC CABLE





Pvc Cable

Polyvinyl Chloride (PVC) insulated and sheathed cables are widely used across various applications, from fixed installations to flexible setups. They are available in multiple sizes, colors, and conductor types.

As a thermoplastic material, PVC offers properties that make it suitable for environments with high or low temperatures — including arctic-grade PVC for extreme cold — and for situations requiring UV resistance to prevent degradation. PVC insulation is commonly chosen for its effective insulating capabilities, although it has limited corona resistance, making it ideal for low and medium voltage applications and low-frequency insulation needs.

PVC's advantages as an insulation and sheathing material include its chemical stability, mechanical strength, and long-lasting durability.

INDUSTRIAL CABLE

Industrial Cable

Industrial cables serve a wide range of functions within automation and manufacturing environments. They are used for controlling conveyor systems in production lines, monitoring equipment in chemical plants, and supporting operations in food and beverage facilities, as well as clean room environments.

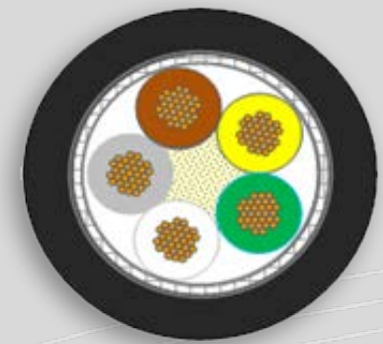
The choice of cable sheathing depends on the installation requirements:

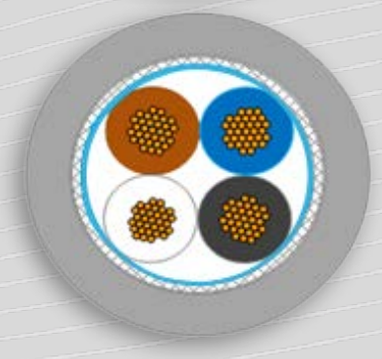
PVC – The most widely used sheathing material across continental Europe, commonly found in European control cables. Examples include the YSLCY 0.6/1kV (CY) and YSLY 0.6/1kV (YY) cables, which are suitable for power control applications.

LSZH – Low Smoke Zero Halogen sheathing is recommended for installations near sensitive equipment that could be affected in the event of a fire. Popular options include the LiHH cable, its shielded variant LiHCH, and the H05RR-F cable. Silicone-sheathed cables for high-temperature applications also fall under the LSZH category.

PUR – Polyurethane-sheathed cables, such as Powerchain PUR, PUR-JZ Control, and Industrial Ethernet Cat 7 PUR, are ideal for clean rooms and chemical processing facilities. Their non-porous surface prevents bacterial growth, helping maintain hygiene standards. Additionally, PUR sheathing is highly resistant to tearing, chemicals, and oils.

DEFENCE CABLE





Defence Cable

We supply a range of equipment wires manufactured to Defence Standard (Def Stan), including specifications 61-12 Part 4, Part 5, and Part 6, as well as cables that meet both British and international standards.
These wires are widely used by the Ministry of Defence (MoD) in applications requiring compact, high-density wiring — such as within instruments and for connecting electronic systems. Their flexible multi-core design makes them suitable for use in aircraft, military vehicles, computers, data processors, and process control systems. Thanks to their high-performance specifications, these cables are also well-suited for demanding applications outside the defence sector.

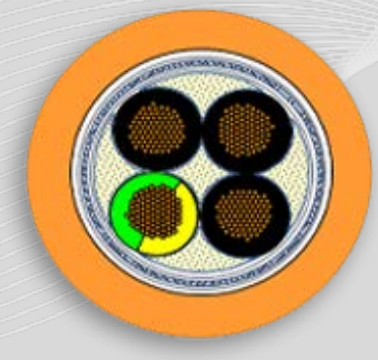
PUR CABLE

Pur Cable

Polyurethane (PUR) cables are halogen-free, flame-resistant, and offer enhanced mechanical and chemical durability, making them ideal for demanding environments.

The use of PUR as a sheathing material preserves cable flexibility, which is essential for applications involving frequent or continuous movement. These include drag chain systems, powerchain cables for conveyors, festoon systems, and control cables for robotics and machine tools. While PUR is not suitable as an insulation material — requiring a different low smoke zero halogen compound — it still offers advantages over PVC and even tough rubber sheathing.

PUR cables typically operate within a temperature range of -40°C to +125°C, though exact limits should be verified in the individual cable's technical specifications.



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