

EVERY JOURNEY CONNECTED

Railway Infrastructure Solutions



OTHERS SEE THE
JOURNEY

WE SEE THE
INFRASTRUCTURE
BEHIND IT

COMPLETE RAILWAY INFRASTRUCTURE



CONTENTS

Keeping Cities Moving.....4
How cabling infrastructure plays a part in every journey

Railway Solutions Overview.....6
Complete solution from Prysmian

Rolling Stock Solutions.....8
Electrification Cables
Signaling Cables
Communication Cables

Trackside Solutions.....12
Electrification Cables
Signaling Cables
Communication Cables

Infrastructure Solutions.....18
Electrification Cables
Signaling Cables
Communication Cables

Monitoring Solutions.....24
Turning data into operational insights with EOSS and ALESEA

Sustainability.....26
Pioneering Cable Solutions for a Brighter Future

Research & Development.....28
Our Commitment to Quality

KEEPING CITIES MOVING

Passengers see stations, trains and destinations.

We see the infrastructure that makes every journey possible.



From energy distribution and signalling to fiber optic communications and safety systems, Prysmian solutions help railway networks operate efficiently, reliably and safely. We deliver the technologies that connect people, cities and opportunities.

With more than 150 years of experience in electrification and connectivity, Prysmian supports railway projects around the world with a comprehensive portfolio of power, signalling, fire performance, fiber optic and communication solutions.

From urban transit systems and metro networks to high-speed rail and freight corridors, our solutions are designed to keep people, cities and economies moving.

Connecting people and businesses everywhere



150

Years of Experience



+50

Countries



34k

Employees



+20B

Sales in Euros in 2025

NAVIGATING THE WAY FORWARD

Around the world, rail operators and infrastructure developers rely on Prysmian to deliver trusted solutions for the most demanding transportation environments. Together, we are building rail networks that are smarter, safer and ready for the future.

Connecting journeys. Empowering mobility.

RAILWAY SOLUTION OVERVIEW

CONNECTING EVERY PART OF THE RAILWAY JOURNEY

Modern railways rely on seamless connectivity between trains, tracks, stations and critical infrastructure. Prysmian brings together electrification, communication, signalling and monitoring solutions to help build safer, more reliable and future-ready rail networks.

TRACKSIDE

Supporting rail operations with communication, signalling and power infrastructure.



Communication



Signalling



Electrification

MONITORING SOLUTION

Providing asset intelligence through EOSS and ALESEA monitoring technologies.



EOSS



ALESEA

ROLLING STOCK

Onboard solutions for signalling and electrification.



Signalling



Electrification



Communication

INFRASTRUCTURE SOLUTION

Keeping stations connected through communication, public address and electrification systems.



Public Address



Communication



Electrification



ROLLING STOCK SOLUTIONS

Supporting mobility from inside the train

Every journey depends on a complex network of onboard systems working together seamlessly. From traction and auxiliary power to communications and control systems, cable solutions help enable the functions that support modern rail operations.

Designed for demanding railway environments, rolling stock solutions support the performance, safety and connectivity required by today's urban transit networks.

Delivering power and connectivity where movement happens.

ROLLING STOCK CABLES

Electrification Cables



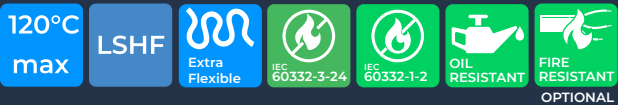
POWER CABLE - EN 50264

Rolling-stock power cable for power distribution, auxiliary systems and electrical equipment installed onboard trains.



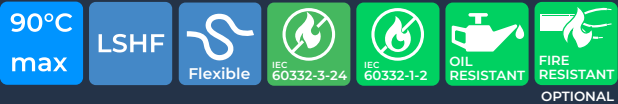
HIGH TEMP - EN 50382

High-temperature rolling-stock cable for traction equipment, converters, motors and other applications exposed to elevated operating temperatures.



HV CABLE - CONNECTION FOR PANTOGRAPH

High-voltage rolling-stock cable connecting the pantograph and onboard high-voltage equipment for transfer of traction power from the overhead line.



Signaling Cables



INSTRUMENT & CONTROL - EN 50306

Galvanised steel wire (SWA) armoured version cables allowed good mechanical protection especially underground or multi-stacking in duct installation.



Communication Cable



DATABUS - DATA TRANSMISSION FOR ROLLING STOCK VEHICLE

Ethernet and bus cables for fixed wiring or occasional movements application in railway rolling stocks.





TRACKSIDE SOLUTIONS

Connecting the systems that keep the railway moving

Along every railway corridor, power and information travel continuously between trains, stations and operational systems. Trackside infrastructure forms the network that supports signalling, communications and electrification, helping railway operators coordinate movement across the entire line.

As urban rail networks become more connected and more heavily utilised, dependable trackside infrastructure becomes increasingly important to support safe, efficient and reliable operations.

Supporting the flow of power, information and movement across the railway network.

TRACKSIDE CABLES

Electrification Cables



CU/HEPR/TCWB/LSHF 1.8/3KV

DC traction power cable for supplying railway traction systems, including connections between substations, DC switchgear and conductor/third-rail systems.



CU/XLPE/LSHF 1.8/3KV

DC sensing and monitoring cable used for voltage detection, measurement and auxiliary circuits associated with railway traction power systems.



CU/TR-XLPE/CWS-T/LSHF/DATA/LSHF 12.7/22KV

Medium-voltage cable for distribution of 22 kV AC power along railway networks, with mechanical armour protection.



CU/XLPE/WBT/LSHF 0.6/1KV

Low-voltage cable for trackside power, auxiliary supply, control and equipment connections, with water-blocking protection for railway environments.



CU/TR-XLPE/WBT/CWS-T/WBT/LSHF/DATA/LSHF 12.7/22KV

Medium-voltage cable for distribution of 22 kV AC power along railway networks, with mechanical armour protection and additional water-blocking performance.



TRACKSIDE CABLES

Signaling Cables



A-2Y(L)HBH H45

Railway signalling cable for transmission of safety-critical signalling, control and trackside equipment information.



CU/XLPE/OSCR/WBT/LSHF/SWA/LSHF 500V

Screened and armoured signalling cable for point machines and other trackside signalling equipment requiring mechanical and electromagnetic protection.



CU/XLPE/OSCR/WBT/LSHF/DSTA/LSHF 500V

Screened, double-steel-tape armoured signalling cable for point machines and trackside equipment requiring enhanced mechanical protection.



Communication



FIBRE OPTIC CABLE (CORRUGATED STEEL TAPE ARMoured)

UCConnect Fibre LTZMSM Series, Double Sheath, Steel Tape Armoured, LSZH ATARUV.

Fibre-optic cable backbone for trackside railway Ethernet communication systems..



FIBRE OPTIC CABLE (STEEL WIRE ARMoured)

UCConnect Fibre LTZMWM Series, Double Sheath, Steel Wire Armoured, LSZH ATARUV

Fibre-optic cable backbone for trackside railway Ethernet communication systems.



ETHERNET CABLE (STEEL WIRE BRAID)

UCConnect DATA UC400 CAT6 UFTP 4PR 23AWG GSWB Armoured LSFRZH ATARUV.

Copper Ethernet cable for trackside CCTV, Train Alert Systems, and industrial switching networks.





INFRASTRUCTURE SOLUTIONS

**Powering the places where journeys
begin and end**

Modern railway systems extend far beyond the train itself. Stations, depots, control centres and passenger facilities depend on resilient infrastructure to support communications, power distribution and public information systems.

From daily commuters to major transit hubs, infrastructure solutions help create connected environments that support operational efficiency and passenger experience throughout the urban mobility ecosystem.

Connecting stations, facilities and people through critical infrastructure.

INFRASTRUCTURE CABLES

Electrification Cables



CU/XLPE/LSHF 0.6/1 KV

Low-voltage power and control cable for indoor railway infrastructure such as stations, equipment rooms, depots and electrical rooms.



CU/XLPE/LSHF/SWA/LSHF 0.6/1KV

Armoured low-voltage power and control cable for outdoor railway infrastructure, tunnels, trackside equipment and exposed installation areas.



PRYSUN - FOR SOLAR ROOFTOP APPLICATIONS

Solar PV cable for railway renewable-energy installations, including station rooftops, depots, car parks and other railway facilities.



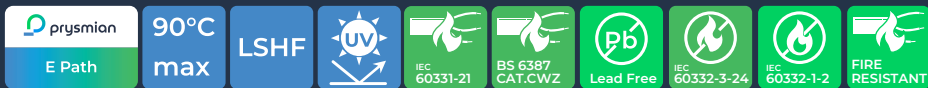
MAX-FOH 0.6/1KV

Fire-resistant power cable for maintaining supply to essential railway systems during a fire, typically for indoor stations, tunnels and buildings.



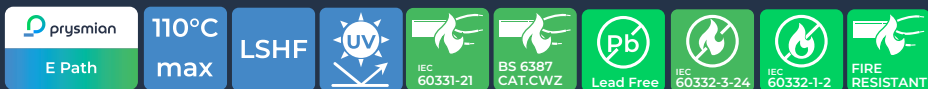
MAX-FOH-SWA 0.6/1KV

Armoured fire-resistant power cable for essential railway services requiring both circuit integrity and mechanical protection.



FIRETUF MI CLASSIC SIFER (S)

Enhanced fire-resistant cable for critical railway safety systems requiring high circuit integrity under severe fire conditions.



PAGA - MAX-FOH 300/500V

Fire-resistant cable for Public Address and General Alarm systems, supporting emergency announcements and evacuation communications during a fire.



INFRASTRUCTURE CABLES

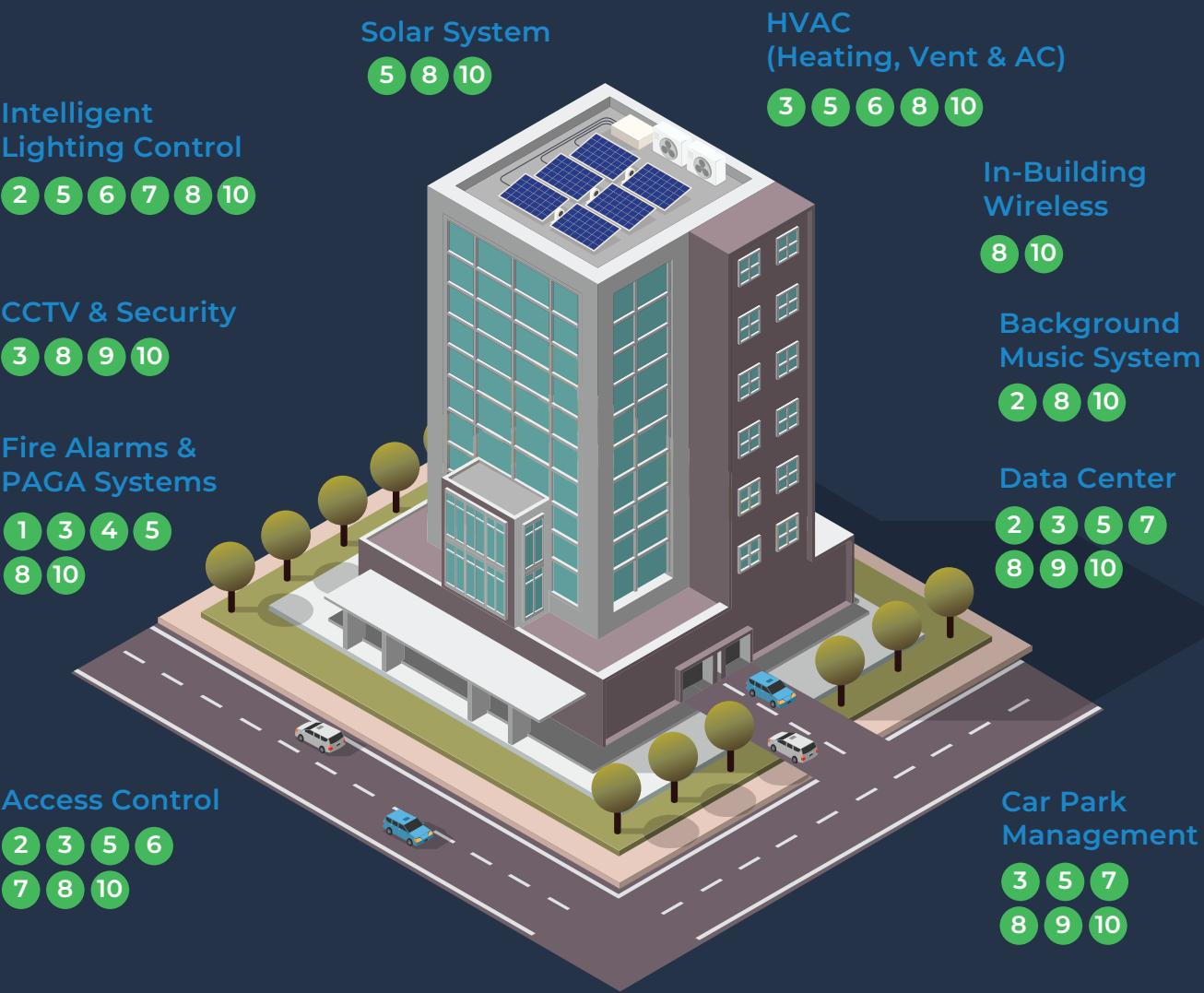
Communication Cables

From stations and depots to operational control facilities, reliable connectivity is essential to keeping railway infrastructure running safely and efficiently.

Prysmian's communication cable solutions support the critical flow of data and control signals across building automation, security, access control, surveillance and operational systems.

Combining proven performance with scalable copper and fiber technologies, we help create connected, resilient and future-ready railway infrastructures.

- 1 MAX-FOH & MAX SHIELD Cables
- 2 MP Series Control Cables
- 3 UL2464 Control Cables
- 4 Fire Alarm Cables
- 5 RS-485 Cables
- 6 EIB BUS Cables
- 7 SACS Series Security Alarm Cables
- 8 UCCONNECT DATA Cables (Cat. 6 & Cat. 6a)
- 9 UCCONNECT FIBER (Fibre Optic Cables)
- 10 UCCONNECT (Copper & Fiber Connectivity)
- 11 Coaxial Cable (RG59, RG11, RG6)



Scan to explore
our Building
Management
Solution





MONITORING SOLUTIONS

Turning infrastructure into actionable insight

As railway networks become more connected, visibility into asset condition becomes increasingly valuable. Monitoring solutions help operators gain greater insight into the health and performance of critical infrastructure, supporting more informed maintenance and operational decisions.

By transforming infrastructure data into meaningful information, monitoring technologies help railway operators better understand their networks and prepare for future mobility demands.

Powered by PRY-CAM, ALESEA and EOSS solutions.

EOSS - Revolutionizing Power Management

EOSS is a groundbreaking technology for electrical system monitoring and condition assessment. It provides online, accurate, and reliable measurements, diagnosing and localizing defects remotely. This results in enhanced grid reliability, safety, and cost efficiency for utilities and industries.

MORE INFORMATION ABOUT EOSS



Scan the QR code to learn more about EOSS.



ALESEA® – Intelligent Cable Drum Management

With ALESEA®, cable drums become intelligent assets. The solution provides real-time drum tracking and automated inventory monitoring, creating greater visibility across the entire supply chain. This helps optimise logistics processes, improve inventory management and reduce losses.

MORE INFORMATION ABOUT ALESEA®



Scan the QR code to learn more about proper drum handling and discover the digital capabilities of ALESEA®.



WHERE SUSTAINABILITY MEETS INNOVATION

Millions of people see trains, stations and destinations. We see the infrastructure that makes every journey possible.

At Prysmian, we deliver the power, signalling, communications and connectivity solutions that keep modern rail networks moving. As transportation systems evolve, we help operators and infrastructure owners build safer, smarter and more sustainable networks that connect communities and support economic growth.

Because behind every journey is an infrastructure designed to perform.



Sustainable Development Goals – Prysmian aligns its corporate framework with the 17 Sustainable Development Goals (SDGs) defined in the UN 2030 Agenda. The SDGs and their targets identify the global priorities and define an integrated plan of action for people, planet, prosperity and peace.



Science Based Goals – Prysmian's emissions reduction strategy aligns with the guidelines set forth by the Science Based Targets Initiative (SBTi) in accordance with climate objectives.



Responsible Mica Initiative – The first in cable sector business, in 2021 Prysmian Joined the Responsible Mica Initiative (RMI), a non-profit organisation dedicated to the elimination of child labour and precarious working conditions in the mica supply chain.



Prysmian is committed to reducing its own operating carbon emissions by integrating renewable energy into our manufacturing facilities. We've begun this journey at our Melaka plant, where rooftop solar panels now generate 1,500 MWh of clean energy annually—cutting emissions and lowering the carbon footprint of our products. This marks the first step in a broader regional initiative, with more facilities set to follow, driving measurable impact across Southeast Asia.

Our Sustainability Priorities

 Enable accessible energy deployment and innovation.

 Promote responsible resource use and sustainable supplies.

 Support community and people development.

RESEARCH & DEVELOPMENT (R&D) CENTRES

- 5,488 Patents covering the main innovations
- 585 Product families launched in 2025
- 30 Research Centres
- 1100 Professionals
- 50 Collaborations with research centers and universities



Prysmian's 30 R&D centers worldwide are strategically located to stay attuned to local market needs, enabling the development of innovative, sustainable cabling solutions for data centers. Our commitment to a cleaner, safer future drives projects that enhance energy and information delivery while minimizing environmental impact. Collaborating with over 50 universities globally, we cultivate skilled professionals who propel our industry leadership.

Our robust R&D capabilities—comprising 30 Centres of Excellence, advanced technologies, a team of 1,100 experts, and 5,488 patents—focus on pioneering advancements like deep-water wind farm power, ultra-deep-sea cable laying, and smart cables for proactive maintenance. Initiatives such as the Corporate Hangar, co-founded in 2017, exemplify our open innovation approach, yielding successes like Alesea, Kablee, and Cultifutura, alongside Prysmian Electronics' monitoring solutions that support sustainable data center infrastructure.

EXCELLENCE BEYOND COMPLIANCE

At Prysmian, quality is not just a benchmark—it's a commitment embedded in every facet of our operations. Our Quality Management System (PQMS), aligned with ISO 9001 standards, ensures rigorous oversight from raw material selection to final product delivery .

We prioritize continuous improvement, setting challenging objectives and implementing effective corrective actions to uphold our "right first-time" approach. This dedication guarantees that our energy and telecom cables consistently meet the highest standards, delivering reliable performance in the most demanding environments.





PQMS
Prysmian Quality Management System



ISO 9001
Globally recognized standard for quality management

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