

Sit back and enjoy the ride.

Our complete railway cable offer is a breather.



Prysmian
Group

Linking the future

As the worldwide leader in the cable industry, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

With this in mind, we provide major global organisations in many industries with best-in-class cable solutions, based on state-of-the-art technology. Through three renowned commercial brands – Prysmian, Draka and General Cable – based in almost 50 countries, we're constantly close to our customers, enabling them to further develop the world's energy and telecoms infrastructures, and achieve sustainable, profitable growth.

In our energy business, we design, produce, distribute and install cables and systems for the transmission and distribution of power at low, medium and high voltage.

In telecoms, the Group is a leading manufacturer of all types of copper and fibre cables, systems and accessories – covering voice, video and data transmission.

Drawing on over 130 years' experience and continuously investing in R&D, we apply excellence, understanding and integrity to everything we do, meeting and exceeding the precise needs of our customers across all continents, at the same time shaping the evolution of our industry.



Our complete railway cable offer is a breather.

Railway and rolling stock are businesses where quality, safety and speed is of outmost importance. You must be able to trust your partners. Our cables for European railways are made in Europe to ensure state-of-the-art standards as well as short lead times. We can also customise our solutions to your every need, and invent completely new cables if that's what it takes. Plus, we provide you with all the services you might need – before during and after. That's why Prysmian is world leader in railway cable solutions. Making business with us is a pure joyride.

What we offer

As Europe is implementing the European Train and Control System (ETCS) to integrate the national railway systems, and new high-speed lines are developed and realised, the need for investments in updated and completely new infrastructures are significant. To meet these challenges and simplify for our clients, we have developed complete solutions for railway enterprises. Our portfolio includes the highest quality medium and

low voltage power cables as well as communication, control and signalling cables. In addition we have the advantage of being part of the world's largest cable maker, Prysmian Group, which manufacture world-leading fibre and data cables in our neighbouring countries. Add to that all the connectivity products you might need and you've checked off all the requirements for you next major project.



Why choose Prysmian?

Because, in short, we do it better – and we do it all! From start to finish, and beyond, whether we're talking research and design, creation and testing, installation and post-deployment – we have every aspect covered.

Unrivalled technology

We control the whole design to manufacture to implementation – and at the core of this process sits R&D. That's why our solutions will fit flawlessly with next generation electrical networks as well.

Superior performance

Complete and made-to-measure solutions underwrite peak performance on all levels of our offer.





Cost efficiency

Our products are engineered for rapid installation and easy maintenance.

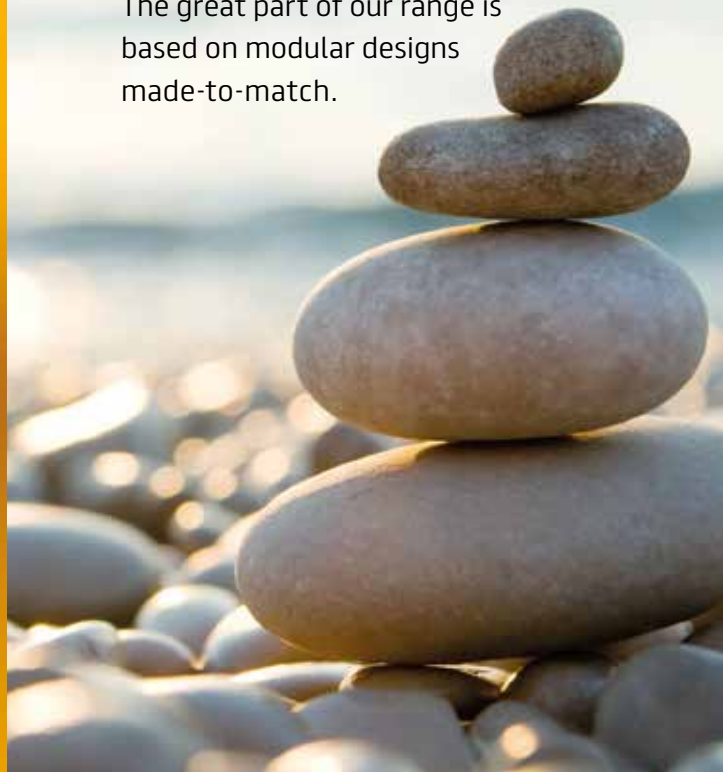
Seamless service

A dedicated supply chain means on time delivery and flexibility. We also guarantee a response within 48 hours.



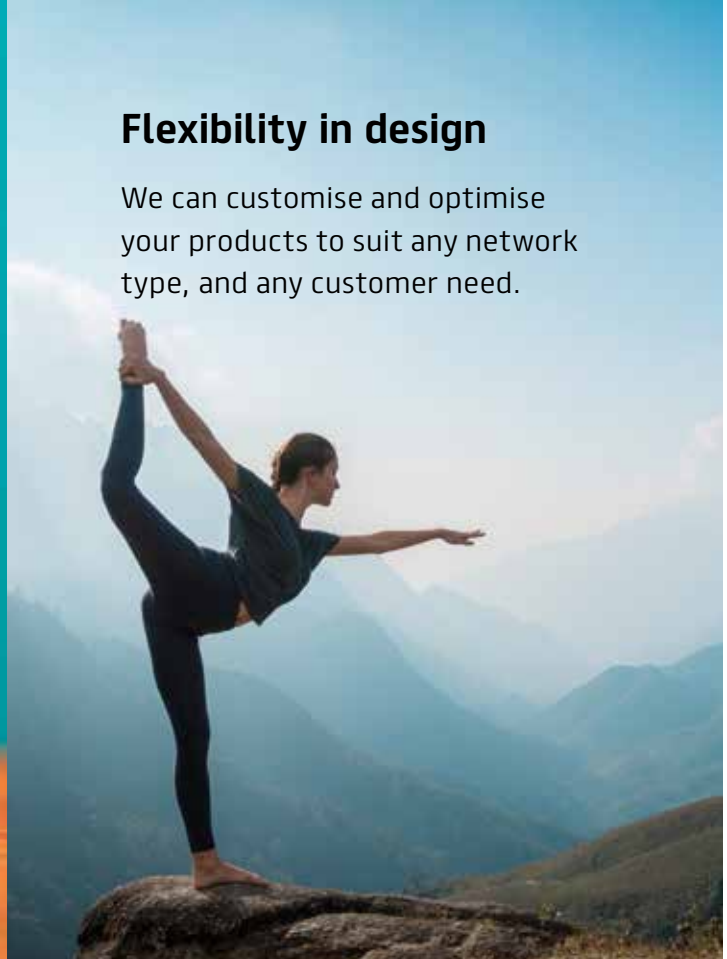
Simple upgrading

The great part of our range is based on modular designs made-to-match.



Flexibility in design

We can customise and optimise your products to suit any network type, and any customer need.



CABLES FOR EVERY APPLICATION



Cables for track feeder

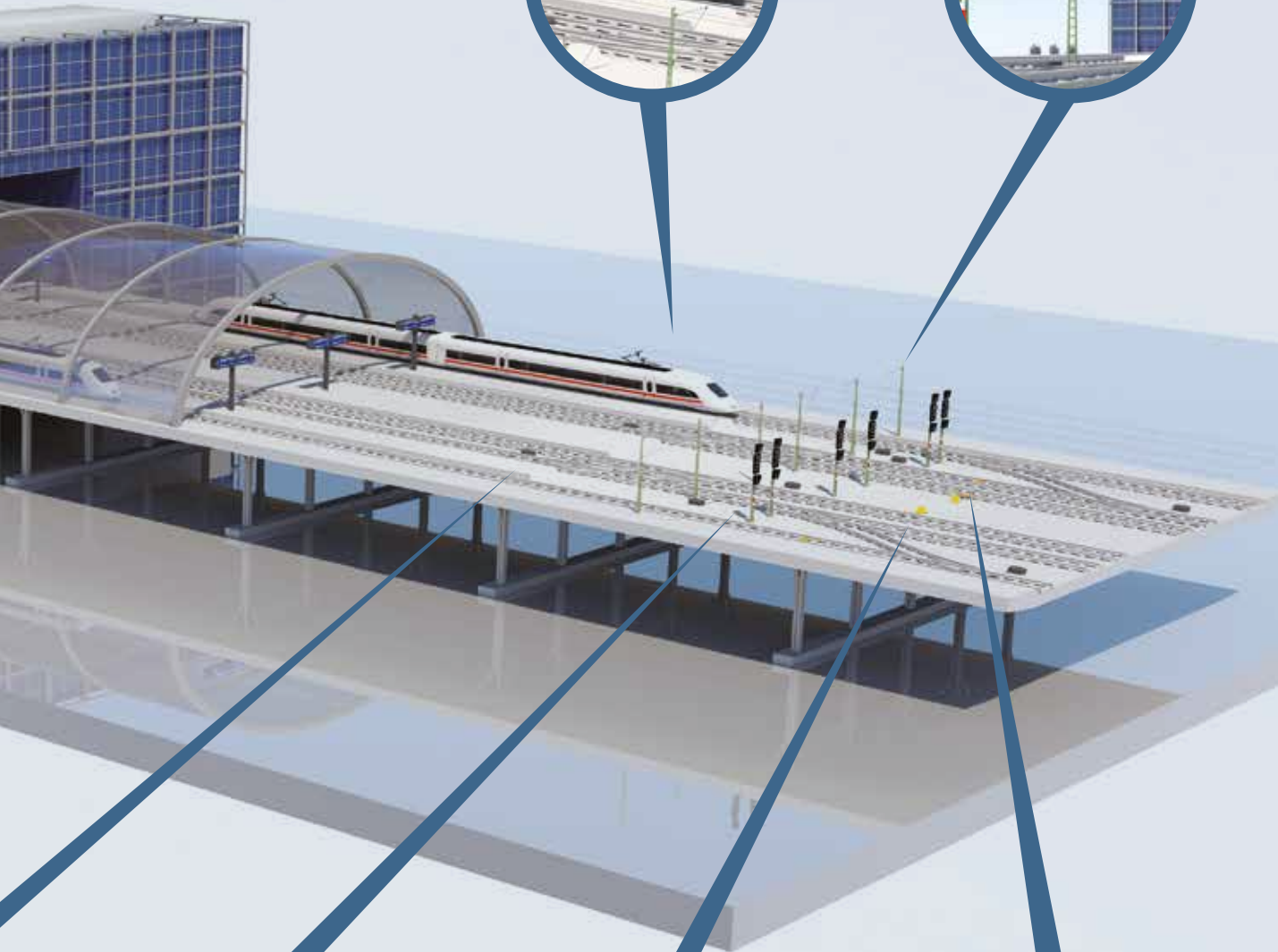


Cable for point machines

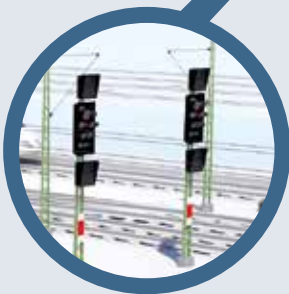
Cable for rolling stock



Cable for catenary



Cable for light signals



Cable for axle counters

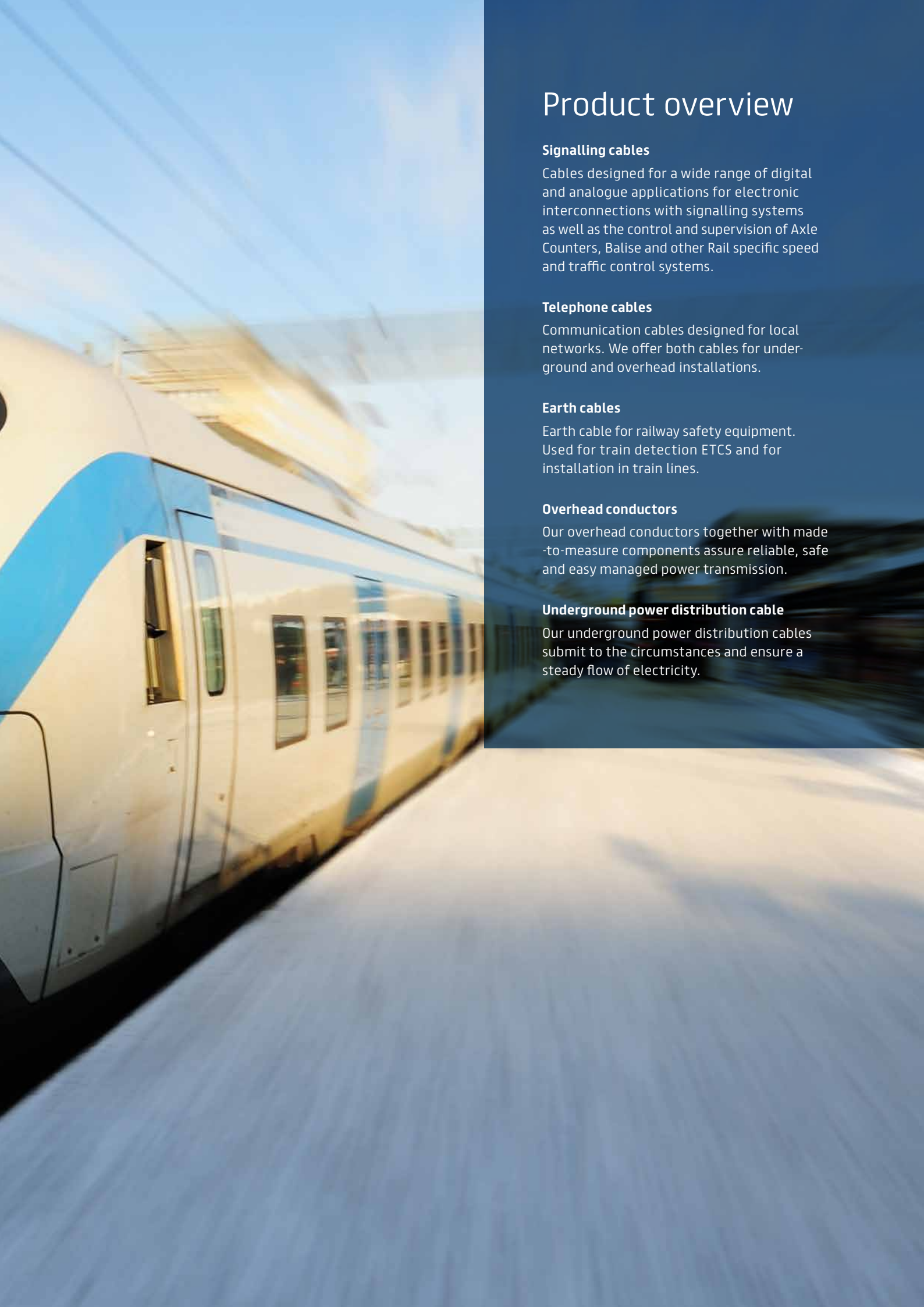


Cable for ballses



No matter
what application
it'll need cables.
Safe, sturdy
and reliable!





Product overview

Signalling cables

Cables designed for a wide range of digital and analogue applications for electronic interconnections with signalling systems as well as the control and supervision of Axle Counters, Balise and other Rail specific speed and traffic control systems.

Telephone cables

Communication cables designed for local networks. We offer both cables for underground and overhead installations.

Earth cables

Earth cable for railway safety equipment. Used for train detection ETCS and for installation in train lines.

Overhead conductors

Our overhead conductors together with made-to-measure components assure reliable, safe and easy managed power transmission.

Underground power distribution cable

Our underground power distribution cables submit to the circumstances and ensure a steady flow of electricity.

BRQ



Used for railway switch-over work. PE-insulated signalling cable, unfilled, moisture barrier, protected against electrical disturbances. PE sheath. Nx1x1.0; 1.5; 1.8; 2.0 or 2.5 mm. According to specification P-12440/2002 and P-692/2011 amend.1. Made in Köpenick.

BRQ	
CPR class	Class F
Standard	P-12440/2002, P-692/2011 amend.1
Conductor	Copper, solid, 1.0 or 1.5 or 1.8 or 2.0 or 2.5 mm, soft annealed
Insulation	PE (2Y)
Moisture barrier sheath	In form of aluminium foil (0.5 mm thick) applied longitudinally
Inner sheath	PE (2Y), black
Outer sheath	PE (2Y), black
Temperature range	During operation -40°C to +60°C
	During installation -10°C to +60°C

JRQ



Used as railway cable and can be installed directly into the ground or in duct. PE-insulated audio frequency signalling cable for safety equipment with protection against inductive interference. Nx4xØ. According to MAV P-12440/2002. Made in Köpenick.

JRQ	
CPR class	Class F
Standard	MAV P-12440/2002 (P-3196/2008 amendment 1, P-692/2011 amendment 2)
Conductor	Copper, solid, 1.5 or 1.8 mm, soft annealed
Insulation	PE (2Y)
Inner sheath	PE (2Y)
Screen	Copper wires 1.2 mm (number of wires according to reduction factor), copper tape wound counter wise in open helix, plastic tape with overlap
Outer sheath	PE (2Y), black
Temperature range	During operation -30°C to +50°C
	During installation -5°C to +50°C

LZB



Used for transfer of information between trackside equipment and vehicle bodies of the linear train control (LZB). PE-insulated signalling cable with tensile strengths elements and PE outer sheath. 1x2 mm². Optional in flame retardant version according to IEC 60332-3. Made in Köpenick.

LZB	
CPR class	Class F
Standard	Acc. to specification Deutsche Bahn AG PH 416.0101
Conductor	Stranded copper wires, 2 mm ² cross section, soft annealed
Insulation	PE (2Y)
Outer sheath	PE (2Y), black
Temperature range	During operation -40°C to +70°C
	During installation -10°C to +50°C

HvrQ



Suitable for laying in ground or in duct. Foam-Skin-PE-insulated telephone cable. Filled, moisture barrier, protected against inductive influence. PE sheath. Nx4x0.8 mm. According to customer specification MÁV Rt. Made in Köpenick.

HvrQ	
CPR class	Class F
Standard	MÁV P-2518/2002 P-3197/2008 amend.1
Conductor	Copper, solid, 0.8 mm, soft annealed
Insulation	Foam-skin-PE (02YS)
Filling	Interstices filled with petrol jelly, drop point ≥ 70 °C
Moisture barrier sheath	Laminated sheath formed by an aluminium tape coated on both sides with copolymer, and bonded with PE (2Y) sheath
Screen	In form of copper wires 1.2 mm
Outer sheath	PE (2Y), black
Temperature range	During operation -30°C to +70°C
	During installation -5°C to +70°C

QvrQ



Suitable for laying in ground or in duct. Foam-Skin-PE-insulated telephone cable. Filled, moisture barrier, protected against inductive influence. PE sheath. 1x4x0.9 + 5x4x0.8 mm. According to customer specification MÁV Rt. Made in Köpenick.

QvrQ	
CPR class	Class F
Standard	MÁV P-2518/2002 P-3197/2008 amend.1
Conductor	Copper, solid, 0.8 mm and 0.9 mm combined, soft annealed
Insulation	Foam-skin-PE (02YS)
Filling	Interstices filled with petrol jelly, drop point 70 °C
Moisture barrier sheath	Laminated sheath formed by an aluminium tape coated on both sides with copolymer, and bonded with PE (2Y) sheath
Screen	In form of copper wires 1.4 mm
Armouring	Two layers galvanized steel tape 0.5 mm (2B0.5)
Outer sheath	PE (2Y), black
Temperature range	During operation -30°C to +70°C
	During installation -5°C to +70°C

QLQ



Suitable for overhead installation. Foam-Skin-PE-insulated telephone cable. Filled, moisture barrier sheath with supporting strand. 1x4x0.9 + 5x4x0.8 mm. According to customer specification MÁV Rt. Made in Köpenick.

QLQ	
CPR class	Class F
Standard	According to customer specification, MÁV Rt.
Conductor	Copper, solid, 0.8 and 0.9 mm combined, soft annealed
Insulation	Foam-skin-PE (02YS)
Filling	Interstices filled with petrol jelly, drop point ≥ 70 °C
Moisture barrier sheath	Laminated sheath formed by an aluminium tape coated on both sides with copolymer, and bonded with PE (2Y) sheath
Supportive element	Galvanized steel wire strand 7 x 1.3 mm in common sheath with moisture barrier sheath
Temperature range	During operation -30°C to +70°C
	During installation -5°C to +70°C

HLQ



Suitable for overhead installation. Foam-Skin-PE-insulated telephone cable. Filled, moisture barrier sheath with supporting strand. Nx4x0.8 mm. According to customer specification MÁV ZRt. Made in Köpenick.

HLQ	
CPR class	Class F
Standard	MÁV P-2518/2002 (amendment P-3197/2008)
Conductor	Copper, solid, 0.8 mm, soft annealed
Insulation	Foam-skin-PE (02YS)
Filling	Interstices filled with petrol jelly, drop point ≥ 70 °C
Moisture barrier sheath	Laminated sheath formed by an aluminium tape coated on both sides with copolymer, and bonded with PE (2Y) sheath
Supportive element	Galvanized steel wire strand 7 x 1.3 or 1.4 mm in common sheath with moisture barrier sheath
Temperature range	During operation -30°C to +70°C
	During installation -5°C to +70°C

TRL 80



Copper wire for power transmission to electric railway lines. Suitable as catenary wire for AC and DC systems.

TRL 80	
CPR class	Class F
Standard	EN 50149 type A
Conductor	Single strand. Pure copper – ETP. Hard drawn. Grooved. Identification marks acc. to EN 50149.
Insulation	-
Inner sheath	-
Screen	-
Outer sheath	-
Rated voltage	25 kV
Temperature range	During operation -40°C to +40°C
	During installation -20°C to +40°C

TRL 100



Copper wire for power transmission to electric railway lines. Suitable as catenary wire for AC and DC systems.

TRL 100	
CPR class	Class F
Standard	EN 50149 type A
Conductor	Single strand. Pure copper – ETP. Hard drawn. Grooved. Identification marks acc. to EN 50149.
Insulation	-
Inner sheath	-
Screen	-
Outer sheath	-
Rated voltage	25 kV
Temperature range	During operation -40°C to +40°C
	During installation -20°C to +40°C

ACSR



Steel-reinforced overhead aluminium conductor.

ACSR	
CPR class	Class F
Standard	EN 50182
Conductor	Steel-Reinforced Aluminium
Insulation	Bare
Inner sheath	-
Screen	-
Outer sheath	-
Rated voltage	0.4 – 750 kV
Temperature range	During operation -40°C to +80°C
	During installation from -20°C

ERQ



Can be installed directly in ground, in ducts or in tunnels. PE-insulated copper conductor with moisture barrier sheath, steel tape armour and PE outer sheath. 1x4x1.53 mm. According to customer standard MÁV Zrt. Made in Köpenick.

ERQ	
CPR class	Class F
Standard	According to MÁV Zrt standard P-6014/21012 TEBF Amendment No.
Conductor	Solid copper conductor, 1.53 mm diameter, soft annealed
Insulation	PE (2Y)
Moisture barrier sheath	Laminated sheath formed by an aluminium tape, coated on one side with copolymer, and bonded with PE sheath (2Y), black
Outer sheath	PE (2Y), black
Temperature range	During operation -30°C to +70°C During installation -5°C to +50°C

ERQ 4kN

Additional tensile strength



With additional tensile strength element (4 kN). Can be installed directly in ground, in ducts or in tunnels. PE-insulated copper conductor with moisture barrier sheath, steel tape armour and PE outer sheath. 1x4x1.53 mm. Based on customer standard MÁV Zrt. Made in Köpenick.

ERQ 4 kN	
CPR class	Class F
Standard	Based on MÁV Zrt standard P-6014/21012 TEBF Amendment No. 3
Conductor	Solid copper conductor, 1.53 mm diameter, soft annealed
Insulation	PE (2Y)
Moisture barrier sheath	Laminated sheath formed by an aluminium tape, coated on one side with copolymer, and bonded with PE sheath (2Y), black
Outer sheath	PE (2Y), black, with embedded tensile strength elements
Temperature range	During operation -30°C to +70°C During installation -5°C to +50°C

Underground power distribution cable

SZAMKAVM



Can be installed in cable ducts, trenches and open air. 4x25. According to EN 60332-1. Made in Köpenick.

SZAMKAVM	
CPR class	Class F
Standard	According to MÁV technical specification P-1158/2008 and amend. P-3072/2012 TEBF
Conductor	Solid, circular aluminium wires with cross-section of 25 mm ²
Insulation	PVC (Y)
Cable core wrapping	2 layers of PVC tape with overlap
Screen	2 layers of aluminium tape 0.4 mm thickness
Outer sheath	PVC (Y), black
Rated voltage	0.6/1 kV
Temperature range	During operation -30°C to +70°C During installation -5°C to +50°C

COMMITTED TO SERVICE

Effective and efficient production secures the demands for cables

"The key to success is a strong collaboration between process engineering, maintenance and production".

Márton Balog, Balassagyarmat plant manager, Prysmian Group Hungary

To make sure we can provide you with all the cables that you need, we make recurring investments in our Hungarian manufacturing plants. By making sure we are up to date, we are always ready to provide customers and communities worldwide with cable solutions based on state-of-the-art technology, consistent excellence in execution and in-depth understanding of the needs of an evolving market.

As the tough gets going, and you need a manufacturer that can live up to tighter and tighter delivery times as well as products fit for the future, you can rest assured we are ready to deliver.

Do you want to know more?

Visit our website: www.prysmiangroup.com



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Linking the future

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