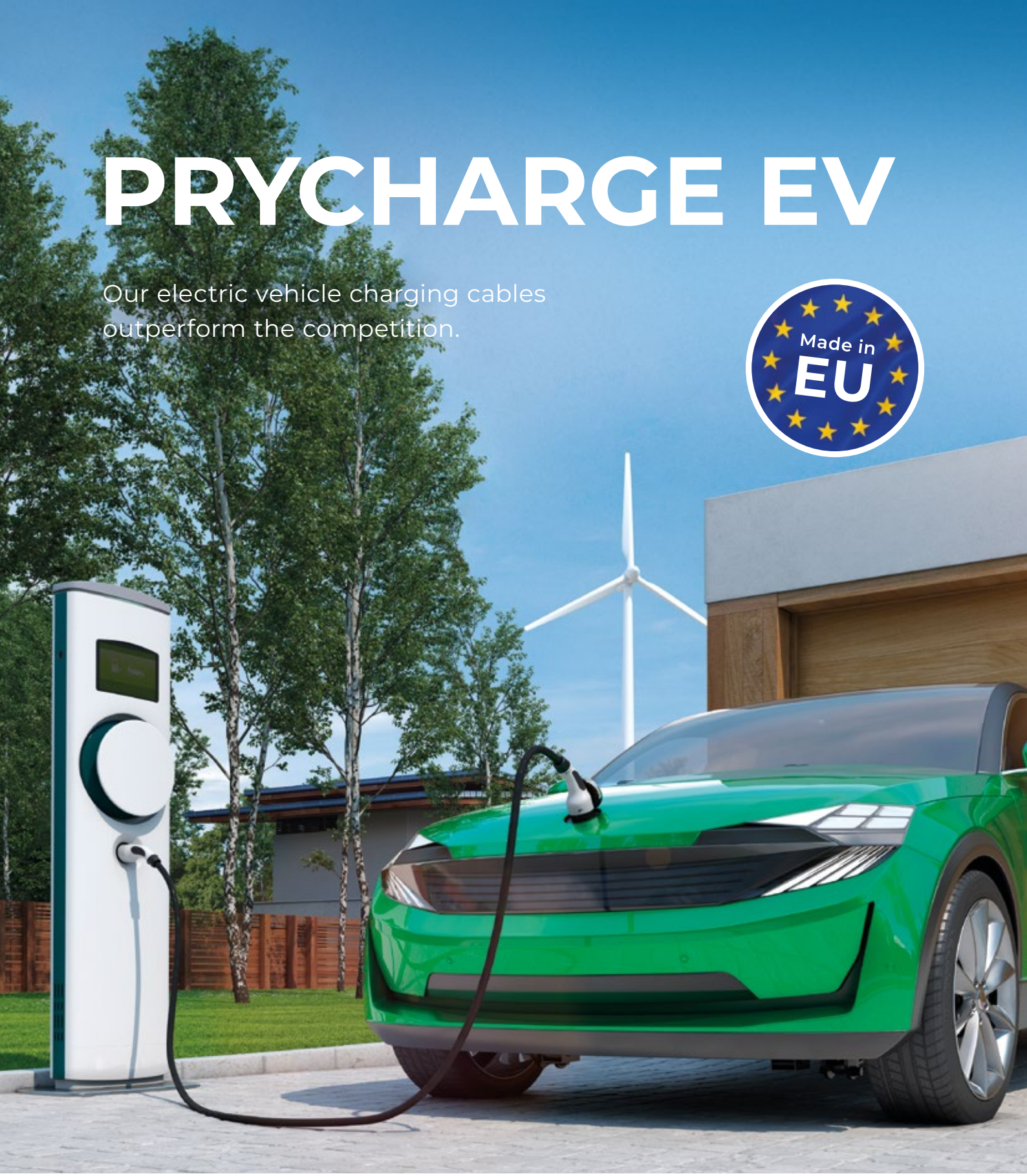

prysmian

The planet's pathways

Flexible
above the ordinary

Thanks to a new generation of optimized outer diameters, PRYCHARGE EV charging cables become even more weight reduced and sustainable, flexible and easy to handle.

Cold resistant

The EV charging cables can be installed in temperatures down to -40 °C. And it will continue to be highly resilient and user-friendly.

Impervious to impact

The cross-linked control core concept increases the cables resistance to mechanical impact, giving it a prolonged longevity.

Our PRYCHARGE EV charging cables outperform the competition.

It takes a lot of engineering skills to make an EV charging cable both sturdy enough to handle altering temperatures and years of abuse, while being flexible and easy to use. So, if you want to build your system using top notch and future-safe cables, Prysmian is your most reliable partner. Our AC and DC PRYCHARGE EV charging cables, made in accordance to latest standards and highest quality, live up to all the criteria you possibly can ask for – and then some. Our formula guarantees a #1 ride.

PRYCHARGE EV CHARGING CABLES

Application

No matter where and under what conditions, you can rely on us being your best partner for high-quality EV charging cables. Obviously enough our superior AC and DC PRYCHARGE EV cables can supply power to all electric and hybrid vehicles on the market and are compatible with all commercial and residential charging applications. More importantly our state-of-the-art cable designs, using an EVI-2 cross-linked control core concept, provide a full range of performance characteristics, including long-term durability in the harshest environments and the most heavy-used applications.

Thanks to our German engineers' relentless work in optimising our offer, a smaller diameter makes the cables surprisingly flexible and easy to handle. In addition our EV charging cables can be customized to suit your exact requirements including outer diameters for older sealing- and connector generations.

The PRYCHARGE DC cable in addition has a special cross-linked EVI-2 HEPR power core rubber insulation, making the cable extremely durable and still very flexible at low temperatures, while allowing conductor operating temperatures and current carrying capacities up to 120 °C.

MAIN FEATURES

- Highly flexible thanks to optimised outer diameter
- Installation and handling temperature down to -40 °C
- Impact resistant
- Compatible with all kinds of charging applications
- Extreme reliable control cores inside
- Certified according to:
  AC: DIN EN 50620 and IEC 62893
  DC: IEC 62893-4-1, type 62893 IEC 126
- **DC:** Conductor operating temperature and current carrying capacity up to 120 °C
- **DC:** Superior mechanical properties

Prysmian standard – the lot

Our cables can charge any type of electrical vehicle and are compatible to all kinds of charging applications.

PRYCHARGE EV
H07BZ5-F 450/750 V

Application

AC charging cable for operating mode 1 – 3 acc. to IEC 61851-1.

PRYCHARGE EV H07BZ5-F 450/750 V	
Global data	
Brand	PRYCHARGE EV
Type designation	H07BZ5-F
Standard	DIN EN 50620 and IEC 62893
Design features	
Conductor	Bare copper, class 5 acc. to EN/IEC 60228
Insulation	XLPE, type EVI-2
Core identification	HD 308 S
CC/CP cores	Type EVI-2 for better mechanical properties
Outer sheath	Special TPU type EVM-1
Outer sheath colour	Black, other colours upon request
Electrical parameters	
Rated voltage	450/750 V

PRYCHARGE EV H07BZ5-F 450/750 V	
Chemical parameters	
Zero halogen, corrosiveness of the combustion gases	DIN EN 50525-1 Annex B
Performance against fire	DIN EN 60332-1-2
Resistance to oil	DIN EN 60811-404
UV-resistance	Yes
Ozone resistance	DIN EN 50396 part 8.1.3
Thermal parameters	
Max. operating temperature of the conductor	90 °C
Ambient temperature in fully flex. operation	min. -40 °C / max. 60 °C
Mechanical parameters	
Max. tensile load on the conductor	15 N/mm²
Bending radii min.	Acc. to VDE 0298-3

PRYCHARGE EV H07BZ5-F 450/750 V				
Number of cores x cross section	Conductor diameter nom. mm	Outer diameter		Weight (approx.) kg/km
		min. mm	max. mm	
3G2.5+1x0.5	1.9	9.2	9.6	130
3G6+1x0.5	3.2	12.4	12.8	265
3G35+3x0.75	7.8	24.5	25.1	1300
5G2.5+1x0.5	1.9	12.1	12.5	215
5G6+1x0.5	3.2	15.4	16.0	410
5G10+1x0.5	4.0	17.4	18.0	675
5G16+1x0.75	5.2	20.7	21.3	960

Other designs upon request.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/PRYCHARGE_H07BZ5-F_450-750V

PRYCHARGE EV
S1BZ5-F 1.5 kV DC

Application

DC fast charging cable for operating mode 4 acc. to IEC 61851-1.

PRYCHARGE EV S1BZ5-F 1.5 kV DC	
Global data	
Brand	PRYCHARGE EV
Type designation	S1BZ5-F
Standard	IEC 62893-4-1, type 62893 IEC 126
Design features	
Conductor	Bare copper, class 5 acc. to EN/IEC 60228
Insulation	HEPR, Type EVI-2
Core identification	IEC 62893-1
CC/CP cores	Type EVI-2 for better mechanical properties
Outer sheath	Special TPU type EVM-1
Outer sheath colour	Black
Electrical parameters	
Rated voltage	600/1000V

PRYCHARGE EV S1BZ5-F 1.5 kV DC	
Chemical parameters	
Zero halogen, corrosiveness of the combustion gases	DIN EN 50525-1 Annex B, IEC 62821-1
Performance against fire	DIN EN 60332-1-2
Resistance to oil	DIN EN 60811-404
UV-resistance	Yes
Ozone resistance	DIN EN 50396 part 8.1.3
Thermal parameters	
Max. operating temperature of the conductor	90 °C, (2) 120 °C
Ambient temperature in fully flex. operation	min. -40 °C / max. 60 °C
Mechanical parameters	
Max. tensile load on the conductor	15 N/mm²
Bending radii min.	Acc. to VDE 0298-3

PRYCHARGE EV S1BZ5-F 1.5 kV DC		
Number of cores x cross section	Outer diameter (approx.) mm	Weight (approx.) kg/km
3G16+3x2x0.75	20	790
2x35+1G25+3x2x0.75	25	1300
2x50+1G25+3x2x0.75	28	1740
2x70+1G35+3x2x0.75	33	2280
4x50+1G25+4x2x0.75	36	3100

Other designs upon request.

Link Web catalogue:
https://de-catalogue.prysmiangroup.com/s/#/family/PRYCHARGE_S1BZ5-F_0,6-1KV

COMMITTED TO SUSTAINABILITY

A super-fast charging infrastructure.

“As the world leader in the cable systems industry, we feel obliged to constantly be part of improving solutions for future green energy consumption.”

Jan Floetotto, Product Manager, Prysmian Germany

Consumers want to feel reassured that charging stations are as easy to find and use as gas pumps. Hence, Prysmian is supporting the European Combined Charging System (CCS) as the global standard for charging electric vehicles. By offering the best EV charging cables on the market, we are able to back up the ultra-fast CCS-standard charging infrastructure enabling EVs to replenish for up to 400 km of range in only 15 minutes with powers ranging from 150 kW to 350 kW.

With CCS, drivers on any type of electric vehicle only need one single system for choosing between normal and fast charging as well as AC and DC.

Do you want to know more?
Visit our website: www.prysmiangroup.de

Linking the future

As the worldwide leader in the cable industry, Prysmian 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, Prysmian 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.

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The planet's pathways

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