



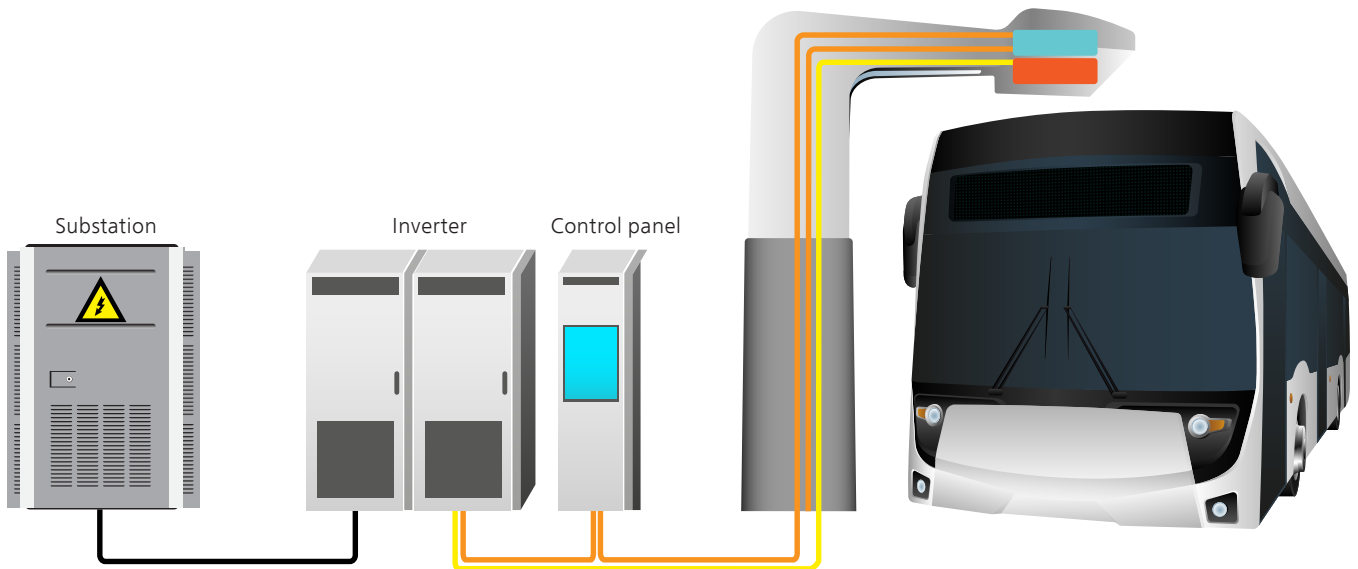
HELUKABEL®



One-stop solution provider for e-Mobility and charging infrastructure

E-Mobility

■ SINGLE / MULTI CONDUCTOR



► Highly flexible, high temperature power cable

Single 600 / Single 600-CY
 Single 602 RC / 602-RC-CY UL/CSA
 HELUPOWER® 1000 RV-K
 HELUPOWER® H07RN-F LSOH
 NSGAFÖU / NSGAFÖU orange
 JZ-600 / JZ-600-Y-CY
 HELUTHERM® 145 / THERMFLEX® 145
 HELUWIND® WK POWERLINE ALU

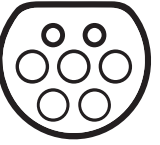
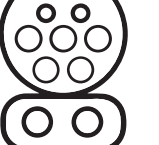
► Bus cable

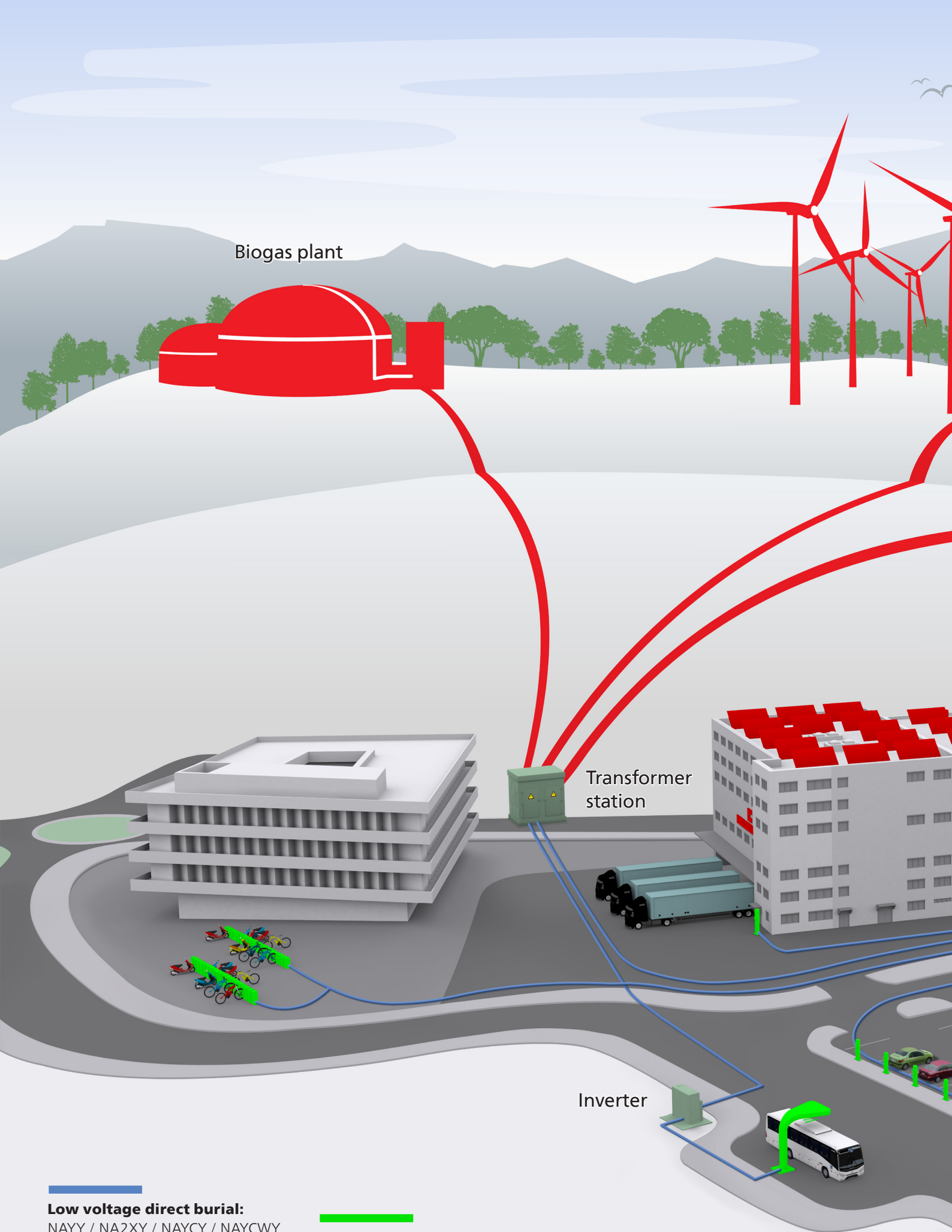
CAN-Bus / Profibus L2 (direct burial optional)
 Fiber optic raw cable and assemblies
 Hybrid cable

► Accessories

Conduits, cable glands, cable lugs, crimping tools

■ CHARGING CONNECTIONS

	Type 1	Type 2	Tesla	CCS 2	CHAdeMO
					
	1 phase	3 phase	DC	DC	DC
Max. power	7.4KW	43KW	120KW	350KW	150KW
Charging cable	Mode 3	Mode 3	fixed at the station Mode 4	fixed at the station Mode 4	fixed at the station Mode 4
Region	common in Asian market	European Standard	modified Type 2	European Standard	common in Japan
Socket			Supercharger only Tesla	similar to Type 2 + 2 Pins DC (charging with Type 2 possible)	



Biogas plant

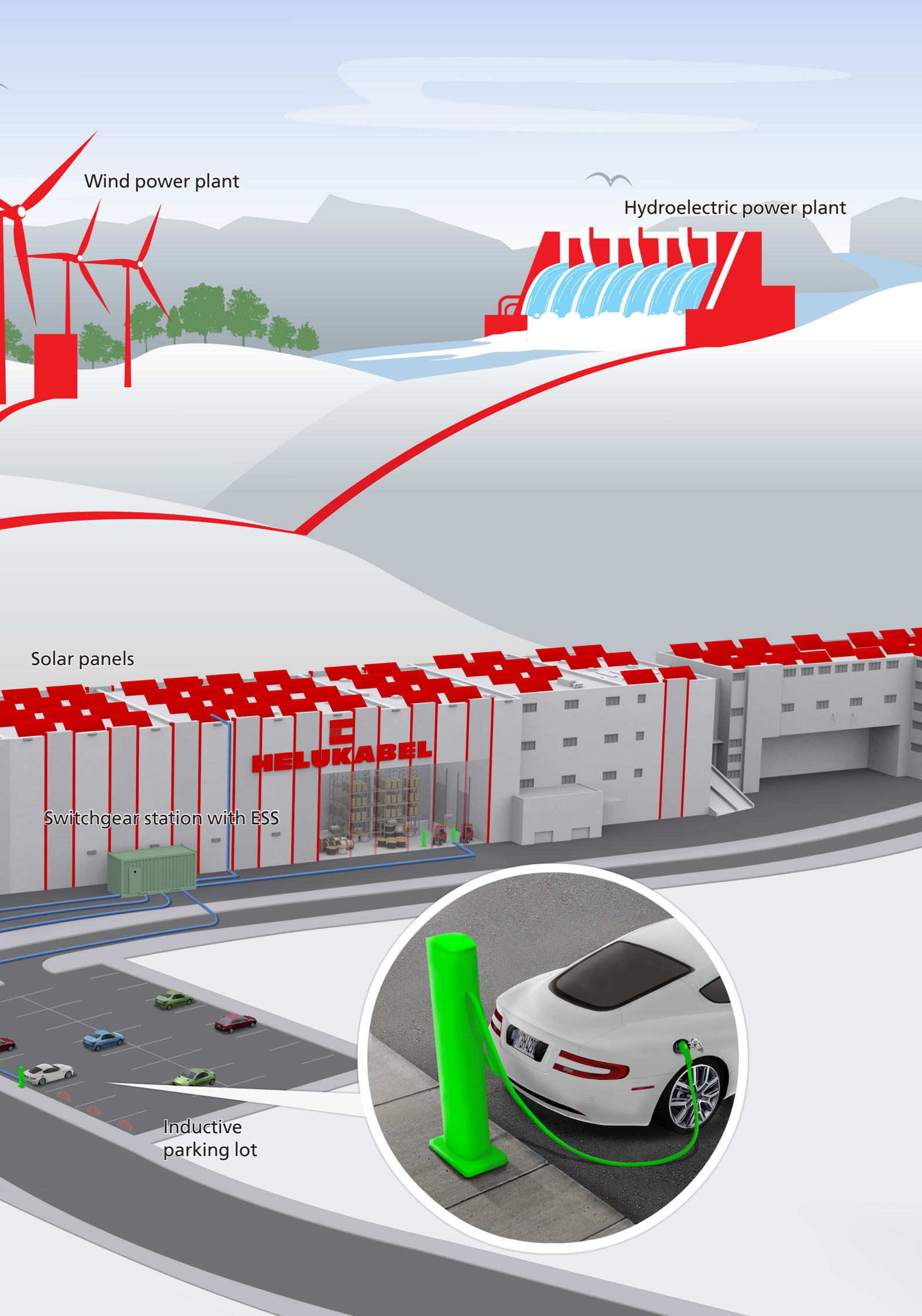
Transformer station

Inverter

Low voltage direct burial:
NAYY / NA2XY / NAYCY / NAYCWY

Medium voltage direct burial:
NA2XSY / NA2XS2Y / NA2XS(F)2Y

AC/DC charging cable: (please refer to backside)
HELUPOWER® CHARGE 750 AC
HELUPOWER® CHARGE 1200 DC
Optional: liquid-cooled DC cables



Wind power plant

Hydroelectric power plant

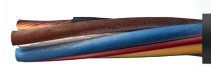
Solar panels

Switchgear station with ESS

Inductive parking lot

■ HELUPOWER® CHARGE 750 AC

flexible, UV-resistant, oil resistant, halogen-free, flame retardant, robust



HELUPOWER® CHARGE 750 AC

■ TECHNICAL DATA

- e-mobility charging cable according to DIN VDE 0285-620 / DIN EN 50620 / GB/T 33594-2017
- **Temperature range**
flexing -40°C to +90°C
fixed installation -40°C to +90°C
- **Nominal voltage**
 U_0/U 450/750 V AC
- **Test voltage**
signal cores: 2000 V AC
power cores: 2500 V AC
- **Minimum bending radius**
flexing 7.5 x cable Ø
fixed 4 x cable Ø

Optional: UL approved & spiralized version

■ CABLE STRUCTURE

- power and signal cores: bare copper conductor, fine wire acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5
- core insulation: EPR type EVI-2 acc. to DIN 50620
- core identification:
signal cores acc. to DIN VDE 0285-620 / DIN EN 50620 and DIN VDE 0293-334 / DIN EN 50334
power supply cores: colour coding acc. to DIN VDE 0293-308 and HD 308 S2
- outer sheath: TPE-U type EVM-1 acc. to DIN 50620
- outer sheath colour: black or red (RAL 3020)
- with meter marking

■ PROPERTIES

- max. permissible operating temperature at conductor +90°C
- UV-resistant
- oil resistant
- halogen-free
- flame retardant

■ TESTS

- oil resistant acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2
- flame retardant acc. to DIN VDE 0482-332-1 / DIN EN 60332-1 / IEC 60332-1
- halogen-free acc. to DIN VDE 0285-620 / DIN EN 50620
- UV-resistant acc. to DIN VDE 0285-620 / DIN EN 50620

■ HELUPOWER® CHARGE 1200 DC

flexible, UV-resistant, oil resistant, halogen-free, flame retardant, robust



HELUPOWER® CHARGE 1200 DC

■ TECHNICAL DATA

- e-mobility charging cable in ref. to DIN VDE 0285-620 / DIN EN 50620
- acc. to GB/T 33594-2017
- **Temperature range**
flexing -40°C to +90°C
fixed installation -40°C to +90°C
- **Nominal voltage**
 U_0/U 600/1200 V DC
- **Test voltage**
signal cores: 2000 V AC
power cores: 2500 V AC
complete cable: 3500 V AC
- **Minimum bending radius**
flexing 7.5 x cable Ø
fixed 4 x cable Ø

Optional: UL approved & liquid cooled constructions

■ CABLE STRUCTURE

- signal cores and power cores up to 10 mm²:
bare copper-conductor, fine wire acc. to DIN VDE 0295 cl. 5 / IEC 60228 cl. 5
power cores with 16 mm² and larger:
bare copper-conductor acc. to DIN VDE 0295 cl. 6, finest wire, BS 6360 cl. 6, IEC 60228 cl. 6
- core insulation: EPR type EVI-2 acc. to DIN 50620
- core identification:
signal cores acc. to DIN VDE 0285-620 / DIN EN 50620 and DIN VDE 0293-334 / DIN EN 50334
power supply cores: BK/RD/GN/YE
- outer sheath: TPE-U type EVM-1 acc. to DIN 50620
- outer sheath colour: black or red (RAL 3020)
- with meter marking

■ PROPERTIES

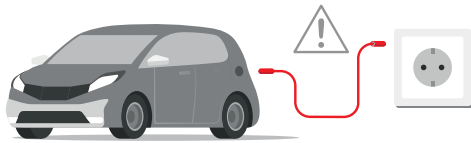
- max. permissible operating temperature at conductor +90°C
- UV-resistant
- oil resistant
- halogen-free
- flame retardant

■ TESTS

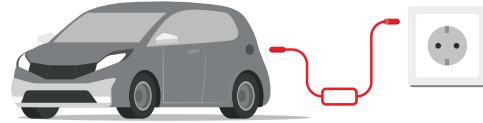
- oil resistant acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2
- flame retardant acc. to DIN VDE 0482-332-1 / DIN EN 60332-1 / IEC 60332-1
- halogen-free acc. to DIN VDE 0285-620 / DIN EN 50620
- UV-resistant acc. to DIN VDE 0285-620 / DIN EN 50620

■ CHARGING MODES

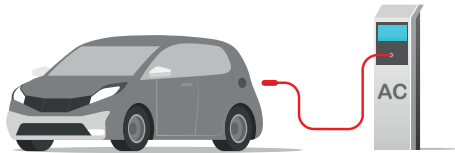
▶ Mode 1



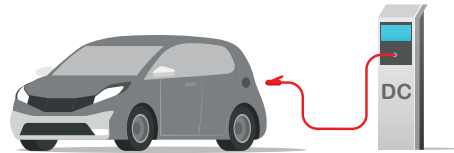
▶ Mode 2



▶ Mode 3



▶ Mode 4



Charge Mode	Communication	Plug	Capacity	Current Type	HELUKABEL
Mode 1	none	no longer in use	single-phase: max. 16 A, 3,7 kW	AC	no longer in use
			three-phase: max. 16 A, 11 kW		
Mode 2	between communication module and vehicle	Type 2 -Schuko	single-phase: max. 16 A, 3,7 kW	AC	HELUPOWER® Charge 750 AC
			three-phase: max. 32 A, 22 kW		
Mode 3	between vehicle and charging station	Type 2	single-phase: max. 16 A, 3,7 kW	AC	HELUPOWER® Charge 750 AC
			three-phase: max. 63 A, 43,6 kW		
Mode 4	between vehicle and charging station	CCS or CHAdeMO	50 KW up to 350 KW kW , up to 500A (200V - 900V)	DC	HELUPOWER® Charge 1200 DC

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