E-Mobility made by LAPP











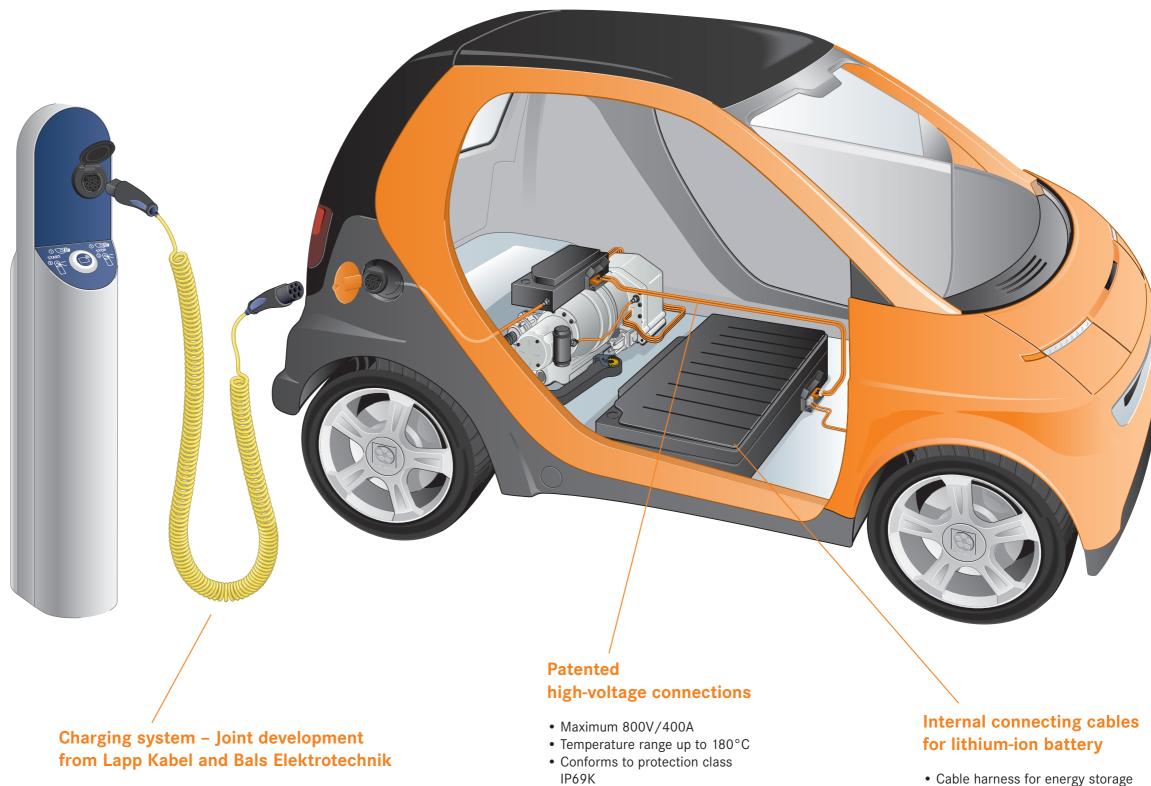
E-Mobility

Charging system, internal connection cables and high-voltage connections

System solutions from the Lapp Group are internationally recognised as being of superior quality and extremely reliable. Even automotive manufacturers and suppliers stand to benefit from the 50 plus years of experience boasted by Lapp in mechanical and plant engineering, particularly when it comes to hybrid and electric vehicles.

The Lapp Group is a pioneer of e-mobility: It is one of the first companies to develop a compatible, production-ready complete charging system with cables and connector that complies with the new VDE standard. The charging system was developed by the Lapp Group in conjunction with Bals Elektrotechnik GmbH from Germany's North-Rhine Westphalia.

Lapp products do not only provide charging solutions but are also capable of meeting the latest requirements set by the hybrid and electric vehicles. Patented high-voltage cabling from Lapp is used to supply the electric motors with energy. Leading automotive manufacturers and suppliers also already use the cables and connectors from Lapp for the internal connections in lithium-ion batteries.



Resistant to vibrations, mechanical

and chemical connections

• Current sensor cable harness.

HV connection cable harness,

DCDC connection, electrical

system cable harness

• Extrusion with silicone

CSE connection cable harness,

• Temperature-resistant ETFE cables

Complies with VDE standard for connectors used in the charging

- of electric vehicles
 Cable is flame retardant as per IEC 60332.1-2
- Oil resistant
- Temperature range -40 to +90°C

Charging plug connectors in accordance with new standard						
	LAPPSYSTEMS	Dimension drawing	Bals type no.	Lapp Systems type no.		
	Charging flush-mounted socket 32A according to VDE-AR-E-2623-2-2 Square design Flange 85 x 85 mm Protection class IP54 Bore hole 70 x 70 mm with crimped single cores 5 x10 mm² + 2 x 0.5 mm² Single core length 1000 mm	95.5 90.5	E-131-1000	LS731234		
	Charging flush-mounted socket 32A • according to VDE-AR-E-2623-2-2 • Round design without flip-up lid • Flange Ø 100 mm • with crimped single cores 5 x10 mm² + 2 x 0.5 mm² • Single core length 1000 mm	o 100	E-132-1000	LS731235		
	Charging flush-mounted socket 32A according to VDE-AR-E-2623-2-2 Round design with flip-up lid Flange Ø 100 mm Protection class IP54 with crimped single cores 5 x 10 mm² + 2 x 0.5 mm² Single core length 1000 mm	o 100	E-133-1000	LS731236		
	 Charging flush-mounted socket 32A according to VDE-AR-E-2623-2-2 Round design without flip-up lid and without cover Three-point fixing for rear mounting with crimped single cores 5 x10 mm² + 2 x 0.5 mm² Single core length 1000 mm 	9 82 58	E-134-1000	LS731565		
	Electromechanical locking/ Actuator • for flush-mounted socket types E-131, E-132, E-133, E-134 • compact design	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E-182	LS111085		
	Charging line 16A 1P + N + PE and PP + CP 2 charging plugs according to VDE-AR-E-2623-2-2 Smooth cable design a 680 ohm resistor in every plug connector 4000 mm Lapp Kabel charge 3G 2.5 mm² + 2 x 0.5 mm²	50 Proteints PP A	E-82325G4000	LS730954		
	Charging line 16A 1P + N + PE and PP + CP 2 charging plugs according to VDE-AR-E-2623-2-2 Spiral cable design, solid length 1500 mm a 680 ohm resistor in every plug connector 4000 mm Lapp Kabel charge 3G 2.5 mm² + 2 x 0.5 mm²	Prosently PP Control plast CP LI	E-82325S4000	LS730951		

Charging plug connectors in accordance with new standard						
	LAPPSYSTEMS	Dimension drawing	Bals type no.	Lapp Systems type no.		
	Charging line 16A 3P + N + PE and PP + CP 2 charging plugs according to VDE-AR-E-2623-2-2 Smooth cable design a 680 ohm resistor in every plug connector 4000 mm Lapp Kabel charge 5G 2.5 mm² + 2 x 0.5 mm²	168 44.5 A Products PP Control play CP A 5 CONTROL DIA CP A 14 15 16 16 16 16 17 17 18 18 18 18 18 18 18 18	E-82525G4000	LS730955		
	 Charging line 16A 3P + N + PE and PP + CP 2 charging plugs according to VDE-AR-E-2623-2-2 Spiral cable design, solid length 1500 mm a 680 ohm resistor in every plug connector 4000 mm Lapp Kabel charge 5G 2.5 mm² + 2 x 0.5 mm² 	56 Presently PP A	E-82525S4000	LS730952		
	Charging line 32A 3P + N + PE and PP + CP • 2 charging plugs according to VDE-AR-E-2623-2-2 • Smooth cable design • a 220 ohm resistor in every plug connector • 4000 mm Lapp Kabel charge 5G 6 mm² + 2 x 0.5 mm²	56 Promiss PP A Contact plat CP 3 100 110 120 120 130 14.5 A Contact plat CP 3 150 150 150 150 150 150 150 15	E-82560G4000	LS730956		
	 Charging line 32A 3P + N + PE and PP + CP 2 charging plugs according to VDE-AR-E-2623-2-2 Spiral cable design, solid length 1500 mm a 220 ohm resistor in every plug connector 4000 mm Lapp Kabel charge 5G 6 mm² + 2 x 0.5 mm² 	168 44.5 A -	E-82560S4000	LS730953		
	Flush-mounted earthed socket 16A 230V • Protection class IP54 • Flange 50 x 50 mm • Bore hole 38 x 38 mm • with auxiliary "normally open" contact	24.5 O 4.1 O 4.1 O 4.1 O 4.1 O 5.5 O	E-7184	LS111060		
	Flush-mounted earthed socket 16A 230V • without flip-up lid • Flange 50 x 50 mm • Bore hole 38 x 38 mm • with auxiliary "normally open" contact	Sa S	E-71070	LS111061		
	Charging line 16A 230V earthed contact • Earthed plug 16A 230V, with nickel-plated contacts • Earthed contact coupling 16A 230V, with self-locking flip-up lid • Smooth cable design • 4000 mm Lapp ÖLFLEX® 540 P 3G 2.5	128 8 8 74 112	E-81645	LS731583		
	Charging line 16A 230V earthed contact • Earthed plug 16A 230V, with nickel-plated contacts • Earthed contact coupling 16A 230V, with self-locking flip-up lid • Spiral cable design • 4000 mm Lapp ÖLFLEX® 540 P 3G 2.5	138 138 138 138	E-81646	LS731591		

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