THE WORLD OF LAPP

eMobility







Welcome

To contact your local Lapp Group representative please visit www.lappgroup.com/worldwide

> THIS CATALOGUE

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Legend for icons

INDUSTRIES



Please note: the purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the "technical data" sections on the product pages.



Brand quality from Stuttgart



ÖLFLEX®

Power and control cables

The world's first brand cable is available in the most varied of versions to match maximum requirements.

Key features: Oil-resistant, flexible and available to match almost any requirement or environmental condition – also free of halogens. **Fields of application:** Multipurpose. Special variants are increasingly in demand in the area of renewable energies.



UNITRONIC[®]

Data communication systems

The ideal brand for fast, trend-setting and reliable data transfer. **Key features:** UNITRONIC[®] are not only data lines, but also bus lines, which together with active

sensor/actuator modules or gateways provide a perfect system for automation. **Fields of application:** Measurement, control, regulation, bus or LAN networks.



ETHERLINE[®] Data communication systems for ETHERNET technology

The brand for network solutions, safety systems and firewalls in the industrial networking sector. **Key features:** System solutions consisting hardware, software, consulting, network design and support. **Fields of application:** Factory automation, renewable energy, building technology, structured cabling.



HITRONIC[®] Optical transmission systems

The brand for split-second, fault-free, intercept-free data transport. **Key features:** The HITRONIC[®] pro-

duct range includes fibre optic cables in a range of versions along with suitable accessories such as splice boxes, wall distributors or couplings. **Fields of application:** Office and industrial sector, renewable energy.



EPIC[®] Industrial connectors

The brand for strong and reliable connections. **Key features:** Robust square and circular connec-

tors. Flexible system consisting of housings, inserts, contacts and accessories – the tailor-made solution for every requirement. Similarly, EPIC[®] SOLAR plugs for photovoltaics are also part of the extensive product range. **Fields of application:** Mechanical and systems engineering, drive technology, automation.



SKINTOP®

Cable glands

The brand for quickly fastened, centred and mermetically sealed cable entries. **Key features:** Large clamping areas, optimum strain reliefs, wide range of versions such as SKINTOP[®] CLICK, COLD or CUBE. **Fields of application:**

Everywhere, where cables must be fastened reliably and quickly.



SILVYN[®] Protective cable conduit systems and cable carrier systems

The brand for all-round cable protection. **Key features:** The product range includes SILVYN[®] cable protection hoses for perfect protection against mechanical and chemical loads, along with SILVYN[®] CHAIN energy supply chains for highly dynamic applications. **Fields of application:** Everywhere where cables have to be additionally protected or routed.



FLEXIMARK[®] Marking systems

The brand for permanent, clearly arranged cable markings. **Key features:** Comprehensive range –

from manual labelling solutions to digital identification. Withstands high chemical, thermal and mechanical loads. **Fields of application:** All cable, single cores, control cabinets.



Welcome to the client specialist

Sometimes, more than 40,000 standard articles are just not enough. Apart from the standard assemblies in the emobility sector, Lapp Systems is a specialist within the Lapp Group for customised assemblies.

Cable and line systems

- Complete cable sets for mechanical & systems engineering, commercial-vehicle industry and lots more
- Prewired switching units for electronic and control systems
- Assembled single wires
- Ready-to-install connecting cables
 with special connectors
- Assembled optical fibres
- High-temperature cables with temperature-resistant special connectors

Spiral cables

- For trucks as supply and EBS/ABS coils
- As standard lines
- Made of lines specially assembled for the customer
- Spiral hoses with single wires and lines
- Special versions in cone shape

Energy supply systems

 Ready-to-install energy supply systems in plastic or metal versions. Also with hydraulic and pneumatic lines or mechanical joining technology

Special applications

- Wiring systems for robot applications
- Conductive fabric cable for energy and data systems

Extrusion

Do you require an extruded cable and connector system? With our modern machinery park, we offer the entire spectrum from conventional to hot-melt extrusion.

Recharge with LAPP CHARGE

New environmentally-friendly mobility concepts, particularly emobility (hybrid and pure electric vehicles), are a megatrend. It is likely that a global mass market will develop within a few years – with completely new demands being made on vehicle wiring.

The Lapp Group can be considered a pioneer in emobility: the Lapp Group was one of the first companies to develop a complete, production-ready charging system with cables and a connection system – its LAPP CHARGE product meets all common safety standards. Its design and colour can be modified to suit a customer's requirements. Drivers of electric and plug-in hybrid cars are being won over by the charging system with its attractive and user-friendly design. Holistic labelling system of the Lapp Group for "Lapp Charge" charging cable systems, e. g.

Charge M3 T2P/T1C H 32A 1P 5000

Charge:	Product group
M3:	Variants: M2 = Mode2 M3 = Mode3
T2P/T1C:	Examples: Infrastructure side/ vehicle side T2P = Type2 plug/ T1C = Type1 connector T2P = Type2 plug/ T2C = Type2 plug/ T2C = Type2 connector T3P = Type3 plug/ — = plain cut (open end) TFP = Type F Schuko/ T2C = Type 2 connector

H:	Variants: H = Helix S = Straight (straight) C = Coiled (spiralised)
32A:	Variants: 16A 32A
1P	Variants: 1P = 1-phase 3P = 3-phase
5000:	Effective length (mm): Effective length between connectors respectively 1000 mm longer with



Customised connectors for emobility

In addition to products for the charging infrastructure, Lapp also supplies highvoltage cabling for the next generation of vehicles. These high-voltage cables are used in the vehicle interior and can be customised using different connection technologies. Lapp also has its own patented connection solution for use in this sector.

Lapp is already producing special system connections for use in the hybrid power pack of the new Mercedes-Benz S 400 Blue-HYBRID. These cables and connection systems are used inside the lithium-ion batteries and meet the high demands for applications in this industry. In addition, Lapp is a engineering partner for several wellknown companies currently working on new battery systems which will store electrical energy more effectively.

For more information go to www.lappsystems.de/emobility



1 Charging cable and connector

- Mode 1 3 charging cable
- Type 1/2/3 connectors
- Special fully assembled products

2 Battery cabling

• Customer specific cables and connectors

Charging cable standard assemblies are available in the new charging cable configurator: www.lappgroup.com/emobility-cablefinder



3 Charging station

- Charging socket and CP module in different configurations (on request)
- ÖLFLEX[®] CLASSIC Power- and control cables for diverse applications
- Control cabinet single cores
- ÖLFLEX[®] SPIRAL Spiralised connecting cables
 UNITRONIC[®]
- Data communication systems

- ETHERLINE[®] Data communication systems for ETHERNET-Technology
- SKINTOP[®]
 Cable glands
- Ground straps
- FLEXIMARK[®]
- Single core marking, Wrappig Labels, Marking systems

4 High voltage cabling

- ÖLFLEX[®] FD 90 CY Highly flexible, shielded single cores
- ÖLFLEX[®] HEAT Cable for expanded ambient temperature
- Customer specific cables and connectors

Assembled cables

eMobility - Assembled charging cables



LAPP GROUP

CHARGE M3 —/T2C S









Benefits

- CHARGE M3 -/T2C S
- Resistant to microbes
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

CHARGE M3 –/T1C S

- New two-chamber system for environmental protection of moving parts to the connection part
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

Application range

• For installation in charging stations

Design CHARGE M3 —/T2C S

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 3-phase charging up to 20A: ÖLFLEX[®] Charge 5G2.5mm²+1x0.5mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²
- Cable for 3-phase charging up to 32 A: ÖLFLEX[®] Charge 5G6mm²+1x0.5mm²
- Type 2 connectors are injection moulded in two-components process for optimal ergonomics

CHARGE M3 ---/T1C S

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²

Technical data

Info

For charging stations



Approvals according to VDE-AR-E2283-5 according to EN 61851-1

Temperature range Flexing: -30°C to +50°C

Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU			
Cut off clean, charg	Cut off clean, charging cable, vehicle connector type 2 (Total length: effective length + 1m straight)							
74880134	Charging: 1 phase 20A	5,000	483.0	1280	1			
74880135	Charging: 1 phase 20A	7,000	637.0	1600	1			
74880137	Charging: 3 phase 20A	5,000	786.0	1840	1			
74880138	Charging: 3 phase 20A	7,000	1,036.0	2360	1			
74880145	Charging: 3 phase 32A	5,000	1,843.0	2900	1			
74880146	Charging: 3 phase 32A	7,000	2,429.0	3820	1			
74880141	Charging: 1 phase 32A	5,000	1,120.0	2160	1			
74880142	Charging: 1 phase 32A	7,000	1,476.0	2800	1			
Cut off clean, charging cable, vehicle connector type 1 (Total length: effective length + 1m straight)								
74880127	Charging: 1 phase 20A	5,000	487.0	1240	1			
74880128	Charging: 1 phase 32A	7,000	641.0	1540	1			
74880130	Charging: 1 phase 32A	5,000	1,129.0	2100	1			
74880131	Charging: 1 phase 32A	7,000	1,485.0	2740	1			

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Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Photographs are not to scale and do not represent detailed images of the respective products.

Further colour combinations and lengths on request

E LAPP GROUP

Power and control cables

Assembled cables eMobility - Assembled charging cables

CE







CHARGE M3 —/T2C C





CHARGE M3 —/T1C C



Benefits

- CHARGE M3 —/T2C C
- Resistant to microbes
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands
- CHARGE M3 ---/T1C C
- New two-chamber system for environmental protection of moving parts to the connection part
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

Application range

• For installation in charging stations

Design

CHARGE M3 ---/T2C C

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 3-phase charging up to 20A: ÖLFLEX[®] Charge 5G2.5mm²+1x0.5mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²
- Type 2 connectors are injection moulded in two-components process for optimal ergonomics

CHARGE M3 -/T1C C

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²

Technical data



DIN

Approvals according to VDE-AR-E2283-5 according to EN 61851-1

Temperature rangeFlexing: -30°C to +50°C

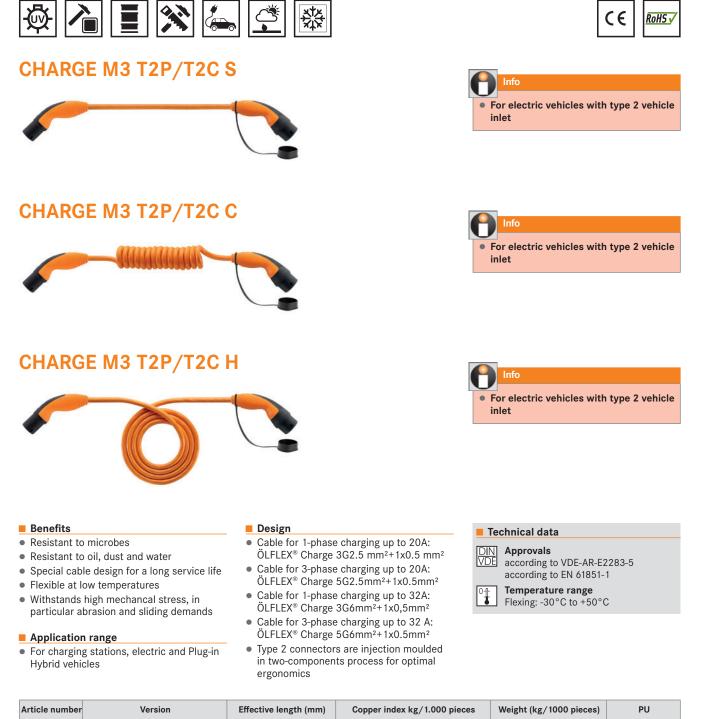
Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU		
Cut off clean, char	Cut off clean, charging cable spiralized, vehicle connector type 2 (Total length: effective length + 1m straight)						
74880136	Charging: 1 phase 20A	5,000	1,074.0	2480	1		
74880139	Charging: 3 phase 20A	5,000	1,861.0	4060	1		
74880143	Charging: 1 phase 32A	5,000	2,633.0	4880	1		
Cut off clean, char	Cut off clean, charging cable spiralized, vehicle connector type 1 (Total length: effective length + 1m straight)						
74880129	Charging: 1 phase 20A	5,000	1,078.0	2420	1		
74880132	Charging: 1 phase 32A	5,000	2,642.0	4820	1		

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Assembled cables

eMobility - Assembled charging cables



Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU				
Plug type 2, Charg	Plug type 2, Charging cable, vehicle connector type 2								
74880153	Charging: 1 phase 20A	5,000	413.0	1740	1				
74880167	Charging: 1 phase 20A	7,000	567.0	2060	1				
74880169	Charging: 3 phase 20A	5,000	673.0	2280	1				
74880170	Charging: 3 phase 20A	7,000	923.0	2800	1				
74880160	Charging: 1 phase 32A	5,000	958.0	2620	1				
74880161	Charging: 1 phase 32A	7,000	1,314.0	3260	1				
74880164	Charging: 3 phase 32A	5,000	1,576.0	3360	1				
74880092	Charging: 3 phase 32A	7,000	2,162.0	4280	1				
Plug type 2, Charg	ing cable spiralised, vehicle connector ty	pe 2							
74880168	Charging: 1 phase 20A	5,000	1,005.0	2940	1				
74880158	Charging: 3 phase 20A	5,000	1,748.0	4520	1				
74880162	Charging: 1 phase 32A	5,000	2,471.0	5340	1				
Plug type 2, Charg	ing cable Helix, vehicle connector type 2								
74880159	Charging: 3 phase 20A	5,000	694.0	2220	1				
74880163	Charging: 1 phase 32A	5,000	988.0	2700	1				

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Further colour combinations and lengths on request

Assembled cables

eMobility - Assembled charging cables



B LAPP GROUP

Info

inlet









For electric vehicles with type 1 vehicle

CHARGE M3 T2P/T1C C





CHARGE M3 T2P/T1C H



Benefits

- New two-chamber system for environmental protection of moving parts to the connection part
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

Application range

• For charging stations, electric and Plug-in Hybrid vehicles

Design

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²
- Type 2 connectors are injection moulded in two-components process for optimal ergonomics

Technical data

DIN VDE according to VDE-AR-E2283-5 according to EN 61851-1

Temperature range Flexing: -30°C to +50°C

Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU			
Plug type 2, charg	ing cable, vehicle connector type 1							
74880152	Charging: 1 phase 20A	5,000	417.0	2740	1			
74880147	Charging: 1 phase 20A	7,000	571.0	2000	1			
74880149	Charging: 1 phase 32A	5,000	967.0	2560	1			
74880093	Charging: 1 phase 32A	7,000	1,323.0	3200	1			
Plug type 2, charg	ing cable spiralised, vehicle connector ty	pe 1						
74880148	Charging: 1 phase 20A	5,000	1,008.0	2880	1			
74880151	Charging: 1 phase 32A	5,000	2,480.0	5280	1			
Plug type 2, charg	Plug type 2, charging cable helix, vehicle connector type 1							
74880270	Charging: 1 phase 32A	5,000	988.0	2800	1			

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Further colour combinations and lengths on request

Assembled cables

eMobility - Assembled charging cables

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CHARGE M3 T3P/T2C S



CHARGE M3 T3P/T1C S





- CHARGE M3 T3P/T2C S
- Resistant to microbes
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

CHARGE M3 T3P/T1C S

- New two-chamber system for environmental protection of moving parts to the connection part
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

Application range

• For charging stations, electric and Plug-in Hybrid vehicles

Design

CHARGE M3 T3P/T2C S

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 3-phase charging up to 20A: ÖLFLEX[®] Charge 5G2.5mm²+1x0.5mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²
- Cable for 3-phase charging up to 32 A: ÖLFLEX[®] Charge 5G6mm²+1x0.5mm²
- Type 2 connectors are injection moulded in two-components process for optimal ergonomics

CHARGE M3 T3P/T1C S

- Cable for 1-phase charging up to 20A: ÖLFLEX[®] Charge 3G2.5 mm²+1x0.5 mm²
- Cable for 1-phase charging up to 32A: ÖLFLEX[®] Charge 3G6mm²+1x0,5mm²





Technical data



according to VDE-AR-E2283-5 according to EN 61851-1

 Temperature range

 Flexing: -30°C to +50°C

Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU
Plug type 3, chargin	ng cable, vehicle connector type 2				
74880097	Charging: 1 phase 20A	5,000	411.0	1580	1
74880171	Charging: 3 phase 20A	5,000	669.0	2140	1
74880098	Charging: 3 phase 32A	5,000	1,568.0	3200	1
74880559	Charging: 3 phase 32A	7,000	2,154.0	4100	1
Plug type 3, charging	ng cable, vehicle connector type 1				
74880173	Charging: 1 phase 20A	5,000	415.0	1540	1
74880174	Charging: 1 phase 32A	5,000	961.0	2400	1

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APP GROUP

Info

Power and control cables

Assembled cables eMobility - Assembled charging cables

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Harnessing with In-Cable Control Box for charging mode 2 for electric vehicles with type 2 vehicle inlet

Harnessing with In-Cable Control Box

for charging mode 2 for electric vehicles with type 1 vehicle inlet

CHARGE M2 TFP/T2C S



CHARGE M2 TFP/T1C S



Benefits

- CHARGE M2 TFP/T2C S
- Resistant to microbes
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

CHARGE M2 TFP/T1C S

- · New two-chamber system for environmental protection of moving parts to the connection part
- Resistant to oil, dust and water
- Special cable design for a long service life
- Flexible at low temperatures
- Withstands high mechancal stress, in particular abrasion and sliding demands

Application range

• For charging stations, electric and Plug-in Hybrid vehicles

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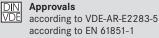
- Charging current from 6-13A in 5 steps
- · Monitoring of protective earth conductor
- PUR outer sheath
- Suitable for all weather conditions

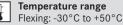
Design

- H07BQ-F: Cable from Typ F plug up to **ICCB**
- Type 2 connectors are injection moulded in two-components process for optimal ergonomics
- Type F cable connectors are injection moulded

Technical data

Approvals





Article number	Version	Effective length (mm)	Copper index kg/1.000 pieces	Weight (kg/1000 pieces)	PU
Plug type F, charging cable with ICCB, vehicle connector type 2					
74880085	Charging: 1-phase 13A	4,000	344.0	2570	1
Plug type F, charging cable with ICCB, vehicle connector type 1					
74880086	Charging: 1-phase 13A	4,000	344.0	2570	1

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Further colour combinations and lengths on request

Assembled cables

eMobility - System components



Socket outlet Type 2 IP54 up to 63A and connector locking flat



Info
 Sturdy and durable socket outlet for frequent connection







Socket outlet Type 2 IP54 up to 63A with RGB LED as well as cover and connector locking





ÖLFLEX®

Socket outlet Type 2 IP54 up to 63A and connector locking

Info
 Sturdy and durable socket outlet for frequent connection



Socket outlet Type 2 IP54 up to 63A with RGB LED and connector locking

Info
 Sturdy and durable socket outlet for frequent connection



Benefits

- Socket outlet and controller fits perfectly together
- Application range
- For installation in charging stations

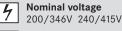
Product features

- 5 different versions for all installation situations
- Socket outlet type 2 according to IEC62196-1,2 and IEC 61851-1
- Optionally available: Hinged lid locking, RGB LED, flat design

Design

- Screw terminals for 3P+N+PE as well as PP and CP
- With easy CONTACT and silver plated contacts
- Plug interlock with integrated actuatorHinged lid included

Technical data



IP Protection rating



Article number	Charging current	Suitable EVCP2 Controller	PU
Socket outlet type 2 flat			
74880200	bis 20A	EVCP2 Controller 74880215 or 74880218	1
74880201	bis 32A	EVCP2 Controller 74880215 or 74880218	1
74880202	bis 63A	EVCP2 Controller 74880215 or 74880218	1
Socket outlet type 2 with	hinged lid locking		
74880203	bis 20A	EVCP2 Controller 74880217 or 74880220	1
74880204	bis 32A	EVCP2 Controller 74880217 or 74880220	1
74880205	bis 63A	EVCP2 Controller 74880217 or 74880220	1
Socket outlet type 2 with	hinged lid locking and RGB LED		
74880206	bis 20A	EVCP2 Controller 74880217 or 74880220	1
74880207	bis 32A	EVCP2 Controller 74880217 or 74880220	1
74880208	bis 63A	EVCP2 Controller 74880217 or 74880220	1
Socket outlet type 2			
74880209	bis 20A	EVCP2 Controller 74880215 or 74880218	1
74880210	bis 32A	EVCP2 Controller 74880215 or 74880218	1
74880211	bis 63A	EVCP2 Controller 74880215 or 74880218	1
Socket outlet type 2 with	RGB LED		
74880212	bis 20A	EVCP2 Controller 74880215 or 74880218	1
74880213	bis 32A	EVCP2 Controller 74880215 or 74880218	1
74880214	bis 63A	EVCP2 Controller 74880215 or 74880218	1

Assembled cables

eMobility - System components

EVCP2 Controller Mode 3/ Typ 2

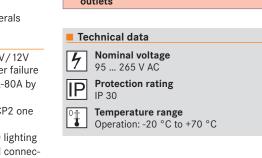
Benefits

- For safe and continuous charging
- Power reserve for plug release in case of power failure
- Additional 12V outputs for peripherals

Product features

- Integrated power supply unit 230V/12V with power supply in case of power failure
- Adjustable charging current of 6A-80A by means of rotary switch
- For each type 2 socket outlet EVCP2 one controller is necessary
- Possibility to control the RGB LED lighting
- Control of charging contactor and connector lock

For optimal control of the type 2 socket outlets



Article number	Article designation	PU					
EVCP2 Controller	Hada 2 / Tura 2						
74880215	Standard + query via RS485	1					
74880216	Vehicle connector firmly connected to EVSE, suitable for type 1 and type 2, query via RS485	1					
74880217	Standard + query via RS485 + hinged lid locking + limit switch	1					
74880218	Standard + query via RS485 + analog input	1					
74880219	Vehicle connector firmly connected to EVSE, suitable for Type 1 and Type 2, query via RS485 + analog input	1					
74880220	Standard + query via RS485 + hinged lid locking + limit switch + analog input	1					
Software for EVCP	Software for EVCP2 controllers including manual						
74880221	To adjust and for query via RS232 / RS485	1					
Connecting cable	Connecting cable for plug and hinged lid locking						
74880222	Acutator coupler with single cores 3x0.5, length 1000mm	1					

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New

Vehicle connector Type 1 up to 32A

Benefits

- Dust cover enclosed
- New two-chamber system for environmental protection of moving parts to the connection part

Product features

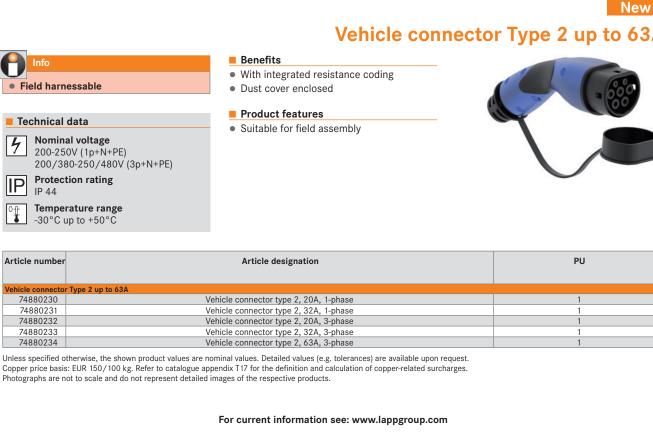
- Suitable for field assembly
- Design
- L1+L2/N+PE and CP+CS



100		
4	Nominal voltage 200-250V	
IP	Protection rating	

Temperature range -30°C up to +50°C

Article number	Article designation	PU
Vehicle connector	Type 1 up to 32A	
74880223	Vehicle connector Type 1 20A	1
74880224	Vehicle connector Type 1 32A	1



CE

Plug Type 2 up to 63A

eMobility - System components

RoHS

VDÈ

New

Info

Field harnessable	Product features	
■ Technical data Nominal voltage 200-250V (1p+N+PE) 200/380-250/480V (3p+N+PE) Protection rating IP 44 Temperature range -30°C up to +50°C	Suitable for field assembly	
Article number	Article designation	PU
Plug Type 2 up to 63A		

With integrated resistance coding

Plug Type 2 up to 63A		
74880225	Plug type 2, 20A, 1-phase	1
74880226	Plug type 2, 32A, 1-phase	1
74880227	Plug Typ 2, 32A, 3-phase	1
74880228	Plug type 2, 32A, 3-phase	1
74880229	Plug type 2, 63A, 3-phase	1

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Photographs are not to scale and do not represent detailed images of the respective products.

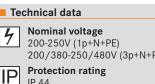
Benefits





Vehicle connector Type 2 up to 63A

Field harnessable Technical data



C€	<u>RoHS</u>	

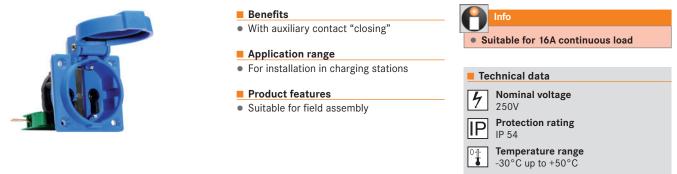
Assembled cables

eMobility - System components





Socket outlet ground receptacle 16A 230V, German System



Article number	Article designation	PU
Socket outlet grou	Ind receptacle 16A 230V, German System	
74880235	Socket outlet colour blue	1
74880236	Socket outlet black colour	1

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Socket outlet ground receptacle 16A 230V, German System

Application range

Product features

• Suitable for field assembly • Without hinged cover



Benefits

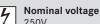
With auxiliary contact "closing"

• For installation in charging stations



Suitable for 16A continuous load

Technical data



250V

Protection rating

Ρ IP 40

Temperature range -30°C up to +50°C

Article number	Article designation	PU
Socket outlet gro	und receptacle 16A 230V, German System	
74880237	Socket outlet colour blue	1
74880238	Socket outlet black colour	1

For current information see: www.lappgroup.com

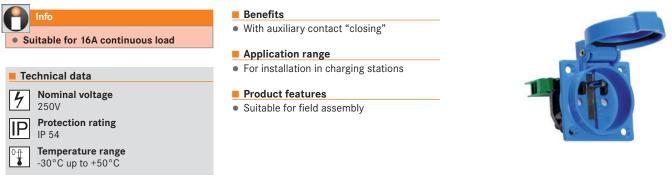
Power and control cables **Assembled cables**

eMobility - System components

RoHS v

CE





Article number	Article designation	PU
Socket outlet gro	und receptacle 16A 230V, Belgian/French System	
74880239	Socket outlet colour blue	1
74880240	Socket outlet black colour	1

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Socket outlet Type 23, Swiss System

Info	Benefits	_
Suitable for 16A continuous load	 With auxiliary contact "closing" 	
	Application range	
Technical data	• For installation in charging stations	
Nominal voltage 250V	 Product features Suitable for field assembly 	
IP Protection rating		
O Temperature range −30°C up to +50°C		

Article number	Article designation	PU
Socket outlet Type	e 23, Swiss System	
74880241	Socket outlet colour blue	1
74880242	Socket outlet black colour	1

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RoHS v

VDE

CE

Assembled cables

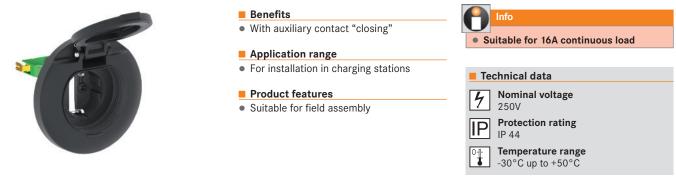
ÖLFLEX

eMobility - System components





Socket outlet ground receptacle with flat design



Article number	Article designation	PU
Socket outlet grou	und receptacle with flat design	
74880243	German system	1
74880244	Belgian / French system	1
74880245	Swiss system	1

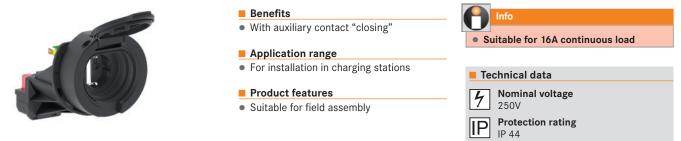
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Photographs are not to scale and do not represent detailed images of the respective products.





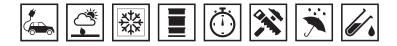
Temperature range -30°C up to +50°C

Socket outlet ground receptacle with hinged cover locking



Article number	Article designation	PU
Socket outlet grou	Ind receptacle with hinged cover locking	
74880246	German system	1
74880247	Belgian / French system	1
74880248	Swiss system	1

eMobility - System components





Socket outlet ground receptacle with hinged cover locking and LED

Info Suitable for 16A continuous load	 Benefits With auxiliary contact "closing" 	
	Application range	
Technical data	• For installation in charging stations	
Nominal voltage 250V	 Product features Suitable for field assembly 	
Protection rating		
■ Temperature range -30°C up to +50°C		

Article number	Article designation	PU
Socket outlet gro	und receptacle with hinged cover locking and LED	
74880249	German system	1
74880250	Belgian / French system	1
74880251	Swiss system	1

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Socket outlet ground receptacle



Article number	Article designation	PU
Socket outlet grou	Ind receptacle	
74880252	German system	1
74880253	Belgian / French system	1
74880254	Swiss system	1

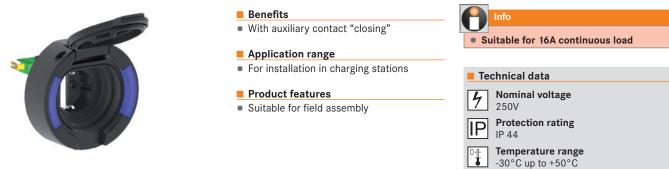
Assembled cables

eMobility - System components





Socket outlet ground receptacle with LED



Article number	Article designation	PU		
Socket outlet grou	Socket outlet ground receptacle with LED			
74880255	German system	1		
74880256	Belgian / French system	1		
74880257	Swiss system	1		

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Socket outlet CEE 3-way 230V



Benefits

- With inclination
- Application range
- For installation in charging stations

Product features

• Suitable for field assembly



With auxiliary contact "closing" and "break"

Technical data



Ρ

Info

Protection rating

IP 54

Temperature range -30°C up to +50°C

Article designation	PU
230V	
16A	1
32A	1
	y 230V 16A

Assembled cables

eMobility - System components



LAPP GROUP

74880260

74880261



Socket outlet CEE 5-way 400V

Info	Benefits	8
 With auxiliary contact "closing" and 	With inclination	
"break"	Application range	
	 For installation in charging stations 	Constitute of
Technical data	Product features	22 - 604 (1997) 1998 - 1997 1996 - 1994 1997 - 1997 - 1994 1997 - 1994 1997 - 1994 1997 - 1994 1997 -
Nominal voltage 200-250V / 380-415V	Suitable for field assembly	
IP 54		
O [↑] -30°C up to +50°C		
Article number	Article designation	PU
Socket outlet CEE 5-way 400V		

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16A

32A



New

ÖLFLEX[®] CHARGE

VDE EVC cable to charge electrically powered vehicles and for spiralization

LAPP KABEL STUTTGART ÖLFLEX® CHARGE EVC 3G6+0,5 450/750 VAC VDE-Reg. 8727 RoHS (€



- Normative compliance of the charging process with IEC 61851-1
- VDE EVC certified according to VDE-AR-E 2283-5/ EVC cable type as third-party approved component involved in charging
- Low toxicity of flue in the event of fire
- Permanent connection as flexible charging cable to charging station or for permanent on-board carriage inside vehicles
- Suitable for spiralization, except for 5G6mm²+1X0.5mm²

Product features

- Flame-retardant acc. IEC 60332-1-2 as well as Halogen-free acc. VDE-AR-E 2283-5/ appendices B+C, EN 50267-2-1, EN 50267-2-2, EN 50525-1/ appendix C, EN 60684-2
- UV-resistant acc. EN ISO 4892-2, 2.4.20, as well as ozone-resistant acc. EN 50396, 8.1.3, for outdoor use
- Cold-flexible as well as water-resistant according to AD6 of HD 516 and VDE-AR-E 2283-5, appendix I
- Resistance to acids and solutions according to EN 60811
- High resistance to usual vehicle chemicals according to VDE-AR-E 2283-5, appendix G

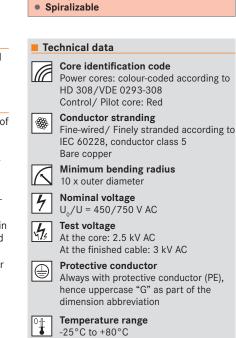
Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHA	RGE			
74880550	3G2,5+1X0,5	10.1	76.8	155
74880558	3G6+1X0,5	13.2	178.0	330

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
74880574	5G2,5+1X0,5	12.8	125.0	260
74880582	5G6+1X0,5	16.0	293.0	460

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Norm references / Approvals

- <VDE> EVC cable type registration issued by the VDE according to the VDE application rule VDE-AR-E 2283-5
- Design
- Finely stranded, bare copper conductors of IEC conductor class 5 acc. IEC 60228
- Core insulations of power cores made of special, halogen-free, cross-linked elastomer EVI-2 acc. VDE-AR-E 2283-5
- Core insulation control / pilot core(s): Halogen-free, thermoplastic, special compound EVI-1 acc. VDE-AR-E 2283-5
- Halogen-free, outer sheath made of PUR in compliance with the normative compound EVM-1 acc. VDE-AR-E 2283-5
- Colour of the outer sheath: Orange similar to RAL 2003, further sheath colours on request



Info

VDE EVC type certified
Halogen-free and flame-retardant

Maximum permissible conductor temperature: +90 °C

22





Notices

The following applies for the use of our products

The conformity of our products to the relevant European directives and compliance with the provisions contained therein shall be indicated by the CE marking. The safety of our products is closely associated with how they are used. A knowledge of and adherence to the respective international/national standards of use (e.g. DIN VDE 0100; 0298)

are mandatory. There are particular risks if installed improperly. This applies to all our products/items: Processing is only to be done by an authorised electrician! Otherwise, there is the risk of an electric shock or a fire ignited by electric current!

Safety

Without exception, our products are tested for application safety in accordance with defined standards and our own regulations, which complement the standards. Relevant legal requirements and safety regulations are also observed. Provided due care and attention is paid, the possibility of product-specific danger to the user may thus reasonably be excluded. Where products are used carelessly or incorrectly, however, considerable danger to persons and the environment may arise. For this reason, our cables must only be processed and/or used responsibly by trained electricians or specialists. This catalogue contains general information for the application of each product. Independent of such information, the application standards DIN VDE 0298 and DIN VDE 0891 for cables will apply. Excerpts from these standards, as well as complementary selection and application tables, design and installation guidelines, are contained in the tables in the appendix to the current main catalogue. Our machines and installation tools are – where necessary – designed in accordance with the machine guidelines and display the CE identification mark. It must be noted, however, that our machines and installation tools must only be used by trained specialist personnel and for the purpose for which they

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FLEXIMARK[®]



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