

## Series 'EV' Heavy Duty Vehicle Charging Reels

Cable reels for electric vehicle charging

Facing the rising number of e-mobility consumers and the appropriate demand for an expanding charging infrastructure throughout private, commercial and public life we provide flexible charging cable reels for various battery charging applications. Charging reels for electric vehicles are the easiest solution – quick and safe to assemble or to integrate into garages, car parks, bus depots or charging stations. Spring driven charging reels by Simbal serve as reliable power transfer systems for the orderly winding of flexible cables. They enable a smooth and reliable transfer of charging current to the place wherever it may be needed: from the charging station in car parks, public places, or in industrial environments to e-vehicles and many more mobile consumers. Comfortable to install and adapt to local requirements, and without health and safety risks within daily operations.



### Typical Applications

- |                           |                           |
|---------------------------|---------------------------|
| • Parking garages         | • Corporate fleets        |
| • Car workshops           | • Commercial vehicles     |
| • Car dealers & showrooms | • Car sharing vehicles    |
| • Bus depots              | • Public transport fleets |
| • Industrial workplaces   |                           |

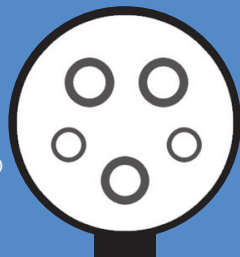
### Advantages

- Previous solutions for public charging stations, car workshops and e-fleets are often not extensively available
- Orderly cable management systems are becoming more desirable
- Owners of high-value electric vehicles don't accept wet or dirty cables within their car boots
- Messy or manual wound cables can be quickly impaired by negative loads affecting their functionality
- Charging reels provide protection for cables and plugs, and therefore, reduce operational costs
- Safety risks will be minimised - trip hazards due to cables hanging or lying around can be avoided
- Robust execution of our proven cable reels enable permanent use in industry, workshops, car garages or public charging stations
- Suitable for ceiling, wall and underfloor mounting

### Recommended charging plugs

#### Type 1 - plug

- single-phase plug
- standard for e-vehicles in North-American and Asian region (widespread in cars, but not on charging stations)
- suitable for charging capacities up to 7,4 kW (230 V, 32 A)



#### Type 2 - plug

- three-phase plug
- European standard for AC charging stations & electric vehicles manufacturer
- charging capacity up to 43 kW (400 V, 63 A)
- suitable for each Mode-3 charging cable (for e-vehicles with type 1 & 2 plugs)



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Technical data	
Application	Spring cable reel for battery charging (opt. with mounting accessories for ceiling, wall or ground)
Inner diameter	d = 220 mm
Outer diameter	D = 400 mm
Winding width	b = 120 mm
Winding length	10 m
Cable	Reeling cable; type 5x6mm <sup>2</sup> +1x0,5mm <sup>2</sup> , 16 mm diameter, 0,43 kg/m cable weight
Slip ring assembly	4 poles + PE 60 A, 500 V + 1 pole R32 (slip rings with metal / brass rings and copper-graphite brushes), 32 A, 230 V
Main components	Reel body, spring assembly, slip ring assembly & housing, ratchet, roller yoke or mounting devices for ceiling, wall or underfloor assembly
Material	Reel bodies and slip ring housings made from deep drawn, galvanised steel sheet (on request with 2-component special paintings in standard RAL 7040 according to corrosive category C3 or customised painting)
Protection class	IP55 / IP65

