

Ruggedized MCS Cable 4'000 A

Application: MCS Couplers for Electric Vehicles

The Grivix 4,000A MCS Cable facilitates direct current (DC) charging at up to 4,000 amperes (max. 6 Megawatt) using a sophisticated cooling system. Compatible with MCS vehicle inlet connectors (EV), for installation in electric charging stations (EVSE). It requires an additional cooling unit. Additionally, its design is tailored for customization, making it ideal for small-scale, client-specific applications.



Benefits

- Capable of high currents.
- Adaptable for small series.
- Precisely manufactured in Switzerland.
- Increased IP rating
- Ready for harsh environments.

Product Definition

Product Type	MCS Cable
Standards	IEC 63379, CharIn Ruggedized MCS Whitepaper
Ingress Protection	IP66 (mated), IP20 (unmated)
Conformance	CE compliant

Electrical Data

Maximum operational voltage	1'500 V _{DC}
Maximum operational current	4'000 A @40°C environment
Thermal Monitoring	2x Pt 1000
Power Contacts	DC+, DC-, PE
Signal Contacts	ID, CE, PHY 1, PHY 2

Mechanical Data

Material	PA 12 / PUR / Copper / Aluminium
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Environmental Data

Operating temperature range	-35 °C to +50 °C
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Maximum temperature	110 °C
RoHS compliant	Yes

Product Range

Cable Type	Current	Max. Length*	Weight	Cooling Required	Availability
GRV21	4'000 A	6 m	~ 28.4 kg	55 kW	available
	3'500 A	8 m	~ 36.6 kg	54 kW	
	3'000 A	10 m	~ 44.7 kg	49 kW	
	2'500 A	13 m	~ 56.9 kg	40 kW	
	2'000 A	18 m	~ 77.3 kg	36 kW	
	1'500 A	25 m	~ 105.7 kg	30 kW	
GRV26	4'000 A	12 m	~ 52.8 kg	103 kW	upon request
GRV32	4'000 A	20 m	~ 85.4 kg	166 kW	upon request

**All length measurements are including 0.5m of loose cable ends for connection*

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