

CCS2 DC Charging Connector

80 A – 400 A · Natural Cooling Cable · 1000 V DC

Ultrasonic terminal welding with contact resistance close to zero.

Ultrasonic terminal welding technology delivers a lower temperature rise, making the charging process safer and prolonging the connector's service life. TUV / CE certified and built to IEC 62196-3 for DC fast charging. Supplied with natural-cooling cable in lengths to suit both AC-DC public chargers and workshop test rigs.

Custom cable lengths and branding available to order.



Product Range

Model No.	Rated Current	Cable Specification	Cable Material	Cable Outer Diameter
CCS2-400A	400 A	4×60mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	38 mm
CCS2-375A	375 A	4×50mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	34.5 mm
CCS2-350A	350 A	4×50mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	34.5 mm
CCS2-300A	300 A	4×40mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	32 mm
CCS2-250A	250 A	4×35mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	31 mm
CCS2-200A	200 A	4×25mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	29 mm
CCS2-150A	150 A	2×35mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	25 mm
CCS2-125A	125 A	2×25mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	22.5 mm
CCS2-80A	80 A	2×16mm ² + 1×6mm ² + (2×0.75mm ²)(P2) + 2×(2×0.75mm ²)	TPU	20.5 mm

Technical Specifications

Specification	Parameter	Specification	Parameter
Rated Current	80 A – 400 A	Casing Material	Thermoplastic
Rated Voltage	1000 V DC	Terminal Material	Copper alloy, silver plated
Insulation Resistance	> 500 MΩ	Operating Temperature	–35 °C to +50 °C
Contact Resistance	0.5 mΩ max	Terminal Temperature Rise	< 50 K
Withstand Voltage	3500 V AC	Insertion / Withdrawal Force	< 100 N
Flammability Rating	UL94 V-0	Certification	TUV / CE
Mechanical Lifespan	> 10,000 mating cycles	Casing Protection Rating	IP55
Connector Dimensions	295.8 × 145.9 × 71.9 mm	Warranty	24 months / 10,000 cycles

Cool running

Ultrasonic-welded terminals hold contact resistance at 0.5 mΩ max, keeping terminal temperature rise under 50 K at full rated current.

Built to last

Rated for more than 10,000 mating cycles with an IP55 thermoplastic casing and silver-plated copper alloy terminals.

NZ supported

Supported in Christchurch, with local technical advice.

All models supplied with natural-cooling cable. Contact Smart EV Chargers NZ for cable length options, pricing and lead times..