



UL 62 Type EV / EVJ EV charging cable

EV / EVJ

UL Type EV / EVJ Thermoplastic Electric Vehicle Charging

UL 62 Type EV (600/1000 V) & EVJ (300 V) thermoplastic AC/DC EV charging cable



UL 62 & CSA C22.2 No. 49

Type EVJ (300 V) & EV (600/1000 V)

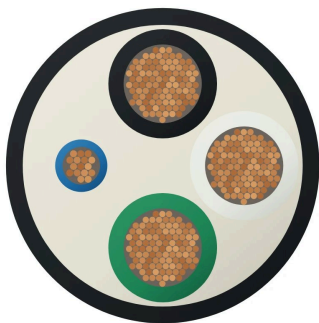
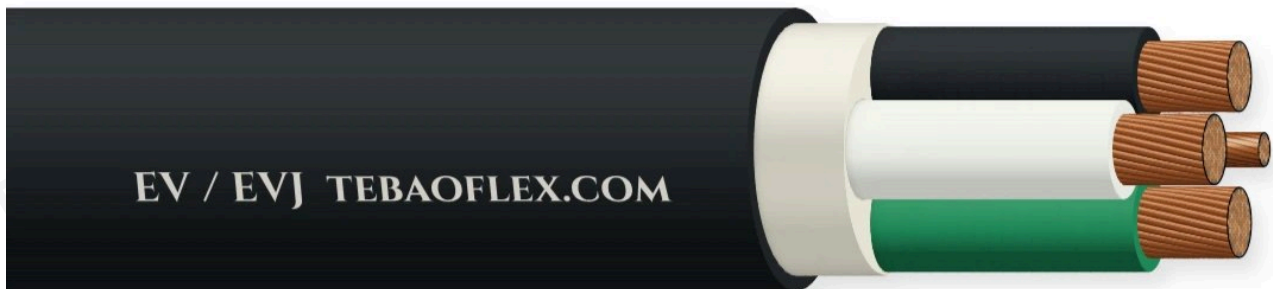
SAE J1772 & J3400 (NACS) EVSE

Application

UL 62 and CSA C22.2 No. 49 Listed thermoplastic electric vehicle charging cord (Type EVJ 300 V & Type EV 600 V / 1000 V) featuring Class K rope-lay bare copper power + ground cores, integrated SAE J1772 / J3400 control pilot (CP/PP) signal conductors.

Typical uses: AC Level 1 & Level 2 Home/Commercial EV Chargers, SAE J1772 & SAE J3400 (NACS) Portable EVSE Cordsets, Fleet Depot & Workplace EV Charging Pedestals, 50–150 kW Uncooled CCS1 / NACS DC Fast Chargers

Construction



Cross-section, not to scale

- 1 Fine-stranded Class K bare (or tinned) copper
- 2 Thermoplastic PVC or TPE primary insulation
- 3 Low-friction talc-free separator wrap & fibrillated
- 4 Sunlight- & oil-resistant thermoplastic outer jacket

Technical data

Typical values

Rated voltage	300 V (Type EVJ) · 600 V or 1,000 V AC/DC (Type EV)	Control & proximity pilot cores	1 or 2 × 18-16 AWG (300/600 V) for SAE J1772 PWM CP & PP (+ optional pairs)
Factory dielectric withstand test	1,500 V AC (EVJ 300 V) · 2,500-3,000 V AC (EV 600/1000 V) for 1 min	Continuous temperature rating	-30 °C (or -40 °C cold-bend option) to +90 °C or +105 °C dry / +60 °C wet
Thermal cycling & overload stability	Verified thermal ageing and short-circuit withstand per standard	Vehicle drive-over crush test	Withstands repeated 5,000 N (1,125 lbf) tire roll-over load per UL 62 / UL
Minimum bending radius	6 × OD (dynamic flexing) · 5 × OD (coiled on holster)	Flame, oil & sunlight resistance	UL 62 FT2 (VW-1 optional), Oil Resistant I (60 °C) & 720 h Sunlight
Environmental & chemical durability	Resistant to moisture, industrial fluids and service ageing	Standards	cULus UL 62 & CSA C22.2 No. 49 Listed · NEC Article 625 & CEC Section 86

Sizes

8 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Power + Pilot layout	Rating	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Max. EVSE I A	Min. bend R mm
UL Type EVJ 300 V AC Level 1 & Light Level 2 Portable EV Cords 3 sizes							
☐ EVJ 3×16 AWG + 1×18 AWG	3×16 AWG + 1×18 AWG CP	300 V AC	9.6	52	118	13	58
☐ EVJ 3×14 AWG + 1×18 AWG	3×14 AWG + 1×18 AWG CP	300 V AC	10.8	78	152	18	65
☐ EVJ 3×12 AWG + 2×18 AWG	3×12 AWG + 2×18 AWG CP/PP	300 V AC	12.6	122	215	25	76
UL Type EV 600 V AC Level 2 Commercial & Residential Wallbox Cables 3 sizes							
☐ EV 3×10 AWG + 2×18 AWG	3×10 AWG + 2×18 AWG CP/PP	600 V AC	15.8	188	335	35	95
☐ EV 3×8 AWG + 2×18 AWG	3×8 AWG + 2×18 AWG CP/PP	600 V AC	18.5	290	480	50	111
☐ EV 3×6 AWG + 2×18 AWG	3×6 AWG + 2×18 AWG CP/PP	600 V AC	21.8	450	710	65	131
UL Type EV 1000 V DC Fast Charger (CCS1 / NACS J3400) Cables 2 sizes							
☐ EV 2×2 AWG + 1×6 AWG + 6×18 AWG	2×2 AWG DC + 6 AWG G + 3Pr	1000 V DC	27.5	845	1,290	150	165
☐ EV 2×1/0 AWG + 1×4 AWG + 6×18 AWG	2×1/0 AWG DC + 4 AWG G + 3Pr	1000 V DC	31.2	1,290	1,860	200	187

- Per NEC 625.41, continuous EV charging branch circuits are sized at 125 % of the maximum continuous EVSE load.

Standards and approvals

- ✓ cULus UL 62 & CSA C22.2 No. 49 Type EV / EVJ Listed
- ✓ NEC Article 625 & SAE J1772 / J3400 (NACS) Compliant
- ✓ RoHS 2 & REACH Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

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Web

tebaoflex.com/cables/ul-type-ev-evj-thermoplastic-electric-vehicle-charging-cable



Typical values for this cable type, based on UL 62 / CSA C22.2 No. 49 / NEC Article 625 / SAE J1772 & J3400. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.