



# CHUNG KWANG

ELECTRIC WIRE AND CABLE CO., LTD.

## AC Charging Connector and Cables for EV Series



SAE J 1772

1. Customized Design
2. Strict QC management
3. Complete Series of Products Ranges



## CHUNG KWANG ELECTRIC WIRE AND CABLE CO., LTD.

WE ARE 45 YEARS EXPERIENCE PROFESSIONAL MANUFACTURERS.

Chung Kwang Electric Wire & Cable was founded in 1979 with more than 40 years of experience in the wire & cable industry. OEM/ODM Customers design their cables based on industry and appliance requirements.

WE HAVE ESG CERTIFICATION AND MULTI-INTERNATIONAL CERTIFICATES.







## PROFESSIONAL PRODUCTION LINE

Manufacturing Capabilities.

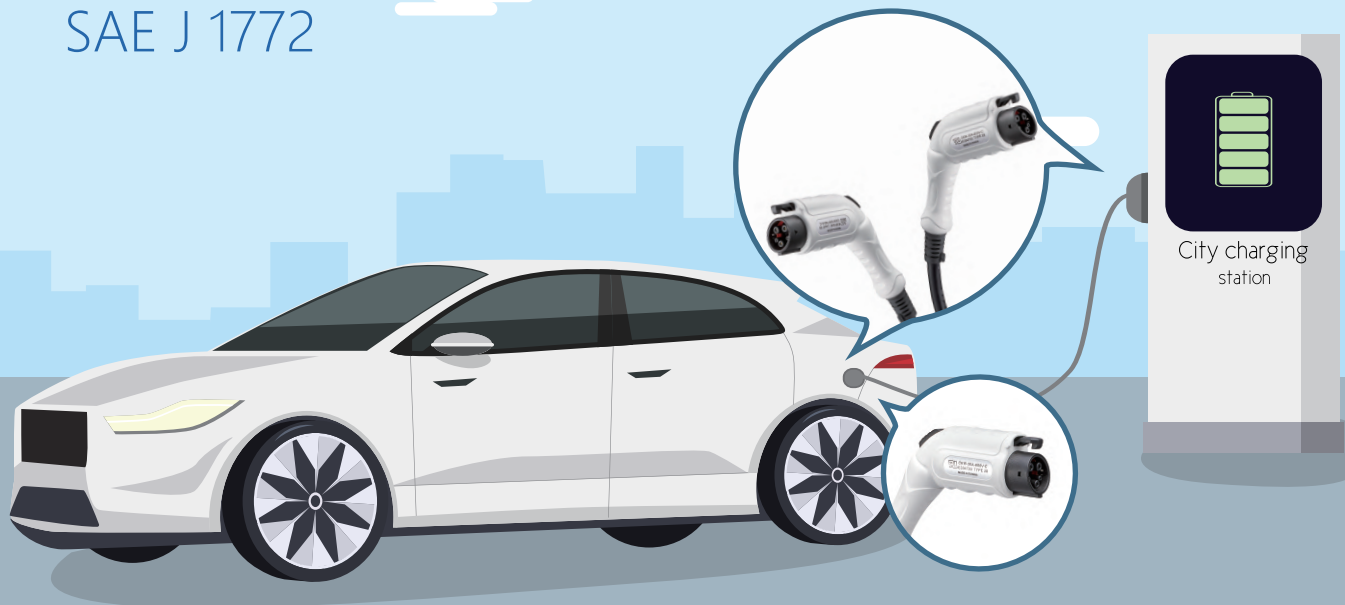
1. AC Charging Connector and Cables for EV
  - (1) One Connector / Two Connectors EV assembly
  - (2) Portable EV Charge Set
  - (3) EVJE, EVJT, EVE, EVT      (4) EV Inlet
2. PV Connectors and Cables
  - (1) PV Connectors      (2) PV Cables
3. Power Supply Cords
  - (1) Europe Standard      (2) USA Standard
  - (3) Japan Standard
4. Underground Low-Energy Circuit Cables
  - Low Voltage Landscape Lighting Cable
5. Submersible Pump Lines
  - (1) Submersible Pump Cables
  - (2) Winding Wire for Submersible Pump
6. Industrial Cables
  - TC, TC-ER, DG





# Application for Electric Chargers

SAE J 1772



Electric Vehicles



## Advantages

- Made in Taiwan.
- Stylish, ergonomic and customizable design.
- Charging interface: SAE J 1772 (Type 1) 、  
IEC 62196-2 (Type 2)





## J 1772 Coupler/ Plug

### J 1772 Coupler/ Plug

- Glass Fiber/ Nylon Construction
- UL 2251
- 15-75 AMP, 18-6 AWG
- Heat and moisture resistant
- UV resistant
- Oil and solvent resistant
- Abrasion/ crush resistant
- High Quality Copper Conductor
- High Quality gold/ silver plated Pins
- SAE J 1772 Compliant

### Applications

- Passenger Electric Vehicle  
( EV, LSV, NEV, BEV )
- Charging Station  
( Home/ Public/ Industrial )
- Electric Fleet
- Public Service Vehicles
- Solar Charging Stations
- Electric WaterCraft
- Electric Motorcycle/ Scooter
- Electric Bus
- Personal Assistance Vehicles
- Amusement Park/ Guide Vehicles





## EVT, EVJT, EVE & EVJE

### EVT, EVJT, EVE & EVJE

With over 25 years experience in producing wires & cables. UL certified cables, Chung Kwang Electric Wire & Cable is proud to introduce our UL 2263 Certified EV Series Cable for Charging Stations, Electric Cars, Motorcycles, BEV, LSV and Hybrid vehicles. Our EV series cables are engineered to withstand extreme weather conditions, exposure to oil and solvents, UV rays, and harsh daily indoor/outdoor use.

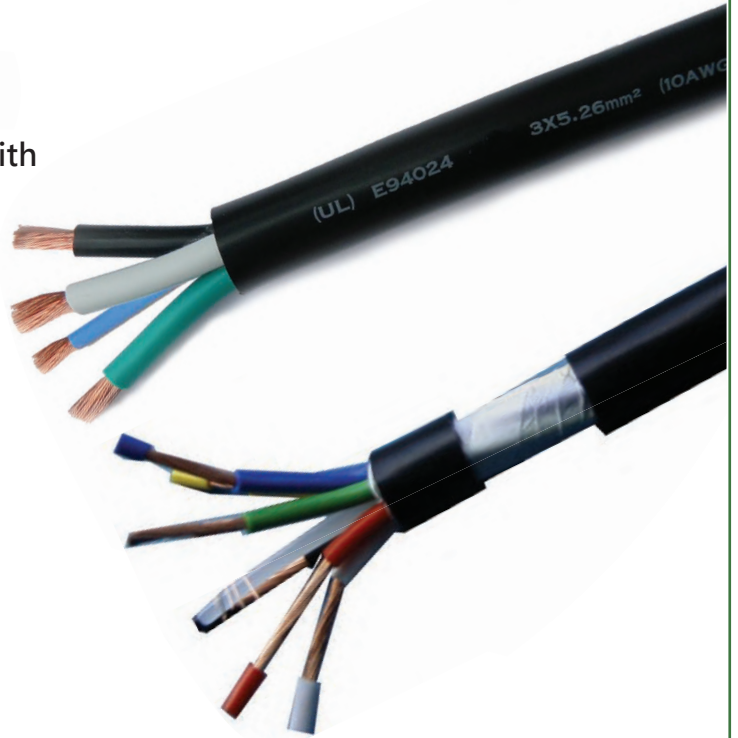


### Construction

Our cables are highly flexible and compatible with SAE J 1772 connectors and UL 2594 and NEC 625 certified charging systems. We also offer customers EV cable solutions such as the additional USB data transmission cores, customer logos, shielding, armouring, and custom jacket colors.

### FEATURES

- US specification with TPE and PVC jacket
- UL Certified
- 600 EVE ( TPE ) 2-18 AWG
- 600 EVT ( PVC ) 2-18 AWG
- 300 EVJE ( TPE ) 12-18 AWG
- 300 EVJT ( PVC ) 12-18 AWG
- Heat and moisture resistant
- UV resistant
- Oil and solvent resistant · Abrasion/ crush resistant
- High quality copper conductor
- Assembled with SAE J 1772 connectors





## AC Charging Connector for EV

Model No. : CKW-EC32A-01-05

### Products Features:

- (1) Safety and Strict QC management, made in Taiwan.
- (2) Complete Series of Products Ranges.
- (3) SAE J 1772.
- (4) Low Heat Generation, Highly Waterproof, High-structure Strength.
- (5) Stylish, Ergonomic and Customizable Design.

### Approval and Technical specification

Approvals : UL 2251/2263

File No. : UL E354793 、 UL E347242 、 ISO 9001

Ampere : 16A/24A/32A/48A

Voltage : 300V/ 600V

Rating Temperature : -40°C ~ 90°C

Operating Temperature : -40°C ~ 50°C

Lifespan : ≥ 10000 times

### Applications

Application for Electric Chargers







## AC Charging with Two Connectors for EV

Model No. : CKW-EC32A-02-03 、 CKW-EC32A-02-05

### Products Features:

- (1) Safety and Strict QC management, made in Taiwan.
- (2) Complete Series of Products Ranges.
- (3) SAE J 1772.
- (4) Low Heat Generation, Highly Waterproof, High-structure Strength.
- (5) Stylish, Ergonomic and Customizable Design.
- (6) Two Coupler Choice.

### Approval and Technical specification

Approvals : UL 2251/ 2263

File No. : UL E354793 、 UL E347242

Ampere : 16A/24A/32A/48A

Voltage : 300V/ 600V

Rating Temperature : -40°C ~ 90°C

Operating Temperature : -40°C ~ 50°C

Lifespan : ≥ 10000 times

### Applications

Application for Electric Chargers





## Portable EV Charge Set

Model No. : CKW-PORTABLE-EC16A-03-01

### Products Features:

- (1) Strict QC management, made in Taiwan.
- (2) Portable, Easy to process, Efficiency, and fit for charging the vehicle on travel.
- (3) Charging InterFace : SAE J 1772.
- (4) Easy to Install, Versatile Compatibility.
- (5) Stylish, Ergonomic and Customizable Design.
- (6) Product High Stabilization and 12 items of Safety Protection.

### Approval and Technical specification

Approvals : UL 2251/ 2263

File No. : UL E354793 、 In application

Ampere : 16A

Voltage : 110V-220V

Operating Temperature : Between -25°C to +50°C

### Applications

Application for Electric Chargers. Charging your EV anytime and anyplace.





## EV Cables

Model No. : EVJE, EVJT, EVE, EVT

### Construction

**Conductor** : Annealed copper strand

**Insulation** : PVC compliant with RoHS

**Jacket** : EVJT, EVT : PVC compliant with RoHS ;  
EVJE, EVE : TPE compliant with RoHS

### Approval and Technical specification

**Approvals** : UL 2263

**File No.** : UL E347242

**Rated Voltage** : EVJE, EVJT : 300 Volts ;  
EVE, EVT : 600 Volts

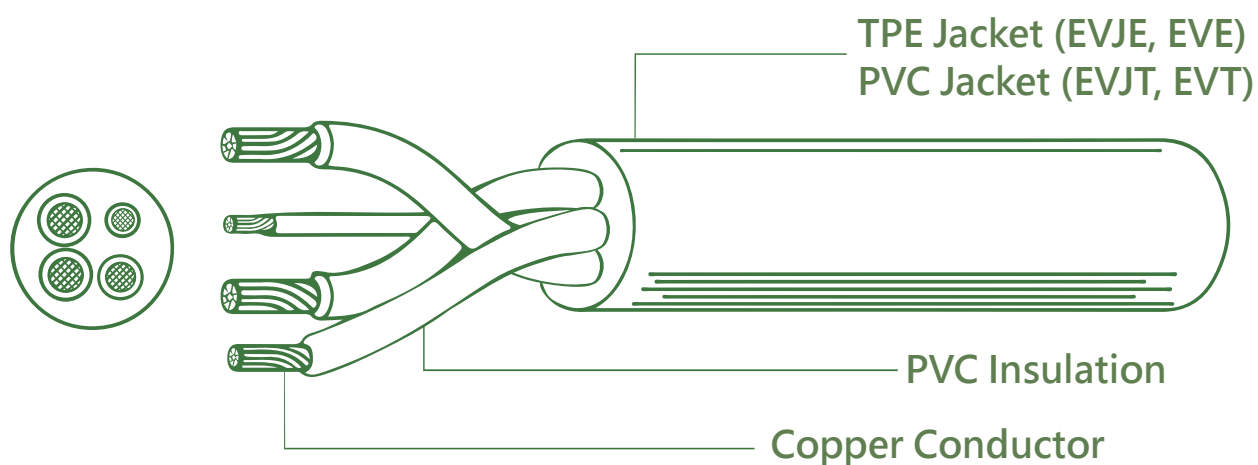
**Rated Temperature** : EVJT, EVT : -40°C~105°C  
EVJE, EVE : -50°C~105°C

**Max. Temperature** : 105°C

**Conductor Size** : EVJE, EVJT : 18 AWG ~ 12 AWG ;  
EVE, EVT : 18 AWG ~ 2 AWG

**Passed UL VW-1 Vertical flame test.**

The cable construction, package and length can be modified according to the requirements of customers.







## EV Cables

Model No. : EVJE, EVJT, EVE, EVT

### EVJE, EVJT Specification

Size(AWG/NO. of conductors)	Nos and Dia. of wire (No. / mm)	Core No.	Insulation Thickness(mm)	Jacket Thickness(mm)	Cable Overall Diameter(mm)
18	16/0.254+41/0.16	3C+1C	0.76+0.76	0.76	7.8 ± 0.2
16	26/0.254+41/0.16	3C+1C	0.76+0.76	0.76	8.5 ± 0.2
14	41/0.254+41/0.16	3C+1C	0.76+0.76	0.76	9.7 ± 0.2
12	65/0.254+41/0.16	3C+1C	0.76+0.76	1.14	11.6 ± 0.2

#### Note

The number of wires of conductor, wire diameter and finished diameter are nominal for reference. Merchandise please refer to reality.

### EVE, EVT Specification

Size(AWG/NO. of conductors)	Nos and Dia. of wire (No. / mm)	Core No.	Insulation Thickness(mm)	Jacket Thickness(mm)	Cable Overall Diameter(mm)
18	16/0.254+41/0.16	3C+1C	1.14+0.76	2.03	12.8 ± 0.2
16	26/0.254+41/0.16	3C+1C	1.14+0.76	2.03	13.0 ± 0.2
14	41/0.254+41/0.16	3C+1C	1.14+0.76	2.03	13.7 ± 0.2
12	65/0.254+41/0.16	3C+1C	1.14+0.76	2.03	15.5 ± 0.2
10	41/0.405+41/0.16	3C+1C	1.14+0.76	2.03	15.8 ± 0.2
8	65/0.405+41/0.16	3C+1C	1.52+0.76	2.41	20.0 ± 0.2
6	105/0.405+41/0.16	3C+1C	1.52+0.76	2.41	22.0 ± 0.2
4	165/0.405+41/0.16	3C+1C	1.52+0.76	2.79	25.4 ± 0.2
2	257/0.405+41/0.16	3C+1C	1.52+0.76	2.79	28.5 ± 0.2

#### Note

The number of wires of conductor, wire diameter and finished diameter are nominal for reference. Merchandise please refer to reality.

## EV Cables

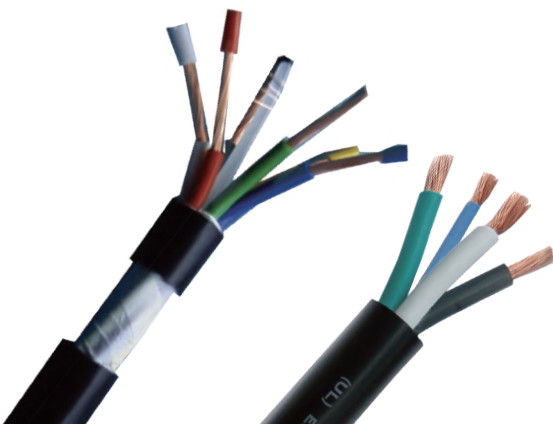
Model No. : EVJE, EVJT, EVE, EVT

### Products Features:

- (1) Strict QC management, made in Taiwan.
- (2) Environmental testing pass RoHs.
- (3) Flame retardant cable.
- (4) Able to withstand vehicle driver-over.
- (5) EV Cable structure according to UL 2263 and CSA C22.2 NO.49.
- (6) Advantages : Safe, Stable, Excellent molding, Harmonised, Soft-touch, Cold resistant, Sun resistant and Oil-resistant jacket, High-strength structure.

### Applications

- Ideal for charging electric vehicles (EV), neighborhood electric vehicles (NEV), battery electric vehicles (BEV), low-speed vehicles (LSV), personal electric vehicles (PEV), plug-in hybrid vehicles (PHV), and plug-in hybrid electric vehicles (PHEV).
- The EV cables may be used indoors or outdoors. When used outdoors, the charging cable must withstand the damage of high temperatures, sunlight, rain, and automobile oils; therefore, the EV cable should be equipped with special properties such as anti-ultraviolet, ozone, high-and-low temperature resistance, and chemical attack resistance, which is suitable for all the occasions.





## EV Inlet

Model No. : CKW-IN-01 、 CKW-IN-02

### Products Features:

- (1) Strict QC management, made in Taiwan.
- (2) Product High Stabilization.
- (3) Charging InterFace: SAE J 1772
- (4) Protective cover, nice shape, and easy access open/close button.
- (5) Made of reliable materials, nonflammable, environmentally protected, abrasion resistance, impact resistance, oil resistance, and anti-UV.

### Approval and Technical specification

Approvals : UL 2251

File No. : UL E354793

Size : 6.5 cm × 6.5 cm × 4 cm

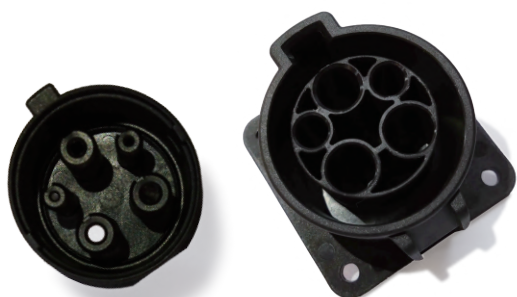
Color : BLACK

Durability : + 10,000 Mating Cycles

Inlet Type	Standard Applied	Ingress Protection (IP) Mated		Ingress Protection (IP) IP Unmated		Ingress Protection (IP) IP Backside	
		Required by Standard	TE Connectivity	Required by Standard	TE Connectivity	Required by Standard	TE Connectivity
Type 1 AC	SAE J 1772 (IEC 62196-2)	IP44	IP44	IP54	To be ensured by OEM	-----	IP67

### Applications

Application for Electric Chargers, eMobility, Vehicle Side.







## High voltage cables cord for EV

Model No. : CKW-ESC

### Construction

Conductor : Bare Copper/Tinned Copper

Taping : Polyester tape/aluminum foil ( optional )

Braid : Tinned copper ( optional )

Insulation/Sheath : XLPE/ XLPO

Insulation/Sheath Color : Orange

### Approval and Technical specification

Approvals : ISO 6722 、 ISO 19462 、 LV 216

Rated Voltage : AC/ DC : 600V/ 900V, 1000V/ 1500V

Rating Temperature : -40°C ~ 125°C

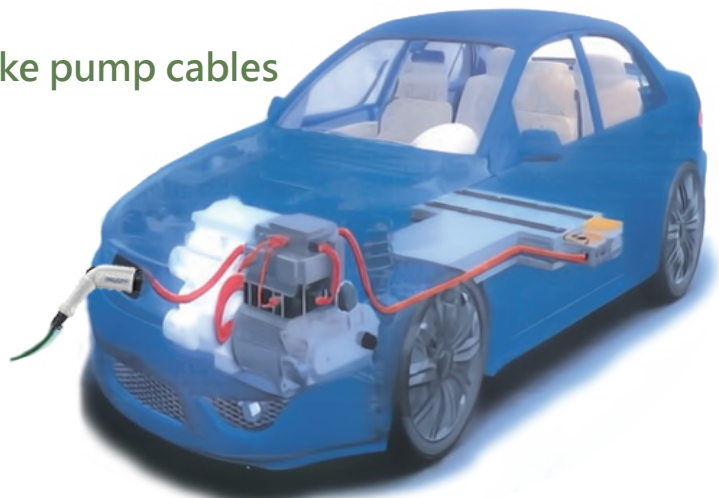
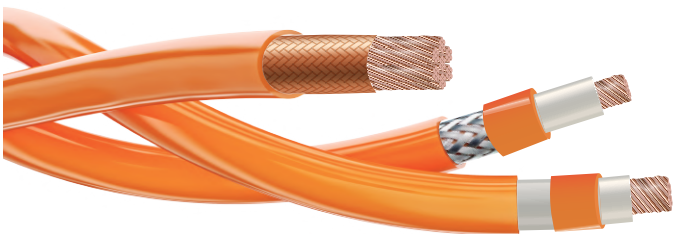
Conductor Size : 2.5 mm<sup>2</sup>~120 mm<sup>2</sup>

### Products Features:

- (1) Safety and Strict QC management, made in Taiwan.
- (2) CKW has a range of high voltage cables for electric vehicles, available in 2.5 mm<sup>2</sup>~120 mm<sup>2</sup>, unshielded or multi-core configurations.
- (3) Our EV high voltage cables meet all automotive high voltage cable requirements with excellence.
- (4) Good Flexibility, Tough and Easy to Bend/Install, High electrical performance.
- (5) Oil resistance, Cold resistance, Low toxicity, Halogen-free, Flame retardant.

### Applications

Inverter 、 Battery 、 Electric motor 、 Brake pump cables





## Automotive Wire

Model No. : CKW-AVSS

### Construction

**Conductor** : Soft-annealed copper wires in compliance with JIS C 3102.

**Insulation** : Vinyl (PVC) insulated.

In compliance with JASO D 611 and RoHS Directive.

**Color** : Black/ White/ Red/ Green/ Yellow/ Blue/ Gray/ Brown/ Orange/ Sky blue/  
Violet Pink/ Light green/ Dark Brown/ Dark Green

### Technical specification

**Compliance** : JASO D611

**Rating Temperature** : 90°C

Nominal Cross Section	Conductor			Insulation Thickness	Overall Diameter		Most electric capacity values
	No. of Strands	Diameter of Strand	Outer Diameter		Nominal	Maximum	
mm <sup>2</sup>		mm	mm	mm	mm	mm	A
0.3	7	0.26	0.8	0.30	1.4	1.5	9
0.5	7	0.32	1.0	0.30	1.6	1.7	12
0.85	19	0.24	1.2	0.30	1.8	1.9	15
1.25	19	0.29	1.5	0.30	2.1	2.2	21
0.3 f	19	0.16	0.8	0.30	1.4	1.5	8
0.5 f	20	0.18	1.0	0.30	1.6	1.7	11
0.75 f	30	0.18	1.2	0.30	1.8	1.9	14
1.25 f	37	0.21	1.5	0.30	2.1	2.2	19
2 f	37	0.26	1.8	0.40	2.6	2.7	26

**Note** : The 「f」 in the table indicates that the conductor is a soft structur.

### Products Features:

- AVSS wires are still thinner than type AVS wires while ensuring equivalent performance. Light weight and small diameter of type AVSS wires are best for wiring harness.
- Excellent for oil resistance and flame retardant.

### Applications

High heat-resistant and low-voltage wires with thin wall insulation for automobiles, motorcycle and other motor vehicles.

# Certificates

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140327-E354793  
**Report Reference** E354793-20131002  
**Issue Date** 2014-March-27

**Issued to:** CHUGN KWANG ELECRC WIRE & CABLE CO LTD  
33 SUEY TIEN RD  
SAN HO VILLAGE  
WU JIH HSIANG  
TAICHUNG HSIEN 414 TAIWAN

**This is to certify that  
representative samples of**

COMPONENT - ELECTRIC VEHICLE PLUGS,  
RECEPTACLES AND COUPLERS  
See addendum for models.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.



**Standard(s) for Safety:**

UL 2251 Standard for Safety for Plugs, Receptacles and  
Couplers for Electric Vehicles  
CSA C22.2 NO. 282-13, Plugs, Receptacles and Couplers  
for Electric Vehicles

**Additional Information:**

See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada:  and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.



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# Certificates

## CERTIFICATE OF COMPLIANCE

<b>Certificate Number</b>	20140327-E354793
<b>Report Reference</b>	E354793-20131002
<b>Issue Date</b>	2014-March-27

Look for the UL Recognized Component Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

### MODELS:

Vehicle Connector, Cat. No. CKW-18A-300V-C, CKW-25A-300V-C, CKW-32A-600V-C

Vehicle Inlet, Cat. No. CKW-18A-300V-I, CKW-25A-300V-I, CKW-32A-600V-I



William R. Carney, Director, North American Certification Programs  
UL LLC

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# Certificates



**FFVI2.E354793**

## Electric Vehicle Plugs, Receptacles and Couplers - Component

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### Electric Vehicle Plugs, Receptacles and Couplers - Component

[See General Information for Electric Vehicle Plugs, Receptacles and Couplers - Component](#)

#### CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD

E354793

33 SUEY TIEN RD

SAN HO VILLAGE

WU JIH HSIANG, TAICHUNG HSIEN 414 TAIWAN

Vehicle Connector	Rating
Cat. No. CKW-EVJT18A-300V-C	18 A, 300 V, ac (1)
Cat. No. CKW-EVJT25A-300V-C	25 A, 300 V, ac (1)
Cat. No. CKW-EVJT30A-600V-C	30 A, 600 V, ac (1)

Vehicle Inlet	Rating
Type No. CKW-EVJT18A-300V-I	18 A, 300 V, ac (1)
Type No. CKW-EVJT25A-300V-I	25 A, 300 V, ac (1)
Type No. CKW-EVJT30A-600V-I	30 A, 600 V, ac (1)

#### Conditions of Acceptability:

(1) Pilot contacts rated 5 A, 12 V.

The acceptability of this device with a specific end product is dependent upon the use of a control-pilot circuit, communications and control device having sufficient ratings to interrupt the load and/or charging current.

Additional Conditions of Acceptability may be included in the Report available from the manufacturer.

Marking: Company name and part or type number provided on or with each assembly. Electrical ratings optional.

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# Certificates

## CERTIFICATE OF COMPLIANCE

Certificate Number E347242  
Report Reference E347242-20120413  
Issue Date 2020-JUNE-11

Issued to: CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD  
33 Suey Tien Rd  
San Ho Village  
Wu Jih District  
Taichung  
414 TAIWAN

This certificate confirms that  
representative samples of ELECTRIC VEHICLE CABLE  
USL/CNL: Type EVJE.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62 - Flexible Cords and Cables  
CSA-C22.2 No. 49 - Flexible Cords and Cables

Additional Information: See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information.

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# Certificates

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20170908-E347242  
**Report Reference** E347242-20120415  
**Issue Date** 2017-SEPTEMBER-08

**Issued to:** CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD  
33 Suey Tien Rd  
San Ho Village  
Wu Jih Hsiang  
Taichung Hsien 414 TAIWAN

**This is to certify that  
representative samples of** ELECTRIC VEHICLE CABLE  
USL/CNL: Type EVJT.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** Flexible Cords and Cables - UL 62 and CSA C22.2 NO. 49-14

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Certificate Number E347242  
Report Reference E347242-20120414  
Issue Date 2020-JUNE-11

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San Ho Village  
Wu Jih District  
Taichung  
414 TAIWAN

This certificate confirms that  
representative samples of ELECTRIC VEHICLE CABLE  
USL/CNL: Type EVE.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62 - Flexible Cords and Cables  
CSA-C22.2 No. 49 - Flexible Cords and Cables

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# Certificates

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20170908-E347242  
**Report Reference** E347242-20120416  
**Issue Date** 2017-SEPTEMBER-08

**Issued to:** CHUNG KWANG ELECTRIC WIRE & CABLE CO LTD  
33 Suey Tien Rd  
San Ho Village  
Wu Jih Hsiang  
Taichung Hsien 414 TAIWAN

**This is to certify that  
representative samples of** ELECTRIC VEHICLE CABLE  
USL/CNL: Type EVT.

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** Flexible Cords and Cables - UL 62 and CSA C22.2 NO. 49-14

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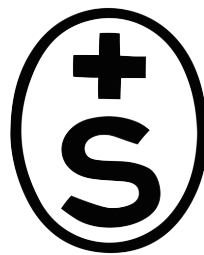


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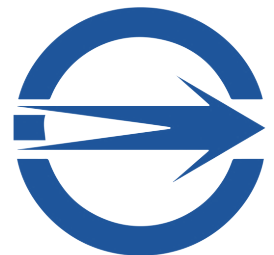
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No. 33, Xuetian Rd., Sanhe Vil., Wuri Dist., Taichung City 41456, Taiwan (R.O.C.)

Tel : +886-4-23375032 Fax : +886-4-23370223 Email : ckw1@ms76.hinet.net



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