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For your convenience, the below describes the related updates:

E535773-vol1-Index
E535773-20240826-CertificateofCompliance
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Certificate of Compliance

Certificate Number:

UL-US-2412667-0

Report Reference:

E535773-20240826

Issue Date:

2024-08-30

Issued to:

Suzhou Yihang Electronic Science and Technology Co., Ltd
North Side Of 5f, Bldg K, Phase II Of Pingqian International
(Suxiang) Ip, No. 45, Chunxing Rd, Caohu St Suzhou, Jiangsu
215000
China

This certificate confirms that representative samples of:

FFVI2 - Electric Vehicle Plugs, Receptacles and Couplers -
Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 2251, 4th Ed., Issue Date: 2017-11-20

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Look for the UL Recognized Component Mark on the product.



David Piecuch
UL Mark Certification Program Manager



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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2412667-0
Report reference E535773-20240826
Date 2024-08-30

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

Model	Product Description
WB-TC-DC1.0-200A	Vehicle Connector
WB-TC-DC1.0-250A	Vehicle Connector
WB-TC-DC1.0-300A	Vehicle Connector
WB-TC-DC1.0-350A	Vehicle Connector



David Piecuch
UL Mark Certification Program Manager

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Certificate of Compliance

Certificate Number:

UL-CA-2410722-0

Report Reference:

E535773-20240826

Issue Date:

2024-08-30

Issued to:

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215000
China

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FFVI8 - Electric Vehicle Plugs, Receptacles and Couplers
Certified for Canada - Component

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Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 NO. 282-17, 2nd Ed., Issue Date: 2017-11-20, Revision Date: 2018-04

Additional Information:

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UL Mark Certification Program Manager



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2410722-0
Report reference E535773-20240826
Date 2024-08-30

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

Model	Product Description
WB-TC-DC1.0-200A	Vehicle Connector
WB-TC-DC1.0-250A	Vehicle Connector
WB-TC-DC1.0-300A	Vehicle Connector
WB-TC-DC1.0-350A	Vehicle Connector



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UL Mark Certification Program Manager

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File E535773
Project 4791130232

August 26, 2024

REPORT

On

ELECTRIC VEHICLE PLUGS, RECEPTACLES AND COUPLERS - COMPONENT

SUZHOU YIHANG ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD
Jiangsu, CHINA

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component, Connector for Electric Vehicles, Models WB-TC-DC1.0-200A, WB-TC-DC1.0-250A, WB-TC-DC1.0-300A, WB-TC-DC1.0-350A.

GENERAL

These are North American Charging Standard (NACS) configuration, multi-pole type devices employing ultrasonic welding-type contacts for power circuit, crimp-type contacts for control pilot and communications circuits. They are intended to supply DC power to an electric vehicle for the purpose of charging the vehicle batteries. The mating inlet, intended to be installed on an electric vehicle and connected to the vehicle wiring harness, was not evaluated as part of this investigation.

The vehicle connectors are provided with enclosures rated Type 3S in the mated position and may be used either indoors or outdoors.

RATINGS:

Connector Cat. No.	Rating		Wire Size
	Voltage	Current	
WB-TC-DC1.0-350A	1000 Vdc	350 A	Power - 1/0 AWG (4 provided, 2 wires for each terminal) Ground - 12 AWG (1 provided) Signal - 18 AWG (2 provided) Temperature Sensor - 18 AWG (4 provided)
WB-TC-DC1.0-300A	1000 Vdc	300 A	Power - 1/0 AWG (4 provided, 2 wires for each terminal) Ground - 12 AWG (1 provided) Signal - 18 AWG (2 provided) Temperature Sensor - 18 AWG (4 provided)
WB-TC-DC1.0-250A	1000 Vdc	250 A	Power - 1 AWG (4 provided, 2 wires for each terminal) Ground - 12 AWG (1 provided) Signal - 18 AWG (2 provided) Temperature Sensor - 18 AWG (4 provided)

Cont'd

Connector Cat. No.	Rating		Wire Size
	Voltage	Current	
WB-TC-DC1.0- 200A	1000 Vdc	200 A	Power - 2 AWG (4 provided, 2 wires for each terminal) Ground - 12 AWG (1 provided) Signal - 18 AWG (2 provided) Temperature Sensor - 18 AWG (4 provided)

Pilot contacts are rated 2 A, 30 Vdc.

Environmental Rating: Type 3S (mated to inlets of same rating)

Ambient Temperature Rating: -40°C to +50°C

MODEL DIFFERENCES:

The Cat. No. WB-TC-DC1.0-300A is identical to Cat. No. WB-TC-DC1.0-350A, except for current rating.

The Cat. No. WB-TC-DC1.0-250A and WB-TC-DC1.0-200A are identical to Cat. No. WB-TC-DC1.0-350A, except for current rating and EV cable.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

USR - Products designated USR have been investigated using US requirements as noted in the Test Record.

CNR - Products designated CNR have been investigated using Canada requirements as noted in the Test Record.

Conditions of Acceptability - In order to be judged acceptable as a component of electric vehicle charging equipment, the following conditions should be met.

1. Interruption of Current - This device has not been tested for interrupting the flow of current by connecting or disconnecting the mating connector. If the device will be routinely connected or disconnected under load in the end-use application, tests to evaluate the device's ability to withstand the resulting electrical arc should be considered. The number of make-and-break cycles, the supply voltage and power factor, and the current carried by each pole of the device in the test are to be developed based upon the conditions that will be presenting in the end-use. This device should be used where the power contacts will not interrupt current.
2. Pilot Contacts - These devices have been tested for 110 percent make and break cycles of interrupting a current by connecting and disconnecting the mating connector in accordance with the Electromagnetic test. The devices should be used with equipment employing a control pilot circuit, having a current interrupting rating not less than the vehicle inlet or vehicle connector rating. The control pilot circuit shall function to ensure that the interrupting device opens the power circuit before the power contacts break.
3. Insulating Materials - The insulating materials used in this device has been investigated for their Relative Thermal Index (Electrical and Mechanical with Impact), Flame Rating, Hot Wire Ignition, High Current Arc Resistance to Ignition and Comparative Tracking Index, and comply with the requirements for direct support of live parts in Section 8 of the standard stated in the Test Record, "Polymeric Materials - Use in Electrical Equipment Evaluations." The maximum operating temperature for any connector shall not exceed the rated operating temperature that is based on the Relative Thermal Index of the material. Materials used for the enclosure of a device comply with the requirements for exposure to outdoor weather conditions (ultraviolet light exposure, water exposure and immersion) in Section 10 of the standard stated in the Test Record.

4. Terminations - The wiring terminations of the vehicle connector employ crimp-type and ultrasonic welding-type terminations that have been subjected to the Conductor Secureness and Pullout tests.
5. Configuration and Mating - These devices employ polarized contact slots but the terminals are not identified.
6. Outdoor Use - The connector and mating inlet have been evaluated for an enclosure rating of Type 3S in accordance with Section 54 of the standard stated in the Test Record.

7. This device has been conducted Short Circuit Test under following conditions. Final acceptance shall be judged in end-product evaluation by considering expected fault current.

Connector Cat. No.	Test Circuit	Protective Fuse
WB-TC-DC1.0-350A (350A)	1000 Vdc, 5 kA	450 A

8. Compliance to National Electrical Code for Cable length of EV cable should be evaluated at the end use application.
9. These devices are intended to be used in applications where the circuitry on the vehicle is isolated from the supply circuit and isolation monitors are in place to detect a loss of isolation. The Functional Ground conductor is used as a monitoring circuit and not as a grounding circuit. These devices are only intended to be used with electric vehicle charging equipment that provide isolation and isolation monitors.
10. The temperature sensors have not been evaluated with these devices. There is no reliable insulation between DC contact and temperature sensor. Temperature sensor circuit is considered to be same as DC power (1000 Vdc) circuit. Sensor circuit shall be isolated from other control circuit in end product. Final acceptance of the suitability should be considered in the end-use application.
11. These devices were provided with specific cables - R/C (FFS02/8), type EVC5199, type FE EVC 1007, type EVC5198, FE EVC 1003, FE EVC 1008. The insulation and jacket thickness are thinner than required. Final acceptance of the suitability should be considered in the end-use application.

CONSTRUCTION DETAILS:

Spacings - Minimum clearances of 5.5 mm provided through air between live parts of opposite polarity and between live metal parts and exposed dead metal parts and a minimum spacing (creepages) of 14.0 mm provided over surface between live parts of opposite polarity and between live metal parts and exposed dead metal parts for devices rated 1000 V or less. Per Section 12 of the standard stated in the Test Record, Overvoltage Category II, Pollution Degree 3, Material Group II.

Marking - The device shall be legibly marked, where visible after installation, laser printed on the device.

- a) Recognized Company name, trade name, trademark, or other descriptive marking by which the organization responsible for the product may be identified.
- b) The catalog number.
- c) The electrical rating in both volts and amperes.
- d) "DC" or "DC Only".
- e) A device enclosure type designation, "Type 3S".
- f) UL/cUL recognition mark.
- g) Ambient temperature rating.

The following shall be provided on the device or on the smallest unit container or carton or on a stuffer sheet in the smallest unit container or carton:

- a) "CAUTION - Risk of Electric Shock, Do Not Disconnect Under Load", or "CAUTION - Not for current interrupting", or "CAUTION - For disconnecting use only", or an equivalent statement following the word "CAUTION".

When the product is intended for use in Canada, cautionary markings shall be provided in both English and French.

Refer to the following photos and descriptive indices for construction details.

Index to Figures:

FIG. No.	Description
1 thru 6	External View
7 thru 9	Internal View (without potting)
10	Potting area
11	RF Printed Wiring Board

Index to Illustrations:

ILL. No.	Description
1	Overall View
2	Body
3	Plug
4	Plug Seal
5	Plug Screw O-Ring
6	Top Cover
7	Terminal Holder
8	Label
9	DC Contact Terminal
10	PE Contact Terminal
11	CP/PP Contact Terminal
12	Welding/Crimp Tool and Die information
13	Power Contact Guidepost
14	O-Ring for DC Contact
14A	O-Ring for PE Contact
14B	O-Ring for CP/PP Contact
15	Printed Wiring Board Layout
16	PWB Seal
17	PWB O-ring
18	Rear Cover
19	Metal Gasket
20	Cable Seal
21	Retaining Ring
22,22A	Cable Clamp
23	Bushing
24	Internal Wire Connection

CONNECTOR, Cat. No. WB-TC-DC1.0-350A - FIGS. 1 thru 9, ILL. 1

General - FIGS. 1 thru 9 and ILL. 1 depict the overall view of Cat. No. WB-TC-DC1.0-350A. The general design, shape and arrangement shall be as illustrated. Also represents Cat. No. WB-TC-DC1.0-300A, WB-TC-DC1.0-250A, WB-TC-DC1.0-200A unless otherwise specified.

1. Body - R/C (QMFZ2/8), SABIC JAPAN L L C (E207780), PC, Type EXL9330(X)(f1)(GG)(B1)(IP), all colors except natural, f1, rated V-0, HWI=2, HAI=1, CTI=3, 115°C, minimum 3.5 mm thick. See ILL. 2 for overall dimensions.
2. Plug - R/C (QMFZ2/8), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), PA66, Type A 60G1 V25(f1), black, rated V-0, HWI=0, HAI=0, CTI=0, IPT=1.0kV, 115°C, minimum 3.0 mm thick. Secured to Body by two ST3.5*45 stainless steel screws. See ILL. 3 for overall dimensions.
3. Plug Seal - R/C (QMFZ2/8), SHIN-ETSU SILICONE INTERNATIONAL TRADING (SHANGHAI) CO LTD (E360537), SIR, Type CHN-6(Y)00@(f1), BK color, 150°C. See ILL. 4 for overall dimensions.
4. Plug Screw O-Ring - R/C (QMFZ2), WYNCA TINYO SILICONE CO LTD (E207571), SIR, Type TY2961S9, Black Color, V-0, 150°C. Fit through ST3.5*45 screw which used secure plug and body. One provided for each screw. See ILL. 5 for overall dimensions.
5. Potting - R/C(QMFZ2), GUANGZHOU BAIZHUANG COMPOSITE MATERIAL CO LTD(E352175), Type 6807-1A/B, black color, V-0, HAI=0, HWI=0, CTI=0, 130°C. Minimum 1.5mm thick. Potting distance is about 30mm from welding terminals. See Fig. 10 for detailed potting area.
6. Top Cover - R/C (QMFZ2/8), SABIC JAPAN L L C (E207780), PC, Type EXL9330(X)(f1)(GG)(B1)(IP), all colors except natural, f1, rated V-0, HWI=2, HAI=1, CTI=3, 110°C, minimum 2.0 mm thick. Secured to Body by two ST2.9*10 stainless steel screws. See ILL. 6 for overall dimensions.
7. Terminal Holder - R/C (QMFZ2/8), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), PA66, Type A 60G1 V25(f1), black, rated V-0, HWI=0, HAI=0, CTI=0, IPT=1.0kV, 115°C, minimum 1.6 mm thick. Secured to Body by two ST3.5*15 stainless steel screws. See ILL. 7 for overall dimensions.
8. Label(Decorate) - R/C (QMFZ2/8), PET, minimum 0.5 mm thick. Secured on Body by adhesive. See ILL. 8 for overall dimensions.
9. Temperature Sensors - Two provided, attached to heat shrinkable tube on each insulated power conductor, then wrapped with heat shrinkable tube. Manufactured by Shenzhen TOPOS Sensor Technology Co., Ltd, Type TPSBP-PT1000B-L205, -40°C~+200°C, wire size 24 AWG.

10. Contact Terminals - Welding type for DC contacts and crimp type for PE/CP/PP contacts. Nickel and silver plated copper alloy, connection area wrapped with heat shrinkable tube, then fitted into Terminal Holder. See ILLs. 9 thru 11 for different dimensions and ILL. 12 for Welding/Crimp Tool and Die information.

Cat. No.	Contact Terminals	Number of Terminal	Wire Size	ILL. No.
WB-TC-DC1.0-200A	DC	2	2 AWG * 4	9
	PE	1	12 AWG+20AWG	10
	CP	1	18 AWG	11
	PP	1	18 AWG	11
WB-TC-DC1.0-250A	DC	2	1 AWG * 4	9
	PE	1	12 AWG+20AWG	10
	CP	1	18 AWG	11
	PP	1	18 AWG	11
WB-TC-DC1.0-300A, WB-TC-DC1.0-350A	DC	2	1/0 AWG * 4	9
	PE	1	12 AWG+20AWG	10
	CP	1	18 AWG	11
	PP	1	18 AWG	11

11. Power Contact Guideposts - Stainless steel. Secured to each power contact by screw thread. Provided with Guidepost Insulating Cap. See ILL. 13 for overall dimensions.

Guidepost Insulating Cap - R/C (QMFZ2/8), GINAR TECHNOLOGY CO LTD (E154352), PA6, Type A1520NH(+)(f1), black, rated V-0, HWI=2, HAI=0, CTI=1, IPT=1.0kV, 105°C, minimum 2.5 mm thick. Molded to each Power Contact Guidepost.

12. Contact O-Rings - R/C (QMFZ2), WYNCA TINYO SILICONE CO LTD (E207571), SIR, Type TY2961S9, Black Color, V-0, 150°C. Two provided for each contact terminal. See ILL. 14 (for DC), 14A (for PE) and 14B (for CP/PP) for overall dimensions.

13. EV Cable - R/C (FFS02/8), rated 1000 V, 105°C. Connected to Terminals by ultrasonic welding or crimping.

Cat. No.	Type	Power Conductor	Ground Conductor	Signal Conductor	Nominal Cable Diameter
WB-TC-DC1.0-200A	EVC5199 (E343212)	2 AWG x 4	12 AWG x 1	18 AWG x 6	30.5mm
	FE EVC 1007 (E531337)	2 AWG x 4	12 AWG x 1	18 AWG x 6	30.6mm
WB-TC-DC1.0-250A	FE EVC 1008 (E531337)	1 AWG x 4	12 AWG x 1	18 AWG x 6	33.1mm
WB-TC-DC1.0-350A, WB-TC-DC1.0-300A	EVC5198 (E343212)	1/0 AWG x 4	12 AWG x 1	18 AWG x 6	36.5mm
	FE EVC 1003 (E531337)	1/0 AWG x 4	12 AWG x 1	18 AWG x 6	36.5mm

14. RF Printed Wiring Board (PWB) - R/C (ZPMV2/8), rated V-0, 130°C. Overall 35mm by 23mm by 1.6 mm thick. Located in low-voltage circuit. See FIG. 11 for details and ILL. 15 for PWB Layout.
15. PWB Seal - R/C (QMFZ2/8), SHIN-ETSU SILICONE INTERNATIONAL TRADING (SHANGHAI) CO LTD (E360537), SIR, Type CHN-6(Y)00@(f1), BK color, HB, 150°C. See ILL. 16 for overall dimensions.
16. PWB O-ring - R/C (QMFZ2), WYNCA TINYO SILICONE CO LTD (E207571), SIR, Type TY2961S9, Black Color, V-0, 150°C. Fit through ST2.9*10 screw which used secure top cover and PWB to body. See ILL. 17 for overall dimensions.
17. Rear Cover - R/C (QMFZ2/8), SABIC JAPAN L L C (E207780), PC, Type EXL9330(X)(f1)(GG)(B1)(IP), all colors except natural, f1, rated V-0, HWI=2, HAI=1, CTI=3, 110°C, minimum 1.9 mm thick. Secured with handle by two ST2.9*10 stainless steel screws. See ILL. 18 for overall dimensions.
18. Metal Gasket - Stainless steel, SUS304. See ILL. 19 for overall dimensions.
19. Cable Seal - R/C (QMFZ2/8), SHIN-ETSU SILICONE INTERNATIONAL TRADING (SHANGHAI) CO LTD (E360537), SIR, Type CHN-6(Y)00@(f1), Black color, HB, 150°C. See ILL. 20 for overall dimensions.
20. Cable Fixed Ring - Aluminum, ADC12. See ILL. 21 for overall dimensions.
21. Cable Clamp - Aluminum, ADC12. Two provided. Secured with each other with four SUSM4*12 Inner hexagon screws. See ILL. 22 for overall dimensions.

22. Bushing(Decorative) - R/C (QMFZ2/8), TPE, HB, 50°C. See ILL. 23 for overall dimensions.
23. Internal wires - R/C (AVLV2/8), rated Min. 300 V, 105 °C, Horizontal flame. See ILL. 24 for Internal Wire Connection.
24. Heat Shrinkable Tube - R/C (YDPU2/8), two layers provided for each DC contact, rated Min. 600 V, VW-1, 125°C.

TEST RECORD NO. 1

SAMPLES:

Samples of Vehicle Connector, Models WB-TC-DC1.0-200A, WB-TC-DC1.0-250A, WB-TC-DC1.0-300A, WB-TC-DC1.0-350A were submitted by the manufacturer.

GENERAL:

Test results relate only to the items tested.

The following tests conducted in accordance with UL 2251 were considered representative of the same tests required by Canadian Standard, CAN/CSA C22.2 No. 282:

Test Item	Standard/Section	DS No.	Test Location
Mold Stress Relief Test	UL 2251, Sec. 26	DS1	UL-SUZ
Moisture Absorption Resistance	UL 2251, Sec. 27	DS1	UL-SUZ
Humidity Conditioning	UL 2251, Sec. 28	DS1	UL-SUZ
Insulation Resistance Test	UL 2251, Sec. 29	DS1	UL-SUZ
Dielectric Withstand Test	UL 2251, Sec. 30	DS1	UL-SUZ
Dew Point Test	UL 2251, Sec. 31	DS1	UL-SUZ
Conductor Secureness and Pullout Test	UL 2251, Sec. 32	DS1	UL-SUZ
Cable Secureness Test	UL 2251, Sec. 33	DS1	UL-SUZ
Impact Test (Plugs, Vehicle Connectors And Breakaway Couplings)	UL 2251, Sec. 34	DS1	UL-SUZ
Crush Test	UL 2251, Sec. 35	DS1	UL-SUZ
Vehicle Driveover Test	UL 2251, Sec. 36	DS2	UL-CHZ
Withdrawal Force Test	UL 2251, Sec. 37	DS1	UL-SUZ
Short Circuit Test	UL 2251, Sec. 39	DS3	EETI
No Load Endurance Test	UL 2251, Sec. 41	DS1	UL-SUZ
Electromagnetic Test (Pilot Contacts)	UL 2251, Sec. 44	DS1	UL-SUZ
Temperature Rise And Surface Temperature Test	UL 2251, Sec. 45 and 47	DS1	UL-SUZ
Accelerated Aging Gasket Tests - E360537, SIR, Type CHN-6(Y)00@(f1), black color - E207571, SIR, Type TY2961S9, black color	UL 2251, Sec. 52	DS1	UL-SUZ

Cont'd

Test Item	Standard/Section	DS No.	Test Location
Enclosure Tests for Environmental Protection (3S) - External Icing Test	UL 2251, Sec. 54 UL 50E, Sec. 8.5	DS5	UL-ISE
Enclosure Tests for Environmental Protection (3S) - DUST TEST OUTDOOR METHOD HOSE METHOD	UL 2251, Sec. 54 UL 50E, Sec. 8.6	DS4	UL-SUZ

Unless otherwise noted, all tests were conducted with the sample connected to a 1000 Vdc source of supply.

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UL-CHZ - UL Changzhou Quality Technology Services Co., Ltd, addressed 21 Longmen Rd, National High-Tech Industrial Development District, Wujin, Changzhou, Jiangsu, China.

UL-ISE - UL Japan Inc., addressed 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021, Japan.

EETI - Suzhou Electrical Apparatus Science Research Institute Co., Ltd, No.5 Qianzhu Road, Yuexi, Wuzhong District, Suzhou 215104, China, under WTDP program.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 2251	Plugs, Receptacles, and Couplers for Electric Vehicles	Fourth Edition	November 20, 2017
CSA C22.2 No. 282-17	Plugs, Receptacles, and Couplers for Electric Vehicles	Second Edition	April 2018

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