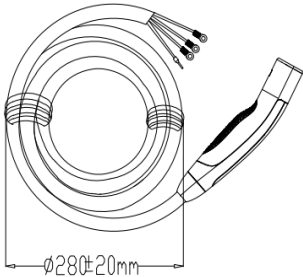


## NACS EV Connector Specification Manual

NACS American standard EV Connector; it can be used as a Tesla charging station to charge new energy electrical vehicles in transit and at their destination.

### 1、Product diagram

| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Name                                             | Product images                                                                      | Nameplate labels(Example)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZAT-U080A001、ZAT-U080B001、<br>ZAT-U080C001、ZAT-U080D001、<br>ZAT-U080E001、ZAT-U080F001、<br>ZAT-U060A001、ZAT-U060B001、<br>ZAT-U060C001、ZAT-U060D001、<br>ZAT-U060E001、ZAT-U060F001、<br>ZAT-U050A001、ZAT-U050B001、<br>ZAT-U050C001、ZAT-U050D001、<br>ZAT-U050E001、ZAT-U050F001、<br>ZAT-U040A001、ZAT-U040B001、<br>ZAT-U040C001、ZAT-U040D001、<br>ZAT-U040E001、ZAT-U040F001、<br>ZAT-U032A001、ZAT-U032B001、<br>ZAT-U032C001、ZAT-U032D001、<br>ZAT-U032E001、ZAT-U032F001、<br>ZAT-U016A001、ZAT-U016B001、<br>ZAT-U016C001、ZAT-U016D001、<br>ZAT-U016E001、ZAT-U016F001; | Functional NACS EV Connector Cable (Vehicle end) |  | <p> <b>Zopoise EV Connector</b><br/>           Model:ZAT-U080A001<br/>           Rated:240V AC/80A<br/>           Temperature:-40~122°F<br/>           Enclosures rating:Type 4;Mated :Type 3S         </p> <p> <small>           FCC ID:2A8TQ-ZPSKG<br/>           IC:31794-ZPSKG<br/>           NIM:ZAT-01<br/>           Conforms to<br/>           UL Std. 2251<br/>           Certified to CSA<br/>           Std. C22.2#282         </small> </p> <p> <small>RECOGNIZED COMPONENT</small><br/> <br/> <small>Intertek 5021239</small> </p> <p>           Caution – Do not use this product if there is any damage to the EV cable or the EV connector.<br/>           Attention – Ne pas utiliser ce produit si le câble VÉ ou le connecteur est endommagé.         </p> |
| ZAS-U080A001、ZAS-U080B001、<br>ZAS-U080C001、ZAS-U080D001、<br>ZAS-U080E001、ZAS-U080F001、<br>ZAS-U060A001、ZAS-U060B001、<br>ZAS-U060C001、ZAS-U060D001、<br>ZAS-U060E001、ZAS-U060F001、<br>ZAS-U050A001、ZAS-U050B001、<br>ZAS-U050C001、ZAS-U050D001、<br>ZAS-U050E001、ZAS-U050F001、<br>ZAS-U040A001、ZAS-U040B001、<br>ZAS-U040C001、ZAS-U040D001、<br>ZAS-U040E001、ZAS-U040F001、<br>ZAS-U032A001、ZAS-U032B001、<br>ZAS-U032C001、ZAS-U032D001、<br>ZAS-U032E001、ZAS-U032F001、<br>ZAS-U016A001、ZAS-U016B001、<br>ZAS-U016C001、ZAS-U016D001、<br>ZAS-U016E001、ZAS-U016F001; | Regular NACS EV Connector Cable (Vehicle end)    |                                                                                     | <p> <b>Zopoise EV Connector</b><br/>           Model:ZAS-U080A001<br/>           Rated:240V AC/80A<br/>           Temperature:-40~122°F<br/>           Enclosures rating:Type 4;Mated :Type 3S         </p> <p> <small>           Conforms to<br/>           UL Std. 2251<br/>           Certified to CSA<br/>           Std. C22.2#282         </small> </p> <p> <small>RECOGNIZED COMPONENT</small><br/> <br/> <small>Intertek 5021239</small> </p> <p>           Caution – Do not use this product if there is any damage to the EV cable or the EV connector.<br/>           Attention – Ne pas utiliser ce produit si le câble VÉ ou le connecteur est endommagé.         </p>                                                                                         |

### 2、Product application

Widely used in NACS American standard charging stations to charge new energy electrical vehicles in transit and at their destination.

### 3、Materials and surface treatment

| Material              | specifications | Surface treatment | Flame retardant level |
|-----------------------|----------------|-------------------|-----------------------|
| Main line terminal    | copper alloy   | Silver plating    |                       |
| Signal line terminals | copper alloy   | Silver plating    |                       |
| Plastic shell         | PC             | Black             | UL94-V0               |

### 4、Product performance

| Electrical performance | Features                |
|------------------------|-------------------------|
| Rated voltage          | AC 120V~240V            |
| Rated current          | 16A/32A/40A/50A/60A/80A |

|                                  |                          |
|----------------------------------|--------------------------|
| Voltage withstand                | AC 2000V                 |
| Contact resistance               | $\leq 0.5\text{m}\Omega$ |
| Insulation resistance            | $\geq 100\text{M}\Omega$ |
| Temperature rise                 | $\leq 50\text{K}$        |
| <b>Mechanical performance</b>    | <b>Features</b>          |
| Insertion force                  | $\leq 100\text{N}$       |
| Pull-out force                   | $\leq 100\text{N}$       |
| Reliability                      | 10000 times              |
| <b>Environmental performance</b> | <b>Features</b>          |
| Operating temperature            | - 40℃~50℃                |
| Using humidity                   | 0~95%RH                  |
| Protection level                 | TYPE4                    |

## 5、Wiring specifications

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| 16A (ZAT-U016F001/ZAS-U016F001) | 3*14AWG+4*22AWG/3*14AWG+1*22AWG               |
| 32A (ZAT-U032F001/ZAS-U032F001) | 3*10AWG+4*22AWG/3*10AWG+1*22AWG               |
| 40A (ZAT-U040F001/ZAS-U040F001) | 2*9AWG+1*10AWG+4*22AWG/2*9AWG+1*10AWG+1*22AWG |
| 50A (ZAT-U050F001/ZAS-U050F001) | 2*8AWG+1*10AWG+4*22AWG/2*8AWG+1*10AWG+1*22AWG |
| 60A (ZAT-U060F001/ZAS-U060F001) | 2*6AWG+1*8AWG+4*22AWG/2*6AWG+1*8AWG+1*22AWG   |
| 80A (ZAT-U080F001/ZAS-U080F001) | 2*6AWG+1*8AWG+4*22AWG/2*6AWG+1*8AWG+1*22AWG   |

## 6、Safety regulations and environmental protection

|                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> UL <input type="checkbox"/> CE <input checked="" type="checkbox"/> FCC ID <input checked="" type="checkbox"/> IC ID <input checked="" type="checkbox"/> ETL/CETL |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 7、Certification standards

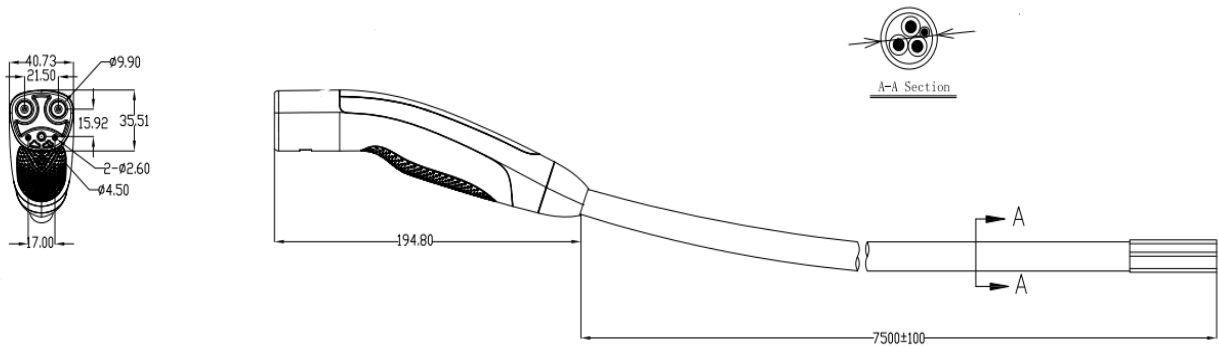
| Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Certification category    | Certification file number | Execution standards                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------------------------------------------------|
| ZAT-U080A001、ZAT-U080B001、<br>ZAT-U080C001、ZAT-U080D001、<br>ZAT-U080E001、ZAT-U080F001、<br>ZAT-U060A001、ZAT-U060B001、<br>ZAT-U060C001、ZAT-U060D001、<br>ZAT-U060E001、ZAT-U060F001、<br>ZAT-U050A001、ZAT-U050B001、<br>ZAT-U050C001、ZAT-U050D001、<br>ZAT-U050E001、ZAT-U050F001、<br>ZAT-U040A001、ZAT-U040B001、<br>ZAT-U040C001、ZAT-U040D001、<br>ZAT-U040E001、ZAT-U040F001、<br>ZAT-U032A001、ZAT-U032B001、<br>ZAT-U032C001、ZAT-U032D001、<br>ZAT-U032E001、ZAT-U032F001、<br>ZAT-U016A001、ZAT-U016B001、<br>ZAT-U016C001、ZAT-U016D001、<br>ZAT-U016E001、ZAT-U016F001； | ETL/CETL<br>FCC ID /IC ID | 5021239                   | UL2251<br>47 CFR FCC part 15, Subpart C<br>RSS-210, RSS-102, RSS-GEN |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |         |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|--------|
| ZAS-U080A001、ZAS-U080B001、<br>ZAS-U080C001、ZAS-U080D001、<br>ZAS-U080E001、ZAS-U080F001、<br>ZAS-U060A001、ZAS-U060B001、<br>ZAS-U060C001、ZAS-U060D001、<br>ZAS-U060E001、ZAS-U060F001、<br>ZAS-U050A001、ZAS-U050B001、<br>ZAS-U050C001、ZAS-U050D001、<br>ZAS-U050E001、ZAS-U050F001、<br>ZAS-U040A001、ZAS-U040B001、<br>ZAS-U040C001、ZAS-U040D001、<br>ZAS-U040E001、ZAS-U040F001、<br>ZAS-U032A001、ZAS-U032B001、<br>ZAS-U032C001、ZAS-U032D001、<br>ZAS-U032E001、ZAS-U032F001、<br>ZAS-U016A001、ZAS-U016B001、<br>ZAS-U016C001、ZAS-U016D001、<br>ZAS-U016E001、ZAS-U016F001； | ETL/CETL | 5021239 | UL2251 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|--------|

8、Packaging, storage, and maintenance instructions

The product should be stored in a warehouse with a temperature range of -40 ℃~105 ℃, a relative humidity not exceeding 80%, and no acid, alkali, or other corrosive gases; before connecting the plug and socket, making sure there is no condensation or dirt before connecting.

9、External dimensions



FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules.  
Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning:** Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

**FCC Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

**IC Statement**

This device complies with Canada Industry licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference; and

(2) this device must accept any interference. Including interference that may cause undesired operation of the device.

**Avis d'Industrie Canada**

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1) l'appareil ne doit pas produire de brouillage; et

2) l'utilisateur de l'appareil doit accepter le brouillage radio électrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement. mauvais fonctionnement de l'appareil.

**Radiation Exposure Statement:**

This product complies with the IC RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual.

**Déclaration d'exposition aux radiations:**

Ce produit est conforme à la limite d'exposition IC RF définie pour un environnement non contrôlé et est sûr pour le fonctionnement prévu comme décrit dans ce manuel.