

tomons EV1001-BK

tomons Type 2 EV Charging Cable (Model EV1001-BK) User Manual

22KW 32A Three-Phase 5M Electric Vehicle Charging Cable

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your tomons Type 2 EV Charging Cable. Please read it thoroughly before use and retain it for future reference. This high-performance cable is designed for fast charging, delivering up to 22 KW of power, and is compatible with a wide range of electric vehicles and charging stations.

Key features include:

- **Fast Charging:** Up to 22 KW, 32A, three-phase for rapid power delivery.
- **Wide Compatibility:** Compliant with IEC 62196-2 standard, suitable for Type 2 and CCS 2 interfaces.
- **Durable Design:** IP55 waterproof and dustproof, flame-retardant TPU material, and impact-resistant connectors.
- **Safety Certified:** TUV-Mark, CB, CE, RoHS, UKCA, and Reach certified with built-in protections.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, always adhere to the following safety guidelines:

- **Dry Conditions:** Always ensure both ends of the charging cable are completely dry before connecting or disconnecting. Moisture can lead to electrical hazards.
- **Inspection:** Before each use, visually inspect the cable and connectors for any signs of damage, cracks, fraying, or foreign objects. Do not use a damaged cable.
- **Proper Connection:** Ensure the connectors are fully and securely inserted into both the charging station and the vehicle's inlet. A loose connection can cause overheating or arcing.
- **Avoid Over-Stressing:** Do not bend, twist, or pull the cable excessively. Avoid driving over the cable or placing heavy objects on it, although the charging head is designed to withstand up to 2 tons of pressure.
- **Outdoor Use:** The cable has an IP55 rating, making it safe for outdoor charging in various weather conditions (operating temperature range: -30°C to +50°C). However, avoid submerging it in water.
- **Children and Pets:** Keep the charging cable out of reach of children and pets during use and storage.

- **Emergency Disconnect:** In case of an emergency or unusual behavior, immediately stop the charging process via the charging station or vehicle, then safely disconnect the cable.
- **Certifications:** This cable is certified by TUV-Mark, CB, CE, RoHS, UKCA, and Reach, and includes built-in protection against overvoltage, overcurrent, and short circuits for enhanced safety.

3. PACKAGE CONTENTS

The tomons Type 2 EV Charging Cable package includes the following items:

- 1x tomons Type 2 EV Charging Cable (5 meters)
- 1x Double-sided Microfiber Cleaning Cloth
- 1x Portable Storage Bag
- 1x Hook-and-Loop Fastener (for cable management)
- 1x User Manual

Paket enthalten

- 1X Typ-2-Ladekabel
- 1X Doppelseitiges Mikrofaser Tuch
- 1X Tragetasche
- 1X Klettverschluss
- 1X Benutzerhandbuch



Figure 3.1: Package Contents. Includes the 5-meter Type 2 charging cable, a microfiber cloth for cleaning, a storage bag, a cable fastener, and this user manual.

4. SETUP

Before initiating charging, ensure the following:

1. **Compatibility Check:** Verify that your electric vehicle and the charging station are compatible with Type 2 connectors (IEC 62196-2 standard). This cable supports both Type 2 (7 pins) and CCS 2 (7 pins + 2 pins) interfaces.
2. **Cable Uncoiling:** Fully uncoil the charging cable before use to prevent heat buildup and ensure optimal performance.
3. **Environmental Conditions:** Ensure the charging environment is safe and free from hazards. The cable

is designed for use in temperatures ranging from -30°C to +50°C.

4. **Connector Inspection:** Inspect both ends of the cable for any dirt, debris, or damage. Clean if necessary and ensure they are dry.



Figure 4.1: Type 2 and CCS 2 Compatibility. The cable is designed to work with both standard Type 2 and CCS 2 charging inlets.

5. OPERATING INSTRUCTIONS

Follow these steps to charge your electric vehicle:

1. **Connect to Charging Station:** Take one end of the Type 2 connector and firmly insert it into the charging port of the EV charging station. Ensure it clicks into place.
2. **Connect to Vehicle:** Take the other end of the Type 2 connector and firmly insert it into your vehicle's charging inlet. Ensure a secure connection. Many vehicles will lock the cable automatically once connected and the car is locked.

3. **Initiate Charging:** Follow the instructions on your charging station or vehicle's infotainment system to begin the charging process. This may involve swiping a card, using an app, or pressing a button.
4. **Monitor Charging:** Observe the charging indicators on your vehicle's dashboard or the charging station's display to confirm that charging is active and progressing as expected. The cable supports fast charging up to 22 KW.
5. **Disconnect After Charging:** Once your vehicle is fully charged or you wish to stop charging, first terminate the charging process via your vehicle or the charging station. Then, safely disconnect the cable from your vehicle, followed by disconnecting it from the charging station.



Figure 5.1: Charging Process. The cable facilitates high-power charging up to 22 KW.

5m Länge

Erfüllt Ihre Anforderungen in verschiedenen Situationen, genießen Sie eine wunderbare Reise



Figure 5.2: Cable in Use. The 5-meter length provides flexibility for various charging setups.

6. MAINTENANCE

Proper maintenance will extend the lifespan of your charging cable:

- **Cleaning:** After each use, especially if used outdoors, clean the cable and connectors with the provided microfiber cloth to remove any dirt, dust, or moisture. Ensure connectors are dry before storage.
- **Storage:** Store the cable neatly coiled in the included portable storage bag. This protects it from dust, water, and physical damage. Use the hook-and-loop fastener to keep the cable tidy.
- **Protective Caps:** Always place the rubber protective caps over the connector ends when the cable is not in use. This prevents dust and moisture from entering the pins.
- **Avoid Kinks:** Do not bend or kink the cable sharply, as this can damage the internal wiring.

- **Storage Environment:** Store the cable in a dry, cool place, away from direct sunlight, extreme temperatures, and corrosive substances.

Wasserdicht/Kältebeständig /Hitzebeständig

Laden mit hervorragender Leistung auch bei rauen Wetterbedingungen.



Figure 6.1: Weather Resistance. The cable is designed for reliable performance in various weather conditions.

7. TROUBLESHOOTING

If you encounter issues with your charging cable, refer to the following common troubleshooting steps:

- **Charging Not Starting:**
 - Ensure both ends of the cable are securely and fully connected to the charging station and your vehicle.
 - Verify that the charging station is active and authorized for use.
 - Check your vehicle's charging settings and ensure the charging port is clean and free of obstructions.
 - Try disconnecting and reconnecting the cable.

- **Slow Charging:**

- Confirm the charging station is providing the expected power output (e.g., 22 KW, 32A, three-phase).
- Check your vehicle's settings to ensure it is configured for fast charging.
- Ensure the cable is fully uncoiled during charging to prevent resistance and heat buildup.

- **Cable Overheating:**

- Immediately disconnect the cable from both the vehicle and the charging station.
- Ensure the cable was fully uncoiled during charging.
- Inspect the cable and connectors for any visible damage. Do not reuse if damaged.
- Contact customer support if the issue persists after ensuring proper usage.

- **Error Message on Charging Station/Vehicle:**

- Refer to your vehicle's or charging station's user manual for specific error codes and their meanings.
- Disconnect and reconnect the cable.
- If the error persists, contact the charging station provider or tomons customer support.

Resistente a Los Golpes



Soporta un Máximo de 2 Toneladas de Presión

Figure 7.1: Impact Resistance. The robust design helps prevent damage from accidental impacts.

8. SPECIFICATIONS

Brand	tomons
Model Number	EV1001-BK
Connector Type	Type 2 to Type 2 (IEC 62196-2)
Maximum Power	22 KW
Maximum Current	32 A

Phases	Three-Phase
Cable Length	5 meters
Operating Voltage	AC 480V
IP Rating	IP55 (Waterproof and Dustproof)
Operating Temperature	-30°C to +50°C
Cable Material	Durable Flame-Retardant TPU
Impact Resistance	Charging head withstands up to 2 tons of pressure
Certifications	TUV-Mark, CB, CE, RoHS, UKCA, Reach
Compatible Devices	Tesla Model 3/Y/S/X, VW ID.3/ID.4/ID.5/e-Up!, Renault ZOE, BMW i3/iX3/iX14/i7/i8/X1/7ER, Fiat 500e, Audi e-Tron/Q4 e-Tron, Nissan Ariya, Nissan Leaf, Hyundai Kona Electric, Hyundai Ioniq Electric, Kia Niro, Peugeot e-208/e-2008, Opel Corsa-e/Mokka-e, Citroën e-C4, DS 3 Crossback E-Tense, etc.
Item Weight	3.1 Kilograms
Manufacturer	tomons
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information, technical assistance, or any product-related inquiries, please contact tomons customer service or the authorized retailer from whom you purchased the product. Please retain your purchase receipt as proof of purchase for warranty claims.

Contact information can typically be found on the tomons official website or through your retailer's support channels.