CHAdeMO DC Charging Connector (CHV-04)

Instruction Manual



Thank you for purchasing our product.

Please read the entire Manual completely before using the product.

This Operation Manual contains important precautions for preventing accidents and methods for using the product properly. Please read this Manual carefully, to make sure you can use this product properly. After reading the manual, please keep it in a place where you can access anytime and read it when necessary.

This Operation Manual may be subject to changes without any notice.

Be sure to show the operation method on the charger. Breakage due to misoperation of users is not covered by warranty. YAZAKI Corporation Yazaki Parts Co., Ltd.

Issued on June 29, 2016 (Edition 3)

- * This product is dedicated for the CHAdeMO system. Please do not use it for other charging systems.
- Compliance with IEC 62196-3:2014 excluding Clause 25.301

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Names and functions of parts

Product name: CHAdeMO DC charging connector (CHV-04)

(hereinafter referred to as "charging connector")



1 Latch

Hook that fixes (locks) the coupling with the vehicle inlet.

2 LED lamp (Red)

Indicates that the product is energized.

Lit: Being charged (energized). Unlit: At the end of charging, charging is not underway (Not energized).

Note

When the LED lamp is lit in red, do not touch the charging connector.

3 Grip

Portion at which a user grips the charging connector.

④ Screw

Used to fix the case in place.

(11 locations)

⑤ Housing

Portion inserted into the vehicle inlet.

6 Guide (convex)

Projections in the upper part of the housing. The housing can be connected properly by inserting it such that the projections are aligned with the grooves (concaves) in the vehicle inlet.

⑦ Cable

A bundle of wires for running electricity from power supply to a vehicle.



8 Ejector button

Press to eject the connector from the vehicle inlet.

It has three button positions to lock or unlock the housing to or from the vehicle inlet.

For details, refer to "Positions and use of the ejector button" (page 12).

9 Vehicle inlet

It is an insertion port on the side of vehicle

1 Terminal (with resin cap)

Metal part within the housing. Connected with the vehicle inlet to pass electricity.

(1) Terminal

Metal part within the housing. Connected with the vehicle inlet to pass electricity.

Safety precautions

Please make sure to read through the "Safety precautions" before using the product. The "Safety precautions" contains important information for preventing damage to users, other persons and their property and using the charging connector safely.

Indication of symbols

This manual indicates the level of risk or damage that may be caused by mishandling of the product with the following symbols: Please make sure to understand the content and follow the instructions contained herein.

A Warning	Indicates mishandling may result in death or serious injury.	
A Caution	Indicates mishandling may result in injury or damage to property.	
Each precaution has a corresponding symbol of "Caution", "Prohibited" or "Must".		



* If your product malfunctions or is broken and can be no longer used, Contact your distributor.



Failing to observe the following rules may result in death or serious injury due to fire or electric shock.



Do not disassemble, repair or modify.

Doing so may cause fire, electric shock or injury.

Do not use the product at a higher voltage or current than the rating.

Doing so may cause fire or electric shock. Be sure to confirm ratings set forth in the product manual.



Do not damage the cable or do not use the product with a damaged cable.

Damaged cable may have the broken surface, which in turn causes wire breakage, fire or electric shock. In particular, do not use the cable while it is twisted. Doing so repeatedly is likely to damage or break the cable.

• Do not allow the cable to be caught by a vehicle door, vehicle charging station, or outer wall.



• Do not run over the cable with tires or do not put a heavy object on it.



• Do not slam or rub the cable against the ground.



• Do not pull, twist or bend the cable by force.



• Do not approach the cable to a heating apparatus or do not heat it.

Before and after using the charging connector, restore a damaged or twisted cable to the normal state.

To use it safely, refer to the maintenance section (pages 16 to 18) of this document.



When you feel something unusual, stop charging.

Doing so may result in fire or electric shock.

MUST

When you have heard an unusual sound or felt an unusual smell, stop charging immediately. Do not use the product afterward.





When you hear a thunder, stop charging.

Do not touch the charging connector during thunder even if charging is underway. Failing to do so may cause electric shock due to a lightning stoke.



Do not pull out the cable by force during charging.

Doing so may cause fire, electric shock or malfunctioning.





Do not pour water or liquid on the product.

The ingress of water or liquid may cause fire or electric shock. Pouring water on the housing may cause electric shock or a short circuit.





Do not touch the interior of the housing or insert a thin stick.

Doing so may cause electric shock.





Do not put the product near fire.

Doing so may cause fire.





Do not apply an impact during charging.

Doing so may result in fire or electric shock.

When the product is damaged, stop charging immediately. Do not use the product afterward.





Do not step on or run over the product.

Doing so may cause fire, electric shock or injury due to damage.





Do not drop.

Dropping the product or applying a strong impact to the product causes malfunctioning or breakage, which in turn result in fire, electric shock or injury.

Should you drop it into a water pool, do not use it.



Do not step over, put something on or lean against the charging connector.

Doing so may cause deformation or breakage, which may in turn result in fire, electric shock or injury.







Do not swing around or throw the charging connector.

Doing so may break the charging connector, which may in turn result in injury.



Do not put a foreign substance inside the housing.

Doing so may cause fire, electric shock or malfunctioning.

Confirm that the housing contains no foreign substance before use.

Remove the foreign substance in accordance with the maintenance section (pages 16 to 18).





Prohibited

Do not let children use the product alone or do not place it within their reach. Doing so may cause electric shock, injury or burn.



Handle the charging connector carefully since it is heavy.

It may hurt your wrist or back or cause injury. It is recommended to hold it with both hands.



Do not join cables to increase their length.

Doing so may cause electric leakage from a joint, which may in turn result in fire or electric shock. Use the product within the reach of the cable.



Do not drive the vehicle while the charging connector is left inserted. Doing so may cause an accident.

8 Safety precautions



Power off the product during maintenance.

Failing to do so may cause electric shock or injury.



Do not touch the terminal with a wet hand.

Doing so may cause electric shock or injury.





Mishandling the product in disregard of this symbol may cause injury or damage to property.



Use the product in the ambient temperature ranging from -40°C to +60°C.

Using the product at a temperature outside the above range may cause the charging connector to malfunction. A low ambient temperature hardens the cable and makes it difficult to bend. A high ambient temperature increases the surface temperature of the cable. Handle it carefully.



Store the product in the ambient temperature ranging from -40°C to +60°C. Storing it at temperature outside the above range may cause the charging connector to malfunction.



Return the charging connector to the predetermined position after charging. Failing to do so may cause malfunctioning, breakage or an accident. Keep it with caution.

MUST





Exercise caution when touching the charging connector under the scorching sun or in a cold area.

The surface of the charging connector may be very hot or cold, which may cause burn or frozen bite.



* The picture for each item is just an image. Pay attention to actions equivalent to those in the pictures.

How to hold charging connector

Hold the grip with one hand and support the bottom with the other hand such that the Ejector button is positioned on the level.

If you hold the connector with both hands, as shown in the following diagram, the Ejector button is positioned on the level.



Hold it with both hands

Holding it as shown in the diagram facilitates alignment of the guides (convexes) of the charging connector with the grooves (concaves) of the vehicle inlet.

Note

The charging connector is heavy. It may hurt your wrist or back or cause injury. It is recommended to hold it with both hands.

Positions and use of the ejector button

The Ejector button has three positions for use.

Neutral (Central position)

When the connector is not connected with the vehicle inlet, the Ejector button is at the central position.



When connected properly (Protrudes most toward you)

When the connector is properly connected to the vehicle inlet, the button automatically protrudes toward you. Charging can be started in this state.



The surface of the button flushes with the surface of the body.

When removing the connector (Press the button into the inside)

To remove the connector from the vehicle inlet, press the button into the inside. Pressing the button into the inside unlocks the connector from the vehicle inlet, allowing you to remove it.



Press the button into the inside

Connecting charging connector

Note

Park your vehicle at a position closer to a charging connector or a charging station such that the cable is not tensioned.

1. Confirm that the housing and the vehicle inlet contain no foreign substance.

If either of them contains a foreign substance, remove it in accordance with the maintenance section (pages 16 to 18).

2. <u>Hold the charging connector with hands, align the guides (convexes) with the grooves (concaves) in the vehicle inlet and insert the connector straight.</u>

Confirm that the button is at the neutral position. When the Ejector button most protrudes toward you, press the button until it returns to the neutral position. Insert the housing until it stops.

Note

Do not press the Ejector button when inserting the connector. Do not insert the connector while the button is pressed. Doing so prevents proper connection.



When the connector is connected properly, the Ejector button protrudes toward you, allowing you to charge the vehicle.



Memo

When you cannot insert the charging connector properly, press the Ejector button to pull it out. Confirm that the button is returned to the neutral position and then insert the charging connector again.

Note

Do not press the Ejector button while the housing is connected properly.

3. <u>Press the Start button on the vehicle charging</u> station.

When charging starts, the LED lamp of the charging connector lights up in red.

Note

Be sure to confirm that the vehicle charging station indicates that the charging is underway.

Removing the charging connector

When charging is completed, remove the charging connector.

1. Confirm that the LED lamp of the charging connector is unlit.

When charging stops, the lamp goes out.

2. <u>Press the Ejector button into the inside and then pull out the connector</u> <u>straight.</u>



3. Confirm that the Ejector button is returned to the neutral position.

4. <u>Return the charging connector to the predetermined position.</u>

Be sure to return to the predetermined position carefully.

Note

- Exercise caution not to drop the charging connector.
- Do not twist the charging cable when returning the connector to the vehicle charging station.

Lit in red during charging.

Unlit



When stopping charging in the middle

You cannot remove the charging connector from the vehicle inlet during charging. Be sure to stop charging as shown below before removing the connector.

Note

Do not pull it out by force. Doing so may damage the vehicle connector or the charging connector.

1. Stop charging and confirm that the LED lamp of the charging connector is unlit.

Memo Confirm that vehicle charging station also indicates that charging stops.



2. <u>Press the Ejector button into the inside and then pull out the connector</u> <u>straight.</u>



3. Confirm that the Ejector button is returned to the neutral position.

4. <u>Return the charging connector to the predetermined position.</u>

Be sure to return to the predetermined position carefully.

Note

- Exercise caution not to drop the charging connector.
- Do not twist the charging cable when returning the connector to the vehicle charging station.

Maintenance

To use the product safely, be sure to perform daily check, maintenance and regular checks. If the product is in an unusual state, stop using it immediately and take appropriate measures.

Be sure to observe the following rules

- Power off the vehicle charging station before starting maintenance. Take measures to prevent power-on during maintenance.
- Place the charging connector in a stable place before inspection. Failing to do so may drop the product, which may cause injury.
- Do not touch the terminals.
- Do not pour water on the charging connector. Doing so may cause electric shock.
- Do not directly spray detergent to the product. Once detergent enters the inside of the charging connector, it is attached to internal electronic parts and cause corrosion, which in turn results in malfunctioning or breakdown. Be sure to soak a cloth with detergent.
- Do not use gasoline, benzine, thinner, polishing powder, detergent, wire wool, metal brushes, scrubber, or polishing sponge. They may degrade the surface of the charging connector to cause peeling-off, discoloration or breakage of resin parts. They may degrade the surface of the cable and thus damage the cable.

Daily inspection and maintenance

Perform daily inspection and clean the product each time it becomes dirty. In particular, always keep the portions that come into contact with a hand, such as the grip and the Ejector button, clean.

Recommended frequency for inspection: Each time the product is used.

No.	Inspected portion	Inspection item	Measures
1	Charging connector	Isn't an unusual sound heard when shaking the charging connector?	 When an unusual sound is heard, contact your distributor.
	(Inspection other than visual)	Isn't an unusual smell felt from the charging connector?	 When an unusual smell is felt, contact your distributor.
2 Surface of the charging connector Don't a portion that comes into contact with a hand, such as the grip and Ejector button, have dirt?		Don't a portion that comes into contact with a hand, such as the grip and Ejector button, have dirt?	• Soak a soft cloth with water, squeeze the cloth well to remove water and wipe off dirt from the surface of the charging connector.
	(Portions that can be visually inspected)	Doesn't it have deformation, cracking or breakage that can be visually inspected?	 If the housing has deformation, cracking or breakage, replace it. If portions other than the housing has deformation, cracking or breakage, contact your distributor.
3	3 Around or inside the housing (Other than terminals) Doesn't it have water drops or foreign substances attached?		 Blow off water drops or foreign substances with an air duster or blower commercially available. Cleaning the interior of the opening with a brush or cloth may damage terminals. Do not clean it by the method other than the above. If they cannot be removed by the above method, contact your distributor.

No.	Inspected portion	Inspection item	Measures
4 Terminal		Doesn't it have water drops, dust or foreign substances attached?	 Blow off water drops, dust or foreign substances with an air duster or blower commercially available. If they cannot be removed by the above method, contact your distributor.
		Doesn't the seal of the housing or each terminal and the resin around the terminals, as shown in the diagram ①, have deformation or damage that can be visually inspected? (See the following diagram ①)	 If it has unusual conditions, contact your distributor.
		Doesn't the resin cap of the power terminals come off? (See the following diagram ①)	 If it is damaged or lost, contact your distributor.
5	(Two) cross- shaped walls in the signal terminal section (See the following diagram ①)	Don't they have deformation, cracking or breakage that can be visually inspected?	 If it has unusual conditions, contact your distributor.
6	Ejector button	Doesn't it have deformation, cracking or breakage that can be visually inspected?	 If it has unusual conditions, contact your distributor.
		Does the latch work in conjunction when the Ejector button is pressed? Does the latch return to the original position when the button is released?	
7	Latch	Doesn't it have deformation, cracking or wearing that can be visually inspected?	 If it has unusual conditions, contact your distributor.
		Is the latch lowered when pressed with hand? Does the latch return to the original position when the button is released? (See the following diagram ②)	
8	Screw	Aren't some screws loosened or missing?	 If some screws are loosened or lost, contact your distributor.
9	Cable	Doesn't it have wearing or cracking on the surface?	 If it has unusual conditions, contact your distributor.
		Doesn't it have looseness at the connection with the charging connector?	 Postify the twisted achies
i		ISH LINE CADIE TWISTED?	 Rectify the twisted cable.





Diagram (2)



Regular checks

Recommended frequency for regular checks: Once a year

No.	D. Inspected Inspection item Measures Measures		Measures
1	Terminal	Doesn't the lowering of a moving plate peel off terminal coating to expose the base metal? (Exercise caution not to damage terminals when lowing a moving plate) Thin terminal: Isn't the base metal exposed on the surface of a terminal? Doesn't it warp or deform?	 If the base metal is exposed, contact your distributor.
2	Moving plate (See the following	Don't they have deformation, cracking or breakage that can be visually inspected?	If it has unusual conditions, contact your distributor.
	diagram (3)	Does a plate move smoothly when pressed? (The plate must not come into contact with the terminal)	
3	LED lamp	Does it light up during charging?	If it does not, contact your distributor.
4	Insertion/pulling- out	Is insertion into or pulling out from the vehicle inlet smooth?	 If it has unusual conditions, contact your distributor.



When you have a problem

Be sure to check the following items before making an inquiry. If your problem still persists, contact your distributor.

Cannot charge

Symptom	Possible causes	Measures
Cannot charge the vehicle.	The charging connector is not inserted into the vehicle inlet properly.	 Press the Ejector button to pull out the charging connector and then re-insert it. Confirm that the Ejector button is at the rearmost position. If the button is at the neutral position or remains pressed inside, press the Ejector button to pull out the charging connector and then re-insert it.
	The charging connector, vehicle inlet, or vehicle charging station malfunction.	Contact your distributor.
The Ejector button does not protrude from the rear of the body.	Foreign substances are in the gap between the Ejector button and the body of the charging connector.	 Blow them off with an air duster or blower commercially available. If it cannot be removed by the above method, contact your distributor.
	The Ejector button is frozen.	 Remove the ice. If it cannot be removed by the above method, contact your distributor.
	The Ejector button malfunction.	Contact your distributor.
Although the vehicle charging station indicates "charging is underway", the LED lamp of the charging connector is not lit.	The charging connector malfunction.	• LED may malfunction. Contact your distributor.
Charging stops in the middle.	The charging connector, vehicle inlet, or vehicle charging station malfunction.	Contact your distributor.

Cannot pull out

Symptom	Possible causes	Measures
Cannot pull out the charging connector from the vehicle inlet.	 Charging is underway. The LED lamp of the charging connector is lit in red. The LCD screen of the vehicle charging station indicates that the charging is underway. 	 Wait until charging is complete. The charging connector cannot be removed during charging. To terminate charging in the middle, refer to page 15.
	You are trying to pull out the connector without pressing the Ejector button inside.	 Press the Ejector button into the inside and then pull out the charging connector. Pressing the Ejector button into the inside releases the lock against the vehicle inlet.
	The charging connector or the vehicle inlet malfunction.	Contact your distributor.
Cannot press the Ejector button. It does	You are pressing the Ejector button from the top to the bottom.	 Press the side face, having the mark, of the Ejector button into the inside.
not move.	The Ejector button malfunction.	Contact your distributor.
	The Ejector button is frozen.	 Remove the ice. If it cannot be removed by the above method, contact your distributor.
The Ejector button protrudes after pressing it inside.	The Ejector button malfunction.	 Pull out the charging connector while the Ejector button is pressed into the inside. Pressing the Ejector button into the inside releases the lock against the vehicle inlet.

Cannot insert

Symptom	Symptom Possible causes Measures	
Cannot insert the connector into the vehicle inlet.	The Ejector button is not at the neutral position.	 Press the Ejector button to return it to the neutral position and then re-insert the connector. The connector cannot be inserted unless the Ejector button is at the neutral position.
		 If pressing the Ejector button does not return it to the neutral position, the charging connector may be broken. Contact your distributor.
	Foreign substances are attached to the terminals.	 Blow them off with an air duster or blower commercially available.
		 If it cannot be removed by the above method, contact your distributor.
	The vehicle inlet is clogged with foreign substances.	 Blow them off with an air duster or blower commercially available.
		 If it cannot be removed by the above method, contact your distributor.
	The charging connector is deformed, or broken or malfunction.	Contact your distributor.
	The vehicle inlet is deformed or damaged or malfunction.	• Confirm the action taken on the side of vehicle.

Cannot be locked

Can be inserted into the vehicle inlet, but is readily removed.	The Ejector button was pressed after insertion.	 Pressing the Ejector button unlocks the connector. Do not press the Ejector button after insertion. The Ejector button protruding from the rear of the body indicates that the connector is inserted properly.
	You are trying to insert the connector while the Ejector button is pressed.	 Insert the connector without pressing the Ejector button. Pressing the Ejector button releases the lock, allowing the connector to be removed from the vehicle inlet.
	The charging connector malfunction.	Contact your distributor.
	The vehicle inlet malfunction.	• Confirm the action taken on the side of vehicle.

Other

Symptom	Possible causes	Measures
LED is not lit during charging.	LED is broken.	Contact your distributor.

Installing holder

Product name	:	Charging connector holder
Yazaki product number (For reference)	:	7225-5396-3W (with cap that opens leftward)
		7225-5397-3W (with cap that opens rightward)
		7225-5398-3W (No cap)

The charging connector can be used outdoor but it is recommended that the charging connector holder should be installed at a position that is not directly exposed to rain or snow. Failing to do so may accelerate degradation.

Hold the charging connector holder while the housing is inserted properly. Failing to do so may cause the holder to drop.

With reference to the following installation dimensions, install the charging connector holder in the vehicle charging station.



A sharp edge or something that interferences with the connector, if any, in the connector accommodating portion of the vehicle charging station may damage the exterior of the connector. It is recommended to take measures against interference.

An excessive force applied to the holder may damage it.

* For how to insert or remove the connector into or from the holder, refer to "How to Use" (Page13).

Recommended installation angle



Recommended mounting shape

Recommended mounting bolt: M6



Installation not at recommended installation angle

Installing the holder not at the recommended installation angle may cause the charging connector to drop, which may result in injury.

To install the holder not at the recommended installation angle, support the charging connector and cable with a retainer.

Japanese specifications

Format		Specifications
	Power	DC 500 V or loss
Rated	circuit	DC 500 V OI less
voltage	Signal	12 V or loss
	circuit	
	Power	125 A or less
Rated	circuit	
current	Signal	2 A or less
	circuit	
	Power	$33 \text{ mm}^2 \times 2$
Lised wire	circuit	33 1111 × 2
USCO WITC	Signal	$0.8 \text{ mm}^2 \times 7+0.8 \text{ mm}^2 \times 2$ (Locking circuit)
	circuit	
Outer dimensions		Width 85 mm × Depth 337 mm × Height 180 mm
Weight		1.3 kg (Weight of a single charging connector, excluding cable)
Operating to	emperature	-40°C to +60°C
Insulation resistance		5 MΩ or more (DC 500 V)
Withstand valtage		No insulation breakdown after application of AC 3000 V for ten
viilistanu voitage		seconds
Solenoid		Coil resistance: 36 Ω ± 10%, operating voltage: DC 12 V ± 10%
Conformed laws and		
regulations		-
Conformed standard		-
Certifying body		-
Marking		-

The charging connector has two versions: STANDARD and ADVANCED.

Install the connector of a right version that meets the specifications of a vehicle charging station in the station.

Marking on the case

[STANDARD version]	[ADVANCED version]
Y YAZAKI	
DC CHARGE CONNECTOR	DC CHARGE CONNECTOR
73FD-1C01	73FD-1C01
DC 500V,125A S	DC 500V,125A 🖉

* For detailed circuit diagrams, refer to pages 27 and 28.

North American specifications

For	mat	Specifications		
	Power	DC 500 V or loss		
Rated circuit		DC 500 V OI less		
voltage	Signal	12 V or loss		
	circuit			
	Power	125 A or loss		
Rated	circuit	123 A OI less		
current	Signal	2 A or less		
	circuit			
	Power	2A\M/C × 2		
Llood wire	circuit	2800 8 2		
Sig	Signal	$18 \Delta W G \times 7 \pm 18 \Delta W G \times 2$ (Locking circuit)		
	circuit			
Outer dimensions		Width 85 mm × Depth 337 mm × Height 180 mm		
Weight		1.3 kg (Weight of a single charging connector, excluding cable)		
Operating t	emperature	-40°C to +60°C		
Insulation resistance		5 MΩ or more (DC 500 V)		
Withstand voltage		No insulation breakdown after application of AC 3000 V for ten seconds		
Solenoid		Coil resistance: 36 Ω ± 10%, operating voltage: DC 12 V ± 10%		
Conformed laws and		National Electrical Code NFPA 70		
regulations				
Conformed standard		UL2251 Third Edition		
Certifying body		Underwriters Laboratories		
Marking		c Z. L ^e us		

The charging connector has two versions: STANDARD and ADVANCED. Install the connector of a right version that meets the specifications of a vehicle charging station in the station.

* The operating temperatures are those guaranteed by us and different from those at which safety is certified.

Marking on the case

[STANDARD version]		[ADVANCED version]	
	c T. l'us	VZAVZZANKI	cTUs
DC CHARGE CONNECTOR		DC CHARGE CONNECTOR	
73FD-1C01		73FD-1C01	
DC 500V,125A Type 3R S		DC 500V,125A Type 3R	

* For detailed circuit diagrams, refer to page 27 and page 28.

European specifications

For	mat	Specifications		
	Power	DC 500 V or loss		
Rated	circuit	DC 500 V OI less		
voltage	Signal	12 V or loss		
	circuit			
	Power	125 A or loss		
Rated	circuit	123 A OI less		
current	Signal			
	circuit			
	Power	$35 \text{ mm}^2 \text{v}^2$		
Llood wire	circuit	55 1111 ×2		
Used wire	Signal	$0.8 \text{ mm}^2 \times 7 \pm 0.8 \text{ mm}^2 \times 2 (l \text{ ocking circuit})$		
	circuit			
Outer dimensions		Width 85 mm × Depth 337 mm × Height 180 mm		
Weight		1.4 kg (Weight of a single charging connector, excluding cable)		
Operating temperature		-40°C to +60°C		
Insulation resistance		5 MΩ or more (DC 500 V)		
Withstand voltage		No insulation breakdown after application of AC 3000 V for ten		
wiinstand voltage		seconds		
Solenoid		Coil resistance: 36 Ω ± 10%, operating voltage: DC 12 V ± 10%		
Conformed laws and regulations		Low Voltage Directive 2006/95/EC		
				Conformed standard
Certifying body		TÜV Rheinland		
Marking		$\mathbb{A} \mathbb{C} \mathbb{E}$		

The charging connector has two versions: STANDARD and ADVANCED.Install the connector of a right version that meets the specifications of a vehicle charging station in the station.

* The operating temperatures are those guaranteed by us and different from those at which safety is certified.

Marking on the case [STANDARD version] [ADVANCED version] VAZZAIKI Image: Colspan="2">Qarzaiki VAZZAIKI Image: Colspan="2">Qarzaiki DC CHARGE CONNECTOR DC CHARGE CONNECTOR 73FD-1C01 DC 500V,125A S IP44 [EV Connector] IP44 [EV Connector]

* For detailed circuit diagrams, refer to pages 27 and 28.

Terminal array



Front view

CONNECTOR		JPN	UL,CSA	CE,GOST
	MARKING "3" BLACK	0.80mm ²	18AWG	0.80mm ²
	MARKING "4" BLACK	0.80mm ²	18AWG	0.80mm ²
Empty circuit	MARKING "5" BLACK	0.80mm ²	18AWG	0.80mm ²
	LIGHT BLUE	(T		
	BROWN			
	MARKING "6" BLACK	0.80mm ²	18AWG	0.80mm ²
	MARKING "7" BLACK	0.80mm ²	18AWG	0.80mm ²
	MARKING "9" BLACK	0.80mm ²	18AWG	0.80mm ²
	MARKING "8" BLACK	0.80mm ²	18AWG	0.80mm ²
For the circuit diagram, refer to the following page.	MARKING "2" BLACK	_ 0.80mm ²	18AWG	0.80mm ²
	MARKING "1" BLACK	+ 0.80mm ²	18AWG	0.80mm ²

Terminal array diagram



Warranty [CHAdeMO DC charging connector (CHV-04)]

This product (charging connector) is delivered after strict quality control and inspection. Should your product malfunction under normal use conditions, this document guarantees that repair services are provided without any charge under the following conditions.

Period and scope of warranty

1. Warranty period: This product (charging connector) is covered by the repair services for one year from the manufacturing date without any charge.

In case of 2), 3), 4) or 5) of 3, repair services are provided at customer's cost.

If a warranty period is separately agreed upon with our sales representative or distributor, the individual agreement shall prevail.

- ◆ How to confirm manufacturing date
- The manufacturing date is determined from a serial number printed on the product.
- The serial number is printed on the cable where is under the connector grip.
- How to read a manufacturing date from a serial number

Ex)

<u>13 01 23</u>-<u>001</u>

1234

- 1 13: ••• Indicates the year of 2013.
- (2) 01: ••• Indicates January
- (3) 23: ••• Indicates the 23rd.
- (4) 001: ••• Manufactured first on the day indicated by (1), (2) and (3).
- 2. After the warranty period: Repair services are provided at customer's cost. For malfunctioning or breakage due to our defect in design or manufacture, repair services will be provided without any charge.
- 3. For malfunctioning or breakage due to the following causes, repair services will be provided at customer's cost.
 - 1) Malfunctioning or breakage of a product after the expiration of the warranty period
 - 2) Malfunctioning or breakage due to abuse, installation or transportation performed under the responsibility of a customer
 - 3) Malfunctioning or breakage due to repair or alternation using parts other than those specified by us
 - 4) Malfunctioning or breakage due to repair or alternation performed by service providers other than us or designated by us
 - 5) Malfunctioning or breakage due to natural disaster, such as earthquake and fire, or other force majeure
- 4. We will not compensate for any secondary damage, including injury of a user or damage to other equipment or property, caused by an accident arising out of or in connection with operation methods other than those set forth in this Instruction Manual.
- * This warranty guarantees that we will provide repair services without any charge for the period and under the conditions set forth herein. This warranty does not limit the legal rights of customers against the issuer of this warranty (company responsible for warranty) and other operators.
- * For repair services provided after the expiration of the warranty period and periods to retain parts used for repair, contact your distributor or our sales representative.

YAZAKI Corporation Yazaki Parts Co., Ltd.

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