

**NEW** EV Charging and Discharging System Connector **CONNECTOR**  
**KW03 Series**  
MB-0334-1  
September 2018**RoHS Compliant**

KW03 Series is an electric vehicle (EV) cable connector developed for medium-speed charging infrastructure and V2G system. This product was designed with ease of operation and safety in mind as it is to be used by the general public.

The grip has been ergonomically designed for ease of handling with an intuitive single-action operation. Weather and flammability resistant resin used for the outer shell provides a highly reliable and environmentally resistant connector, while allowing for it to remain light and durable. In accordance with the widespread use of CHAdeMO specifications, this product have acquired world-wide safety standards, CE certification and UL recognition.

**Features**

- Compliant with CHAdeMO standard Ver1.2
- Compliant with the Electric Vehicle Charging and Discharging System Guidelines (EVPS-002) Ver.2.1
- Use of highly reliable materials to withstand various environmental conditions
- Superior grip design for simple operation.
- World-wide authentication: UL Recognized and CE compliant product

**Applications**

- Electric vehicle charging and discharging system (CHAdeMO compliant)
- Electric vehicle medium-speed charging infrastructure (CHAdeMO compliant)

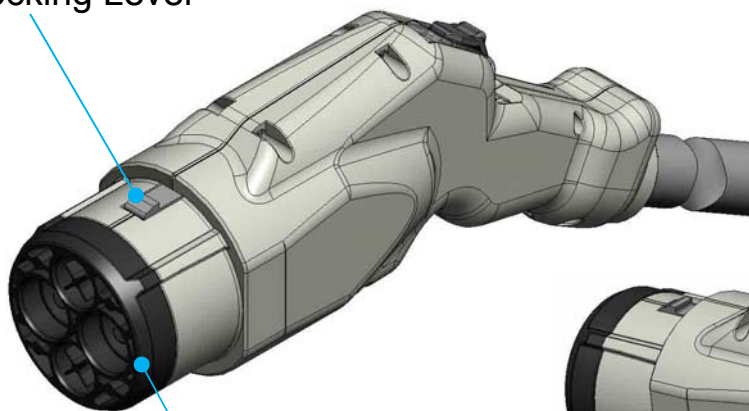
### General Specifications

Number of Contacts	Power supply (Charging) 2 position, 12V power 2 position, signal 6 position
Rated Current	Power supply (Charging) 80A, 12V power 6.4A, signal 2A
Rated Voltage	DC500V
Insulation Resistance	100MΩ min.
Dielectric Withstanding Voltage	AC 3,000V per minute
Durability	10,000 cycles
Insertion Force	100N max.
Operating Temperature Range	-30 Deg. C ~ +50 Deg. C

### Materials

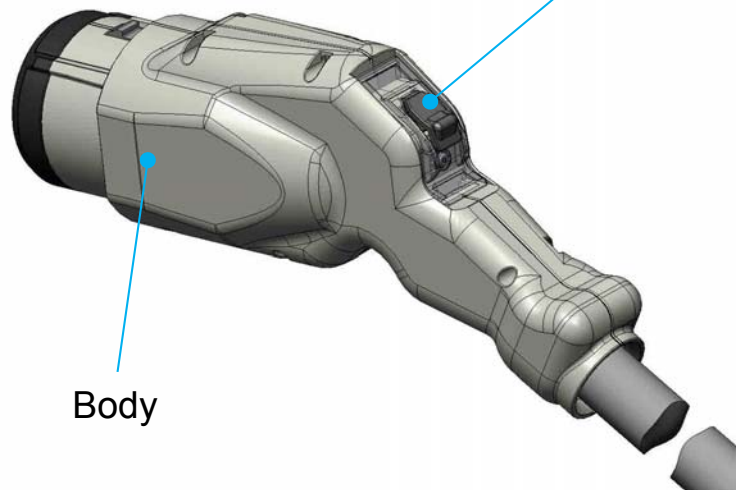
Component	Material
Body	Weather Resistance Resin
Release Button	Weather Resistance Resin
Lock Lever	Stainless Steel
Insulator	Weather Resistance Resin

Locking Lever



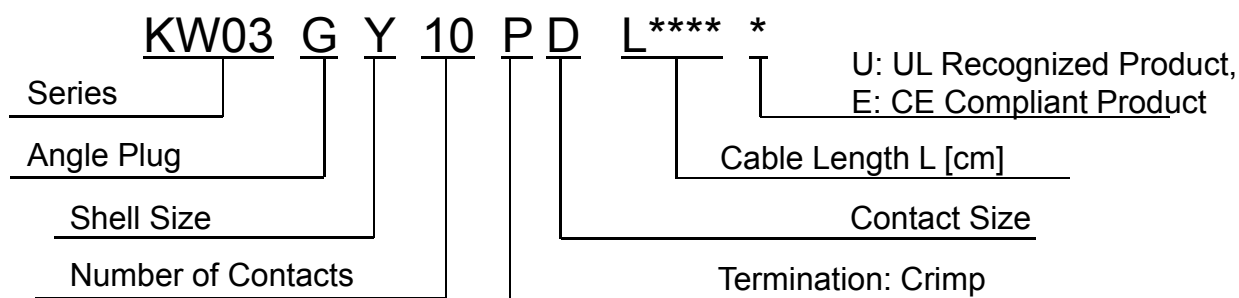
Insulator

Release Button



Body

Ordering Information



Product Line-up

■ UL Recognized Products

Part Number	Drawing Number	Cable Length	Specifications	Handling Instructions
KW03GY10PDL0200U	SJ119473	2.0m	JACS-40189	JAHL-40189
KW03GY10PDL0350U		3.5m		
KW03GY10PDL0400U		4.0m		
KW03GY10PDL0500U		5.0m		
KW03GY10PDL0540U		5.4m		
KW03GY10PDL0600U		6.0m		
KW03GY10PDL0700U		7.0m		
KW03GY10PDL0790U		7.9m		

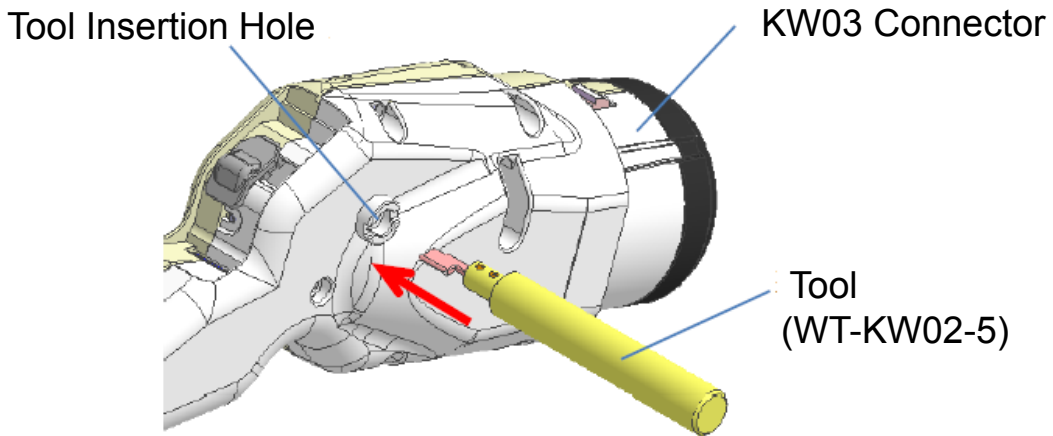
■ CE Compliant Products

Part Number	Drawing Number	Cable Length	Specifications	Handling Instructions
KW03GY10PDL0200E	SJ119493	2.0m	JACS-40191	JAHL-40189
KW03GY10PDL0350E		3.5m		
KW03GY10PDL0400E		4.0m		
KW03GY10PDL0500E		5.0m		
KW03GY10PDL0540E		5.4m		
KW03GY10PDL0600E		6.0m		
KW03GY10PDL0700E		7.0m		
KW03GY10PDL0790E		7.9m		

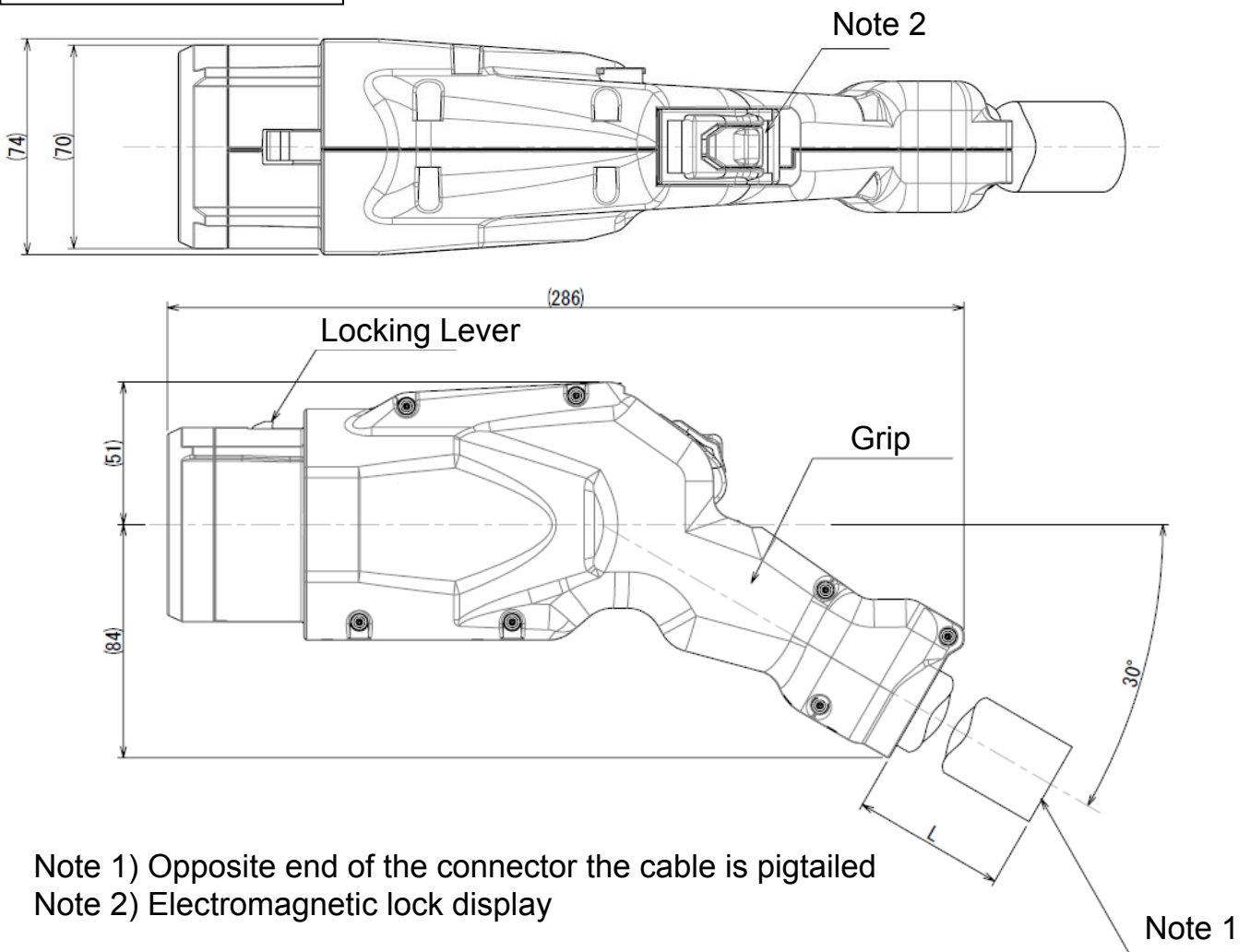
**Exclusive Tool**

This tool will be used when requiring an emergency release of connector. Please refer to the Tool Handling Instructions regarding the usage of tools.

Part Number	Tool Name	Tool Handling Instructions
KW03GY10PDL****B	WT-KW02-5	T714398



**Outer Dimensions**



Note 1) Opposite end of the connector the cable is pigtailed

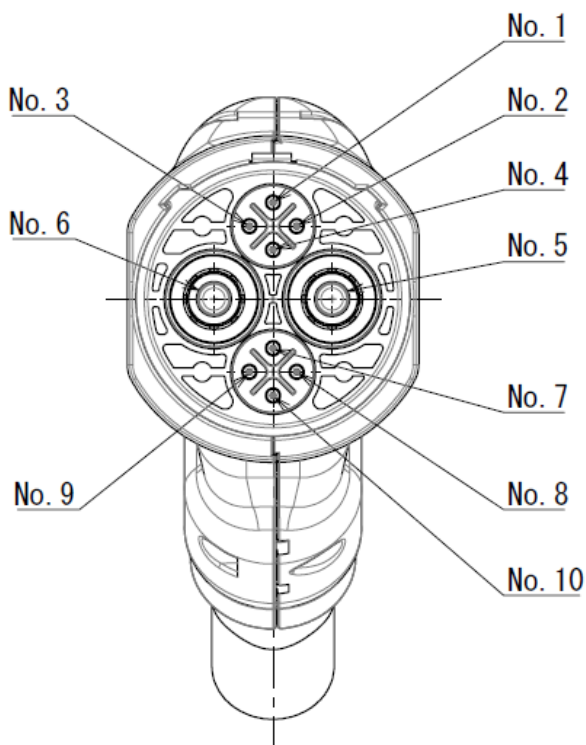
Note 2) Electromagnetic lock display

Note 1

Contact Arrangement
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■ UL Recognized Product

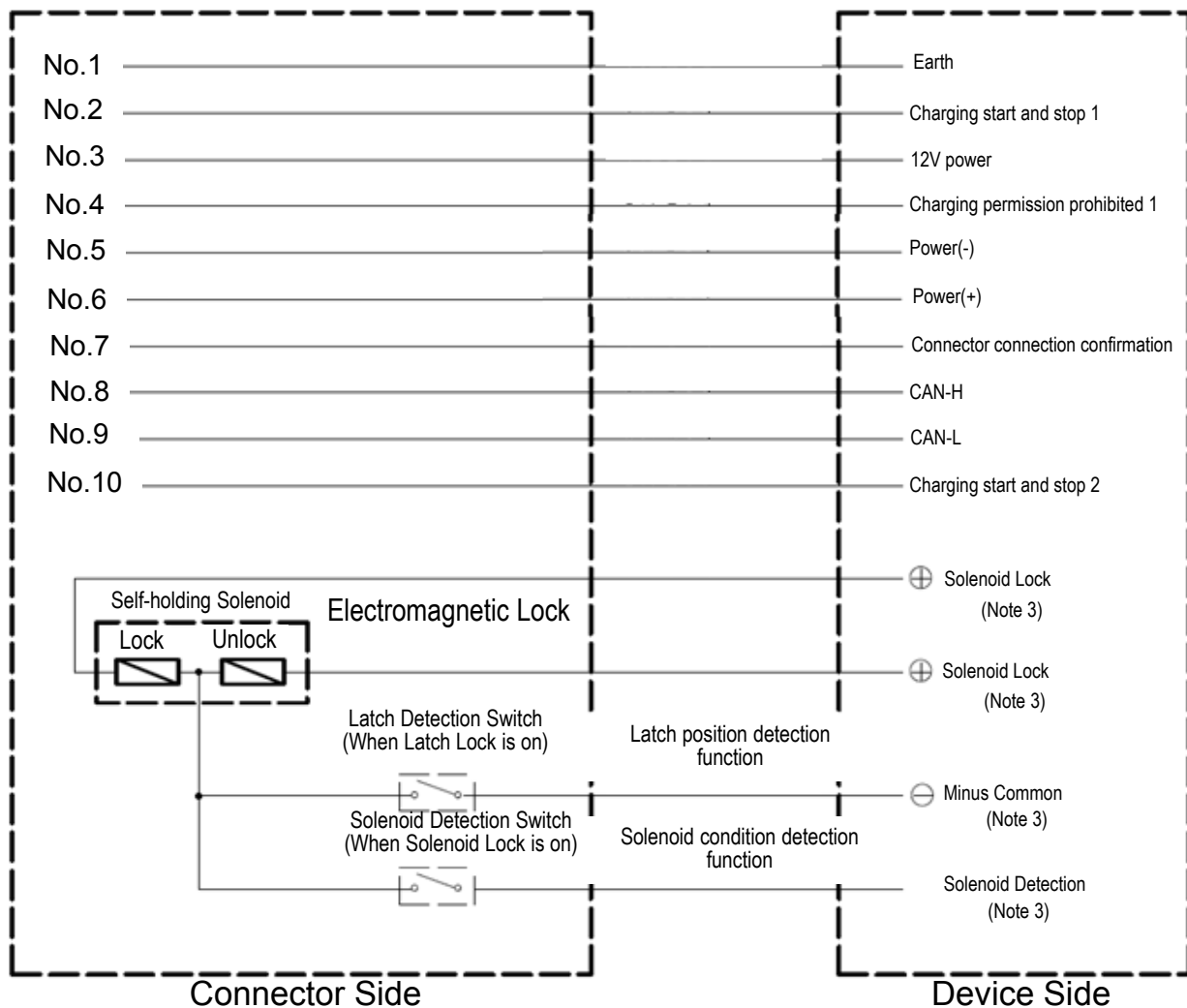
No.	Size	Color / Marking
1	AWG#16	Green
2	AWG#18	Black
3	AWG#16	Light blue
4	AWG#18	Brown
5	AWG#4	Black
6	AWG#4	White
7	AWG#18	Blue
8	AWG#18	Orange
9	AWG#18	Red
10	AWG#18	Pink



■ CE Compliant Product

No.	Size	Color / Marking
1	1.5SQ	Black / 1
2	0.75SQ	Black / 2
3	1.5SQ	Black / 3
4	0.75SQ	Black / 4
5	25SQ	Black
6	25SQ	White
7	0.75SQ	Black / 7
8	0.75SQ	Black / 8
9	0.75SQ	Black / 9
10	0.75SQ	Black / 10

Connector Circuit Diagram



Note 3) Please refer to the technical documents (JACS) for details on wire color and marking of solenoid connection.

**Notice:**

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this brochure are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.
  - (1) Applications that require consultation:
    - (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as: Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
    - (ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as: Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.
  - (2) Recommended applications include: Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

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