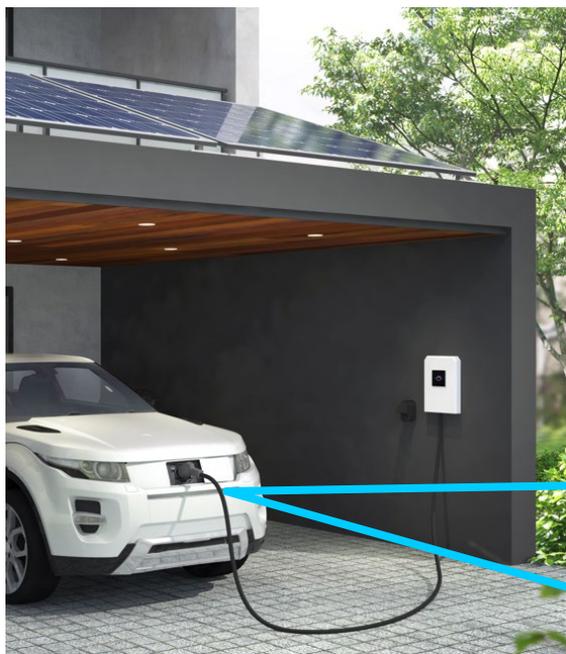


EV Charging and Discharging System Connector KW02 Series

CONNECTOR
MB-0320-3
Dec. 2021

RoHS Compliant



Powerlance brand EV charging KW series connectors combine durability and high quality performance to provide the industries most dependable solutions.



KW02 Series is a CHAdeMO protocol compliant, electric vehicle system connector. It uses a weather resistant and highly durable resin outer shell, as well as is being a lightweight and highly reliable connector.

KW02 Series is structured for use as V2L (vehicle to load) and V2H (vehicle to home) systems, which utilizes large-capacity of electric vehicles as renewable energy storage batteries for home and office buildings and also for the V2G (vehicle to grid) system that adjusts supply and demand of community wide electrical energy.

Features

- Compliant with the Electric Vehicle Charging and Discharging System Guidelines (EVPS-002) Ver.2.1
- Convenient single action insertion and removal procedure for ease of operation.
- Grip designed with operability ergonomics considerations.
- Highly reliable design using materials which are tough against various environmental conditions.
- Achieves both being high-durability and lightweight in a single solution.
- CE-Marking (IEC62196-3 Compliance, Certification Organization: TÜV Rheinland)

Application

Electric Vehicle Charging and Discharging System (CHAdeMO protocol), V2H (Vehicle to Home), V2G (Vehicle to Grid) and other EV charging related applications.

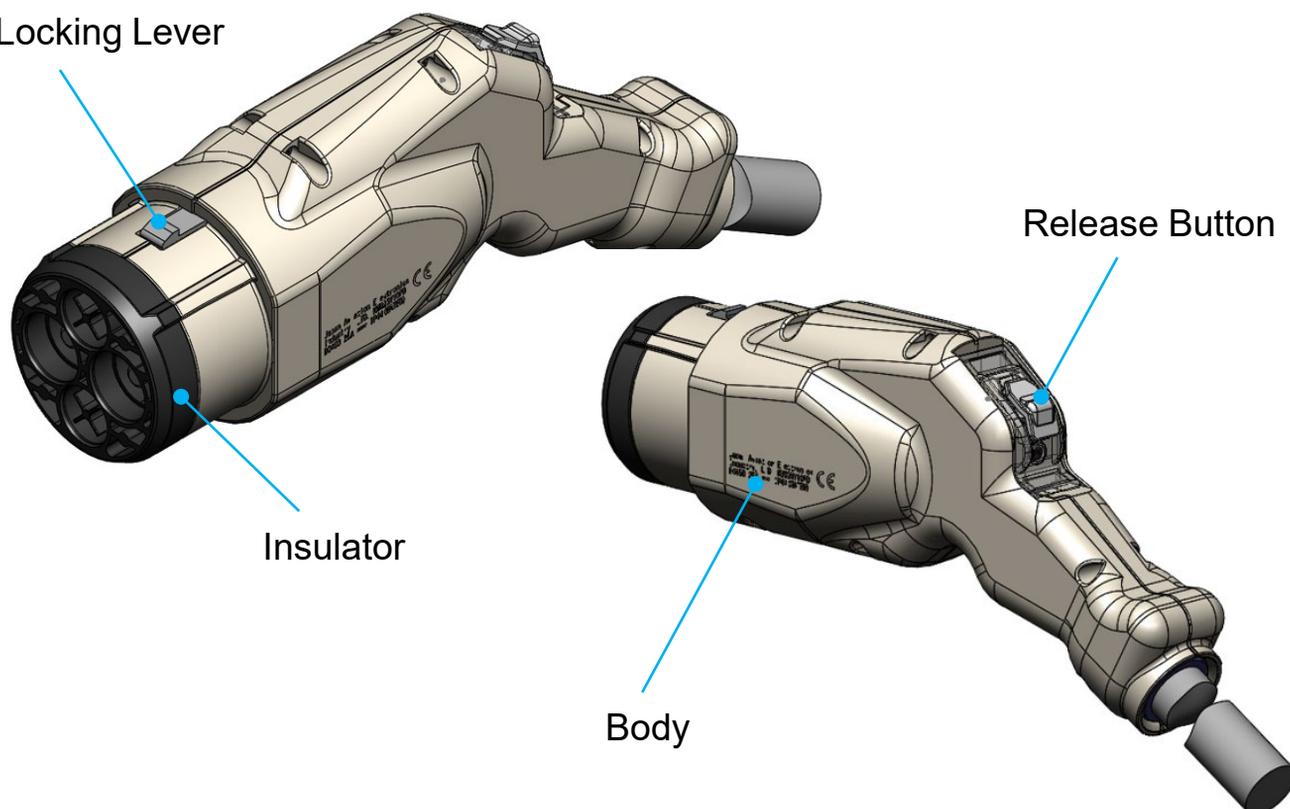
General Specifications

Number of Contacts	Power: 2 pos 12V Power : 2 pos Signal: 6 pos
Rated Current	Power: 25A , 12V Power: 6.4A, Signal: 2A
Rated Voltage	Power: DC450V
Insulation Resistance	100 MΩ min.
Dielectric Withstanding Voltage	AC 3,000V / 1 minute
Durability	10,000-cycles
Insertion Force	100N max.
Operating Temperature Range	-30°C to +50°C

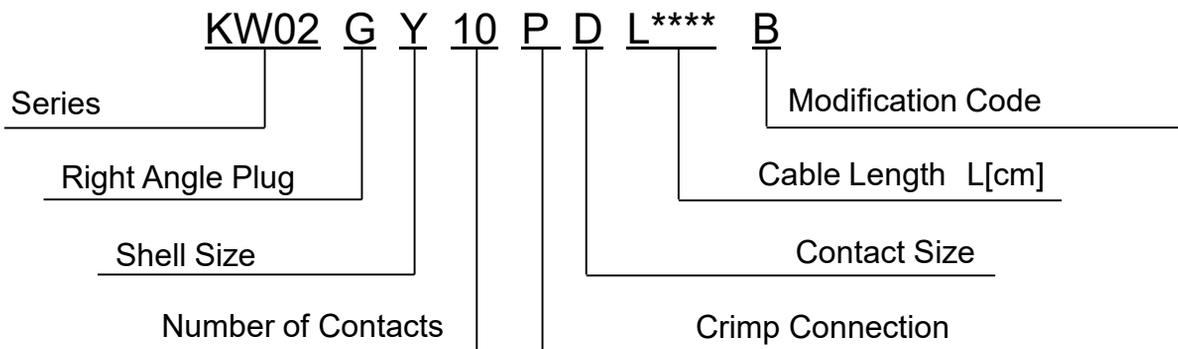
Materials and Finishes

Component	Material
Body	Environment Resistant Resin
Release Button	Environment Resistant Resin
Lock Lever	Stainless Steel
Insulator	Environment Resistant Resin

Locking Lever



Ordering Information



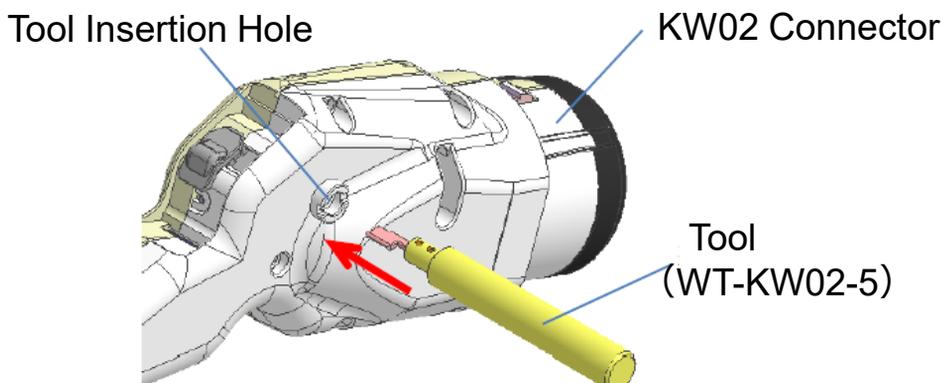
Part Number List

Part Number	Drawing No.	Cable Length	Specifications	Handling Instructions
KW02GY10PDL0400B	SJ117957	4.0m	JACS-40181	JAHL-40181
KW02GY10PDL0450B		4.5m		
KW02GY10PDL0500B		5.0m		
KW02GY10PDL0540B		5.4m		
KW02GY10PDL0600B		6.0m		
KW02GY10PDL0640B		6.4m		
KW02GY10PDL0700B		7.0m		
KW02GY10PDL0790B		7.9m		
KW02GY10PDL0800B		8.0m		
KW02GY10PDL0850B		8.5m		
KW02GY10PDL0890B		8.9m		

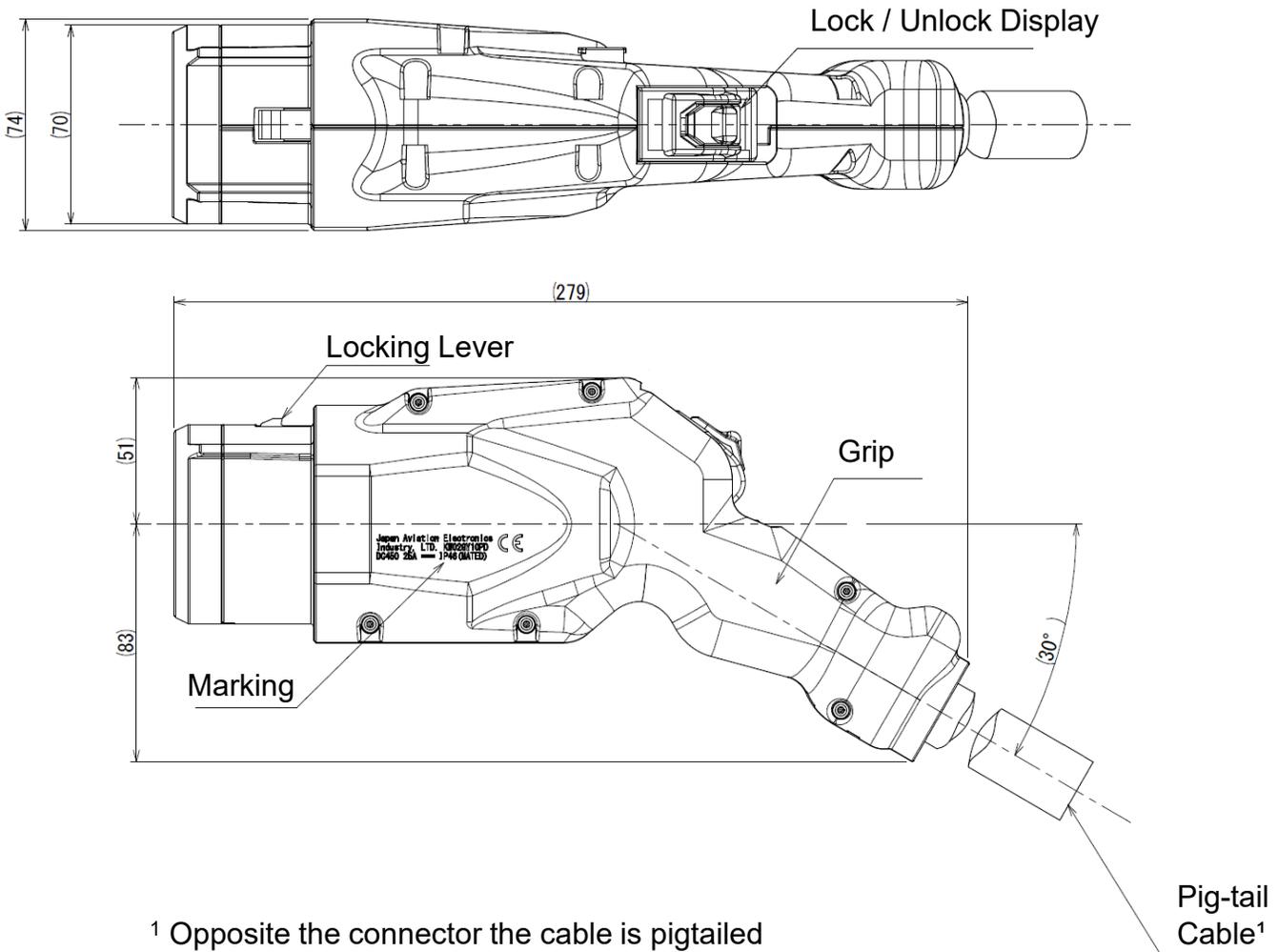
Exclusive Tool

This tool will be used in need of an emergency releasing of the connector. Please refer to the Emergency Release Handling Instructions concerning emergency release, and the Tool Handling Instructions regarding the usage of tools.

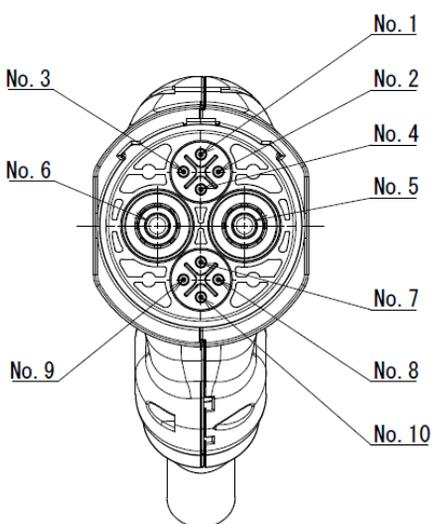
Part Number	Emergency Release Handling Instructions	Tool Name	Tool Handling Instructions
KW02GY10PDL****B	JAHL-40176-01	WT-KW02-5	T714398



Outer Dimensions

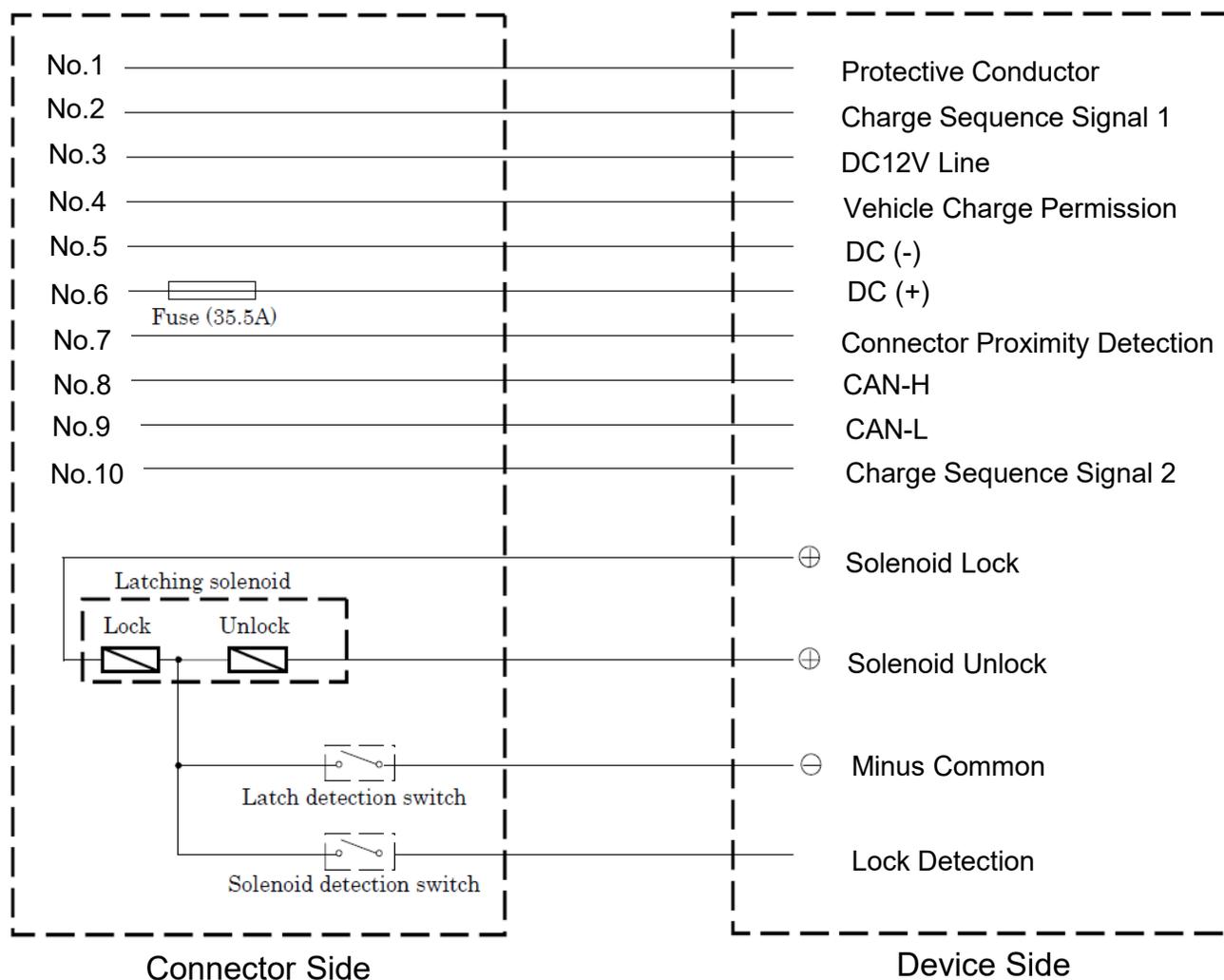


Contact Arrangement



No.	Size	Color / Marking
1	1.25sq	Black / 1
2	0.75sq	Black / 2
3	1.25sq	Black / 3
4	0.75sq	Black / 4
5	3.5sq	Light Blue
6	3.5sq	Brown
7	0.75sq	Black / 7
8	0.75sq	Black / 8
9	0.75sq	Black / 9
10	0.75sq	Black / 10

Connector Circuit Diagram



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.

Japan Aviation Electronics Industry, Limited

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