

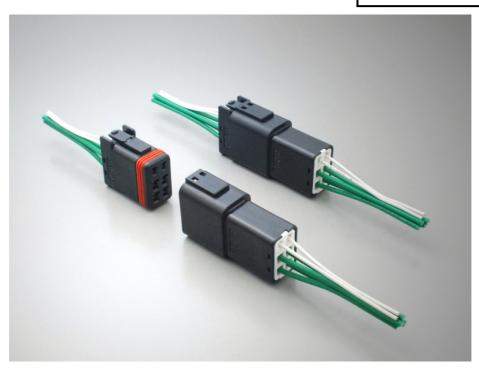


Waterproof In-line Connector for Industrial Machinery

HB01 Series

CONNECTOR MB-0311-2 March 2017

RoHS Compliant



Recently, robots and other industrial machinery are becoming increasingly compact, multi-axis and multi-functional, and the wiring inside the devices more complex. There are also growing demands for waterproof performance to be utilized in several different types of environments.

The HB01 Series connector is a waterproof cable in-line type connector to cater to these demands.

Features

- Hybrid structure that enables both power and signal.
- •Terminals are compatible with a wide range of cable sizes, AWG# 14~24.
- •Mechanical locking structure ensures secure mating and an audible click at mate.
- Connector's back cover acts as a terminal guide.
- •IP67 rated, water and dust proof when mated.

Applications

Robotics, machine tools, servo motors, and other various industrial machinery.

General Specifications

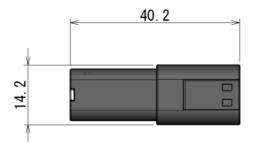
Number of Contacts	6 (4 power, 2 signal)				
	Terminal Typ	e C	urrent	Cable Size	
			9A	18 AWG	
	Power		11A	16 AWG	
Rated Current (per contact)			13A	14 AWG	
(per contact)			2A	24 AWG	
	Signal	: :	3A	22 AWG	
		:	4A	20 AWG	
Rated Voltage		A.C., D.C. 250V (Power Terminal and Signal Terminal have enhanced insulation structure)			
Applicable Cable	Terminal Type	Barrel Size	Cable Siz	ze Insulation outer diameter	
	Power	#17	17~19AW	/G φ1.6~2.3mm	
	Power	#14	14~16AW	/G φ2.1~2.8mm	
	Cianal	#22	22~24AW	/G φ1.1~1.5mm	
	Signal	#19	19~21AW	/G φ1.2~1.8mm	
Contact Resistance	10mΩ max. (initial) 20mΩ max. (posttest)				
Insulation Resistance	5000MΩ min. (initial) $5000MΩ$ min. (posttest)				
Dielectric Withstanding Voltage	1500Vr.m.s				
Terminal Retention Strength	Power Terminal: 50N min. Signal Terminal: 30N min.				
Durability	30 mating cycles				
Operating Temperature	-25 Deg. C ~+85 Deg. C				

Materials and Finishes

Components	Material and Finish	
Insulator	PBT	
Contact	Copper alloy Contact area: Au plating over Ni Connection area: Sn plating over Ni Others: Ni plating	
Grommet	Silicone rubber	
Cover	PBT	
Sealing Ring	Silicone rubber	

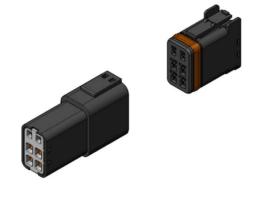
Dimensions

Pin Side

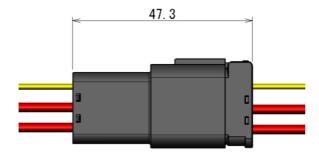




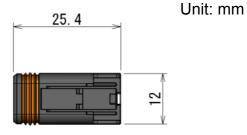




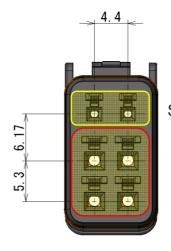
Mated Length



Socket Side







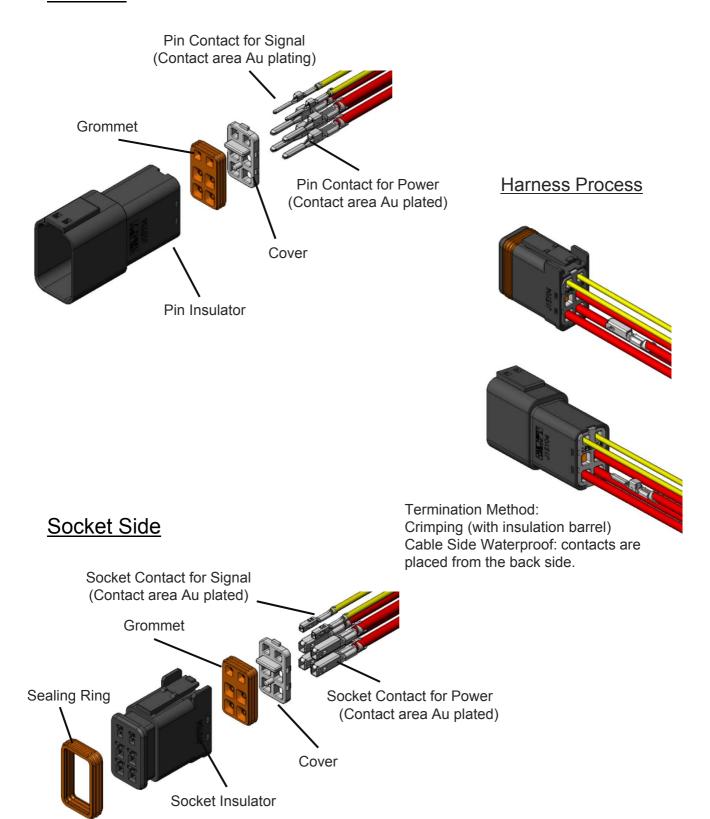
Signal area 2 pos.



Power supply area 4 pos.

Parts and Components

Pin Side



Product Drawings

Connector

Part Number	Drawing No.	Item	
HB01P006PZ1	SJ116693	Pin Connector	
HB01S006SZ1	SJ116694	Socket Connector	

Terminal

Part Number	Drawing No.	Contact Type		Supply Type	Applicable Cable Size	
HB01P06K4P1	SJ116695	#22	Pin	Signal	Reeled 6000 pcs. per reel	22~24 AWG
HB01P06K4P2	SJ116696	#19	Pin	Signal	Same as above	19~21 AWG
HB01S06K4P1	SJ116697	#22	Socket	Signal	Same as above	22~24 AWG
HB01S06K4P2	SJ116698	#19	Socket	Signal	Same as above	19~21 AWG
HB01P25H3P1	SJ116699	#17	Pin	Power	Reeled 2500 pcs. per reel	17~19 AWG
HB01P25H2P1	SJ116700	#14	Pin	Power	Same as above	14~16 AWG
HB01S25H3P1	SJ116701	#17	Socket	Power	Same as above	17~19 AWG
HB01S25H2P1	SJ116702	#14	Socket	Power	Same as above	14~16 AWG

Technical Documents

Specifications: JACS-11114

Handling Instructions: JAHL-11114

Crimping Tools

Applicable Contact	Tool Part Number (Handling Instructions document numbers)			
Applicable Contact	Hand Tool	Semi-automatic Applicator		
HB01P06K4P1				
HB01S06K4P1	CT150-19C-HB01S	3502-HB01S-2		
HB01P06K4P2	(T700429)	(T703542)		
HB01S06K4P2				
HB01P25H3P1				
HB01S25H3P1	CT160-23B-HB01M	3502-HB01M-2		
HB01P25H2P1	(T700423)	(T703540)		
HB01S25H2P1				

Note) In some cases gear teeth should be selected according to the size of the contact and/or cable.

When using an applicator an adjustment will be needed.

For more information on tools please refer to our Handling Instructions.

*Contact Extraction Tool: ET-HB01(Same for both power supply contact and signal contact)

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.
- . 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,

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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