

Technology to Inspire Innovation

Preferred Connector Products

JAE



JAE Electronics, Inc.

For Additional Information Visit www.jae-connector.com

Japan Aviation Electronics Industry, Ltd. (JAE) is an international manufacturer and supplier of electronic components and systems. For over four decades, JAE has provided the electronics industry with solutions to complex design requirements. Since its founding, the Company has strived to contribute to society through market-driven, technology-based global business operations under the philosophy: "Technology to Inspire Innovation."

With worldwide and world-class manufacturing certified to ISO 9001 and QS 9000, JAE has made the commitment to meet the global requirements of our customer. In addition to a network of state of the art manufacturing facilities, JAE has technical service offices located around the world, staffed with experts in connector design and application.

This catalog contains a select overview of JAE Connector Products. For in-depth information on our complete product line, and information on new developments, visit JAE's online catalog at www.jae-connector.com.

Innovative design, quality oriented manufacturing, commitment to our customers and sensitivity to the environment assures JAE's leadership position in the 21st century.

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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this catalog are made for the applications specified. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information. Recommended Applications: Computers, Office Machines, Measuring Devices, Telecommunications Devices (Terminals, Mobile Devices) AV Devices, Household Applications, FA Devices, etc.
- Refer to end of catalog for alphabetical index of products.

JL04V SERIES CONNECTORS

Waterproof, Wire Soldering Type, Circular Connectors



FEATURES

- Certified by European safety standards and UL standards

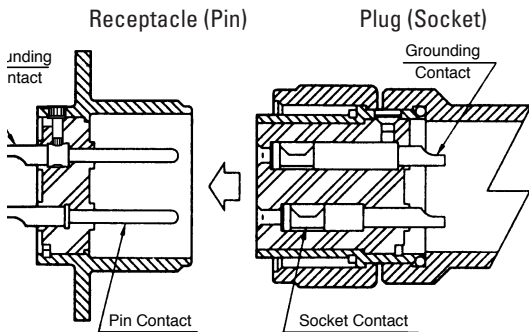
Certification Organization	Standards
TÜV	DIN VDE 0627
UL	UI-498(E67741)



/ Rheinland

- First-to-make, last-to-break grounding contacts incorporated that connect with metallic shell to create protective earth circuit

Connector Profile (Ref.)



- IP67 class waterproof and dust-proof structure when mated
- Right angle, straight and straight without endbell (for use with conduit) plug types available
- Various contact arrangements
- Intermatable with MS connectors (Please consult JAE for details.)



JL04V Series are highly reliable circular connectors (wire soldering type) approved by TÜV as connectors satisfying European safety standards and by United States UL standards. They feature IP67 class water and dust proof (in the mated condition) structure, and a protective earth circuit with first-to-make, last-to-break grounding contacts. They are ideal for use in machine tools, servomotors, robots, and other industrial machines.

GENERAL SPECIFICATIONS

Number of Contacts	3, 4, 6, 7, 8, 9, 22 (See Note 1)			
Current Rating (Per contact)	Contact Size	Current Rating		
	#4	80 Amp max. per contact		
	#8	46 Amp max. per contact		
	#12	23 Amp max. per contact		
	#16	13 Amp max. per contact		
Dielectric Withstanding Voltage	2000 VAC r.m.s. (for one minute) with the rated current of 500 VAC: 3000 VAC r.m.s (for one minute)			
Insulation Resistance	1000 megohms min. (5,000 megohms min. for 28-11)			
Contact Resistance (Steady Level initial)	Contact Size	Applicable Wire AWG No.	Test Current Amps.	Contact Resistance milliohms max. (Initial)
	#4	#4	80	1
		#6	60	1
		#8	46	1
	#8	#10	46	2
		#12	32	2
	#12	#12	23	2
		#14	17	3
		#16	13	4
	#16	#16	13	4
#18		10	7	
#20		7.5	8	
#22		5	15	
#24		3	15	
Operating Temperature	-55°C to +125°C			
Applicable Wire Size and Cross Section	#4	2.2mm ² max.		
	#8	5.5mm ² max.		
	#12	3.5mm ² max.		
	#16	1.25mm ² max. (0.5mm ² max. for 2E10SL-3P)		
Waterproof (mated condition)	IP67 Class			
Air Tightness (Receptacle)	2.9 x 10 ⁴ Pa (0.3 kg/cm ²), one minute			
Durability	500 Cycles			

MATERIALS AND FINISHES

Description	Materials/Finishes
Shell	Aluminum Alloy/Zinc plating (black)
Insulator	Synthetic Resin/Black (see Note)
Contact	Copper Alloy/Silver plating
Gasket	Synthetic Rubber
Retaining Ring	Copper Alloy/Zinc plating (OD chromate)
Endbell Fixing Screw	Steel/Zinc plating
Ground Pin/Screw (Screw: 24-10 (G) only)	Copper Alloy/Nickel plating

Note: Front part of receptacle is silicone rubber.
Synthetic resin for contact arrangement 28-11 only.

Dimensions and specifications subject to change without notice.

JL04V SERIES CONNECTORS

Waterproof, Wire Soldering Type, Circular Connectors

ORDERING INFORMATION

(Receptacle)	JL04V	-	2	*	**	-	**	*	E	*	-	B	-	R
(Plug)	JL04V	-	*	A	**	-	**	*	E	*				EB-R
Series	_____													
Connector Type	_____													
2 – Receptacle														
6 – Straight Plug														
8 – Right Angle Plug														
Waterproof	_____													
E – Waterproof														
A – Waterproof During Mating Only														
Shell Size	_____													
10 SL, 18, 20, 22, 24, 28, 32														
Contact Arrangement	_____													
(Ref. page xxx-xxx)														
Contact Type	_____													
P – Pin Contact														
S – Socket Contact														
With Protective Grounding Contact	_____													
Alternate Insert Position	_____													
W, X, Y, Z														
Outer Shell Color	_____													
B – Black														
Endbell	_____													
EB – With Endbell														
EB-R – With Right Angle Endbell														

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JAE

***“Building Technologies
to Connect Your World”***



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