

Preferred Connector Products

Technology to Inspire Innovation

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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Contact Spacing

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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.

JN1 SERIES CONNECTORS

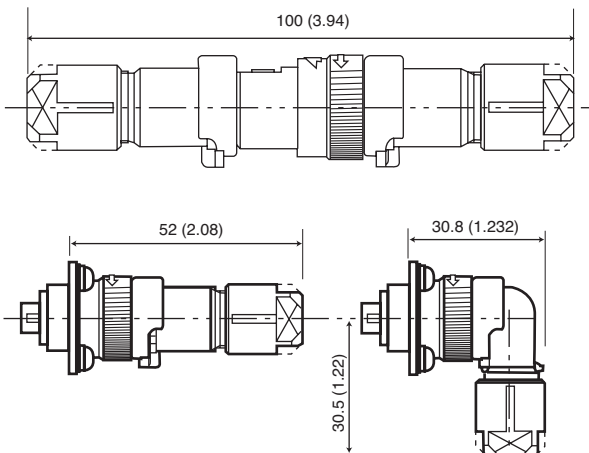
General Purpose Waterproof, Miniature Connectors



FEATURES

- All plastic
- Receptacle connector is available in through hole or solder contacts
- Plug connector is available in solder and crimp contacts (10 pos. only; 4 pos. has solder contacts)
- Waterproof to IP67
- Twisting locking mechanism
- Right angle plug can be mated in 4 different directions by rotating the connector 90 degrees

Connector Profile (Ref.)



Dimensions in mm (inches).

.....

This connector is an all plastic, waterproof to IP67 connector and is available in solder or crimp contacts. The one-touch locking mechanism was developed as an interface for industrial devices.

GENERAL SPECIFICATIONS

Number of Contacts	4, 10	
Current Rating	5 Amps (4 pin) 3 Amps (10 pin) per contact	
Dielectric Withstanding Voltage	2000 VAC (4 pin) 900 VAC (10 pin) r.m.s. for one minute	
Insulation Resistance	1000 megohms min.	
Contact Resistance	Contact Size	Milliohms max
	#21 -24	20
	#25 - 26	26
	#28	36
Operating Temperature	-20°C to +125°C	
Applicable Wire Size	#20, #21-25, #26-28	

MATERIALS AND FINISHES

Description	Materials/Finishes
•Receptacle	
Pin Insulator	Synthetic resin
Pin Contact	Copper Alloy/ Gold plating (10 pins) Silver plating (4 pins)
•Relay Receptacle	
Insulator	Synthetic resin
Assembly nut	Synthetic resin
Straight endbell	Synthetic resin
O ring	Synthetic rubber
Bushing	Synthetic rubber (Color: black/gray)
Gland Nut	Synthetic resin
Pin Contact (#22)	Gold plating
Pin Contact (#20)	Silver plating
•Plug	
Front Insulator	Synthetic resin
Rear Insulator	Synthetic resin
Coupling Nut	Synthetic resin
Assembly Nut	Synthetic resin
Angle endbell	Synthetic resin
Straight endbell	Synthetic resin
O Ring	Synthetic rubber
Bushing	Synthetic rubber (Color: black/gray)
Gland Nut	Synthetic resin
Spring	Stainless Steel
Spring pin	Stainless Steel
Socket contact	Copper alloy/Gold plating (10 pins) Silver plating (4 pins)

JN1 SERIES CONNECTORS

General Purpose Waterproof, Miniature Connectors

ORDERING INFORMATION

• Receptacle/Plug

Series JN1 * * * * *

Connector type

A – Panel mount receptacle
D – Straight plug
E – Individual plug
F – Angle plug

Shell Size

S – Connection outer diameter:
10mm - 15mm (.39" - .59")

No. of Contacts

04 – 4 pins
10 – 10 pins

Connection Method

U – Through-hole pin
M – Pin with solder
S – Crimp socket (10 pos. only)
F – Socket with soldering

Contact size

K – #20
L – #22

Cable Diameter

1 – 5.7mm (.224") to 7.3mm (.287") diameter
2 – 6.5mm (.256") to 8.0mm (.315") diameter

Mating key type

None – Normal
X – Alternate Insert Position

• Contacts

Series JN1 - 22 - ** - * - *****

Connector type

#22

Applicable Wire Size

20 – #20 AWG
22 – #21 to #25 AWG
26 – #26 to #28 AWG

Contact Type

P – Pin
S – Socket

PKG100 – 100 pcs. per package
R10000 – 10000 pieces/reel

• Relay Receptacle

Series JN1 * * * * *

Connector type

H – For cable connection
(without flange)
K – For wall mounting type
(with flange)

Shell Size

S – Connection outer dia.
(10 dia. to 15 dia.)

No. of Contacts

04 – 4 pins
10 – 10 pins

Connection Method

P – Crimp pin
M – Pin with soldering

Contact size

K – #20
L – #22

Cable Diameter

1 – 5.7mm (.224") to 7.3mm (.287") diameter
2 – 6.5mm (.256") to 8.0mm (.315") diameter

TOOLING

Hand Tools

CT150-2-JN1-D	#20, #25 AWG
CT150-2-JN1-E	#21, #23, #25 AWG
CT150-2-JN1-B	#22 to #24 AWG, #26 to #28 AWG

Semi Automatic Crimp Machine

CP215-4B Press

350-JN1-2C Applicator

For all wire sizes

Color of bushing is decided by wire size.

5.7 to 7.3 diameter is black, 6.5 to 8.0 diameter is gray.

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***"Building Technologies
to Connect Your World"***



Japan Aviation Electronics Industry, Limited

1-19, Aobadai 3-chome, Meguro-ku
Tokyo 153-8539, Japan
Telephone: 03-3780-2736
Fax: 03-3780-2883

JAE Electronics, Inc.

142 Technology Drive, Suite 100
Irvine, California 92618-2430, U.S.A.
Telephone: 949-753-2600
Fax: 949-753-2699
800-523-7278 Toll free in the U.S.A.

JAE Europe

Coliseum Business Centre
Riverside Way, Camberley
Surrey, GU15 3YL, England
Telephone: 44-1276-404000
Fax: 44-1276-404010

JAE Taiwan, Ltd.

4F-1, No. 88, Chung Hsiao E. Rd.
Sec. 2, Taipei, Taiwan, R.O.C.
Telephone: 886-2-2396-7676
Fax: 886-2-2392-5929

JAE Hong Kong, Ltd.

Suites 1407-11, 14/F, Tower 2, The Gateway,
25 Canton Road, Tsimshatsui, Kowloon, Hong Kong
Telephone: 852-2723-7782
Fax: 852-2723-9028

JAE Korea, Inc.

1602, Korea City Air Tower
159-9 Samsung-Dong, Kangnam-ku
Seoul, 135-973, Korea
Telephone: 82-2-551-8959
Fax: 82-2-551-8958

JAE Philippines, Inc.

PEZA Zone, Gateway Business Park, Javalera
General Trias, 4107 Cavite, Philippines
Telephone: 63-46-433-0285
Fax: 63-46-433-0287

JAE Singapore Pte., Ltd.

33 Tannery Lane, #02-01 Hoesteel
Industrial Building
Singapore 347789
Telephone: 65-6748-1332
Fax: 65-6748-2920

JAE Shanghai Co., Ltd.

RM 1407, Shanghai Mart 2299 Yanan Rd.
West Shanghai 200336 P.R.C.
Telephone: 86-21-6236-0322
Fax: 86-21-6236-1292

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