

JN1 SERIES CONNECTORS

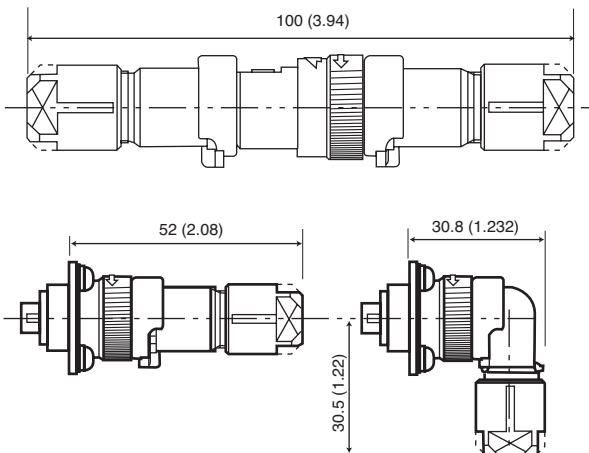
General Purpose Waterproof, Miniature Connectors



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).

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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)

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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
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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.