D SUBMINIATURE CONNECTOR J SERIES

Solder pot plug and socket

SOLDER POT PLUG AND SOCKET

Solder pot plug

Solder pot socket

Features

- The socket contacts are formed by high-speed stamping presses to obtain the advantages of cold working. They are therefore highly elastic, which in turn ensures reliable connection even after many mating cycles.
- The dimples in the plug shell ensure continuity between it and the socket shell, thus providing complete shielding.
- Costs are kept low by selective gold plating the contacts.
- The solder cup portions of the contacts are tin-plated for easy soldering.
- Insulator housings are made of a heat-resistant glass-filled PBT resin.

Standards

Recognized E60389 Certified LR20812

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* RoHS2 compliance

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3 A AC/DC (2 A for 37 circuits)
Voltage rating	250 V AC/DC
Temperature range	−40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/ 15 mΩ max. After environmental tests/ 30 mΩ max.
Insulation resistance	5,000 MΩ min.
Withstanding voltage	1,000 VAC/minute

Note: Contact JST for details.

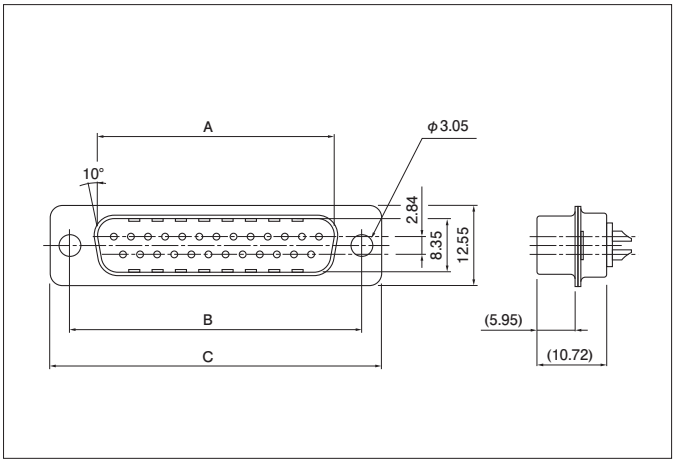
Model number identification

J E Z - 9 P - 14 - 3

- Series name
- Shell size: E, A, B ,C
- Wire connection style: Z ... Solder pot type
- Number of circuits: 9, 15, 25, 37
- Connector type: P ... Plug, S ... Socket
- Finish
  Blank ... Gold-plated (flash) 14 ... 0.76 micron gold-plated
  90 ... Tin-plated (reflow treatment)
- Plating specification of shell: 3 ··· Copper-undercoated, nickel-plated

Note: 1. The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C
2. Contact JST for special plating requirements.

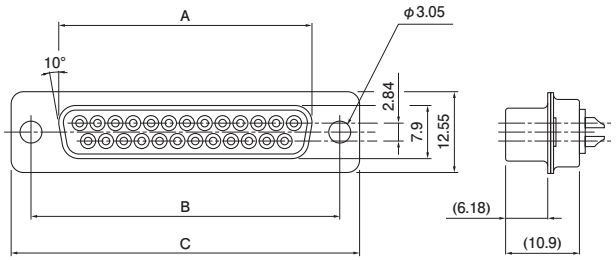
Plug



Circuits	Model No.		Dimensions (mm)			Q'ty/ box
	Gold-plated	Tin-plated	A	B	C	
9	**JEZ-9P-3**	**JEZ-9P-90-3**	16.92	24.99	30.80	100
15	**JAZ-15P-3**	—	25.25	33.32	39.14	100
25	**JBZ-25P-3**	**JBZ-25P-90-3**	38.97	47.04	53.04	50
37	**JCZ-37P-3**	**JCZ-37P-90-3**	55.43	63.50	69.32	50

RoHS2 compliance Gold-plated products display (LF)(SN) on a label.

Socket



Circuits	Model No.		Dimensions (mm)			Q'ty/ box
	Gold-plated	Tin-plated	A	B	C	
9	**JEZ-9S-3**	**JEZ-9S-90-3**	16.34	24.99	30.80	100
15	**JAZ-15S-3**	**JAZ-15S-90-3**	24.67	33.33	39.14	100
25	**JBZ-25S-3**	**JBZ-25S-90-3**	38.38	47.04	53.04	50
37	**JCZ-37S-3**	**JCZ-37S-90-3**	54.84	63.50	69.32	50

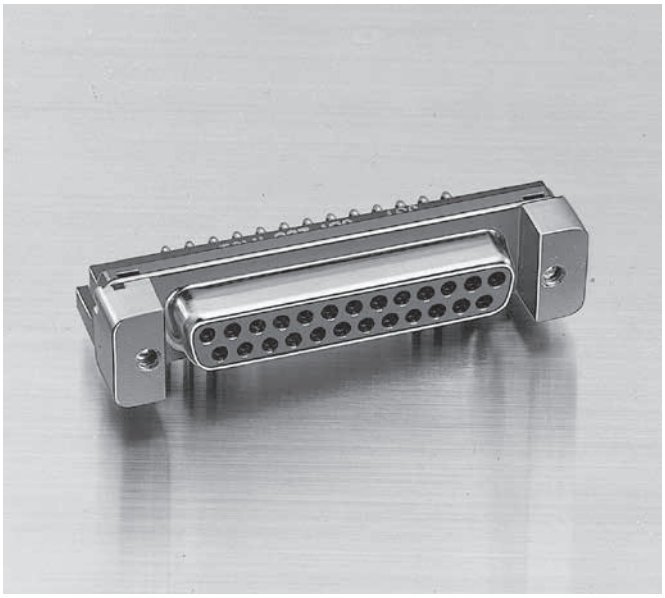
RoHS2 compliance Gold-plated products display (LF)(SN) on a label.

D SUBMINIATURE CONNECTOR J SERIES

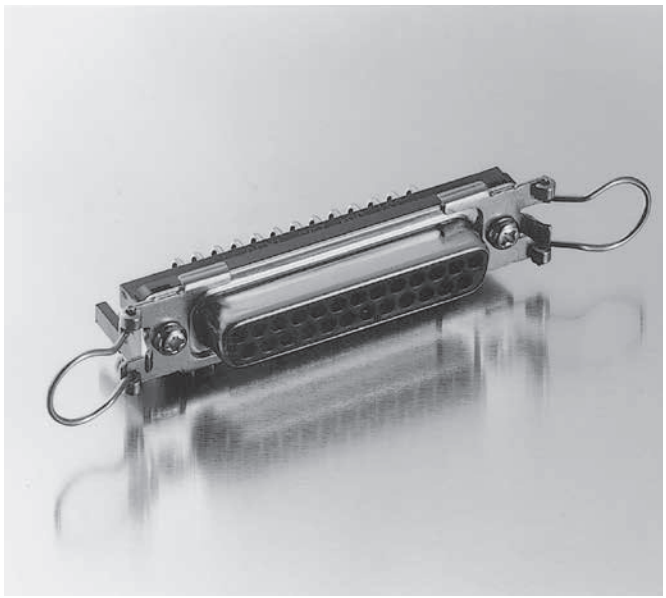
Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET

Right angle through-hole plug
(with hexagonal lock screw blocks)



Right angle through-hole socket
(with rectangular lock screw blocks)



Right angle through-hole socket
(with bail lock)

Features

- The socket contacts are made by high-speed stamping presses. This promotes the uniform elasticity of the twin-contact mating sections and therefore ensures reliable contact even after repeated mating cycles. The solder tails are U-shaped for extra strength.
- Costs are minimized by selective gold plating, high speed stamping presses, and completely automated assembly.
- To ensure complete shielding, a wide variety of grounding adapters are available so that the sockets can be grounded to different kinds of supporting structures.
- Metric, inch or other lock screw blocks are available for fastening mating plugs.

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Heaxagonal lock screw block		Steel, copper-undercoated, nickel-plated
Rectangular lock screw block		Zinc, copper-undercoated, nickel-plated
Grounding adapter having a 3.2 mm dia. hole		Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole		
Grounding adapter having a spring lock lever		Brass, nickel-undercoated, tin/copper alloy-plated
Spring lock	Bail lock	Stainless steel
	Accepts bail lock	

Characteristics

Current rating	3 A AC/DC (2 A AC/DC for 37 circuits)
Voltage rating	250 V AC/DC
Temperature range	−40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/ 15 mΩ max. After environmental tests/ 30 mΩ max.
Insulation resistance	5,000 MΩ min.
Withstanding voltage	1,000 VAC/minute
Applicable PC board thickness	1.6 mm

Note: Contact JST for details.

Standards

Recognized E60389 Certified LR20812

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* RoHS2 compliance

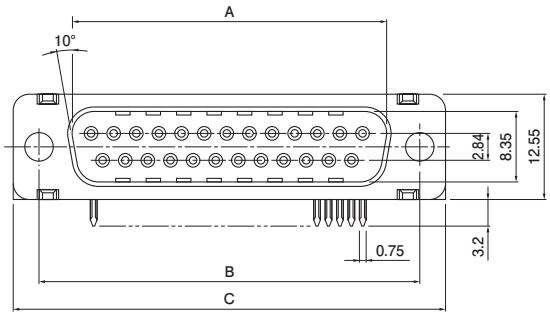
Model number identification

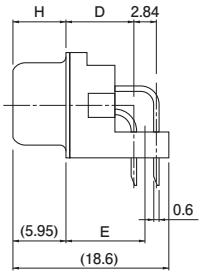
J E Y - 9 S - 1A 3 A 14 S1

- Series name
- Shell size: E, A, B ,C
- Wire connection style: Y... Right angle through-hole style
- Number of circuits: 9, 15, 25, 37
- Connector type: P ... Plug, S ... Socket
- Connector construction/Dimensions: Standard J series
- Types of grounding adapters: 0 ... Without grounding adapters
  1 ... With grounding adapters having a 3.2 mm dia. hole
  2 ... With grounding adapters having an M3 thread
  3 ... With grounding adapters having a spring lock device (1)
  4 ... With grounding adapters having a spring lock device (2)
- Types of lock screw blocks: A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  C ... With rectangular lock screw blocks having an M2.6 thread
  D ... Without lock screw blocks
  E ... Without lock screw blocks, but with grounding adapters having a 3.05 mm dia. hole
  F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
- Finish: Blank ... Gold-plated (flash)
  13 ... 0.4 micron gold-plated 14 ... 0.76 micron gold-plated
  90 ... Tin-plated (reflow treatment)
- Bail locks: Blank...Without bail locks
  S or S1...With bail locks S2...With bail locks (with addition of spring characteristic)
  S5...With bail locks (with addition of spring characteristic, straight oval type)

Note: 1. The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C
2. Contact JST for special plating requirements.
3. Contact JST for the Socket with bail locks. (Not UL/CSA approved.)

Right angle through-hole plug



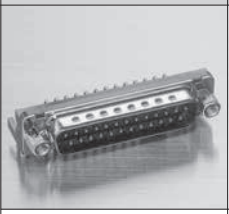
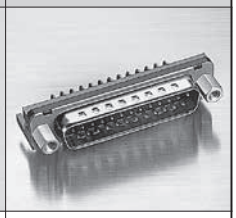
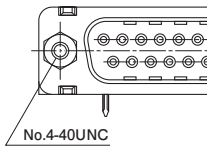
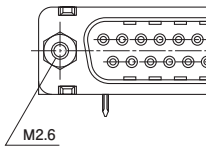
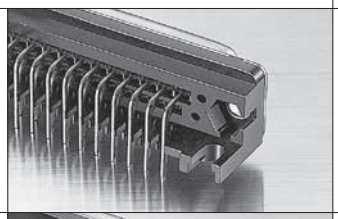
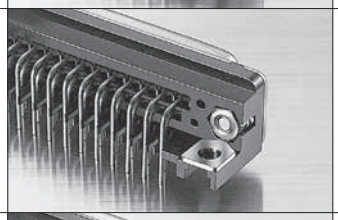
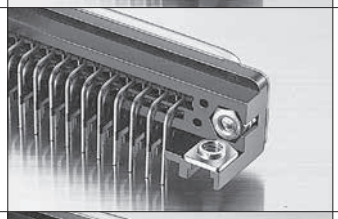
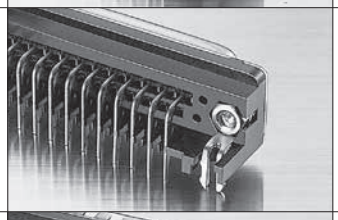
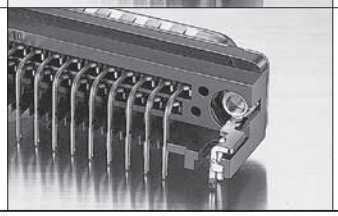


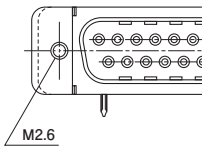
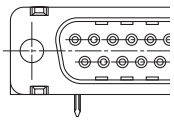
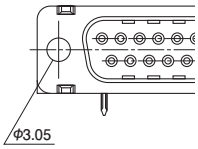
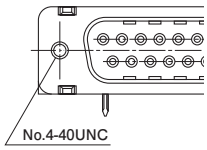
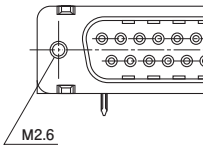
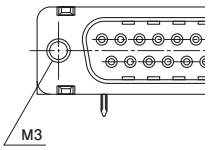
H: Height of the lock screw block (for Types A, B & C)

Circuits	Model No.		Dimensions (mm)					Q'ty/ box
	Gold-plated plug	Tin-plated plug	A	B	C	D	E	
9	**JEY-9P-1A****	**JEY-9P-1A**90**	16.90	24.99	30.80	8.1	9.52	100
15	**JAY-15P-1A****	**JAY-15P-1A**90**	25.25	33.33	39.14	8.1	9.52	100
25	**JBY-25P-1A****	**JBY-25P-1A**90**	38.97	47.04	53.00	8.2	9.62	50

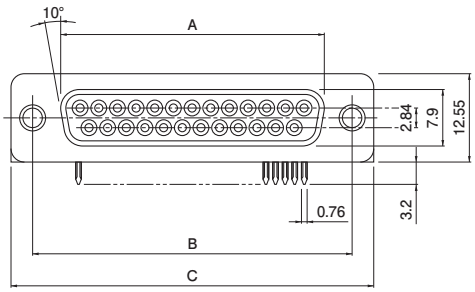
<Gold-plated product> **RoHS2 compliance** This product displays (LF)(SN) on a label.
<Tin-plated product> *1, 2, 3 ... **RoHS2 compliance**
*4, 5 ... **RoHS2 compliance** This product displays (LF) on a label.

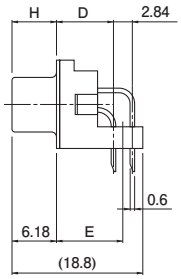
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9P-1A0A.

	Type A	Type B
		
	With hexagonal lock screw blocks (H: 6.3 mm) having a No.4-40UNC inch thread	With hexagonal lock screw blocks (H: 6.3 mm) having an M2.6 thread
		
*1 Without grounding adapters		0A	0B
*2 With grounding adapters with a 3.2 mm dia. hole	 	—	1B
*3 With grounding adapters with an M3 thread	 	2A	2B
*4 With grounding adapters with a spring lock device (1)	 	3A	3B
*5 With grounding adapters with a spring lock device (2)	 	—	—

Type C	Type D	Type E	Type F	Type G	Type H
					
With rectangular lock screw blocks (H: 6.2 mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Use a lock screw block of Model number JFS-( )S-C1N.	*1: No.4-40UNC inch thread *2: Model number JFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number JFS-3S-( )1W(M)
					
0C	0D	—	—	—	—
1C	1D	—	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H

Right angle through-hole socket



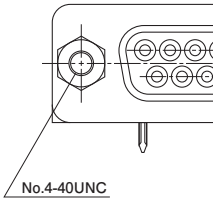
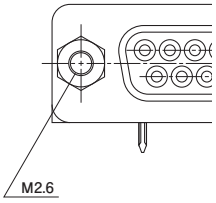
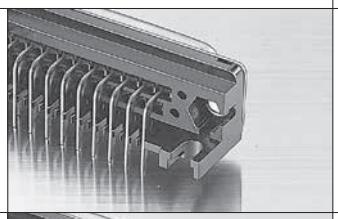
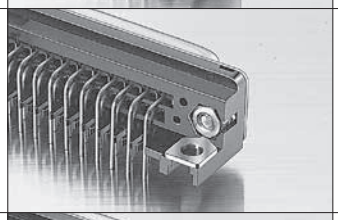
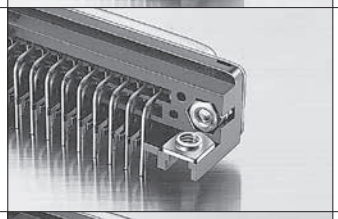
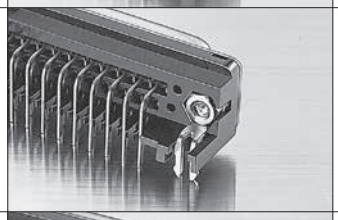
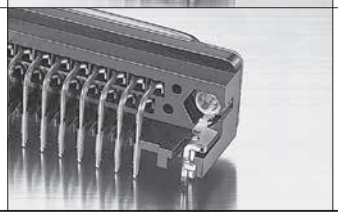


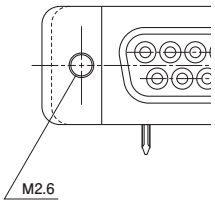
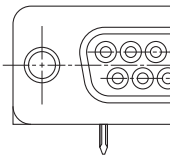
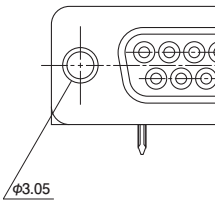
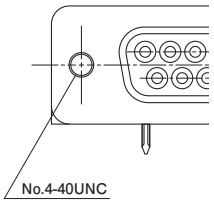
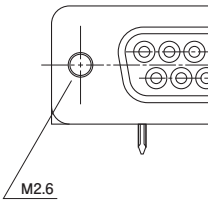
H: Height of the lock screw block (for Types A, B & C)

Circuits	Model No.		Dimensions (mm)					Q'ty/ box
	Gold-plated socket	Tin-plated socket	A	B	C	D	E	
9	**JEY-9S-1A****	**JEY-9S-1A**90**	16.34	24.99	30.80	8.1	9.52	100
15	**JAY-15S-1A****	**JAY-15S-1A**90**	24.67	33.32	39.14	8.1	9.52	100
25	**JBY-25S-1A****	**JBY-25S-1A**90**	38.38	47.04	53.00	8.2	9.62	50
37	**JCY-37S-1A****	**JCY-37S-1A**90**	54.84	63.50	69.32	8.2	9.62	50

<Gold-plated product> **RoHS2 compliance** This product displays (LF)(SN) on a label.
<Tin-plated product> *1, 2, 3 ... **RoHS2 compliance**
*4, 5 ... **RoHS2 compliance** This product displays (LF) on a label.

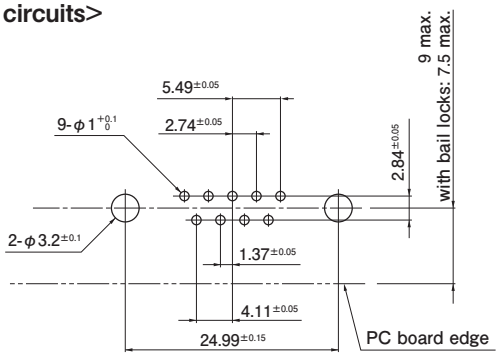
Note: 1. ** shows the location where a two-digit code (see the table below for codes) should be entered.
For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9S-1A0A.
2. It may be out of production depending on a combination.

	Type A	Type B
		
	With hexagonal lock screw blocks (H: 6.3 mm) having a No.4-40UNC inch thread	With hexagonal lock screw blocks (H: 6.3 mm) having an M2.6 thread
		
*1 Without grounding adapters		0A	0B
*2 With grounding adapters with a 3.2 mm dia. hole	 	1A	1B
*3 With grounding adapters with an M3 thread	 	2A	2B
*4 With grounding adapters with a spring lock device (1)	 	3A	3B
*5 With grounding adapters with a spring lock device (2)	 	—	—

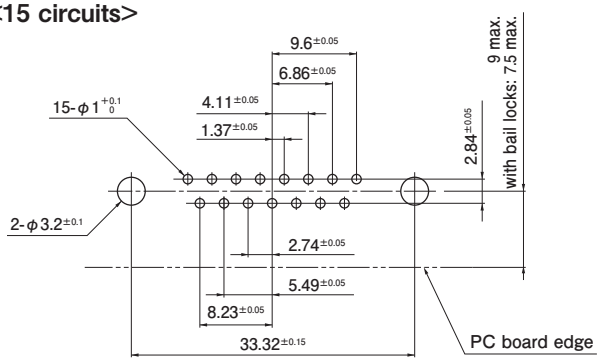
Type C	Type D	Type E	Type F	Type G
				
With rectangular lock screw blocks (H: 6.2 mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)		
		Used a lock screw block [model number JFS-( )S-C1N]	*1: No.4-40UNC inch thread *2: Model number JFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-( )1W(M)
				
0C	0D	—	—	—
1C	1D	1E	1F	1G
2C	2D	2E	2F	—
3C	3D	3E	3F	3G
—	—	—	—	—

PC board layout (viewed from component side)

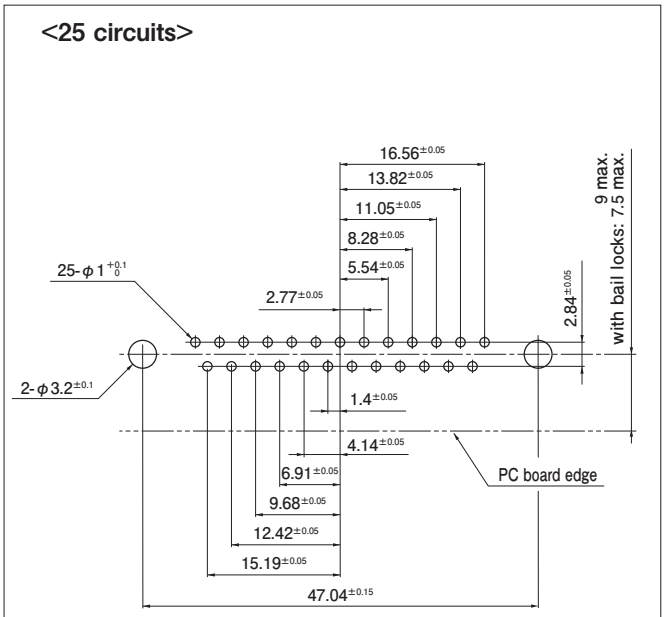
<9 circuits>



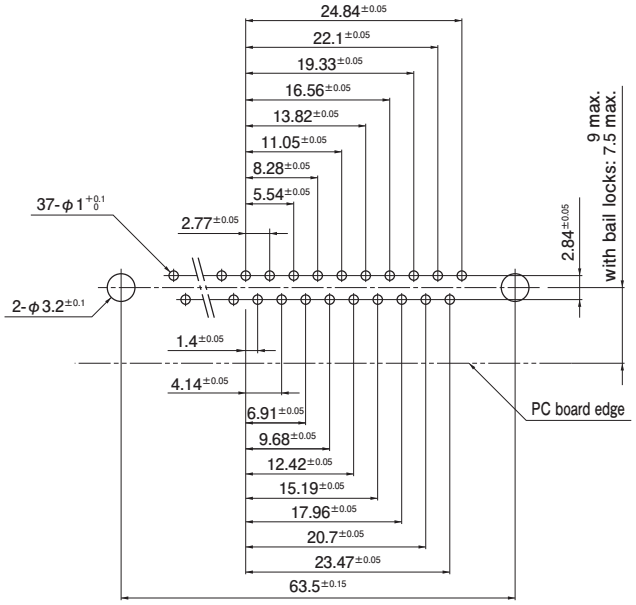
<15 circuits>



<25 circuits>

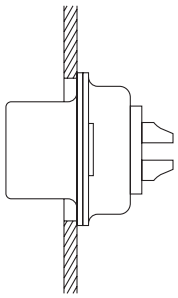
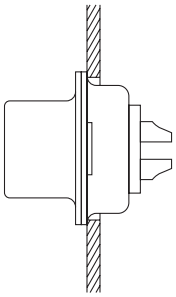


<37 circuits>

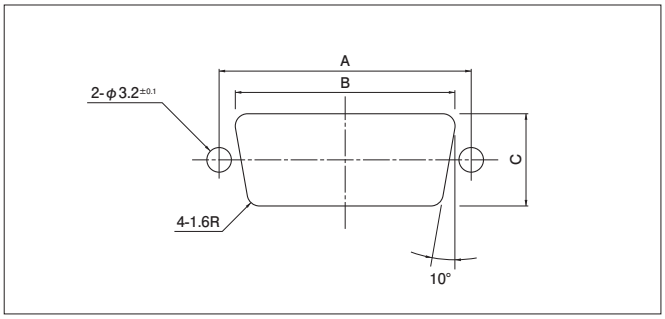


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Panel layout

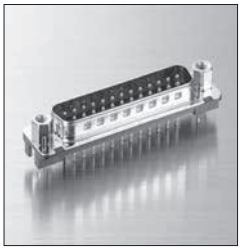
Mounting on the rear side	Mounting on the front side
	

The connector can be mounted either on the front side or on the rear side of the panel as shown above.
Use M2.5 or M2.6 screws for installation.



Circuits	A±0.15	B±0.2	C±0.2
9	24.99	20.6	12.0
15	33.32	28.8	12.0
25	47.04	42.6	12.0
37	63.50	59.0	12.0

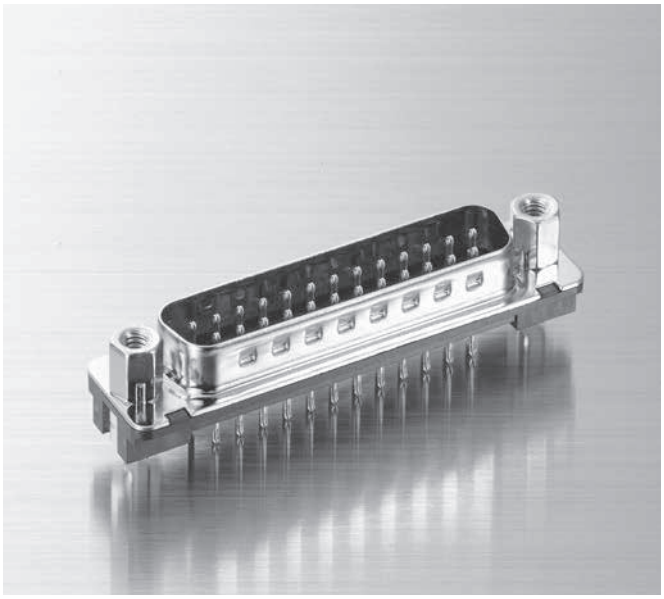
Note: The dimensions above should serve as a guideline.
Contact JST for details.



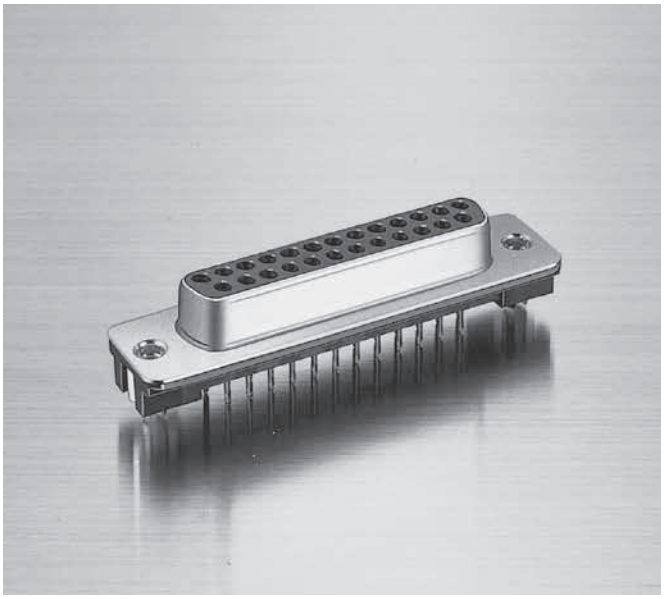
D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole plug and socket

STRAIGHT THROUGH-HOLE PLUG AND SOCKET



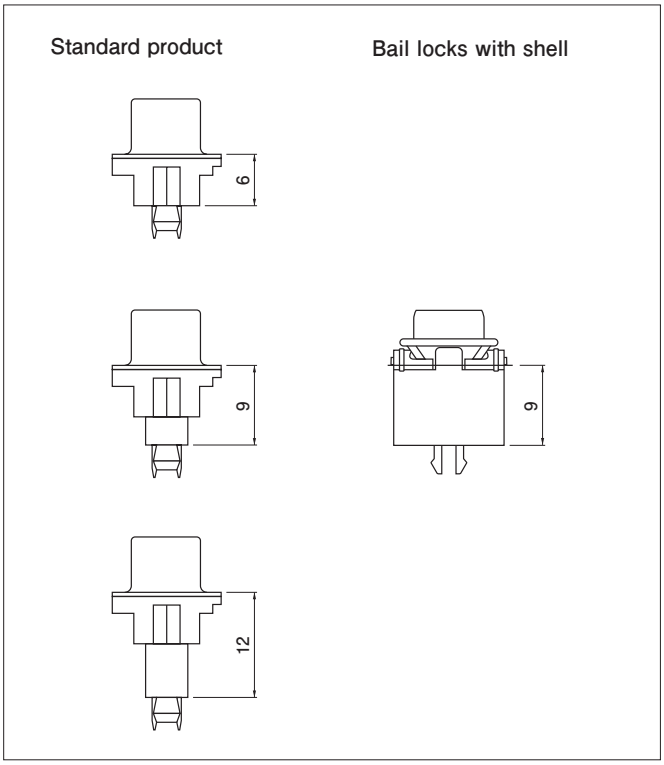
Straight through-hole plug
(with hexagonal lock screw blocks)



Straight through-hole socket (without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- Three standard types are available with different dimensions between the flange and solder tail: 6 mm, 9 mm, and 12 mm.
- The roots of the contact leads are covered to prevent flux from rising into the connector during soldering.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured onto the printed circuit board so that the connector can be soldered easily.



Standards

Recognized E60389
Certified LR20812

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* RoHS2 compliance

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Heaxagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Cutting product	Brass, nickel-undercoated, tin/copper alloy-plated
	Stamping product	Brass, tin-plated (reflow treatment)
Spring lock	Bail lock	Stainless steel
	Accepts bail lock	

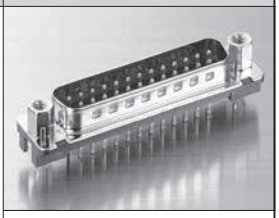
Characteristics

Current rating	3 A AC/DC
Voltage rating	250 V AC/DC
Temperature range	−40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/ 15 mΩ max. After environmental tests/ 30 mΩ max.
Insulation resistance	5,000 MΩ min.
Withstanding voltage	1,000 VAC/minute
Applicable PC board thickness	1.6 mm

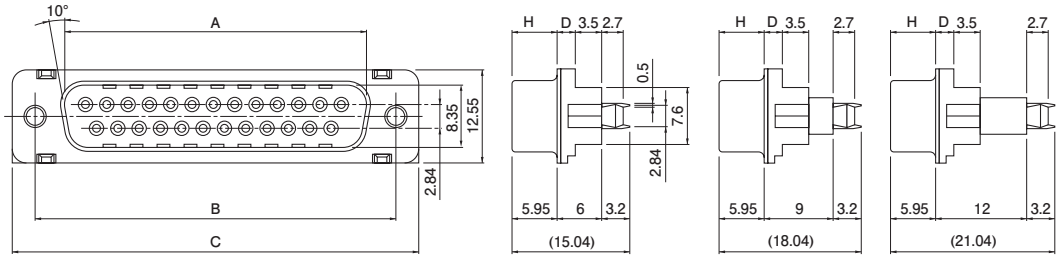
Note: Contact JST for details.

Straight through-hole plug

Type A



With hexagonal lock screw blocks (H: 6.3 mm) having a No.4-40UNC inch thread

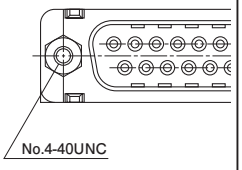


H: Height of the lock screw block (for Types A, B & J)

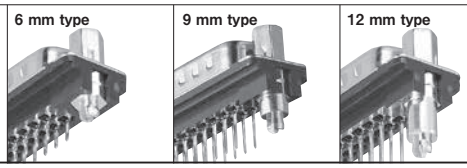
Circuits	Dimension between flange and solder tail (mm)	Model No.		Dimensions (mm)				Q'ty/ box
		Gold-plated (flash) Plug	Gold-plated 0.76 micron	A	B	C	D	
9	6	**JES-9P-2A****	**JES-9P-2A**14**	16.90	24.99	30.8	2.4	100
	9	**JES-9P-3A****	**JES-9P-3A**14**					
	12	**JES-9P-4A****	**JES-9P-4A**14**					
25	6	**JBS-25P-2A****	**JBS-25P-2A**14**	38.97	47.04	53.0	2.5	50
	9	**JBS-25P-3A****	**JBS-25P-3A**14**					
	12	**JBS-25P-4A****	**JBS-25P-4A**14**					

RoHS2 compliance This product displays (LF)(SN) A on a label.

Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6 mm is required, specify the model number as JES-9P-3A3A.



With grounding adapters with a spring lock device



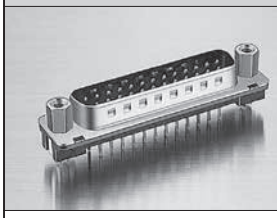
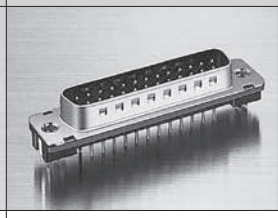
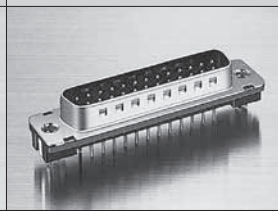
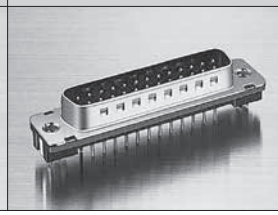
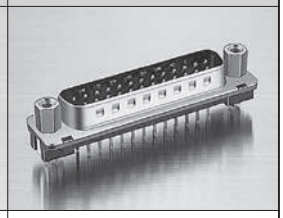
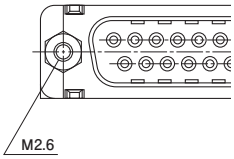
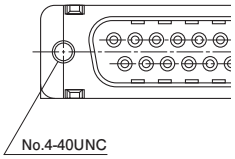
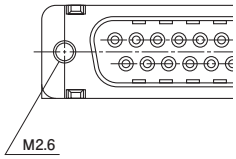
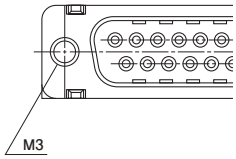
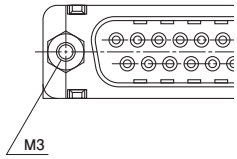
3A

Model number identification

J B S - 25 P - 2A 3 F 14 S1

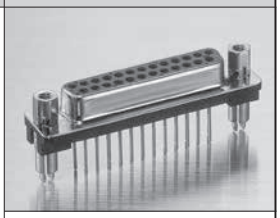
- Series name
- Shell size: B, E
- Wire connection type: S ... Straight through-hole type
- Number of circuits: 9, 25
- Connector type: P ... Plug, S ... Socket
- Connector construction/ dimensions:
  2A ... 6 mm from flange to solder tail, 3A ... 9 mm from flange to solder tail, 4A ... 12 mm from flange to solder tail
- Types of grounding adapter:
  3 ... Grounding adapter with a spring lock device (Cutting product), 7 ... Grounding adapter with a spring lock device (Stamping product)
- Types of lock screw block:
  A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  F ... Without lock screw blocks, but with grounding adapters having an No.4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
  J ... With hexagonal lock screw blocks having an M3 thread
  K ... Without lock screw blocks, spring lock (Bail lock) with shell
- Finish of mating part
  Blank ... Gold-plated (flash) 14 ... 0.76 micron gold-plated 90 ... Tin-plated (reflow treatment)
- Bail locks
  Blank...Without bail locks, S or S1...With bail locks (bent oval type), S2...With bail locks (with addition of spring characteristic, bent oval type),
  S3...With bail locks (with addition of spring characteristic, straight rhombic type), S5...With bail locks (with addition of spring characteristic, straight oval type),
  S6...With bail locks (with addition of spring characteristic, parallel oval type with shell)

Note: 1. In the J Series, the number of circuits is determined by the shell size: 9 circuits for E and 25 circuits for B.
2. Contact JST for special plating requirements.
3. Contact JST for the dimensions between the flange and solder tail other than those listed above.
4. Grounding adapters that can secure printed circuit boards are also available.
5. Contact JST for the Receptacle with spring lock devices. (Not UL/CSA approved.)

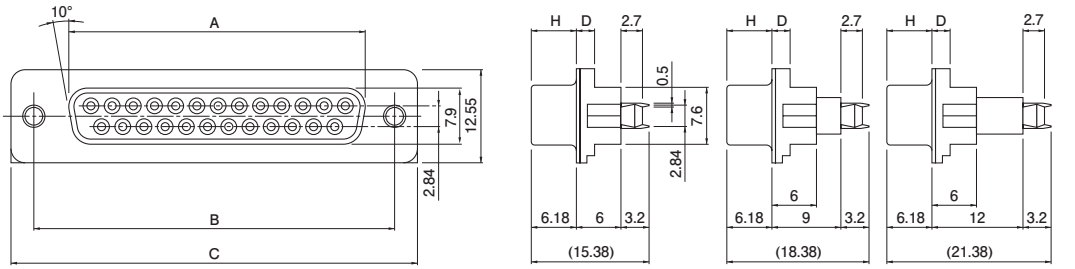
Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3 mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3 mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number SFS-3S-( )1W(M)	
				
3B	3F	3G	3H	3J

Straight through-hole socket / Standard product

Type A



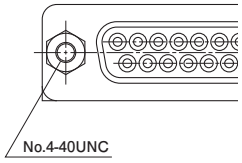
With hexagonal lock screw blocks (H:6.3 mm) having a No.4-40UNC inch thread



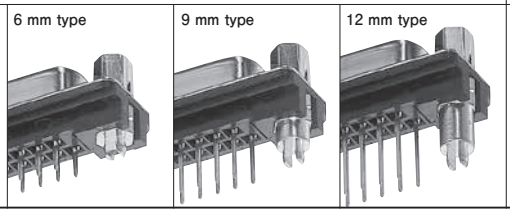
H: Height of the lock screw block (for Types A, B & J)

Circuits	Dimension between flange and solder tail (mm)	Model No.			Dimensions (mm)				Q'ty/ box
		Gold-plated (flash) socket	Gold-plated 0.76 micron	Tin-plated	A	B	C	D	
9	6	JES-9S-2A**	JES-9S-2A**14	—	16.34	24.99	30.8	2.4	100
	9	JES-9S-3A**	JES-9S-3A**14	—					
	12	JES-9S-4A**	JES-9S-4A**14	—					
25	6	JBS-25S-2A**	JBS-25S-2A**14	JBS-25S-2A**90	38.38	47.04	53.0	2.5	50
	9	JBS-25S-3A**	JBS-25S-3A**14	JBS-25S-3A**90					
	12	JBS-25S-4A**	JBS-25S-4A**14	—					

<Gold-plated product> **RoHS2 compliance** This product displays (LF)(SN) A on a label.
<Tin-plated product> **RoHS2 compliance** This product displays (LF) A on a label.
Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6 mm is required, specify the model number as JES-9S-3A3A.

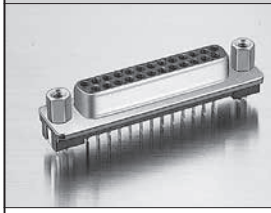


With grounding adapters with a spring lock device

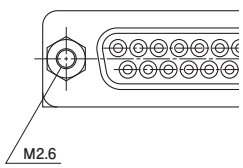


3A

Type B

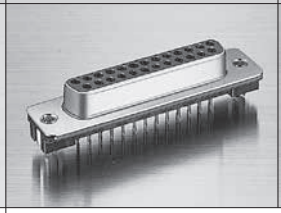


With hexagonal lock screw blocks (H: 6.3 mm) having an M2.6 thread



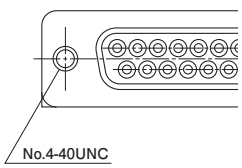
3B

Type F



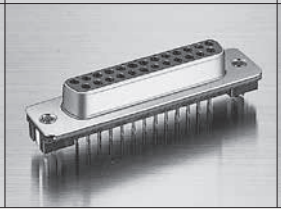
Without lock screw blocks
F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)

*1: No.4-40UNC inch thread
*2: Model number SFS-4S-( )1W(M)

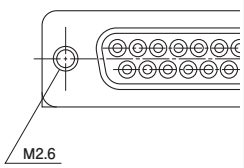


3F

Type G

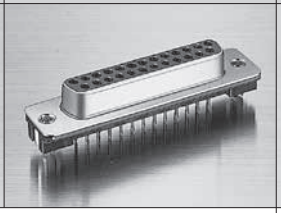


*1: M2.6 thread
*2: Model number SFS-2.6S-( )1W(M)

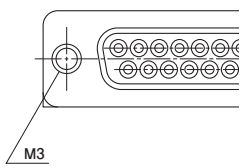


3G

Type H

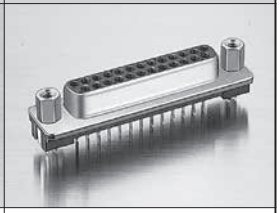


*1: M3 thread
*2: Model number SFS-3S-( )1W(M)

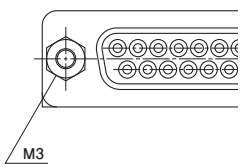


3H
Note: JBS-25S-2A3H is excluded

Type J



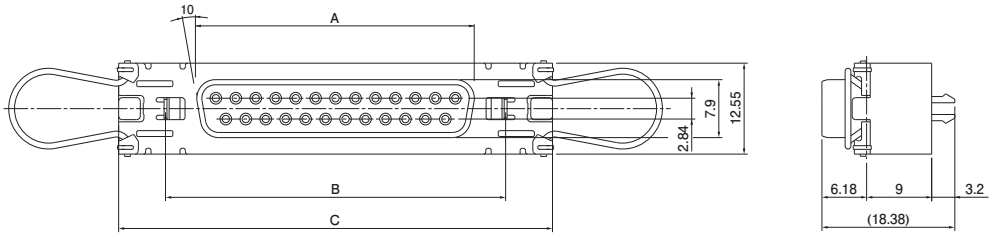
With hexagonal lock screw blocks (H: 6.3 mm) having an M3 thread



3J

Straight through-hole socket / Bail locks with shell

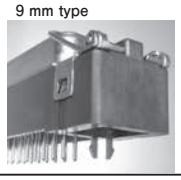
Type K



Circuits	Dimension between flange and solder tail (mm)	Model No. Gold-plated (flash) Socket	Dimensions (mm) A	B	C	Q'ty/ box
9	9	**JES-9S-3A7KS6**	16.34	24.99	38	180
25	9	**JBS-25S-3A7KS6**	38.38	47.04	60	108

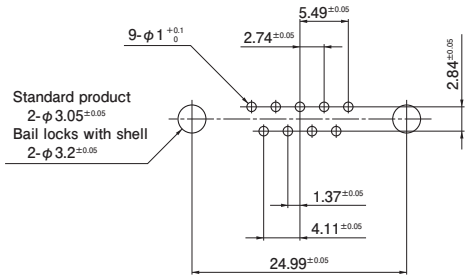
With grounding adapters
with a spring lock device

9 mm type

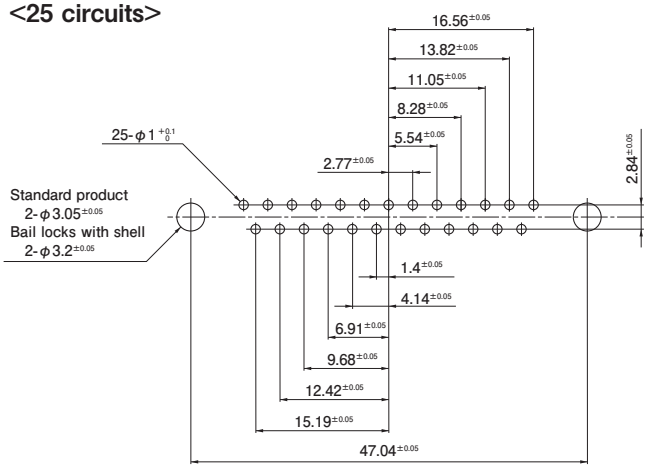


PC board layout (viewed from component side)

<9 circuits>

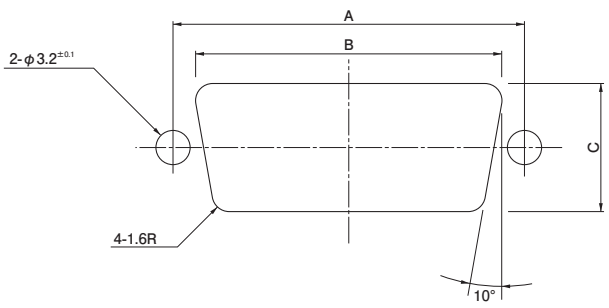


<25 circuits>



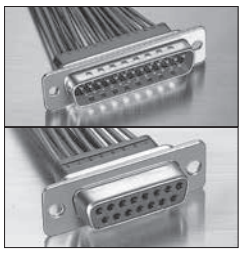
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.
2. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Panel layout



Circuits	A±0.15	B±0.2	C±0.2
9	24.99	20.6	12.0
25	47.04	42.6	12.0

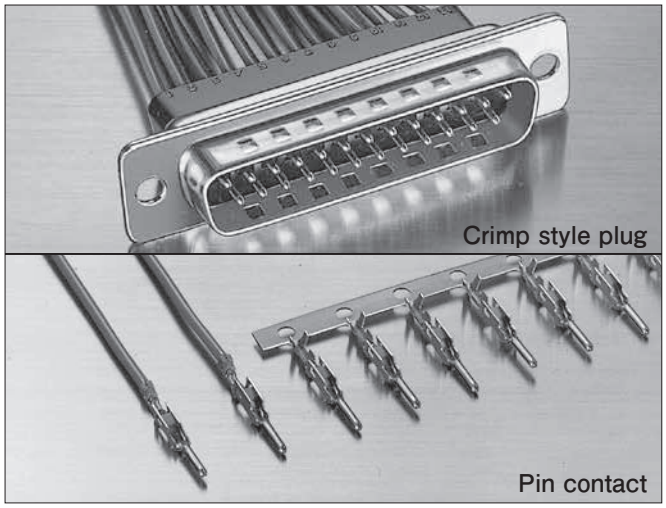
Note: The dimensions above should serve as a guideline. Contact JST for details.



D-SUB MINIATURE CONNECTOR J SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET



Features

- The contacts of this plug are formed by high-speed stamping presses into continuous strips that can be automatically fed into our compact crimping machines. Much less time is required to assemble CRT and RS-232C round cables using this plug than when soldering connections.
- The contacts in this connector are selectively gold-plated. Moreover, JST's advanced technological knowledge and experience are fully utilized to significantly reduce production costs.
- The dimples in the connector shell provide the ground connection and are important factors in preventing electromagnetic interference. The contact has a lance that can be visually checked during assembly. This assures accurate assembly and reduces defects.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) tin-plated product: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, Nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3 A AC/DC (2 A for 37 circuits) (AWG #20)
Voltage rating	250 V AC/DC
Temperature range	−40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/ 15 mΩ max. After environmental tests/ 30 mΩ max.
Insulation resistance	5,000 MΩ min.
Withstanding voltage	1,000 VAC/minute

Note: Contact JST for details.

Model number identification

Contact J - S P 2 1 40

- Series name
- Product shape: S ... Chain
- Type of contact: P ... Pin contact, S ... Socket contact
- Applicable wire: 1 ... AWG #24 to #20, 2 ... AWG #28 to #24
- Material: 1 ... Brass (Pin contact), 3 ... Phosphor bronze (Socket contact)
- Finish: 40 ... Gold-plated (flash), 44 ... 0.76 micron gold-plated, 90 ... Tin-plated (reflow treatment)

Note: Contact JST for special plating requirements.

Housing J - E C - 9 P - 3

- Series name
- Shell size: E, A, B ,C
- Wire connection style: C ... crimp style
- Number of circuits: 9, 15, 25, 37
- Connector type: P ... Plug, S ... Socket
- Plating specification of shell: 3 ... nickel-plated

Note: The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C

Standards

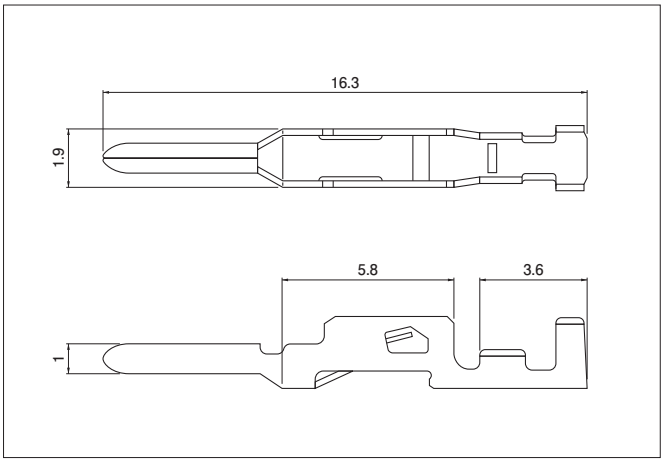
- Recognized E60389
- Certified LR20812

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

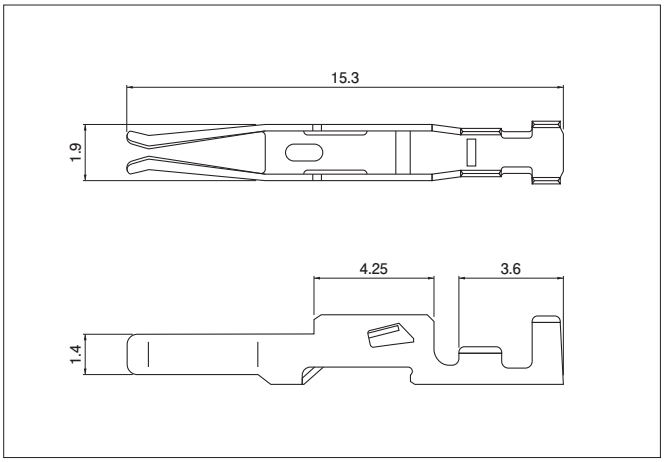
* Contact JST for details.

* RoHS2 compliance

Pin contact (for plug housing)



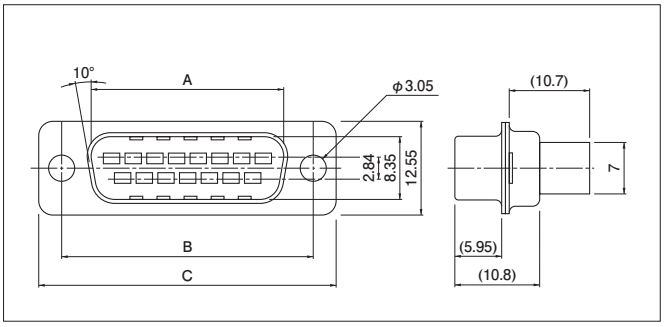
Socket contact (for socket housing)



Model No.			Applicable wire		Q'ty/reel
Pin contact		Socket contact	AWG #	Insulation O.D. (mm)	
Gold-plated	Tin-plated	Gold-plated			
J-SP1140	**J-SP1190**	**J-SS1340**	# 24～# 20	1.1～1.8	10,000
J-SP2140	**J-SP2190**	**J-SS2340**	# 28～# 24	0.9～1.3	

RoHS2 compliance Gold-plated products display (LF)(SN) on a label.

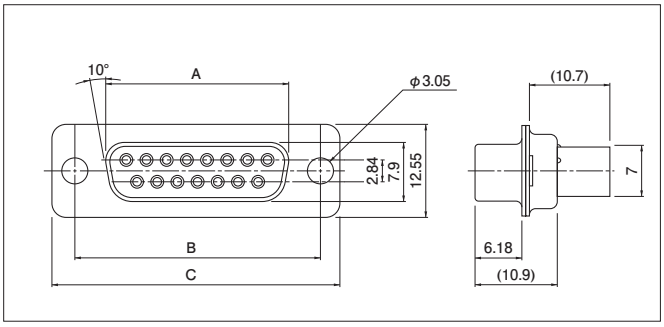
Plug housing



Circuits	Model No.	Dimensions (mm)			Q'ty/box
		A	B	C	
9	**JEC-9P-3**	16.92	24.99	30.80	100
15	**JAC-15P-3**	25.25	33.32	39.14	100
25	**JBC-25P-3**	38.97	47.04	53.04	50
37	**JCC-37P-3**	55.43	63.50	69.32	50

RoHS2 compliance

Socket housing



Circuits	Model No.	Dimensions (mm)			Q'ty/box
		A	B	C	
9	**JEC-9S-3**	16.34	24.99	30.80	100
15	**JAC-15S-3**	24.67	33.33	39.14	100
25	**JBC-25S-3**	38.38	47.04	53.04	50

RoHS2 compliance

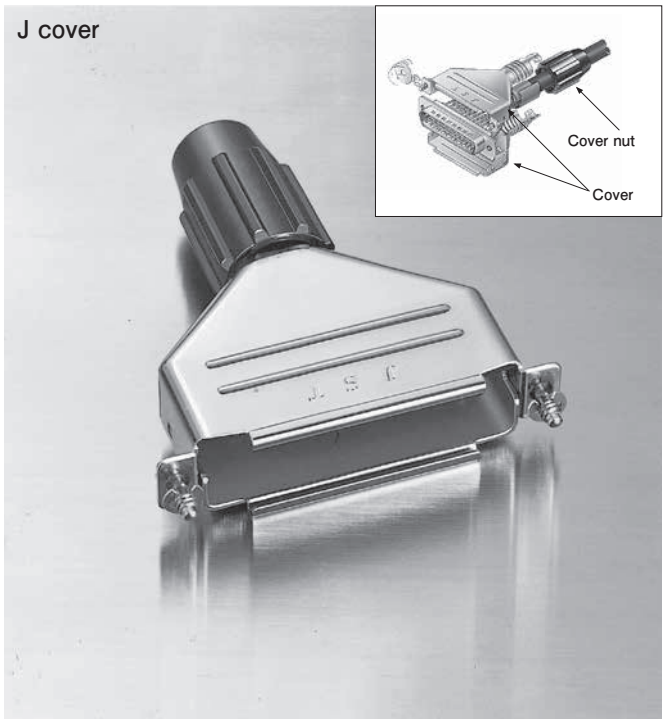
Crimping machine, Applicator

Contact	Crimping machine	Applicator	Crimp applicator with dies
J-SP1* **	AP-K2N	MKS-L	APLMK J-SP/SS1
J-SS1* **			APLMK J-SP/SS1
J-SP2* **			APLMK J-SP/SS2
J-SS2* **			APLMK J-SP/SS2

D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention shielding cover (J cover)

J COVER



Features

- This shielding cover is made of steel, formed by our advanced stamping technology, and nickel-plated.
- The box-shaped cover completely encloses such EMI radiating areas as the connections between the connector and wires. The result is a superior shielding effect.
- To install the shielding cover, simply align and press the upper and lower cover elements, then tighten the nuts. It then securely grips the round cables.
- This cover is so compact, light and sturdy, that it can be used to cover the connectors of any input/output cable. Moreover, it is attractive in appearance.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* RoHS2 compliance

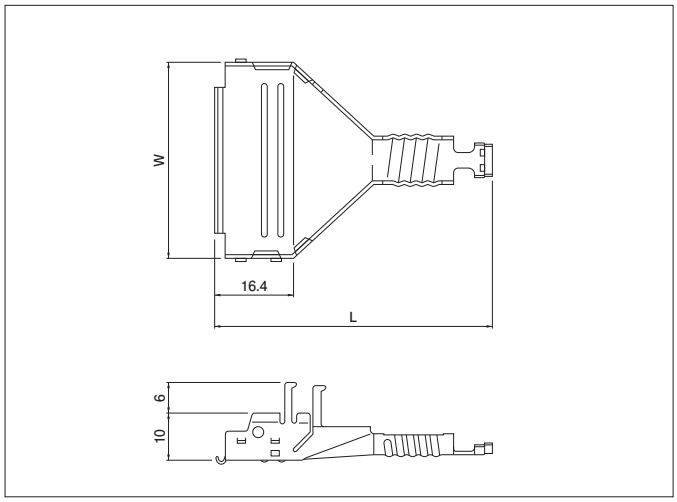
Standards

Recognized E60389

Applicable cable dimensions

Circuits	J series	9	15	25	37
	JK series	15	—	—	—
Cable outer diameter (mm)		7.0 ±0.2		8.0 ±0.2	10.0 ±0.2

Shielding cover A

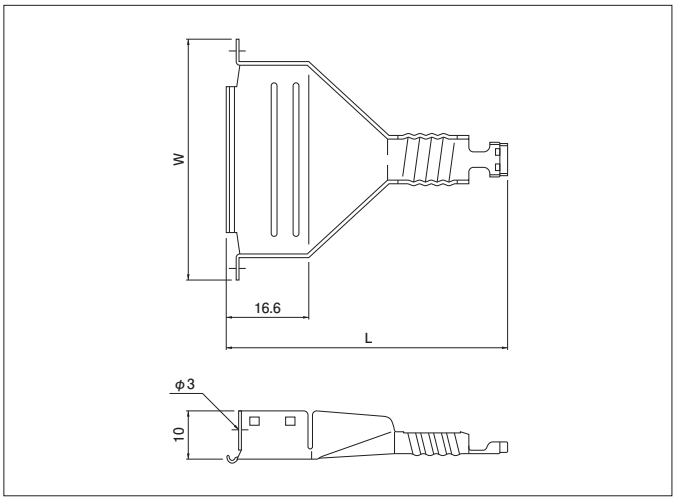


J series		JK series		Dimensions (mm)		Q'ty/box
Circuits	Model No.	Circuits	Model No.	W	L	
9	**J-SC9A**	15	**JK-SC15A**	19.4	42.0	200
15	**J-SC15A**	—	—	27.6	46.9	150
25	**J-SC25A**	—	—	41.4	57.0	100
37	**J-SC37A**	—	—	57.8	70.6	125

Material and Finish
Steel, copper-undercoated, nickel-plated

RoHS2 compliance
Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector, except for the number of circuits indicated.

Shielding cover B

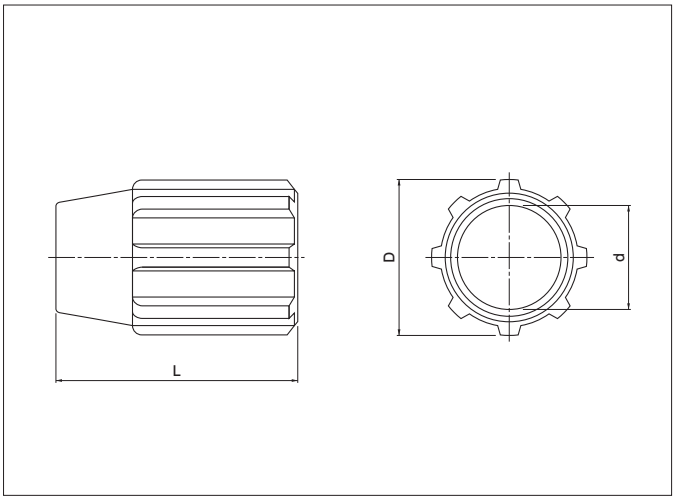


Circuits		Model No.	Dimensions (mm)		Q'ty/box
J series	JK series		W	L	
9	15	**J-SC9B**	30.0	(42.0)	200
15	—	**J-SC15B**	38.0	(46.9)	150
25	—	**J-SC25B**	52.0	(57.0)	150
37	—	**J-SC37B**	68.0	(70.6)	100

Material and Finish
Steel, copper-undercoated, nickel-plated

RoHS2 compliance
Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector.

Cover nut

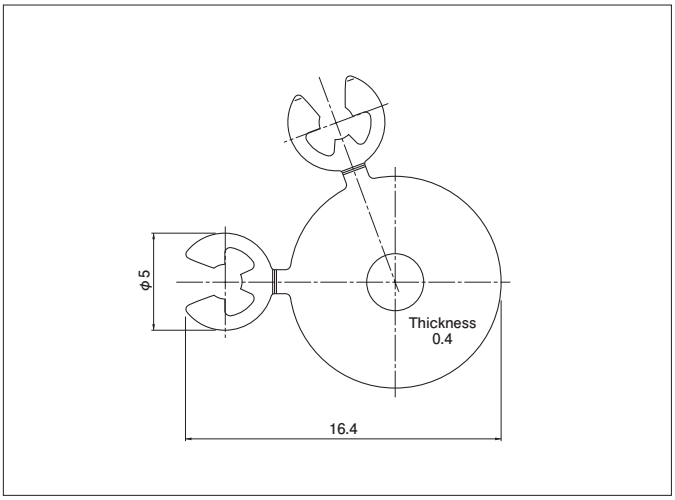


Circuits	Model No.	D	d	L	Q'ty/box
9	**J-CN9・15**	13.6	7.2	19.0	1,000
15					
25	**J-CN25**	16.4	8.4	25.0	1,000
37	**J-CN37**	18.8	10.4	28.0	1,500

Material
Glass-filled, PBT, UL94V-0, black

RoHS2 compliance

E-ring



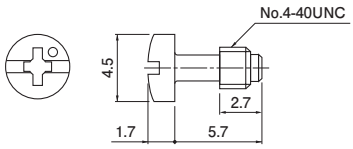
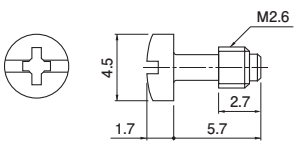
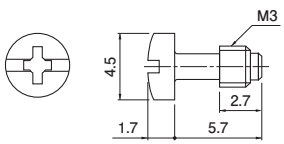
Model No.	Q'ty/box
J-ER	5,000

Material
Stainless steel

RoHS2 compliance

Note: The cover nuts, lock screws and E-rings are used with both the J and JK series connectors.

Lock screw

No.4-40UNC (Inch thread)	M2.6 (Metric thread)	M3 (Metric thread)
		

Type of screw	Model No.	Q'ty/box
No.4-40UNC (Inch thread)	**J-SL-1C**	5,000
M2.6 (Metric thread)	**J-SL-2C**	5,000
M3 (Metric thread)	**J-SL-3C**	5,000

Material and Finish
Steel, copper-undercoated, nickel-plated

RoHS2 compliance

Use the following Model Nos. when ordering J-covers as a set.

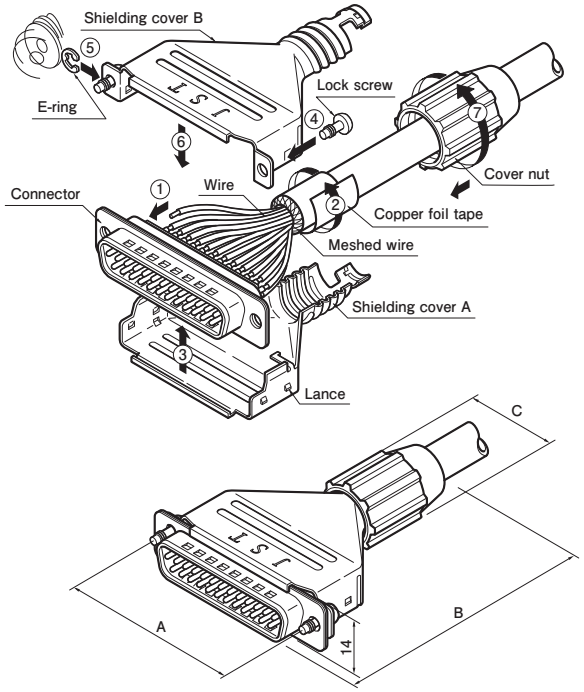
J series		JK series		Parts in one set	Q'ty/box
Circuits	Model No.	Circuits	Model No.		
9	**J-C9-( )C**	15	**JK-C15-( )C**	Shielding cover A ..... 1 pc. Shielding cover B ..... 1 pc. Cover nut ..... 1 pc. Lock screw ..... 2 pcs. E-ring ..... 1 set	25
15	**J-C15-( )C**	–	–		25
25	**J-C25-( )C**	–	–		20
37	**J-C37-( )C**	–	–		10

RoHS2 compliance

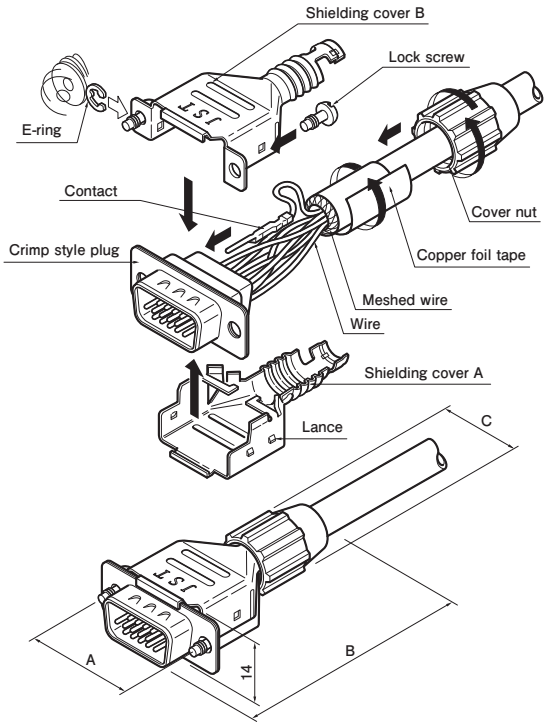
Note: In the above lock screw model numbers, the number in parentheses indicates the type of screw-1: Inch thread (No.4-40UNC), 2: Metric thread (M2.6), 3: Metric thread (M3).

J-cover assembly procedure

J series



JK series



Assembly procedure

1. Connect wires to the connector by soldering or crimping.
2. Fold back the braided shielding wire along the outside insulation and wind the copper foil tape around the shielding wire.
3. Install the connector into shielding cover A.
4. Screw the lock screws onto shielding cover B.
5. Install the E-rings.
6. Align shielding cover B with shielding cover A and press shielding cover B until it engages the lances of shielding cover A.
7. Tighten the cover nut until the predetermined position is reached.

Note: For details of the J-cover assembly procedure, please refer to the processing specifications separately available. The shielding effect of the J-cover is critically dependent on proper assembly.

Dimensions after assembly

Circuits		Dimensions (mm)		
J series	JK series	A	B	C
9	15	24.99	(49.0)	13.6
15	–	33.32	(53.0)	13.6
25	–	47.04	(64.5)	16.4
37	–	63.50	(78.5)	18.9

D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention overmolding cover

MOLD COVER

Features

- This cover completely encloses all wire connections to the connector, and its braided wire crimp section ensures a reliable ground connection. The result is excellent shielding.
- This cover is sturdy enough to withstand the high pressure necessary during overmolding. It can thus be finish-molded directly.

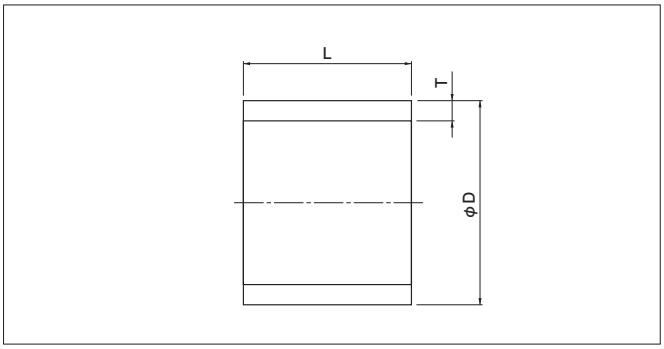
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* RoHS2 compliance

Applicable cable diameter

Circuits		Cable O.D. (mm)
J series	JK series	
9	15	$8.6^{\pm 0.2}$
15	—	$7.6^{\pm 0.2}$
25	—	$8.6^{\pm 0.2}$

Note: Contact JST for cables other than those listed above.

Ferrule

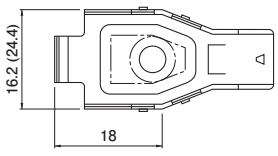


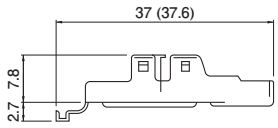
Circuits		Ferrule	Dimensions (mm)		
J series	JK series		φD	T	L
9・25	15	A	8.0	0.5	4.0
		B	11.3	0.6	8.0
15	—	A	7.0	0.5	4.0
		B	10.5	0.6	8.0

RoHS2 compliance

Mold cover A

JK-MC15A-3
J-MC15A

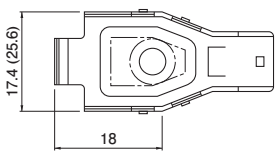


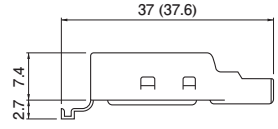


*Dimensions in ( ) are those for the J-MC15A.

Mold cover B

JK-MC15B-3
J-MC15B

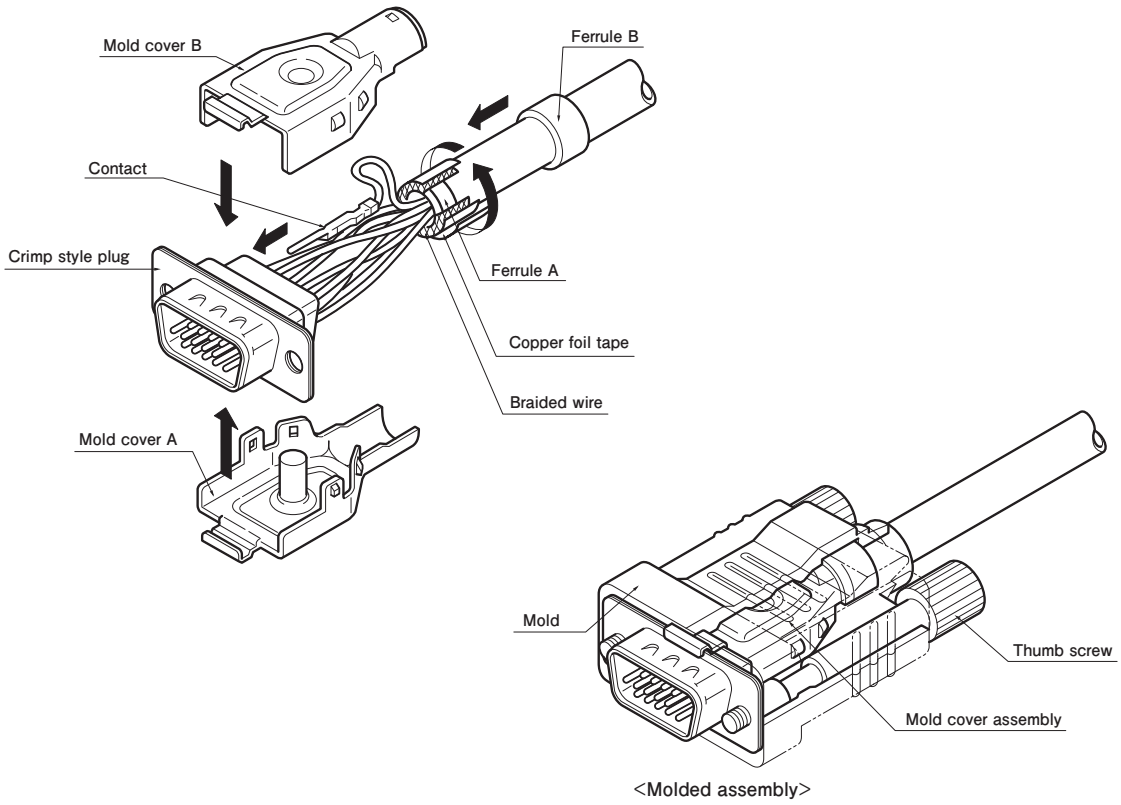




*Dimensions in ( ) are those for the J-MC15B.

RoHS2 compliance

Mold cover assembly procedure



Note: Customers please prepare mold and thumb screws on your own.

Assembly procedure

1. Processing braided shielding wire

Pass the cable through ferrule B and remove the insulation at the end of the cable. Install ferrule A and fold back the braided shielding wire along the outside insulation. Then wind the copper foil tape around the shielding wire.

2. Connecting the wires to the contacts

Connect the wires to the contacts by crimping and insert the contacts into the housing.

3. Assembling the mold covers

Align mold cover B with mold cover A and press mold cover B until it engages the lances of mold cover A. Install ferrule B over the cable holding section of the cover assembly and crimp ferrule B. This completes the assembly.

Circuits		Parts name	Model No.	Material and Finish	Q'ty/bag
J series	JK series				
9	15	Mold cover A	**JK-MC15A-3**	Steel, copper-undercoated, nickel-plated	500
		Mold cover B	**JK-MC15B-3**		
		Ferrule A	**JK-FL15A-8.0C**	Copper, tin-plated	1,000
		Ferrule B	**JK-FL15B-11.3**		500
15	—	Mold cover A	**J-MC15A**	Steel, copper-undercoated, nickel-plated	200
		Mold cover B	**J-MC15B**		
		Ferrule B	**J-FL15B-10.5**	Copper, tin-plated	500

RoHS2 compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator	Crimp applicator with dies
JK-FL15B-11.3	AP-K2N	MKS-L-RG	APLMK JK-MC15
J-FL15B-10.5			APLSC JK-MC15

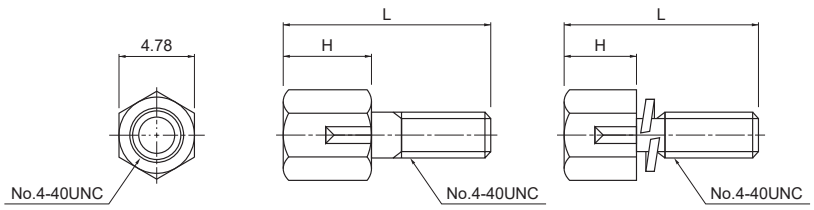
D SUBMINIATURE CONNECTOR J・JH・JK&KH SERIES

Accessories/Lock screw block

A varietly of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK

Hexagonal lock screw block (inch thread: No.4-40UNC)



Type A

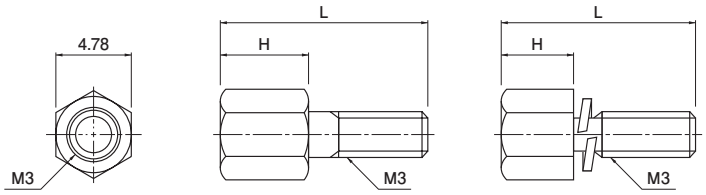
Type B

Hexagonal lock screw & spring washer are integrated

Applicable series / Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty/ box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-4S-C1N	KFS-4S-C1N	–	–	5.5	A	Spring washer .. 1 pc. Nut ..... 1 pc.	2,000
	JFS-4S-B1W	KFS-4S-B1W	SFS-4S-B1W	HFS-4S-B1W	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	KFS-4S-C1W	–	–	5.5			
	JFS-4S-B1WM	KFS-4S-B1WM	SFS-4S-B1WM	HFS-4S-B1WM	4.8	B	–	
	JFS-4S-C1WM	KFS-4S-C1WM	–	HFS-4S-C1WM	5.5			

RoHS2 compliance

Hexagonal lock screw block (metric thread: M3)



Type A

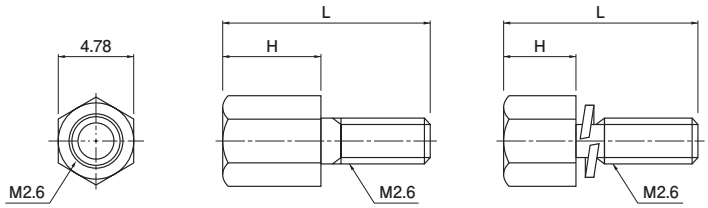
Type B

Hexagonal lock screw & spring washer are integrated

Applicable series / Dimension/ Model No.	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty/ box
Dimension L (mm)	15.0	10.0	11.8				
Model No.	–	SFS-3S-B1W	–	4.8	A	Spring washer .. 1 pc.	2,000
	–	SFS-3S-C1W	HFS-3S-C1W	5.5			
	–	–	–	4.8	B	–	
	KFS-3S-C1WM	–	–	5.5			

RoHS2 compliance

Hexagonal lock screw block (metric thread: M2.6)



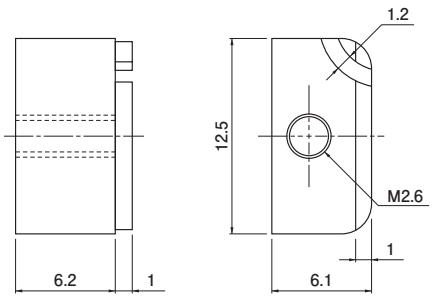
Type A

Type B
Hexagonal lock screw & spring washer are integrated

Applicable series / Dimension/ Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty/ box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	JFS-2.6S-C1N	–	–	–	5.5	A	Spring washer .. 1 pc. Nut ..... 1 pc.	2,000
	JFS-2.6S-B1W	KFS-2.6S-B1W	SFS-2.6S-B1W	–	4.8		Spring washer .. 1 pc.	
	JFS-2.6S-B1WM	–	SFS-2.6S-B1WM	HFS-2.6S-B1WM	4.8	B	–	
	JFS-2.6S-C1WM	–	SFS-2.6S-C1WM	–	5.5			

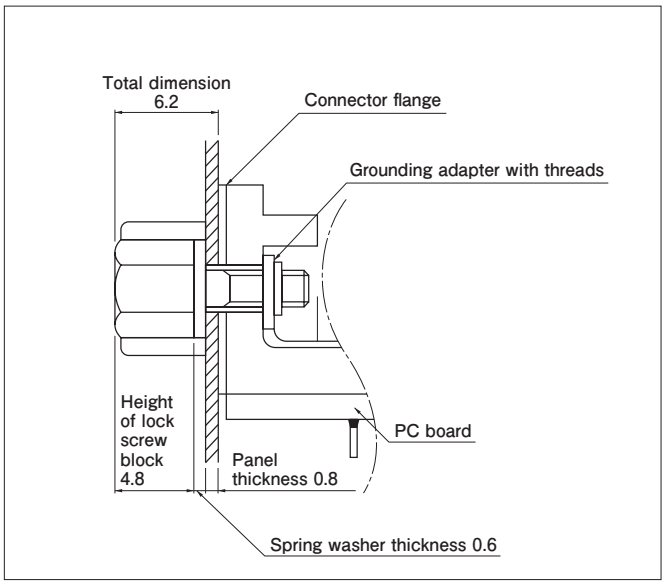
RoHS2 compliance

Rectangular lock screw block (metric thread: M2.6)



Model No.	Attachment	Q'ty/box
JFS-2.6R-N	Spring washer ..... 1 pc. Set screw ..... 1 pc.	1,000

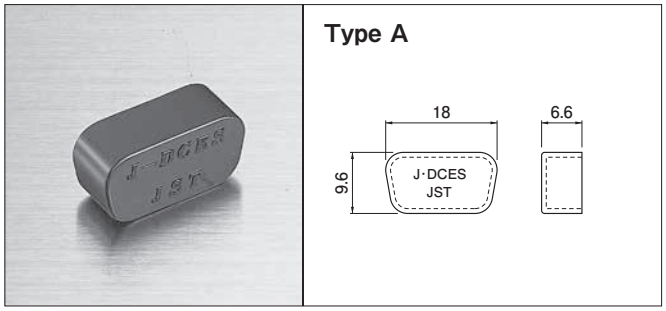
RoHS2 compliance

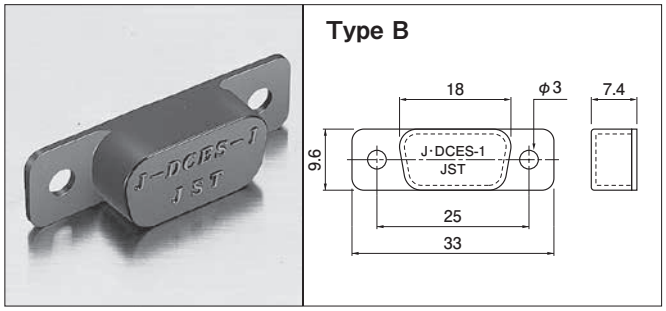


Application examples of hexagonal lock screw blocks

- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2 mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.

DUST COVER (for receptacles)





Type	Circuits		Model No.	Q'ty/box
	J series	JK series		
A	9	15	**J-DCES**	1,000
B			**J-DCES-1**	

Material
PA, UL94V-0, black

RoHS2 compliance

EXTRACTION TOOL

With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		**DEJ-0.3**
JK series	Plug	**KEJ-0.7**
	Receptacle	**KEJ-0.4**