PRODUCT GUIDE

Connectors &

Tooling

Ver 1., July 2025

Board to Wire

Board In

Wire to Wire

Hand Crimper

Applicator







About Us

Japan Automatic Machine (J.A.M.) is a Japanese technology company with over **90** years of experience, delivering innovative solutions for all kinds of industries. We provide advanced manufacturing support through:

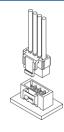
Connectors – Ultra-fine pitch solutions for high-density electronic applications **Crimping Machines** – Automatic systems for high-quality wire harness processing **Precision Tooling** – High-accuracy tools for complex component manufacturing

With a commitment to **Japanese quality**, a **global mindset**, and trusted by industry leaders worldwide, J.A.M. helps power the future of manufacturing.



Please scan the QR code to learn more about us.







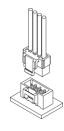
Pitch		1.0 mm			
Series Name	SYB	SYA	SYT	SYW	
Picture					
SMT / DIP	SMT	SMT	SMT	SMT	
Rows and Poles	Single: 2-15P	Single: 2-15P	Single: 3-15P	Dual: 18,20,30,40P	
Rated Voltage	AC.DC50V	AC.DC50V	AC.DC50V	AC.DC50V	
Rated Current	AWG 28-30: 1A AWG 32: 0.8A	AWG 28-30: 1A AWG 32: 0.8A	AWG 28-30: 1A AWG 32: 0.8A	1A	
Temperature Range	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	
AWG Range	28-32	28-32	28-32	28-32	
Straight / Right Angle	Right Angle	Both	Both	Both	
Remarks / Features	Super low-profile design (2 mm) Side spring lock structure Insertion guide Reinforcing tab	Low profile design (4.3 mm) Insertion guide Back rest	Double arm lock system Vacuum area structure for easy pickup Structure to prevent mismating	Prevents terminal deformation during harness processing Low mating force Locking mechanism Insertion guide	

Pitch	1.25 mm		1.5	5 mm
Series Name	STA	STW	SZ	SZT
Picture				A STATE OF THE PARTY OF THE PAR
SMT / DIP	SMT	SMT	DIP	Both
Rows and Poles	Single: 2-15P	Dual: 8-40P (even numbers)	Single: 2-16P	Single: 2-14P
Rated Voltage	AC.DC50V	AC.DC50V	AC.DC125V	AC.DC125V
Rated Current	1.5A	Right Angle: 1.2A Straight: 1.5A	1A	AWG 24: 2A AWG 26-28:1A
Temperature Range	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C
AWG Range	26-30	26-30	26-30	24-28
Straight / Right Angle	Both	Both	Both	Both
Remarks / Features	Low insertion force Round shape design Lock mechanism	Round shape design Vacuum area structure for easy pickup Low profile	Prevention of misinsertion Protection against prying Compact design	Low profile design (8.2 mm) Double arm lock system Structure prevents defective connection



• Multifunctional wide lock

system



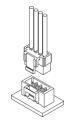


Pitch	1.5 mm	2.0 mm		
Series Name	SZW	SJA	SJH	SB
Picture		TOTAL	The state of the s	
SMT / DIP	SMT	Both	Both	DIP
Rows and Poles	Dual: 8-40P (even numbers)	Single: 2-13P	Single: 2-16P	Single: 2-15P
Rated Voltage	AC.DC125V	AC.DC250V	AC.DC250V	AC.DC250V
Rated Current	AWG 26-28: 1A*	3A	3A	2A
Temperature Range	-40~+85°C	-40~+85°C	-40~+85°C	-25~+85°C
AWG Range	24-28	22-30	22-30	22-33
Straight / Right Angle	Both	Both	Both	Both
Remarks / Features	*AWG: 24 = Straight : 2A Right angle: 1,5A • Low insertion force	Multi insertion guide and back rest Round shape design	Outer lock design Ribs to prevent wrong engagement	Structure prevents misinsertion Prevents prying and flux floating

Pitch		2.0	mm	
Series Name	SNR	SN	SDA	WLS
Picture				
SMT / DIP	DIP	DIP	DIP	Both
Rows and Poles	Single: 2-6P, 16-20P	Single: 2-16P	Dual: 8-40P (even numbers)	Dual: 8-40P (even numbers)
Rated Voltage	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V
Rated Current	3A	2A	3A	3A
Temperature Range	-25~+85°C	-25~+85°C	-40~+85°C	-25~+85°C
AWG Range	22-28	22-28	22-28	22-28
Straight / Right Angle	Straight	Both	Both	Both
Remarks / Features	Thin shaped potting connector Double arm lock system Many security mechanisms like guide ribs colored keying etc. User-selectable retainer and boss system	Inner lock system Optional retainer Wafers for potting also available	Low insertion force Round shape design Box structure to prevent mismating	Outer lock Ribs to avoid wrong insertion Housing and contacts compatible with wire to wire RJW connector



• Soft inner lock



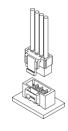


Pitch	2.0	mm	2.5	mm
Series Name	NKS	NKW	SMH	sc
Picture				
SMT / DIP	SMT	SMT	DIP	DIP
Rows and Poles	Single: 2-12P	Dual: 8-20P (even numbers)	Single 2-13P	Single: 2-16,18,20P
Rated Voltage	AC.DC50V	AC.DC50V	AC.DC250V	AC.DC250V
Rated Current	3A	3A	3A	3A
Temperature Range	-40~+125°C	-40~+125°C	-40~+85°C	-25~+85°C
AWG Range	22-24 (0.3-0.22mm²)	22-24 (0.3-0.22mm²)	22-28	18-32
Straight / Right Angle	Both	Both	Both	Both
Remarks / Features	Designed for automotive applications High vibration, impact and temperature resistance Solder peg for enhanced peel strength Side retainer	Designed for automotive applications High vibration, impact and temperature resistance Solder peg for enhanced peel strength Side retainer	Outer lock Ribs to avoid wrong insertion	Prevents misinsertion due to a perfect fit lock Protection from prying and flux floating Compact design Wafer for potting available

Pitch	2.5 mm	2.54 mm	3.96 mm	
Series Name	SRM	SMD	SVK	SEW
Picture				
SMT / DIP	DIP	DIP	DIP	DIP
Rows and Poles	Single: 2-10P	Dual: 10-40P (Even numbers)	Single: 2-10P	Dual: 4, 8, 10, 12, 14, 16, 18, 20P
Rated Voltage	AC.DC250V	AC.DC250V	AC.DC300V	AC.DC300V
Rated Current	3A	3A	10A	7A
Temperature Range	-25~+90°C	-40~+85°C	-25~+105°C	-25~+105°C
AWG Range	22-28	22-28	16-24	16-20
Right Angle	Straight	Both	Both	Both
Remarks / Features	Inner lock and housing lance structure Optional double structure of retainer Wafer for potting available	Outer lock Ribs to prevent wrong insertion Housing is the same as RMD connector	Outer lock Wafers for potting also available	Low insertion force Round shape design Prevents mismating

• Soft inner lock





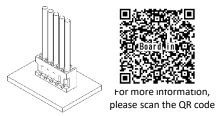


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Pitch	4.2 mm	7.5 mm	7.92 mm
Series Name	SRV	SF	SFP
Picture			
SMT / DIP	DIP	DIP	DIP
Rows and Poles	Single : 2-3P Dual: 4, 6, 8, 12, 14, 16, 18P		Single: 2P
Rated Voltage	Rated Voltage AC.DC300V		AC.DC600V
Rated Current	10A	10A	10A
Temperature Range	-25~+105°C	-25~+105°C	-25~+85°C
AWG Range	16-24	16-24	16-20
Straight / Right Angle	Straight	Both	Right Angle
Remarks / Features	Inner lock Housing lance structure Optional double stopper structure of adopting retainer Wafers for potting also available	High contact reliability Positive lock and adopted housing lance structure Prevents prying insertion and removal	The industries first low-profile power connector Flat design with center lock Front bus to prevent upwards slant during mating process Halogen free



Board In Connectors

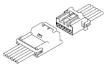


Pitch	1.5 mm	2.0	mm	2.5 mm
Series Name	JZ	JB	JBP	JC
Picture				
SMT / DIP	DIP	DIP	DIP	DIP
Rows and Poles	Single: 2-15P	Single: 2-16P	Single: 2-15P	Single: 2-15P
Rated Voltage	AC.DC200V	AC.DC250V	AC.DC250V	AC.DC250V
Rated Current	1A	2A	1A	3A
Temperature Range	-20~+85°C	-20~+85°C	-20~+85°C	-20~+85°C
AWG Range	28-30	24-30	26-30	22-30
Straight / Right Angle	Both	Both	Straight	Both
Remarks / Features	Housing is commonly used for both right angle and straight	Housing is commonly used for both right angle and straight	• 3.0 mm mounting height	5.9 mm mounting height Housing is commonly used for both right angle and straight

Pitch	2.5 mm	3.96 mm	N.A.
Series Name	PD054	JE	Single Board In
Picture			
SMT / DIP	DIP	DIP	DIP
Rows and Poles	Single: 2-15P	Single: 2-10P	1P
Rated Voltage	Rated Voltage AC.DC250V		-
Rated Current 3A		7A	-
Temperature Range	Temperature Range -40~+100°C		-
AWG Range	22-28	16-22	-
Straight / Right Angle	Straight	Straight	-
Remarks / Features	• 5.5 mm mounting height	3.96 mm pitch Smooth clicking insertion into board	



Wire to Wire Connectors





For more information, please scan the QR code

Pitch	2.0 mm			2.5 mm
Series Name	RJP	RJA	RJW	RMH
Picture				
Rows and Poles	Dual: 8, 10, 12, 14P	Single: 2, 3, 4, 6P Dual: 6, 8P	Dual: 8-40P (Even numbers)	Single 2-13P
Rated Voltage	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V
Rated Current	2A	2A	2A	3A
Temperature Range	-25~+85°C	-25~+85°C	-25~+85°C	-40~+85°C
AWG Range	22-30	22-30	22-28	22-28
Remarks / Features	Inertia lock system Two different types of terminals available Lock guard Guide ribs to prevent misinsertion Optional double stopper structure of retainer Housing material: PBT	Inertia lock system Two different types of terminals available Lock guard Guide ribs to prevent misinsertion Optional double stopper structure of retainer Housing material: Nylon66	Outer lock Guide ribs to prevent misinsertion Plug housing is compatible with board to wire SJW connector Panel lock structure	Outer lock Guide ribs to prevent misinsertion Plug housing is compatible with board to wire SMH connector Panel mount housings are also available

Pitch	2.5 mm	2.54 mm	4.2	mm
Series Name	RM	RMD	RVA	RV
Picture				
Rows and Poles	Single: 2-7, 10P	Dual: 20, 30, 40P	Single: 1-3P Dual: 4, 6P	Single: 1-3P Dual: 4, 6, 8, 10, 12, 14, 16, 18P
Rated Voltage	AC.DC250V	AC.DC250V	AC.DC 600V	AC.DC600V
Rated Current	3A	3A	10A	10A
Temperature Range	-25~+90°C	-40~+85°C	-25~+105℃	-25~+105°C
AWG Range	22-28	22-28	16-24	16-24
Remarks / Features	Inner lock and housing lance structure Optional double stopper structure of retainer	Outer lock Guiding ribs to prevent misinsertion Plug housing is compatible with board to wire SMD connector Panel lock structure	High contact reliability Retainers can be selected according to application Two types of terminals are available to accommodate a wide range of wire sizes Terminal housings can be shared with SRV connectors for board-to-wire	High contact reliability Inner lock Optional double stopper structure of retainer Protection structure for terminal misinsertion into housing Panel mount housings also available



Our Most Popular General Applicators

While 30mm stroke applicators are common with Japanese manufacturers, 40mm stroke applicators are more popular with manufacturers internationally.

Stroke	40 mm		40 mm 30 mm	
Model	ES40 EE30		AS41	AE31
Picture				
Side Type / End Type	Side Type	End Type	Side Type	End Type
Suitable fully automatic crimping machine	2T: ES40	2T: EE30	2T: AS40 4T : AS80	2T: AE30 4T: AE70
Suitable manual crimping machine	2T: ES41D	2T: EE31D	2T: AS41 4T: AS81	2T: AE31 4T: AE71
Notes	usable with either 30mm stroke press or 40mm stroke press by changing the feed cam mounting position.	usable with either 30mm stroke press or 40mm stroke press by changing the feed cam mounting position.	Interchangeable between fully automatic and manual crimp by changing feeding cam and cam lever	Interchangeable between fully automatic and manual crimp by changing feeding cam and cam lever

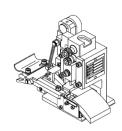
Hand Crimper Selection Guide

Terminal Number	Connector Series	Hand Crimper
720462	SNR	HT-720462LW
725411	RM / RMH	HT-725411LW
742764	SVK / RV / SRV / SF	HT-742764LW
725412	SMH / RM / RMH / SRM	HT-725412LW
720374	SJA / SJH / SB	HT-720374LW
508310	JB	HT-508310LW
510420	JC	HT-510420LW
510430	JC	HT-510430LW
710112	SYA	HT-710112CW
742462	SVK / RV / SRV / SF	HT-742462LW
508320	JB	HT-508320CW
910461	-	HT-910461LW
742411	RV	HT-742411LW
740712	SEW	HT-740712LW
720474	SJA / SJH / SB	HT-720474LW
507110/507130	JZ	HT-507110CW
507120	JZ	HT-507120CW





Applicator Selection Guide



Board to Wire Connectors

Connector	Terminal	30mm Stroke	40mm Stroke
NKS	720402-2MAC	EXX048300	ES40/41D-720402
CANI	720402-5MAC	LXX048300	1340/410-720402
NKW	720402-2MAC	EXX048300	ES40/41D-720402
11100	720402-5MAC	27010-10300	2340/412 720402
SYB	710106-2MAC	EXS-47600	ES40/41D-710106
SYA	710112-2MAC	TJS-39000	ES40/41D-710112
SYT	710112-2MAC	TJS-39000	ES40/41D-710112
SYW	710111-2MAC	EXX040800	ES40/41D-710111
STA	712215-2MAC	TJS-46200	ES40/41D-712215
JIA	712217-2MAC	CXX003300	ES40/41D-712217
STW	712211-2MAC	TJS-45800	ES40/41D-712211
SZ	715162-2MA	JC-4100	ES40/41D-715162
SZT	715262-2MAC	TJS-40400-EE	ES40/41D-715262
SZW	715311-2MAC	TJS-43300	ES40/41D-715311
SJA	720374-2MAC	JB-9800	ES40/41D-720374
SJA	720474-2MAC	TJS-17200	ES40/41D-720474
SJH	720374-2MAC	JB-9800	ES40/41D-720374
SJH	720474-2MAC	TJS-17200	ES40/41D-720474
	720464 2144	TJS-07900	5540/440 730454
	720164-2MA	TJS-07900A	ES40/41D-720164
SB	720364-2MA	l I	ES40/41D-720364
	720374-2MAC	JB-9800	ES40/41D-720374
	720464-2MA	TIC 17200	ES40/41D-720464
	720474-2MAC	TJS-17200	ES40/41D-720474
SNR	720462-2MAC	TJS-42600	ES40/41D-720462
SN	720460-2MA	TJS-42600	ES40/41D-720460
SDA	720490-2MAC	TJS-45100	ES40/41D-720490
C.II	720468-2MAC	TJS-33600	ES40/41D-720468
SJW	720470-2MAC	TJS-35200	ES40/41D-720470
SMH	725412-2MAC	TJS-18000	ES40/41D-725412

Connector	Terminal	30mm Stroke	40mm Stroke	
	725162-2MAK	TJS-07500	ES40/41D-725162	
SC	725462-2MAK	JC-3300	ES40/41D-725462	
	725662-2MAK	TJS-17500	ES40/41D-725662	
SRM	725412-2MAC	TJS-18000	ES40/41D-725412	
CMD	725416-2MAC	TJS-24800	FC40/44D 73F446	
SMD	725416-7AC	TJS-24800A	ES40/41D-725416	
	742462-2MA			
	742462-2MAC	TJS-13400	ES40/41D-742462	
SVK	742462-2MAF			
	742764-2MA			
	742764-2MAC	TJS-13500	ES40/41D-742764	
SEW	740712-2MA	TJS-46700	ES40/41D-740712	
	742462-2MA			
	742462-2MAC	TJS-13400	ES40/41D-742462	
SRV	742462-2MAF			
	742764-2MA			
	742764-2MAC	TJS-13500	ES40/41D-742764	
	742462-2MA			
	742462-2MAC	TJS-13400	ES40/41D-742462	
SF	742462-2MAF			
	742764-2MA			
	742764-2MAC	TJS-13500	ES40/41D-742764	
SFP	742766-2MAC	TJS-43200	ES40/41D-742766	



J.A.M. applicators are designed to crimp a wide variety of terminals. Our applicators are manufactured to provide high crimping reliability and increased productivity.

While 30mm stroke applicators are common with Japanese manufacturers, 40mm stroke applicators are more popular with manufacturers internationally.

Board In Connectors

Connector	Terminal	30mm Stroke	40mm Stroke
	507110-2MA	JC-1200	ES40/41D-507110
JZ	507120-2MA	JC-1300	ES40/41D-507120
	507130-2MA	JC-1200	ES40/41D-507130
	508310-2MA		
	508310-2MAB	JB-9500	ES40/41D-508310
JB	508310-2MAF		
	508320-2MA	ID 0600	FC40/41D F09220
	508320-2MAC	JB-9600 ES40/41D-508	ES40/41D-508320
JBP	508250-2MA	TJS-16800	ES40/41D-508250
	510430-2MA	JC-2300	ES40/41D-510430
ıc	510430-2MAC	JC-2300	ES40/41D-510430
JC JC	510420-2MA	10 2200	5540/445 540400
	510420-2MAC	JC-2200 ES40/41D-510420	ES4U/41D-51U42U
PD054	510353-2MAN	MCS-14100A	ES40/41D-510353
JE	521600-2MAK	TJS-02600	ES40/41D-521600

Wire to Wire Connectors

Connector	Terminal	30mm Stroke	40mm Stroke
RJA	720451-2MAC	TJS-47300	ES40/41D-720451
	720450-2MAC		ES40/41D-720450
	720251-2MAC	CXX005500	ES40/41D-720251
	720250-2MAC		ES40/41D-720250
	720451-2MAC	TJS-47300	ES40/41D-720451
RJP	720450-2MAC		ES40/41D-720450
KJP	720251-2MAC		ES40/41D-720251
	720250-2MAC	CXX005500	ES40/41D-720250
	720467-2MAC	TJS-35200	ES40/41D-720467
RJW	720469 28486	TJS-33600	ES40/41D-720468
	720468-2MAC	TJS-35200	E34U/41D-/2U468
RMH	725411-2MAC	TIC 10000	ES40/41D-725411
UIVIN	725412-2MAC	TJS-18000	ES40/41D-725412
RM	725411-2MAC	TJS-18000	ES40/41D-725411
KIVI	725412-2MAC		ES40/41D-725412
RMD	706417-2MA	TJS-23300	ES40/41D-706417
KIVID	725416-2MAC	TJS-24800	ES40/41D-725416
	742411-2MA	TIC 12400	ES40/41D-742411
	742411-2MAC	TJS-13400	
	742713-2MA		ES40/41D-742713
	742713-2MAC	TJS-13500	
RV	742462-2MA	TIC 42400	ES40/41D-742462
	742462-2MAC	TJS-13400	
	742764-2MA		ES40/41D-742764
	742764-2MAC	TJS-13500	
	742764-2MAH		
	742450-2MAC	CXX099500	ES40/41D-742450
RVA	742451-2MAC		ES40/41D-742451
NVA	742650-2MAC	CXX099400	ES40/41D-742650
[742651-2MAC		ES40/41D-742651

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