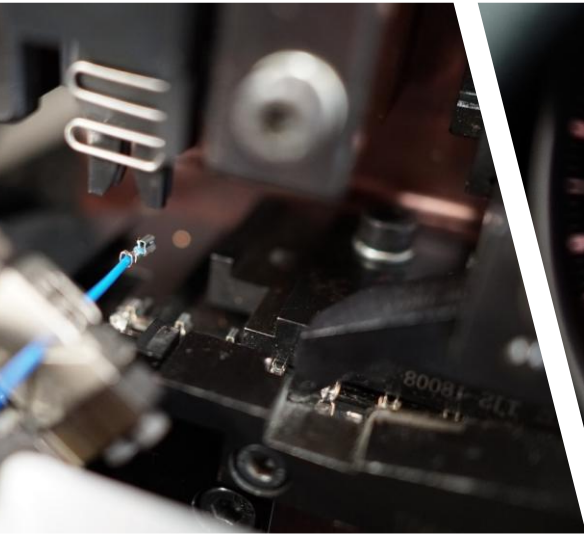




# PRODUCT GUIDE

## Connectors & Application Tooling



# About Us

**Japan Automatic Machine (J.A.M.)** is a Japanese technology company with over **90** years of experience, delivering innovative solutions for all kind of industries.

We provide advanced manufacturing support through:

**Connectors** – Ultra-fine pitch solutions for high-density electronic applications

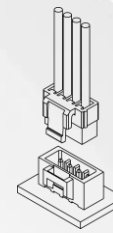
**Crimping Machines** – Automatic systems for high-quality wire harness processing

**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.

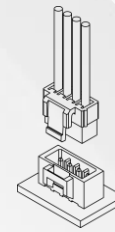


# Board to Wire Connectors



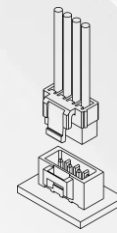
Pitch	1.0 mm				1.25 mm		1.5 mm		
Series Name	SYB	SYA	SYT	SYW	STA	STW	SZ	SZT	SZW
Click the picture for more information									
<b>SMT / DIP</b>	SMT	SMT	SMT	SMT	SMT	SMT	DIP	Both	SMT
<b>Rows and Poles</b>	Single: 2-15P	Single: 2-15P	Single: 3-15P	Dual: 18,20,30,40P	Single: 2-15P	Dual: 8-40P (even numbers)	Single: 2-16P	Single: 2-14P	Dual: 8-40P (even numbers)
<b>Rated Voltage</b>	AC.DC50V	AC.DC50V	AC.DC50V	AC.DC50V	AC.DC50V	AC.DC50V	AC.DC125V	AC.DC125V	AC.DC125V
<b>Rated Current</b>	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	1.5A	Right Angle: 1.2A Straight: 1.5A	1A	AWG 24: 2A AWG 26-28:1A	AWG 26-28: 1A*
<b>Temperature Range</b>	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C	-40~+85°C
<b>AWG Range</b>	28-32	28-32	28-32	28-32	26-30	26-30	26-30	24-28	24-28
<b>Orientation (Right Angle/ Straight)</b>	Right Angle	Both	Both	Both	Both	Both	Both	Both	Both
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>•Super low-profile design (2 mm)</li> <li>•Side spring lock structure</li> <li>•Insertion guide</li> <li>•Reinforcing tab</li> </ul>	<ul style="list-style-type: none"> <li>•Low profile design (4.3 mm)</li> <li>•Insertion guide</li> <li>•Back rest</li> </ul>	<ul style="list-style-type: none"> <li>•Double arm lock system</li> <li>•Vacuum area structure for easy pickup</li> <li>•Structure to prevent mismatching</li> </ul>	<ul style="list-style-type: none"> <li>•Prevents terminal deformation during harness processing</li> <li>•Low mating force</li> <li>•Locking mechanism</li> <li>•Insertion guide</li> </ul>	<ul style="list-style-type: none"> <li>•Low insertion force</li> <li>•Round shape design</li> <li>•Lock mechanism</li> </ul>	<ul style="list-style-type: none"> <li>•Round shape design</li> <li>•Vacuum area structure for easy pickup</li> <li>•Low profile</li> </ul>	<ul style="list-style-type: none"> <li>•Prevention of misinsertion</li> <li>•Protection against prying</li> <li>•Compact design</li> </ul>	<ul style="list-style-type: none"> <li>•Low profile design (8.2 mm)</li> <li>•Double arm lock system</li> <li>•Structure prevents defective connection</li> </ul>	<ul style="list-style-type: none"> <li>*AWG: 24 = Straight : 2A Right angle: 1,5A</li> <li>•Low insertion force</li> <li>•Multifunctional wide lock system</li> </ul>

# Board to Wire Connectors



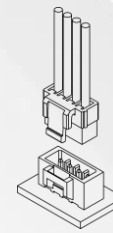
Pitch		2.0 mm					
Series Name	SJA	SJH	SB	SNR	SN	SDA	SJW
Click the picture for more information							
<b>SMT / DIP</b>	Both	Both	DIP	DIP	DIP	DIP	Both
<b>Rows and Poles</b>	Single: 2-13P	Single: 2-16P	Single: 2-15P	Single: 2-6P, 16-20P	Single: 2-16P	Dual: 8-40P (even numbers)	Dual: 8-40P (even numbers)
<b>Rated Voltage</b>	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V
<b>Rated Current</b>	3A	3A	2A	3A	2A	3A	3A
<b>Temperature Range</b>	-40~+85°C	-40~+85°C	-25~+85°C	-25~+85°C	-25~+85°C	-40~+85°C	-25~+85°C
<b>AWG Range</b>	22-30	22-30	22-33	22-28	22-28	22-28	22-28
<b>Orientation (Right Angle/ Straight)</b>	Both	Both	Both	Straight	Both	Both	Both
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>•Multi insertion guide and back rest</li> <li>•Round shape design</li> </ul>	<ul style="list-style-type: none"> <li>•Outer lock design</li> <li>•Ribs to prevent wrong engagement</li> </ul>	<ul style="list-style-type: none"> <li>•Structure prevents misinsertion</li> <li>•Prevents prying and flux floating</li> </ul>	<ul style="list-style-type: none"> <li>•Thin shaped potting connector</li> <li>•Double arm lock system</li> <li>•Many security mechanisms like guide ribs colored keying etc.</li> <li>•User-selectable retainer and boss system</li> </ul>	<ul style="list-style-type: none"> <li>•Inner lock system</li> <li>•Optional retainer</li> <li>•Wafers for potting also available</li> </ul>	<ul style="list-style-type: none"> <li>•Low insertion force</li> <li>•Round shape design</li> <li>•Box structure to prevent mismating</li> </ul>	<ul style="list-style-type: none"> <li>•Outer lock</li> <li>•Ribs to avoid wrong insertion</li> <li>•Housing and contacts compatible with wire to wire RJW connector</li> </ul>

# Board to Wire Connectors



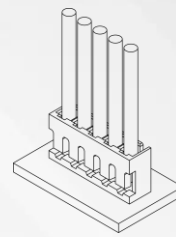
Pitch	2.0 mm		2.5 mm		
Series Name	NKS	NKW	SMH	SC	SRM
Click the picture for more information					
<b>SMT / DIP</b>	SMT	SMT	DIP	DIP	DIP
<b>Rows and Poles</b>	Single: 2-12P	Dual: 8-20P (even numbers)	Single 2-13P	Single: 2-16,18,20P	Single: 2-10P
<b>Rated Voltage</b>	AC.DC50V	AC.DC50V	AC.DC250V	AC.DC250V	AC.DC250V
<b>Rated Current</b>	3A	3A	3A	3A	3A
<b>Temperature Range</b>	-40~+125°C	-40~+125°C	-40~+85°C	-25~+85°C	-25~+90°C
<b>AWG Range</b>	22-24 (0.3-0.22mm <sup>2</sup> )	22-24 (0.3-0.22mm <sup>2</sup> )	22-28	18-32	22-28
<b>Orientation (Right Angle/ Straight)</b>	Both	Both	Both	Both	Straight
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>• Designed for automotive applications</li> <li>• High vibration, impact and temperature resistance</li> <li>• Solder peg for enhanced peel strength</li> <li>• Side retainer</li> <li>• Soft inner lock</li> </ul>	<ul style="list-style-type: none"> <li>• Designed for automotive applications</li> <li>• High vibration, impact and temperature resistance</li> <li>• Solder peg for enhanced peel strength</li> <li>• Side retainer</li> <li>• Soft inner lock</li> </ul>	<ul style="list-style-type: none"> <li>• Outer lock</li> <li>• Ribs to avoid wrong insertion</li> </ul>	<ul style="list-style-type: none"> <li>• Prevents misinsertion due to a perfect fit lock</li> <li>• Protection from prying and flux floating</li> <li>• Compact design</li> <li>• Wafer for potting available</li> </ul>	<ul style="list-style-type: none"> <li>• Inner lock and housing lance structure</li> <li>• Optional double structure of retainer</li> <li>• Wafer for potting available</li> </ul>

# Board to Wire Connectors



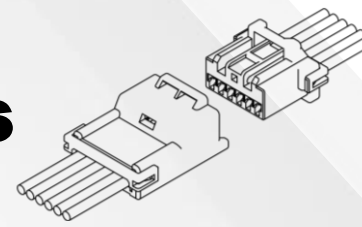
Pitch	2.54 mm	3.96 mm	4.2 mm	7.5 mm	7.92 mm	
Series Name	SMD	SVK	SEW	SRV	SF	SFP
Click the picture for more information						
<b>SMT / DIP</b>	DIP	DIP	DIP	DIP	DIP	DIP
<b>Rows and Poles</b>	Dual: 10-40P (Even numbers)	Single: 2-10P	Dual: 4, 8, 10, 12, 14, 16, 18, 20P	Single : 2-3P Dual: 4, 6, 8, 12, 14, 16, 18P	Single: 2, 3, 4P	Single: 2P
<b>Rated Voltage</b>	AC.DC250V	AC.DC300V	AC.DC300V	AC.DC300V	AC.DC300V	AC.DC600V
<b>Rated Current</b>	3A	10A	7A	10A	10A	10A
<b>Temperature Range</b>	-40~+85°C	-25~+105°C	-25~+105°C	-25~+105°C	-25~+105°C	-25~+85°C
<b>AWG Range</b>	22-28	16-24	16-20	16-24	16-24	16-20
<b>Orientation (Right Angle/ Straight)</b>	Both	Both	Both	Straight	Both	Right Angle
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>•Outer lock</li> <li>•Ribs to prevent wrong insertion</li> <li>•Housing is the same as RMD connector</li> </ul>	<ul style="list-style-type: none"> <li>•Outer lock</li> <li>•Wafers for potting also available</li> </ul>	<ul style="list-style-type: none"> <li>•Low insertion force</li> <li>•Round shape design</li> <li>•Prevents mismatching</li> </ul>	<ul style="list-style-type: none"> <li>•Inner lock</li> <li>•Housing lance structure</li> <li>•Optional double stopper structure of adopting retainer</li> <li>•Wafers for potting also available</li> </ul>	<ul style="list-style-type: none"> <li>•High contact reliability</li> <li>•Positive lock and adopted housing lance structure</li> <li>•Prevents prying insertion and removal</li> </ul>	<ul style="list-style-type: none"> <li>•The industries first low-profile power connector</li> <li>•Flat design with center lock</li> <li>•Front bus to prevent upwards slant during mating process</li> <li>•Halogen free</li> </ul>

# Board In Connectors



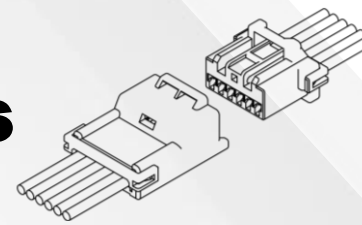
Pitch	1.5 mm	2.0 mm	2.5 mm	3.96 mm	N. A.		
Series Name	JZ	JB	JBP	JC	PD054	JE	Single Board In
Click the picture for more information							
SMT / DIP	DIP	DIP	DIP	DIP	DIP	DIP	DIP
Rows and Poles	Single: 2-15P	Single: 2-16P	Single: 2-15P	Single: 2-15P	Single: 2-15P	Single: 2-10P	1P
Rated Voltage	AC.DC200V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC300V	-
Rated Current	1A	2A	1A	3A	3A	7A	-
Temperature Range	-20~+85°C	-20~+85°C	-20~+85°C	-20~+85°C	-40~+100°C	-40~+100°C	-
AWG Range	28-30	24-30	26-30	22-30	22-28	16-22	-
Orientation (Right Angle/ Straight)	Both	Both	Straight	Both	Straight	Straight	-
Remarks / Features	<ul style="list-style-type: none"> <li>Housing is commonly used for both right angle and straight</li> </ul>	<ul style="list-style-type: none"> <li>Housing is commonly used for both right angle and straight</li> </ul>	<ul style="list-style-type: none"> <li>3.0 mm mounting height</li> </ul>	<ul style="list-style-type: none"> <li>5.9 mm mounting height</li> <li>Housing is commonly used for both right angle and straight</li> </ul>	<ul style="list-style-type: none"> <li>5.5 mm mounting height</li> </ul>	<ul style="list-style-type: none"> <li>3.96 mm pitch</li> <li>Smooth clicking insertion into board</li> </ul>	

# Wire to Wire Connectors



Pitch	2.0 mm			2.5 mm		2.54 mm	4.2 mm
Series Name	RJP	RJA	RJW	RMH	RM	RMD	RV
Click the picture for more information							
<b>Rows and Poles</b>	Dual: 8, 10, 12, 14P	Single: 2, 3, 4, 6P Dual: 6, 8P	Dual: 8-40P (Even numbers)	Single 2-13P	Single: 2-7, 10P	Dual: 20, 30, 40P	Single: 1-3P Dual: 4, 6, 8, 10, 12, 14, 16, 18P
<b>Rated Voltage</b>	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC250V	AC.DC600V
<b>Rated Current</b>	2A	2A	2A	3A	3A	3A	10A
<b>Temperature Range</b>	-25~+85°C	-25~+85°C	-25~+85°C	-40~+85°C	-25~+90°C	-40~+85°C	-25~+105°C
<b>AWG Range</b>	22-30	22-30	22-28	22-28	22-28	22-28	16-24
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>• Inertia lock system</li> <li>• Two different types of terminals available</li> <li>• Lock guard</li> <li>• Guide ribs to prevent misinsertion</li> <li>• Optional double stopper structure of retainer</li> <li>• Housing material: PBT</li> </ul>	<ul style="list-style-type: none"> <li>• Inertia lock system</li> <li>• Two different types of terminals available</li> <li>• Lock guard</li> <li>• Guide ribs to prevent misinsertion</li> <li>• Optional double stopper structure of retainer</li> <li>• Housing material: Nylon66</li> </ul>	<ul style="list-style-type: none"> <li>• Outer lock</li> <li>• Guide ribs to prevent misinsertion</li> <li>• Plug housing is compatible with board to wire SJW connector</li> <li>• Panel lock structure</li> </ul>	<ul style="list-style-type: none"> <li>• Outer lock</li> <li>• Guide ribs to prevent misinsertion</li> <li>• Plug housing is compatible with board to wire SMH connector</li> <li>• Panel mount housings are also available</li> </ul>	<ul style="list-style-type: none"> <li>• Inner lock and housing lance structure</li> <li>• Optional double stopper structure of retainer</li> </ul>	<ul style="list-style-type: none"> <li>• Outer lock</li> <li>• Guiding ribs to prevent misinsertion</li> <li>• Plug housing is compatible with board to wire SMD connector</li> <li>• Panel lock structure</li> </ul>	<ul style="list-style-type: none"> <li>• High contact reliability</li> <li>• Inner lock</li> <li>• Optional double stopper structure of retainer</li> <li>• Protection structure for terminal misinsertion into housing</li> <li>• Panel mount housings also available</li> </ul>

# Wire to Wire Connectors






Pitch	2.54 mm	4.2 mm	
Series Name	RMD	RVA	RV
Click the picture for more information			
<b>Rows and Poles</b>	Dual: 20, 30, 40P	Single: 1-3P Dual: 4, 6P	Single: 1-3P Dual: 4, 6, 8, 10, 12, 14, 16, 18P
<b>Rated Voltage</b>	AC.DC250V	AC.DC 600V	AC.DC600V
<b>Rated Current</b>	3A	10A	10A
<b>Temperature Range</b>	-40~+85°C	-25~+105°C	-25~+105°C
<b>AWG Range</b>	22-28	16-24	16-24
<b>Remarks / Features</b>	<ul style="list-style-type: none"> <li>•Outer lock</li> <li>•Guiding ribs to prevent misinsertion</li> <li>•Plug housing is compatible with board to wire SMD connector</li> <li>•Panel lock structure</li> </ul>	<ul style="list-style-type: none"> <li>•High contact reliability</li> <li>•Retainers can be selected according to application</li> <li>•Two types of terminals are available to accommodate a wide range of wire sizes</li> <li>•Terminal housings can be shared with SRV connectors for board-to-wire</li> </ul>	<ul style="list-style-type: none"> <li>•High contact reliability</li> <li>•Inner lock</li> <li>•Optional double stopper structure of retainer</li> <li>•Protection structure for terminal misinsertion into housing</li> <li>•Panel mount housings also available</li> </ul>

# Our Most Popular General Applicators



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.

Stroke	40 mm		30 mm	
Model	ES40	EE30	AS41	AE31
				
<b>Side Type / End Type</b>	Side Type	End Type	Side Type	End Type
<b>Suitable fully automatic crimping machine</b>	2T: ES40	2T: EE30	2T: AS40 4T: AS80	2T: AE30 4T: AE70
<b>Suitable manual crimping machine</b>	2T: ES41D	2T: EE31D	2T: AS41 4T: AS81	2T: AE31 4T: AE71
<b>Notes</b>	<ul style="list-style-type: none"> <li>usable with either 30mm stroke press or 40mm stroke press by changing the feed cam mounting position.</li> </ul>	<ul style="list-style-type: none"> <li>usable with either 30mm stroke press or 40mm stroke press by changing the feed cam mounting position.</li> </ul>	<ul style="list-style-type: none"> <li>Interchangeable between fully automatic and manual crimp by changing feeding cam and cam lever</li> </ul>	<ul style="list-style-type: none"> <li>Interchangeable between fully automatic and manual crimp by changing feeding cam and cam lever</li> </ul>

# Applicator Selection Guide



## Board to Wire

Connector	Terminal	40mm Stroke	30mm Stroke
NKS	720402-2MAC	ES40/41D-720402	EXX048300
	720402-5MAC		
NKW	720402-2MAC	ES40/41D-720402	EXX048300
	720402-5MAC		
SYB	710106-2MAC	ES40/41D-710106	EXS-47600
SYA	710112-2MAC	ES40/41D-710112	TJS-39000
SYT	710112-2MAC	ES40/41D-710112	TJS-39000
SYW	710111-2MAC	ES40/41D-710111	EXX040800
STA	712215-2MAC	ES40/41D-712215	TJS-46200
	712217-2MAC	ES40/41D-712217	CXX003300
STW	712211-2MAC	ES40/41D-712211	TJS-45800
SZ	715162-2MA	ES40/41D-715162	JC-4100
SZT	715262-2MAC	ES40/41D-715262	TJS-40400-EE
SZW	715311-2MAC	ES40/41D-715311	TJS-43300
SJA	720374-2MAC	ES40/41D-720374	JB-9800
	720474-2MAC	ES40/41D-720474	TJS-17200
SIH	720374-2MAC	ES40/41D-720374	JB-9800
	720474-2MAC	ES40/41D-720474	TJS-17200

## Board to Wire

Connector	Terminal	40mm Stroke	30mm Stroke
SB	720164-2MA	ES40/41D-720164	TJS-07900
			TJS-07900A
	720364-2MA	ES40/41D-720364	JB-9800
	720374-2MAC	ES40/41D-720374	
	720464-2MA	ES40/41D-720464	TJS-17200
720474-2MAC	ES40/41D-720474		
SNR	720462-2MAC	ES40/41D-720462	TJS-42600
SN	720460-2MA	ES40/41D-720460	TJS-42600
SDA	720490-2MAC	ES40/41D-720490	TJS-45100
SJW	720468-2MAC	ES40/41D-720468	TJS-33600
	720470-2MAC	ES40/41D-720470	TJS-35200
SMH	725412-2MAC	ES40/41D-725412	TJS-18000
SC	725162-2MAK	ES40/41D-725162	TJS-07500
	725462-2MAK	ES40/41D-725462	JC-3300
	725662-2MAK	ES40/41D-725662	TJS-17500
SRM	725412-2MAC	ES40/41D-725412	TJS-18000
SMD	725416-2MAC	ES40/41D-725416	TJS-24800
	725416-7AC		TJS-24800A

# Applicator Selection Guide



## Board to Wire

Connector	Terminal	40mm Stroke	30mm Stroke
SVK	742462-2MA	ES40/41D-742462	TJS-13400
	742462-2MAC		
	742462-2MAF		
	742764-2MA	ES40/41D-742764	
	742764-2MAC		
SEW	740712-2MA	ES40/41D-740712	TJS-46700
SRV	742462-2MA	ES40/41D-742462	TJS-13400
	742462-2MAC		
	742462-2MAF		
	742764-2MA	ES40/41D-742764	
	742764-2MAC		
SF	742462-2MA	ES40/41D-742462	TJS-13400
	742462-2MAC		
	742462-2MAF		
	742764-2MA	ES40/41D-742764	
	742764-2MAC		
SFP	742766-2MAC	ES40/41D-742766	TJS-43200

## Board In

Connector	Terminal	40mm Stroke	30mm Stroke
JZ	507110-2MA	ES40/41D-507110	JC-1200
	507120-2MA	ES40/41D-507120	JC-1300
	507130-2MA	ES40/41D-507130	JC-1200
JB	508310-2MA	ES40/41D-508310	JB-9500
	508310-2MAB		
	508310-2MAF		
	508320-2MA	ES40/41D-508320	
508320-2MAC			
JBP	508250-2MA	ES40/41D-508250	TJS-16800
JC	510430-2MA	ES40/41D-510430	JC-2300
	510430-2MAC		
	510420-2MA	ES40/41D-510420	
	510420-2MAC		
PD054	510353-2MAN	ES40/41D-510353	MCS-14100A
JE	521600-2MAK	ES40/41D-521600	TJS-02600

# Applicator Selection Guide



## Wire to Wire

Connector	Terminal	40mm Stroke	30mm Stroke
RJA	720451-2MAC	ES40/41D-720451	TJS-47300
	720450-2MAC	ES40/41D-720450	
	720251-2MAC	ES40/41D-720251	CXX005500
	720250-2MAC	ES40/41D-720250	
RJP	720451-2MAC	ES40/41D-720451	TJS-47300
	720450-2MAC	ES40/41D-720450	
	720251-2MAC	ES40/41D-720251	CXX005500
	720250-2MAC	ES40/41D-720250	
RJW	720467-2MAC	ES40/41D-720467	TJS-35200
	720468-2MAC	ES40/41D-720468	TJS-33600 TJS-35200
RMH	725411-2MAC	ES40/41D-725411	TJS-18000
	725412-2MAC	ES40/41D-725412	
RM	725411-2MAC	ES40/41D-725411	TJS-18000
	725412-2MAC	ES40/41D-725412	
RMD	706417-2MA	ES40/41D-706417	TJS-23300
	725416-2MAC	ES40/41D-725416	TJS-24800

## Wire to Wire

Connector	Terminal	40mm Stroke	30mm Stroke
RV	742411-2MA	ES40/41D-742411	TJS-13400
	742411-2MAC		
	742713-2MA	ES40/41D-742713	TJS-13500
	742713-2MAC		
	742462-2MA	ES40/41D-742462	TJS-13400
	742462-2MAC		
742764-2MA	ES40/41D-742764	TJS-13500	
742764-2MAC			
742764-2MAH			
RVA	742450-2MAC	ES40/41D-742450	CXX099500
	742451-2MAC	ES40/41D-742451	
	742650-2MAC	ES40/41D-742650	CXX099400
	742651-2MAC	ES40/41D-742651	

# Hand Crimping Tools



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
507120-2MA	JZ	HT-507120CW



# Contact Information

## Japan (Main office)

+81-3-3756-1431 (Connectors)

+81-45-543-1511 (Crimping Machines)

## Other Locations:

- United States of America
- Singapore
- Malaysia
- Thailand
- India
- Hong Kong
- China
- EMEA

For all locations contact information, please click [here](#)

<https://www.jam-net.co.jp/eng/>

