

2024

PRODUCT GUIDE



WHO WE ARE

JST is one of the worlds largest electronic connector manufacturers.

Since JST's foundation in 1957, we have maintained three core values at the heart of our business strategy.

QUALITY INTRODUCTION

- **QUALITY**

We have complete trust and belief in our product. Every stage of our development and manufacturing process is focused on delivering a flawless product. JST does not compromise on quality.

- **TECHNOLOGY**

JST is dedicated to continuous improvement and innovation, not only for our range of connector products but also for our custom processes and manufacturing systems.

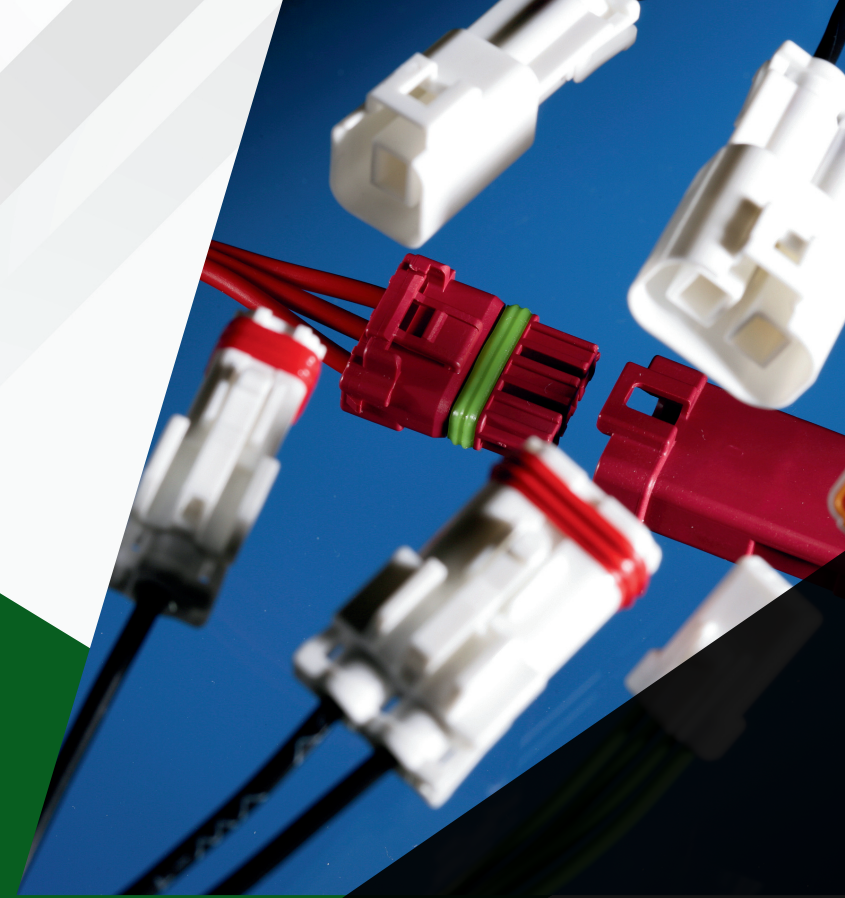
- **SERVICE**

Our privilege is to offer our customers a product supply and product support service that we believe is unparalleled.



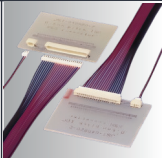
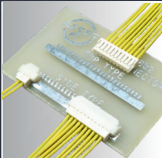
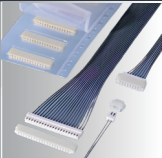

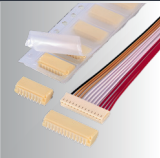



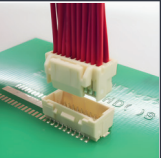
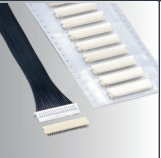
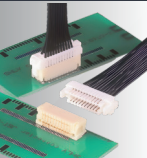
Why we call ourselves the quality connection:

- *Quality of product and technical excellence*
- *Zero Defects goal*
- *Japanese tradition of respect between customer and supplier.*




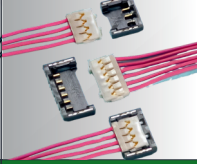



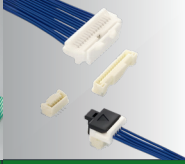



→ COMPARISON CHART

Wire-to-Board connectors (1)

Pitch	0.6 mm	0.8 mm	1.0 mm								
											
Product Series	XSR	SUH	SUR	SH	SR/SZ	SHD	SHLD	NSH	NSHD	SHL	SHLV
Current Rating	0.2A	1.0A (AWG #28)	* 0.5A (AWG #32)	1.0A (AWG #28)	0.7A	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)
Voltage Rating	30V	30V	30V	50V	50V	50V	50V	50V	50V	50V	30V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Side	Top/Side
Crimp		✓		✓		✓	✓	✓	✓	✓	✓
IDC	✓		✓		✓						
Through Hole					✓						
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Row						✓	✓		✓		✓
Wire-to-Wire Available											
Positive Locking							✓	✓	✓		✓
No. of positions	2, 4, 6, 10, 16, 20, 22	2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 17, 20	2, 3, 4, 5, 6, 8, 10, 12, 14, 15, 16, 17, 20, 22	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	20, 30, 40, 50	20, 30, 40, 50	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	16, 20, 24, 28, 32, 40	2, 5, 6, 7, 8, 10, 11, 12, 14, 16, 20, 22, 26, 30	21, 31
AWG range	36	32-28	36, 32	32-28	30	32-28	32-28	32-28	32-28	32-28	32-28
Remarks		Compatible with SUR header	*0.2A for AWG #36	SR IDC header is compatible with SH crimp style connector	Compatible with SH header					Low-profile design	For LVDS applications

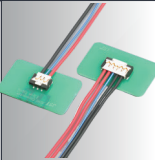
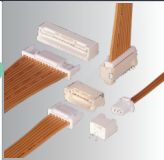
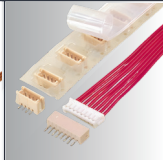

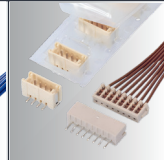
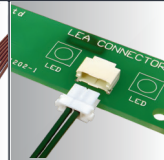
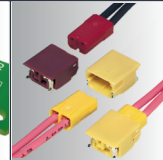
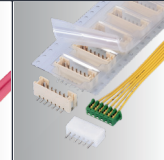
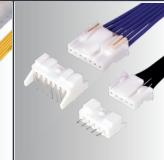
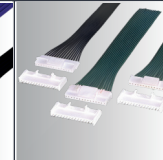
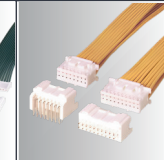
→ COMPARISON CHART

Wire-to-Board connectors (2)

Pitch	1.2 mm			1.25 mm					1.3 mm
									
Product Series	ACH	ACHF	ACHL	GH	GHD	GVH	GERD	GX/GXW	ADH
Current Rating	2.0A (AWG #28)	2.5A (AWG #28)	2.0A (AWG #28)	1.0A (AWG #28)	*1.0A (AWG #26)	1.0A (AWG #26)	1.5A (AWG #26)	*2.0A (AWG #26)	3.0A (AWG #26)
Voltage Rating	50V	50V	50V	50V	50V	50V	50V	50V	30V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	*Top	*Top	*Top	Top/Side	Top/Side	*Top/Side	Top/Side	**Top/Side	*Top
Crimp	✓	✓	✓	✓	✓	✓	✓		✓
IDC								✓	
Through Hole									
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Row					✓		✓	***	
Wire-to-Wire Available	✓								
Positive Locking				✓	✓	✓	✓	✓	
No. of positions	1, 2, 3, 4, 5	3, 4, 6	2	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, **34, 36, 38, 40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19, 21, 23, 25, 32, 36, 40	2, 3, 5
AWG range	30-28	30-28	30-28	30-26	32-26	30-26	30-26	28-26	28-26
Remarks	*Top entry, Side feed	*Top entry, Side feed	*Top entry, Side feed		*Gold-plated 1.25A for Tin-plated **Only for Tin-plated	*Top entry, Side feed		*1.5A(AWG #26) for GXW **Top entry only for GXW ***GXW only	*Top entry, Side feed

→ COMPARISON CHART

Wire-to-Board connectors (3)

Pitch	1.5 mm					1.8 mm		2.0 mm			
											
Product Series	AUH	ZE	ZH	ZPD	ZR	LEA	SFH	KR	PA	PA High Box type	PAD
Current Rating	1.0A/5.0A (AWG #22)	2.0A (AWG #24)	1.0A (AWG #26)	*2.0A (AWG #24)	0.7A (AWG #28)	3.0A (AWG #22)	4.0A (AWG #22)	1.0A (AWG #26)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)
Voltage Rating	30V	100V	50V	100V	50V	300V	350V	100V	*250V	*250V	250V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-55 to +105	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	*Top	Top/Side	Top/Side	Top/Side	Top/Side	Side	Side	Top/Side	Top/Side/Bottom	Top	Top/Side
Crimp	✓	✓	✓	✓		✓	✓		✓	✓	✓
IDC					✓			✓			
Through Hole		✓	✓		✓			✓	✓		✓
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Dual-Row				✓							✓
Wire-to-Wire Available									✓		
Positive Locking		✓		✓		✓	✓		✓	✓	✓
No. of positions	3, 5	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	2	2	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15	10, 12, 14, 16, 20, 22, 24, 40
AWG range	30-22	30-24	32-26	28-24	30, 28	30-22	30-22	28-26	28-22	28-22	28-22
Remarks	Signal/Power Hybrid *Top entry, side feed		Socket compatible with IDC type ZR	*1.5A for 32-40 circuits	<ul style="list-style-type: none"> Compatible with ZH header IDC version of ZH 			<ul style="list-style-type: none"> IDC version of PH series Header is interchangeable with PH crimp style connectors 	*100V with retainer mountable type / High Box type available	*100V with retainer mountable type	

→ COMPARISON CHART


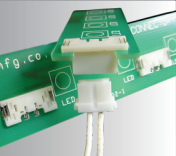
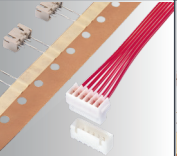
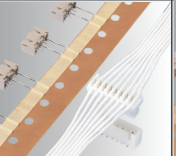
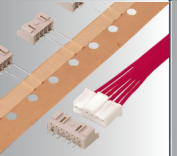

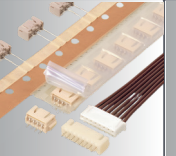
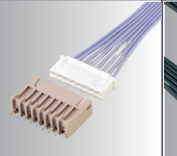
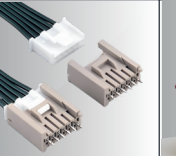



Wire-to-Board connectors (4)

Pitch	2.0 mm								2.2 mm	2.5 mm
Product Series	PAMU	PBV	PBD	PH	PH High Box type	PHD	PND	PNI	PUD	JFA J1000
Current Rating	*3.0A/1.0A	3.0A (AWG #22)	3.0A (AWG #22)	2.0A (AWG #24)	2.0A (AWG #24)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	*6.4A
Voltage Rating	1000V withstand voltage	100V	100V	100V	100V	250V	250V	100V	250V	250V
Temp. Range (°C)	-40 to +125	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-55 to +105
Orientation	Top/Side	Top/Side	Side	Top/Side	Top	Top/Side	Top	Top	Top/Side	Top/Side
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IDC										
Through Hole				✓	✓	✓	✓	✓	✓	✓
SMT	✓	✓	✓	✓					✓	
Dual-Row			✓	✓					✓	✓
Wire-to-Wire Available								✓		✓
Positive Locking	✓	✓	✓				✓	✓	✓	✓
No. of positions	2, 3, 4, 5, 6, 8	2, 3, 4, 6, 8, 10, 12, 15	16, 20, 30	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42	2, 3, 4, 5, 6, 7, 8, 9, 10	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	3, 6, 8, 12, 20, 22, 26, 30
AWG range	26, 22	28-22	28-22	32-24	30-24	28-22	28-22	28-22	28-22	28-18
Remarks	*AWG#22 : 3A AC/DC, AWG#26 : 1A AC/DC			Available in High Box type	Header is interchangeable with insulation displacement type KR connectors			High box type available		*3 circuits, AWG #18. See catalog for details.



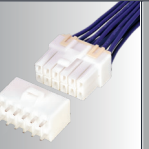
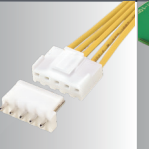
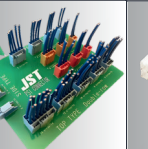
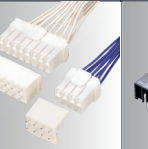
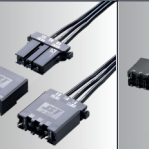
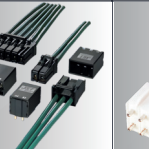
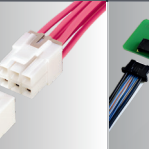
→ COMPARISON CHART

Wire-to-Board connectors (5)

Pitch	2.5 mm									
										
Product Series	JFA J2000	LEX	NR	NRD	XA	XAD	XH	XH High Box type	XM	XNI
Current Rating	*4.6A	3.0A (AWG #22)	2.0A (AWG #24)	2.0A (AWG #24)	3.0A (AWG #22, #20)	3.0A (AWG #22, #20)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22, #20)	3.0A (AWG #22)
Voltage Rating	250V	300V	250V	250V	250V	250V	250V	250V	250V	250V
Temp. Range (°C)	-55 to +105	-55 to +105	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Top/Side	Bottom	* Top	Top/Side	Top/Side	Top/Side	Top/Side	Top	Top	Top
Crimp	✓	✓			✓	✓	✓	✓	✓	✓
IDC			✓	✓						
Through Hole	✓		✓	✓	✓	✓	✓	✓	✓	✓
SMT		✓			✓		✓			
Dual-Row	✓					✓				
Wire-to-Wire Available	✓			✓	✓	✓			✓	
Positive Locking	✓	✓		✓	✓	✓			✓	✓
No. of positions	3, 4, 6, 8, 10, 12, 16, 20, 30, 40	2, 4	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 18, 20	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20	2, 3, 4, 5, 6, 7, 8, 9, 10	2, 3, 4, 5, 6, 7, 8, 9, 10	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15
AWG range	28-20	30-22	28-24	28, 26, 24	28-20	28-20	30-22	30-22	28-20	30-22
Remarks	*3 circuits, AWG #20. • 3.5mm pitch also available • See catalog for details.		*Top entry, Side feed / Compatible with XH header	For daisy chain connection / Compatible with XH header	Compatible with XAF as IDC version				High box type	

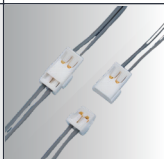
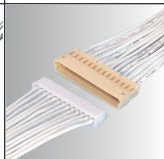
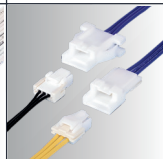
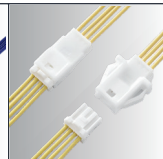
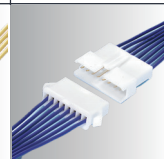
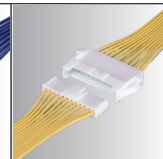
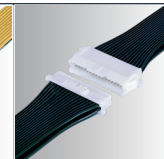
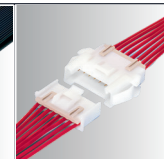
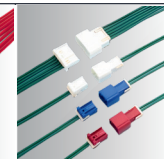
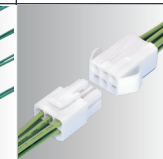
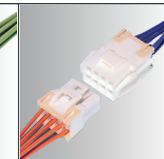
→ COMPARISON CHART

Wire-to-Board connectors (6)

Pitch	3.0 mm	3.81mm	3.96 mm		4.0 mm		5.0 mm	5.08mm	* 6.0 mm	6.2 mm	Hybrid
											
Product Series	BSS	JFA J300 3.81mm	HL	VH	LEB	PSI	XL	JFA J300 5.08mm	JFA J4000	VL	LBT Type A
Current Rating	*7.0A	*15.0A	*7.0A	10.0A (AWG #16)	3.0A (AWG #22)	*12.0A	*10.0A	*15.0A	**22.0A	*20.0A	0.5A/8.0A (AWG #28/#20)
Voltage Rating	250V	250V	300V	250V	300V	300V	150V	600V	600V	600V	50V
Temp. Range (°C)	-25 to +85	-55 to +105	-25 to +90	-25 to +85	-55 to +105	-25 to +85	-25 to +90	-55 to +105	-55 to +105	-25 to +90	-25 to +85
Orientation	Top	Top/Side	Top	Top/Side	Side	Top/Side	Top/Side	Top/Side	Top/Side	Top	Side
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IDC											
Through Hole		✓	✓	✓		✓	✓	✓	✓	✓	
SMT	✓				✓						✓
Dual-Row	✓	✓	✓			✓		✓		✓	
Wire-to-Wire Available		✓	✓				✓	✓		✓	
Positive Locking	✓	✓	✓	✓		✓	✓	✓	✓	✓	
No. of positions	4, 6, 8, 10	3, 4, 5, 6, 8, 10	4, 8, 12	2, 3, 4, 5, 6, 7, 8, 9, 10, 11	1, 2	2, 3, 4, 5, 6, 8, 10, 12, 14	2, 3, 4, 6, 8, 12, 16	1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 40	2, 3, 4, 6	2, 3, 4, 6, 8, 12	1, 3, 5, 7
AWG range	22-18	28-14	22-18	22-16	26-22	26-16	26-16	28-14	16-12	22-12	28-20
Remarks	*4 circuits, AWG #18. See catalog for details. Inertial lock mechanism	*1 circuit, AWG #14. See catalog for details.	*4 circuits, AWG #18. See catalog for details.	High box type available	Horizontal Board-to-Board type available	*2 circuits, AWG #16. See catalog for details.	*2 circuits, AWG #16. See catalog for details.	*1 circuit, AWG #14. See catalog for details.	* J4300S is 6.35mm pitch *2 circuits, AWG #12. See catalog for details.	*2 circuits, AWG #12. See catalog for details.	Power supply circuit x2

→ COMPARISON CHART

Wire-to-Wire connectors

Pitch	1.2 mm	1.5 mm	2.0 mm		2.5 mm						4.5 mm	
												
Product Series	ACH	ZM	PAL	PNI	SM	XA	XAD	XM	XMA	EL	YL	
Current Rating	2.0A	0.7A (AWG #28)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A	3.0A (AWG #22, #20)	3.0A (AWG #20)	3.0A	3.0A (AWG #22)	10.0A (AWG #22)	*10.0A	
Voltage Rating	50V	50V	100V	100V	250V	250V	250V	250V	250V	300V	300V	
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +90	-25 to +90	
Signal/Power Hybrid												
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Dual-Row							✓			✓	✓	
Wire-to-Board Available	✓		✓	✓		✓	✓					
Positive Locking			✓	✓	✓	✓	✓	✓	✓	✓	✓	
No. of positions	2	2, 3, 9, 13	2, 3, 4, 5, 6, 7, 8	2, 3, 4, 5, 6, 8, 10	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 40,	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 18	2, 3, 4, 5, 6	2, 3, 4, 6, 9, 12, 15	1, 2, 3, 4, 6, 8, 9, 12, 15, 16, 21	
AWG range	30-28	30-28	28-22	28-22	28-22	28-20	28-20	28-20	26-22	26-16	26-16	
Remarks		Mates with ZH (crimp) and ZR (IDC) sockets									Triple row is also available *1 circuit, AWG #16. See catalog for details.	

→ COMPARISON CHART

Board-to-Board connectors, Coaxial

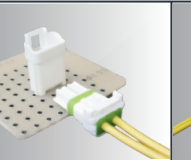


Pitch	0.35 mm	0.5 mm	1.25 mm			2.5 mm		
Product Series	JKGN	JMC	JMD	JE	JED	JQ	JL	HVQ
Current Rating	0.5A	0.5A	0.5A	1.0A	1.0A	3.0A	3.0A	3.0A
Voltage Rating	30V	50V	50V	50V	50V	250V	250V	250V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Vertical	Vertical/Perpendicular	Top/Side	Perpendicular	Vertical/Perpendicular	Vertical/Perpendicular/Horizontal	Top	Vertical/Perpendicular/Horizontal
Through Hole				✓	✓	✓	✓	✓
SMT	✓	✓	✓					
Dual-Row	✓	✓	✓		✓			
Positive Locking				✓	✓	✓	✓	✓
PCB Thickness	-	-	-	1.6mm	0.8-1.0mm	1.6mm	1.6mm	1.6mm
Stack height	1.0mm, 1.5mm	3mm-10mm standard type / 4mm-11mm misalignment absorption type	4.5mm-6.0mm	-	7.0mm	11.8mm	-	11.4mm
No. of positions	40, 60, 70, 90	14, 16, 18, 20, 24, 30, 34, 40, 42, 46, 50, 60, 64	20, 30, 40, 50, 60, 70, 80, 100	5, 7, 9, 11, 13, 15, 17, 19	8, 16, 22	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25
Remarks	<ul style="list-style-type: none"> High retention force Board-to-Board FPC connection possible 	Versatile connector system				Compatible with XH connector		

Pitch	-
Product Series	AYU2T
Current Rating	0.3A
Voltage Rating	30Vms
Temp. Range (°C)	-25 to +85
Orientation	*Top
Crimp	
IDC	
Through Hole	
SMT	✓
No. of positions	1
AWG range	Φ 0.81
Remarks	<ul style="list-style-type: none"> Micro coaxial connector Frequency range : DC to 20 GHz <p>*Top entry, side feed</p>

→ COMPARISON CHART


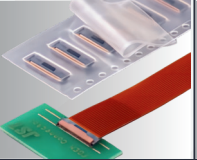
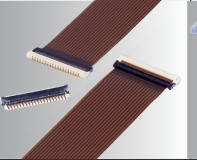

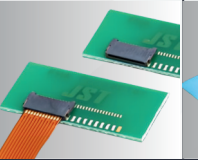
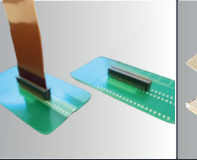
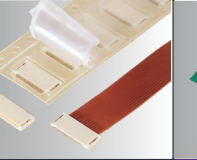
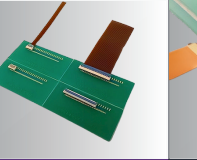
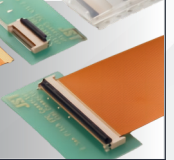
Waterproof

Pitch	1.5 mm	2.0 mm		4.0 mm		5.0 mm		-	-
									
Product Series	ZWP	JWPF Wire-to-Board	JWPF Wire-to-Wire	JWPS Wire-to-Board	JWPS Wire-to-Wire	WPJ Wire-to-Board	WPJ Wire-to-Wire	UB Micro USB Waterproof	UBC type-C Waterproof
Current Rating	2.0A (AWG #24)	3.0A (AWG #22)	3.0A (AWG #22)	**6.0A (AWG #18)	**6.0A (AWG #18)	7.0A (AWG #18)	7.0A (AWG #18)	**1.8A(power)/ 0.5A(signal)	1.25A/ 0.25A
Voltage Rating	50V	100V	100V	300V	300V	300V	300V	30V	20V
Temp. Range (°C)	-25 to +85	-55 to +85	-55 to +85	-55 to +85	-55 to +85	-25 to +85	-25 to +85	-30 to +85	-25 to +85
Orientation	-	Top	-	Side	-	Top	-	-	-
Termination style	-	TH	-	TH	-	TH	-	-	SMT
Dual-Row	✓	✓	✓	✓	✓	-	-	-	-
Positive Locking	✓	✓	✓	✓	✓	✓	✓	-	-
Waterproof	*IPX7	*IPX7	*IPX7	*IPX7	*IPX7	*IPX7	*IPX7	***IPX7	*IPX8
No. of positions	2, 3, 4, 5, 6, 8	2, 3, 4, 6, 8	2, 3, 4, 6, 8	2, 4	2, 4	2, 3	2, 3	5	24
AWG range	28-24	26-22	26-22	22-18	22-18	22-18	22-18	-	-
Remarks			Panel lock type available	**4A for AWG #22, 5A for AWG #20	**4A for AWG #22, 5A for AWG #20			**1.0A for signal use only ***Submerged in 1 meter of water for up to 30 minutes	<ul style="list-style-type: none"> Power supply up to maximum of 100W USB3.2 compliant with a data transmission rate of up to 20 Gbps

*Submerged in 2 meters of water for up to 60 minutes

→ COMPARISON CHART

FFC/FPC (1)

Pitch	0.2 mm	0.25 mm	0.3 mm	0.5 mm					
									
Product Series	FVR	FGEM	FXR	FXZT	FHA	FHT	FHJ	FHSY	FHH
Current Rating	0.2A	0.2A	0.2A	0.2A	0.5A	0.5A	0.5A	0.5A	0.5A
Voltage Rating	50V	50V	50V	50V	50V	50V	50V	50V	50V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Side	Side	Side	Top	Side	Top	Side	Side	Side
Latching method	Back flip	Mid flip	Front flip	Inner or Outer lock	Snap-in	Snap-in	Snap-in	Front flip	Back flip
Contact location	Double	Double	Bottom	One-sided	Double	Double	Top	Bottom	Double
Tin/Gold plated	Gold	Gold	Gold	Gold	Gold	Gold	Gold/Tin	Gold	Gold
Closing style	ZIF	ZIF	ZIF	ZIF	non-ZIF	non-ZIF	non-ZIF	ZIF	ZIF
Height	0.95mm	1.4mm	1.0mm	3.7mm	1.1mm	3.3mm	1.2mm	0.9mm	2.0mm
FPC/FPC thickness	0.2mm	0.2mm	0.2mm	0.2mm	0.3mm	0.3mm	0.3mm	0.3mm	0.3mm
Termination style	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT
No. of positions	39, 51, 61, 71	13, 17, 19, 23, 27, 35, 39, 41, 45, 51	11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 45, 47, 51, 61	(Inner lock) 17, 21, 23, 27, 31, 33, 39 (Outer lock) 45, 51	4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 21, 24	4, 5, 6, 8, 10, 11, 12, 14, 15, 16, 17, 18, 20, 22, 24, 27, 28	10, 20, 30, 40, 50, 60
Remarks		<ul style="list-style-type: none"> Tilt type For FPC with protrusions 	Low profile		Low profile	Halogen-free	Shock and vibration applications		For FPC with protrusions

→ COMPARISON CHART

FFC/FPC (2)

Pitch	0.5 mm					1.0 mm			1.25 mm
									
Product Series	FKZ	FLH	FLT	FLZ	FLZT	FM	FMN	FMS	FFS
Current Rating	0.5A	0.5A	0.5A	0.5A	0.5A	0.5A	0.5A	0.5A	0.5A
Voltage Rating	50V	50V	50V	50V	50V	50V	50V	50V	50V
Temp. Range (°C)	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Side	Side	Top	Side	Top	Top/Side	Top/Side	Side	Side
Latching method	Snap-in	Snap-in	Snap-in	Snap-in/Inner lock (32 circuits and above)	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in
Contact location	Top or Bottom	Top or Bottom	One-sided	Top or Bottom	Left or Right side	Double	Top or Bottom Left or Right	Double	Top and Bottom
Tin/Gold plated	Tin	Tin	Tin	Tin	Tin	Tin	Tin	Tin	Tin
Closing style	ZIF	ZIF	non-ZIF	ZIF	ZIF	non-ZIF	non-ZIF	non-ZIF	non-ZIF
Height	1.8mm	1.2mm	4.15mm	1.2mm	3.9mm	3.0/4.4mm	3.0/5.1mm	2.8mm	2.8mm
FPC/FPC thickness	0.3mm	0.3mm	0.3mm	0.3mm	0.3mm	0.33mm	0.3mm	0.3mm	0.3mm
Termination style	SMT	SMT	SMT	SMT	SMT	SMT/TH	SMT/TH	SMT	SMT
No. of positions	(Normal type) 5, 6, 8, 12, 14, 16, 18, 19, 20, 22, 24, 26, 27, 30, 32 (Reverse type) 5, 6, 8, 12, 13, 14, 16, 18, 19, 20, 22, 24, 26, 27, 30, 32	(Normal type) 4, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 24, 30, 40 (Reverse type) 4, 6, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 24, 30, 40	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 40	(Normal type) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 33, 34, 36, 40, 42, 50 (Reverse type) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40	(Normal/Reverse type) 6, 8, 10, 12, 14, 15, 16, 20, 22, 24, 28, 30, 37, 40, 42	(TH Top/Side entry, SMT Side entry type) 3, 4, 5, 6, 7, 8, 10, 11, 12 (SMT Top entry type) 4, 5, 6, 7, 8, 10	*4 - 40	3, 4, 5, 6, 8, 10, 12, 14	4, 5, 6, 8, 15, 21, 26
Remarks							*See catalog for details		

INTRODUCING JST GAM ASSEMBLY SERVICES:

PRECISION ENGINEERING FOR SEAMLESS INTEGRATION

Established in 2008 as Guntersville Appliance Lab (GAL) and Guntersville Engineering Center (GEC), we've evolved into Guntersville Assembly Manufacturing (GAM), a division of JST. GAM specializes in wire termination services, using state-of-the-art machines crafted by JST for IDC connectors (0.6mm to 2.5mm pitch) and crimp-style connectors.

OUR PRODUCTS

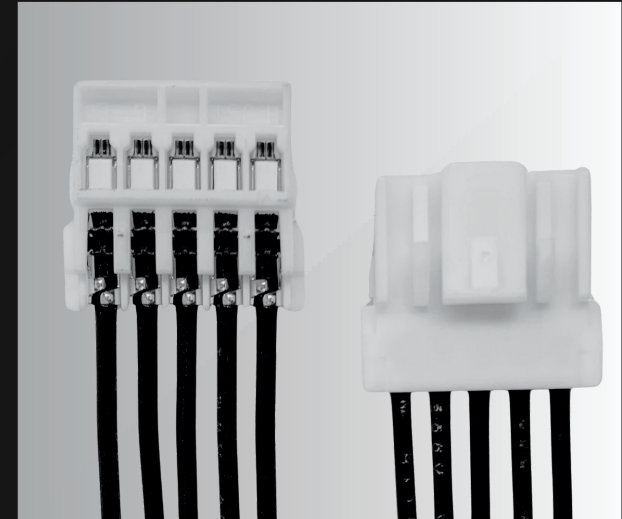
Since 2017, GAM has led the way in connectivity solutions. Our catalog features standard assemblies and pre-crimped leads, ranging from 2 to 12 inches in length (in 2-inch increments).

Our IDC connectors offer double-ended standards, with versatile pin-out orientations from 1 to 1 and 1 to N*. Unlike traditional connectors, our IDC assemblies eliminate manual labor, thanks to our JST-designed fully automatic assembly machines. With these machines, we can produce up to 5 assemblies in under 5 seconds, ensuring speed and cost-effectiveness.

For crimp style connectors, we provide double-ended pre-crimped leads for wire-to-board and wire-to-wire setups. GAM accommodates custom requirements, tailoring solutions to your exact specifications.

Our capabilities extend to longer lengths, with IDC machines crafting assemblies up to 1300mm (51 inches), and cut/strip/terminate machines producing crimped leads up to 33 feet. We also utilize JST-designed assembly twisting machines, offering a cost-effective alternative for precision and reliability.

*: N = the last circuit





OUR LATEST SERVICE : LOW-PRESSURE OVER-MOLDING

- ✓ Our latest enhancement to our capabilities introduces low-pressure over-molding, adding further value to our product line.

This includes:

- Custom over-mold cable assemblies
- Faster curing alternative to PCB potting
- Sealing grommet and strain relief applications
- Thru-Way products for JST connectors that currently do not offer wire-to-wire alternatives

- ✓ As a new standard catalog feature, GAM is proud to introduce the integration of over-molding onto jacketed cables and incorporating strain reliefs for our popular waterproof JWPF series. This standard offering will be available in male-to-male, male-to-female, and female-to-female configurations, offered at the following lengths:

- 1.5 feet
- 3 feet
- 6.5 feet

Custom lengths will also be available upon request.

- ✓ With the JWPF series already boasting an ingress protection rating of IPX7, our latest enhancement aims to elevate this standard further to achieve a minimum rating of IP67 through the application of over-molding.

Our over-molded JWPF standard assemblies are designed to deliver superior performance in the following markets where the series is already widely utilized:

- Appliance
- ATV's
- E-Bikes
- Motorcycles
- Autonomous Lawn Mowers
- Boating / Marine
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