PRODUCT GUIDE

VOL. 2

JST

The Quality Connection



JST
The Quality Connection

WHO WE ARE



JST Deutschland GmbH was founded in August 1984 as a wholly owned subsidiary of J.S.T.-Mfg. Co. Ltd., Osaka, Japan, founded in 1957.
Initially, the company exclusively manufactured and distributed loose piece terminals. Today, JST produces and distributes connectors worldwide for the consumer electronics, telecommunications, medical technology, camera, computer and automotive industries. In addition to our standard products, which are used worldwide in all industrial sectors, JST also offers customized solutions.

Following you will find an overview of our portfolio. Please understand that we cannot display all connectors from our large range here.

Contact us; we would be happy to support you with your project and convince you of our service and quality.

We look forward to your inquiry.

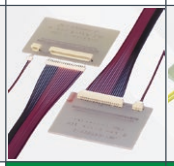
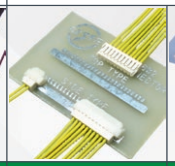
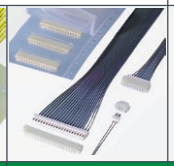
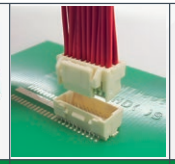
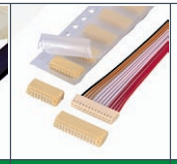
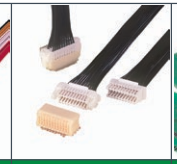
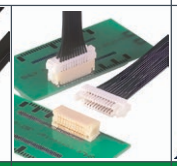
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Your JST Germany team

Your benefits:

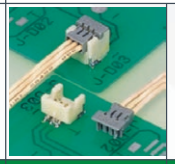
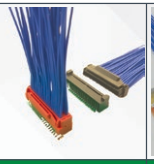
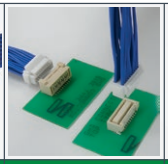
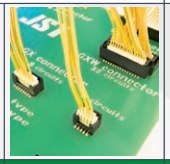
- more than 50 years' experience
- local warehousing
- distribution sales network
- separate samples logistic – samples within 1 working day
- German Project- / Product-Management
- dedicated inside and outside sales team
- highly skilled personnel in harness assembly
- tooling service
- technical support

Wire-to-Board connectors

Pitch	0.6 mm	0.8 mm		1.0 mm							1.2 mm
											
Product Series	**XSR**	**SUH**	**SUR**	**NSH**	**NSHD**	**SH**	**SHD**	**SR/SZ**	**SHLD**	**SHLV**	**ACH**
Current Rating	0.2A	1.0A (AWG #28)	* 0.5A (AWG #32)	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)	1.0A (AWG #28)	0.7A	1.0A (AWG #28)	1.0A (AWG #28)	2.0A-1.5A (AWG #28)
Voltage Rating	30V	30V	30V	50V	50V	50V	50V	50V	50V	30V	50V
Temp. Range (°C) extension may be possible, pls. clarify	-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 entry	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side	Top entry side feed
Crimp		✓		✓	✓	✓	✓		✓	✓	✓
IDC	✓		✓					✓			
Through Hole								✓			
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Row					✓		✓		✓	✓	
Wire-to-Wire Available				✓							✓
Active 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	16, 20, 24, 28, 32, 40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20	20, 30, 40, 50	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	20, 30, 40, 50	21, 31	1, 2, 3, 4, 5
AWG range	36	32-28	36, 32	32-28	32-28	32-28	32-28	30	32-28	32-28	32-28
Remarks	mounting height only 1.45 mm	Compatible with SUR header	*0.2A for AWG #36	potting type header available		SR header is compatible with SH crimp style connector	gold plated		layout compatible with SHD header, gold plated	For LVDS applications	gold plated

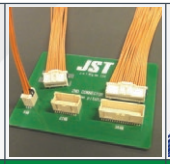
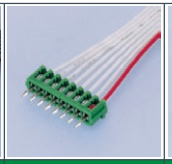
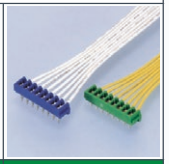
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Wire-to-Board connectors

Pitch	1.2 mm		1.25 mm						1.3 mm	1.5 mm	
											
Product Series	**ACHF**	**ACHL**	**AGH**	**GERD**	**GEZ**	**GH**	**GHD**	**GX/GXW**	**ADH**	**SZN**	**ZA**
Current Rating	2.5A (AWG #28)	2.0A (AWG #28)	1.0A (AWG #26)	1.5A (AWG #26)	1.5A (AWG #26)	1.0A (AWG #26)	*1.25A (AWG #26)	*2.0A (AWG #26)	3.0A (AWG #26)	0.7A (AWG #26)	0.7A (AWG #28)
Voltage Rating	50V	50V	50V	50V	50V	50V	50V	50V	30V	50V	50V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-40 to +105	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Top entry side feed	Top entry side feed	Top entry side feed	Top/Side	Top/Side	Top/Side	Top/Side	**Top/Side	Top entry side feed	Top entry board-in	Top entry board-in
Crimp	✓	✓	✓	✓	✓	✓	✓		✓	✓	
IDC								✓			✓
Through Hole										✓	✓
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Dual-Row				✓			✓	✓			
Wire-to-Wire Available											
Active Locking				✓	✓	✓	✓				
No. of positions	3, 4, 6	2	3	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	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 GXW: 32, 36, 40	2, 3, 5	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
AWG range	30-28	30-28	30-26	30-26	30-26	30-26	32-26	26, 28	26, 28	30-26	30, 28
Remarks	gold plated	gold plated	gold plated mounting height 4.4 / 6.1 mm			different keying available	*Gold-plated 1.0A (AWG 26) **Only for Tin-plated	*GXW (2-row): 1.5A (AWG#26) ** GXW: only top entry GXW: keying available	gold plated mounting height 1.9 mm	PCB thickness 0.6 to 1.2 mm	PCB thickness 0.6 to 1.2 mm

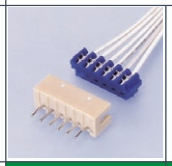
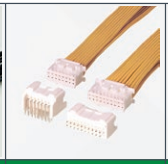
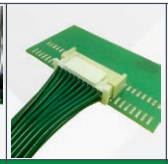
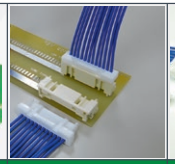
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Wire-to-Board connectors

Pitch	1.5 mm					1.8 mm		2.0 mm			
											
Product Series	**ZE**	**ZH**	**ZND**	**ZPD**	**ZR**	**LEA**	**SFH**	**CPM**	**CPT**	**DA**	**DD/DS**
Current Rating	2.0A (AWG #24)	1.0A (AWG #26)	2.0A (AWG #24)	*2.0A (AWG #24)	0.7A (AWG #28)	3.0A (AWG #22)	4.0A (AWG #22)	3.0A (0.3 mm^2)	3.0A (0.3 mm^2)	1.0A (AWG #26)	0.7A (AWG #28)
Voltage Rating	100V	50V	100V	100V	50V	300V	350V		50V	100V	100V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-55 to +105	-25 to +85	-40 to +125	-40 to +100	-25 to +85	-25 to +85
Orientation	Top/Side	Top/Side	Top entry	Top/Side	Top/Side	Side entry	Side entry	Top/Side	Top/Side	Top entry board-in	Side entry board-in
Crimp	✓	✓	✓	✓		✓	✓	✓	✓		
IDC					✓					✓	✓
Through Hole	✓	✓			✓					✓	✓
SMT	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Dual-Row			✓	✓				✓	✓		
Wire-to-Wire Available		✓	✓		✓						
Active Locking	✓		✓	✓		✓	✓	✓	✓		
No. of positions	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	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36	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	8, 12, 16, 20	2, 4, 8, 12, 16, 20, 24	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
AWG range	30-24	32-26	28-24	28-24	30, 28	30-22	30-22	0.3 mm^2	0.3 mm^2	28, 26	28
Remarks		Socket compatible with IDC type ZR ZM wire-to-wire 2, 3, 9, 13 circuits	header suitable for potting process	*1.5A for 32-40 circuits	IDC version of ZH Compatible with ZH header ZM wire-to-wire 2, 3, 9, 13 circuits	low profile connector (height: 3 mm) designed for LED	low profile connector (height: 3 mm)	Automotive 0.50 terminal PCB pattern as CPT	Automotive 0.50 terminal	PCB thickness 1.2 mm, 1.6 mm	PCB thickness DD: 0.8, 1.0 mm DS: 1.2, 1.6 mm

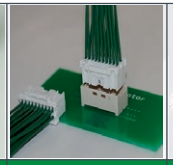
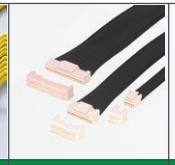
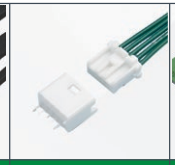
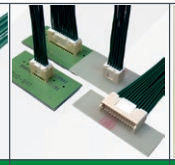
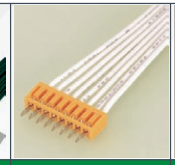
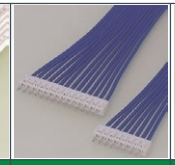
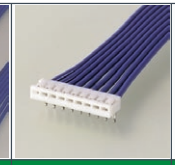
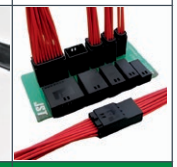
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Wire-to-Board connectors

Pitch	2.0 mm										
											
Product Series	**DR**	**KR**	**KRD**	**MEC**	**PA**	**PA modified**	**PAD**	**PAMU**	**PBD**	**PBV**	**PH**
Current Rating	1.0A (AWG #26)	1.0A (AWG #26)	1.0A (AWG #26)	3.0A (0.3 mm²)	3.0A (AWG #22)	3.0A (AWG #24)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	2.0A (AWG #24)
Voltage Rating	100V	100V	100V	50V	*250V	100V	250V	50V	100V	100V	100V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-25 to +85	-40 to +125*	-40 to +105	-40 to +125	-25 to +85	-40 to +125	-25 to +85	-25 to +85	-40 to +105
Orientation	Top/Side	Top/Side	Top/Side	Top/Side	Top/Side Bottom	Top/Side	Top/Side	Top/Side	Side entry	Top/Side	Top/Side
Crimp		✓		✓	✓	✓	✓	✓	✓	✓	✓
IDC	✓	✓	✓								
Through Hole	✓	✓	✓	✓	✓		✓				✓
SMT		✓	✓	✓	✓	✓		✓	✓	✓	✓
Dual-Row				✓			✓		✓		
Wire-to-Wire Available		✓			✓						✓
Active Locking					✓	✓	✓	✓	✓	✓	
No. of positions	2, 3, 4, 5, 6, 7, 8, 9, 10	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	5, 8, 10, 12, 18, 20, 24	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, 15	10, 12, 14, 16, 20, 22, 24, 40	2, 3, 4, 5, 6, 8, 10, 12	16, 20, 30	2, 3, 4, 6, 8, 10, 12, 15	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
AWG range	28, 26	28, 26	28, 26	0.3 mm²	28-22	0.22 / 0.35 mm²	28-22	26, 22	28-22	28-22	32-24
Remarks		IDC version of PH series	Daisy chain connection headers of PH series can be used	*gold plated Automotive with 0.50 terminal keying available	*100V with retainer type high box type available	Automotive, crimp section correspond to VW60330 to meet LV214-2		Automotive, different keying			High box type and wire-to-wire adapter available

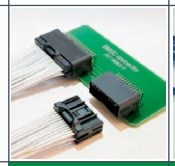
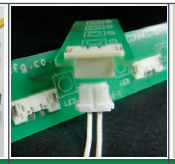
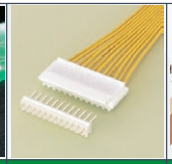
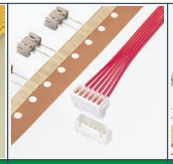
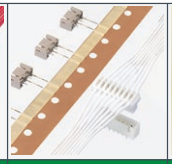
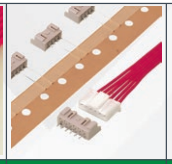
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Wire-to-Board connectors

Pitch	2.0 mm										2.2 mm
											
Product Series	**PHD**	**PID**	**PLI**	**PND**	**PNI**	**PUD**	**SAN**	**SGN**	**SJN**	**ULH**	**JFA J1000**
Current Rating	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	3.0A (AWG #22)	2.0A (AWG #24)	2.0A (AWG #24)	3.0A (AWG #22)	5.0A (AWG #22)	*6.4A
Voltage Rating	250V	250V	100V	250V	100V	250V	250V	250V	250V	100V	125/250V
Temp. Range (°C) extension may be possible, pls. clarify	-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	-40 to +125	-55 to +105
Orientation	Top/Side	Top entry	Top entry	Top entry	Top entry	Top/Side	Top entry board-in	Top entry board-in	Side entry board-in	Side entry & right angle up and down	Top/Side
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IDC											
Through Hole	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
SMT						✓				✓	
Dual-Row	✓	✓		✓		✓					✓
Wire-to-Wire Available					✓						✓
Active Locking		✓	✓	✓	✓	✓				✓	✓
No. of positions	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34	10, 12, 14, 16, 18, 20, 22, 24, 26, 30	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, 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	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	8, 13, 14	2, 3, 4, 6, 7, 8, 9, 10, 11	2, 4, 6, 8, 10,	3, 6, 8, 12, 20, 22, 26, 30
AWG range	28-22	26-22	28-22	28-22	28-22	28-22	30-24	28-24	28-22	0.3 / 0.35 mm²	28-18
Remarks			Inertia lock mechanism		High box type and wire-to-wire available. Inertia lock mechanism		PCB thickness 1.2 & 1.6 mm	PCB thickness 1.2 to 1.6 mm	PCB thickness 1.2 to 1.6 mm	Automotive, USCAR-2 & LV214 Key codes CPA gold/tin	*3 circuits, AWG #18. See catalog for details.

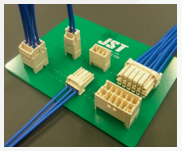
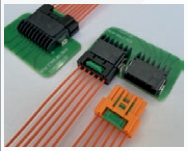
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Wire-to-Board connectors

Pitch	2.2 mm	2.5 mm									
											
Product Series	**BMSC**	**EH**	**JFAJ2000**	**LEX**	**NH**	**NR**	**NRD**	**SCN**	**XA**	**XAD**	**XH**
Current Rating	5.0A (0.5 mm²)	3.0A (AWG #22)	*4.6A	3.0A (AWG #22)	3.0A (AWG #22)	2.0A (AWG #24)	2.0A (AWG #24)	3.0A (AWG #22)	3.0A (AWG #22, #20)	3.0A (AWG #20)	3.0A (AWG #22)
Voltage Rating	150V	250V	250V	300V	250V	250V	250V	250V	250V	250V	250V
Temp. Range (°C) extension may be possible, pls. clarify	-40 to +105	-25 to +85	-55 to +105	-55 to +105	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-40 to +105	-25 to +85	-25 to +85
Orientation	Side entry	Top/Side	Top/Side	Bottom	Top/Side/Bottom	* Top	Top/Side	Top entry board-in	Top/Side	Top/Side	Top/Side
Crimp	✓	✓	✓	✓	✓			✓	✓	✓	✓
IDC						✓	✓				
Through Hole	✓ **(THR)**	✓	✓		✓	✓	✓	✓	✓	✓	✓
SMT				✓					✓		✓
Dual-Row	✓		✓							✓	
Wire-to-Wire Available			✓						✓	✓	
Active Locking	✓		✓	✓					✓	✓	
No. of positions	16, 20, 24, 28, 32, 36, 40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	3, 4, 6, 8, 10, 12, 16, 20, 30, 40	2, 4	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 22, 24, 25	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, 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
AWG range	0.3 to 0.5 mm²	32-22	28-20	30-22	30-22	28, 26, 24	28, 26, 24	28-22	28-20	28-20	30-22
Remarks	Automotive, key code available		*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, GWT and high box type available		high box type available, compatible with NR and NRD

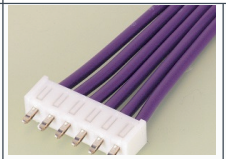
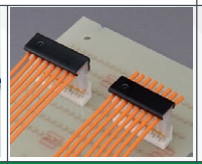
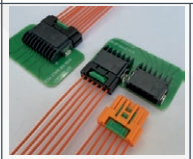
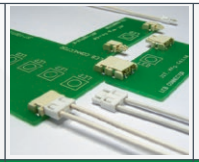
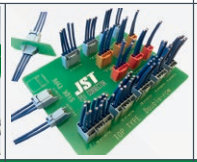
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Wire-to-Board connectors

Pitch	2.5 mm		2.54 mm	3.0 mm	3.3 mm	3.5 mm		3.81 mm	3.96 mm
									
Product Series	**XM High Box type**	**XNI**	**ATLF**	**BSS**	**BNI**	**HVM**	**TLDR**	**JFA J300**	**HL**
Current Rating	3.0A (AWG #22, #20)	3.0A (AWG #22)	5.0A (0.75 mm²)	*7.0A	4.0A (AWG #20)	5.0A (0.5 mm²)	5.0A (0.5 mm²)	*15.0A	*7.0A
Voltage Rating	250V	250V	14V	250V	300V	1.000V	600V	250V	300V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-40 to +125	-25 to +85	-25 to +85	-40 to +125 (gold) -40 to +100 (tin)	-40 to +125	-55 to +105	-25 to +90
Orientation	Top entry	Top entry	Side entry	Top entry	Top entry	Top/Side	Side entry	Top/Side	Top entry
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓
IDC									
Through Hole	✓	✓	✓		✓		✓ (THR)	✓	✓
SMT				✓		✓			
Dual-Row			✓	✓	✓		✓	✓	✓
Wire-to-Wire Available	✓					planned		✓	✓
Active Locking	✓	✓	✓	✓	✓	✓	✓	✓	✓
No. of positions	2, 3, 4, 5, 6, 7, 8, 9, 10	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15	21	4, 6, 8, 10	1-row: 2, 3, 6 2-row: 4, 6, 8, 10, 12	10	12 & 16	3, 4, 5, 6, 8, 10, 12, 16, 20, 40	4, 8, 12
AWG range	28-20	30-22	0.35-0.75 mm²	22-18	24-20	0.3-0.5 mm²	22-20	28-14	22-18
Remarks	header suitable for potting process	inertia lock mechanism, key pattern available	0.64 Automotive connector system with CPA and ISL TPA multiple key options	*4 & 6 circuits, AWG #18 Inertial lock mechanism, key pattern	suitable for potting process, intertia lock mechanism, key pattern	0.64 Automotive connector system with CPA and key options	Automotive, terminal secondary lock and CPA funtion	*1 circuit, AWG #14 See catalog for details.	*4 circuits, AWG #18. See catalog for details.

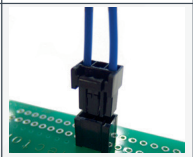
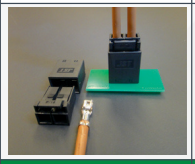
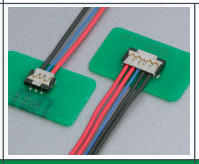
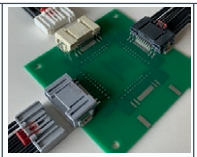
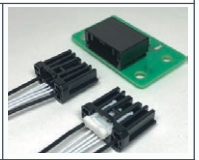
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Wire-to-Board connectors

Pitch	3.96 mm			4.0 mm			5.0 mm		5.08 mm
									
Product Series	**SDN**	**VH**	**VR**	**HVM**	**LEB**	**PSI**	**NV**	**XL**	**JFA J300**
Current Rating	7.0A (AWG #18)	10.0A (AWG #16)	7.0A (AWG #18)	5.0A (0.5 mm²)	3.0A (AWG #22)	*12.0A	10.0A (AWG #16)	*10.0A	*15.0A
Voltage Rating	250V	250V	250V	1.250V	300V	300V	250V	150V	600V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-40 to +105	-25 to +85	-40 to +125 (gold) -40 to +100 (tin)	-55 to +105	-25 to +85	-25 to +85	-25 to +90	-55 to +105
Orientation	Top entry board-in	Top/Side	Top/Side	Top/Side	Side entry	Top/Side	Top entry	Top/Side	Top/Side
Crimp	✓	✓		✓	✓	✓	✓	✓	✓
IDC			✓						
Through Hole	✓	✓	✓			✓	✓	✓	✓
SMT				✓	✓				
Dual-Row						✓		✓	✓
Wire-to-Wire Available				planned		✓		✓	✓
Active Locking		✓		✓		✓	✓	✓	✓
No. of positions	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	2, 3, 4, 5, 6, 7, 8, 9, 10, 11	2, 3, 4, 5, 6, 8, 10	6	1, 2	2, 3, 4, 5, 6, 8, 10, 12, 14	2, 3, 4	2, 3, 4, 6, 8, 12, 16	2, 3, 4, 5, 6, 8, 9, 10, 12, 20
AWG range	22-18	22-16	26, 24, 22, 20, 18	0.3-0.5 mm²	26-22	26-16	22-16	26-16	28-14
Remarks		High box and quick connect (for solid wire) type available	daisy chain and end connections possible	0.64 Automotive connector system with CPA and key options	for LED lighting, height: 2.7 mm, horizontal Board-to-Board type available	*2 circuits, AWG #16 secure locking mechanism, key codes available		*2 circuits, AWG #16. See catalog for details.	*1 circuit, AWG #14. See catalog for details.

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Wire-to-Board connectors

Pitch	6.0 mm	6.2 mm	8.0 mm	8.8 mm	4/8/12 mm	Hybrid			
									
Product Series	**JFA J4000**	**VL**	**PSI D Type**	**JFPS**	**BH**	**AUH**	**LBT**	**PICO-H**	**RHU**
Current Rating	*22.0A	*20.0A	*15.0A	*35.0A	1.0A (AWG #22)	power: 5A signal: 1A	power: 8A signal: 0.5A	power: 19A signal: 5A	power: 25A signal: 5A
Voltage Rating	600V	600V	600V	600V	600V	30V	50V	14V	
Temp. Range (°C) extension may be possible, pls. clarify	-55 to +105	-25 to +90	-25 to +85	-40 to +105	-25 to +85	-25 to +85	-25 to +85	-40 to +125*	-40 to +105
Orientation	Top/Side	Top entry	Top entry	Top/Side	Side entry	top entry side feed	Side entry	Side entry	Side entry
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓
IDC									
Through Hole	✓	✓	✓	✓					✓
SMT					✓	✓	✓	✓	
Dual-Row		✓						✓	
Wire-to-Wire Available		✓			✓				
Active Locking	✓	✓	✓	✓				✓	✓
No. of positions	2, 3, 4, 6	2, 3, 4, 6, 8, 12	2	1, 2, 3, 4	2, 3, 4, 5	3 & 5	3, 5, 7, 9	20 (4&16)	6
AWG range	16-12	22-12	20-16	16-10	28-22	30-22	28-20	0.13-0.5 / 0.75-1.5 mm^2	0.13-5.0 mm^2
Remarks	J4300S is 6.35mm pitch *2 circuits, AWG #12. See catalog for details.	*2 circuits, AWG #12. high current up to 23A available	*3 circuits without 2nd pin	*1&2 circuits AWG #10 gold and tin plating, different key codes available		height: 1.85 mm	Power supply circuit x2	automotive connector, ISL TPA & CPA, USCAR-2 & LV214* *pls. refer to our spec.	0.64 / 2.8 automotive connector, optional CPA

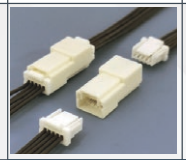
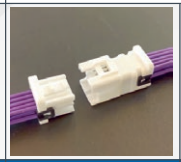
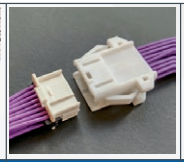
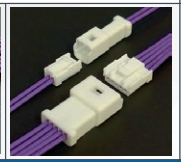
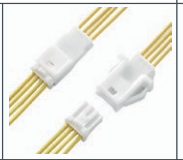
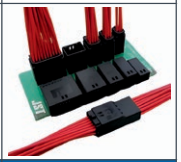
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Wire-to-Board connectors

Pitch	single circuit			
				
Product Series	**SDF**	**SIN**	**SMF**	**SPF**
Current Rating	5.0A (AWG #20)	depends on wire range	5.0A (AWG #20)	5.0A (AWG #20)
Voltage Rating				
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-25 to +85	-25 to +85
Orientation	Top entry	Top entry board-in	Top entry	Top entry
Crimp	✓	✓	✓	✓
IDC				
Through Hole	✓	✓	✓	✓
SMT				
Active Locking				
No. of positions				
AWG range	24-20	30-10	26-20	24-20
Remarks	for 1.3 mm diameter and 1.0 mm square contacts	different shapes and hole diameters for PCB thickness 1.2 / 1.6 mm	for 1.0 mm and 1.3 mm diameter pins	for 2.36 mm diameter pins

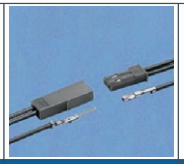
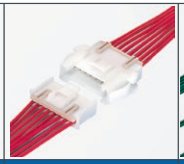
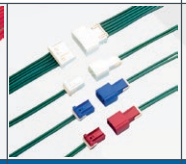
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Wire-to-Wire connectors

Pitch	1.0 mm	1.2 mm	1.5 mm				2.0 mm			2.2 mm
										
Product Series	**NSH**	**ACH**	**ZIM**	**ZM**	**ZND**	**ZOM**	**KR family**	**PAL**	**PNI**	**JFA J1000**
Current Rating	1.0A (AWG #28)	2.0A (AWG #28)	2.0A (AWG #24)	0.7A (AWG #28)	2.0A (AWG #24)	2.0A (AWG #24)	1.0A (AWG #26)	3.0A (AWG #22)	3.0A (AWG #22)	*6.4A
Voltage Rating	50V	50V	100V	50V	100V	100V	100V	100V	100V	125V
Temp. Range (°C) extension may be possible, pls. clarify	-25 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	-55 to +105
panel lock					✓		✓	✓	✓	
Crimp		✓	✓	and IDC	✓	✓			✓	✓
Dual-Row			✓		✓					✓
Wire-to-Board Available	✓			✓	✓		✓	✓	✓	✓
Active Locking	✓		✓		✓	✓		✓	✓	✓
No. of positions	5	2	8 & 10	2, 3, 9, 13	16, 24, 32, 40	2, 3, 4, 5	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	2, 3, 4, 5, 6, 7, 8	2, 3, 4, 5, 6, 8, 10	3, 6, 8, 12, 20, 26
AWG range	32-28	30-28	28-24	30-28	28-24	28-24	28-24	28-22	28-22	28-18
Remarks	wire-to-wire adapter for 1-N wire configurations		inertia lock mechanism, retainer mountable type	Mates with ZH (crimp) and ZR (IDC) sockets	retainer mountable type	inner lock mechanism	wire-to-wire adapter for panel thickness 0.5-2.0 mm	compatible with PA family	inertial lock structure, retainer	*3 circuits, AWG #18. See catalog for details.

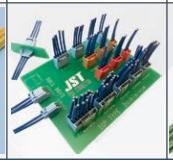
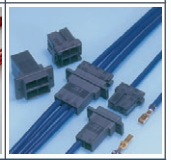
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Wire-to-Wire connectors

Pitch	2.5 mm							3.5 mm	3.81 mm	3.96 mm
										
Product Series	**JFAJ2000**	**RCY**	**SM**	**XA**	**XAD**	**XM**	**XMA**	**JFAJ2000**	**JFA J300**	**HL**
Current Rating	*4.6A	3.0A (AWG #22)	3.0A	3.0A (AWG #22, #20)	3.0A (AWG #20)	3.0A (AWG #20)	3.0A (AWG #22)	*3.6A	*12.25A	*7.0A
Voltage Rating	125/250V	250V	250V	250V	250V	250V	250V	250V	250V	300V
Temp. Range (°C) extension may be possible, pls. clarify	-55 to +105	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85 GWT: -25 to +105	-25 to +85	-55 to +105	-55 to +105	-25 to +90
panel lock	✓		✓	✓	✓	✓		✓	✓	✓
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Row	✓		✓		✓	✓		✓	✓	✓
Wire-to-Board Available	✓			✓	✓	✓		✓	✓	✓
Active Locking	✓		✓	✓	✓	✓	✓	✓	✓	✓
No. of positions	3, 4, 6, 8, 10, 12, 16, 20	2	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 GWT: 16, 18, 26	2, 3, 4, 5, 6	12, 18, 20	3, 4, 5, 6, 8, 10, 12, 16, 20	2, 3, 4, 8, 9, 12
AWG range	28-20	28-22	28-22	28-20	28-20	28-20 GWT: 26-20	26-22	28-20	28-14	22-18
Remarks	*3 circuits, AWG #20. • 3.5mm pitch also available • See catalog for details.	small size: mating dimension: 23.3 x 4.0 mm	housing color black and white available	GWT version available, retainer mountable	retainer mountable	retainer mountable, inner housing lock GWT version available	retainer mountable	*12 circuits, AWG #20. • 2.5mm pitch also available • See catalog for details.	*3 circuit, AWG #14 See catalog for details.	*2 circuits, AWG #18. See catalog for details.

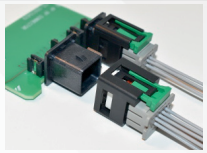
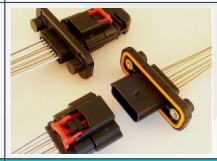
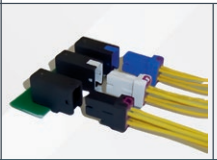
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Wire-to-Wire connectors

Pitch	3.96 mm	4.0 mm	4.5 mm		5.0 mm		5.08 mm	5.4 mm	6.2 mm		11.0 mm
											
Product Series	**SL**	**PSI**	**EL**	**YL**	**XL**	**ZL**	**JFA J300**	**JFA J300**	**VL**	**VL high current**	**JFA J5000**
Current Rating	*7.0A	*12.0A	*10.0A	*10.0A	*10.0A	*10.0A	*15.0A	*8.5A	*20.0A	*23.0A	*50.0A
Voltage Rating	300V	300V	300V	300V	300V	300V	600V	600V	600V	600V	600V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +90	-25 to +85	-25 to +90	-25 to +90	-25 to +90	-25 to +90	-55 to +105	-55 to +105	-25 to +90	-25 to +90	-55 to +105
panel lock		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crimp	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual-Row	✓		✓	✓	✓	✓	✓		✓	✓	✓
Wire-to-Board Available		✓			✓		✓		✓	✓	
Active Locking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No. of positions	1, 2, 3, 4, 6	2, 3, 4	2, 3, 4, 6, 9, 12, 15	1, 2, 3, 4, 6, 8, 9, 10, 12, 15, 16, 20, 21	2, 4, 8, 12, 16	2, 4, 6, 8, 12, 16	1, 2, 3, 4, 6, 9, 12, 18, 20, 24	30 & 40	1, 2, 3, 4, 6, 8, 12	1, 2, 3, 4	1, 2, 3, 4, 6, 10
AWG range	26-18	26-16	26-16	26-16	26-16	26-16	28-14	28-14	22-12	20-12	16-8
Remarks	*1/2 circuits, AWG #18 See catalog for details.	*2 circuits, AWG #16 secure locking mechanism, key codes available	*2/3/4 circuits, AWG #16 See catalog for details.	*1/2 circuit, AWG #16 See catalog for details. GWT version available.	*2 circuit, AWG #16 See catalog for details.	*2 circuit, AWG #16 See catalog for details.	*1 circuit, AWG #14 See catalog for details.	*30/40 circuit, AWG #14 See catalog for details. Triple row.	*1/2 circuit, AWG #12 See catalog for details.	*1/2 circuit, AWG #12 See catalog for details.	*1 circuit, AWG #8 See catalog for details.

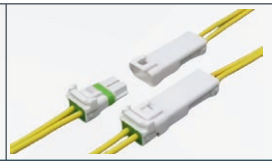
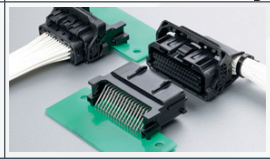
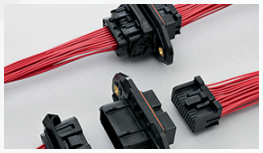
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Waterproof connectors

Pitch	1.5 mm	1.8/2.0 mm*	2.0 mm			2.54 mm	4.0 mm	
								
Product Series	**ZWP**	**WMC**	**WMCB**	**JWPF** Wire-to-Board	**JWPF** Wire-to-Wire	**ATSS**	**JWPS** Wire-to-Board	**JWPS** Wire-to-Wire
Current Rating	2.0A (AWG #24)	3.0A (0.35 mm²)	3.0A (0.35 mm²)	3.0A (AWG #22)	3.0A (AWG #22)	7.0A (0.8 mm²)	*6.0A (AWG #18)	*6.0A (AWG #18)
Voltage Rating	50V			100V	100V		300V	300V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-40 to +105	-40 to +105	-55 to +85	-55 to +85	-40 to +105	-55 to +85	-55 to +85
wire-to-board			✓	✓			✓	
orientation			Side entry	Top entry			Side entry	
SMT / THT			SMT	THT			THT	
wire-to-wire	✓	✓			✓	✓		✓
dual row	✓	✓	✓	✓	✓	✓	✓	✓
Active Locking	✓	✓	✓	✓	✓	✓	✓	✓
No. of positions	2, 3, 4, 5, 6, 8	2, 4, 8	4 & 8	2, 3, 4, 6, 8	2, 3, 4, 6, 8	8	2 & 4	2 & 4
AWG range	28-24 (OD 0.9-1.2 mm)	0.22-0.35 mm² (OD 1.0-1.2(1.3) mm)	0.22-0.35 mm² (OD 1.0-1.3 mm)	26-22 (OD 1.4-1.7 mm)	26-22 (OD 1.4-1.7 mm)	0.3-0.8 mm² (OD 1.4-1.9 mm)	22-18 (OD 1.75-2.5 mm)	22-18 (OD 1.75-2.5 mm)
Remarks	IPX7 (IEC60529)	*1.8 mm: 2&8 circuits *2.0 mm: 4 circuits 0.5 automotive connection, CPA, key codes, dummy plug available clip mountable, IP67	0.5 automotive connection, CPA, key codes, dummy plug available clip mountable, IP67/IP69 (with cable cover)	IPX7 (IEC60529)	IPX7 (IEC60529) planning: 10-16 circuits Panel lock type 8-circuits available	0.64 automotive USCAR connection, TPA, CPA, cavity block options available	*4 circuit, AWG #18 See catalog for details. IPX7 (IEC60529)	*4 circuit, AWG #18 See catalog for details. IPX7 (IEC60529)

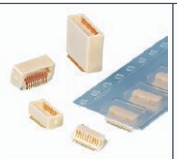
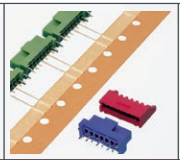
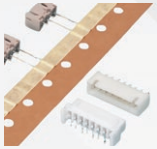
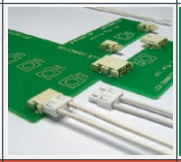
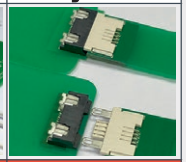
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Waterproof connectors

Pitch	5.0 mm		Hybrid		-	-
						
Product Series	**WPJ** Wire-to-Board	**WPJ** Wire-to-Wire	**ZRO** Wire-to-Board	**EVZ2** Wire-to-Wire	**UB Micro USB** Waterproof	**UBC type-C** Waterproof
Current Rating	7.0A (AWG #18)	7.0A (AWG #18)	power: 7A signal: 5A	5.0A (0.5 mm^2)	*1.8A(power)/ 0.5A(signal)	1.25A/ 0.25A
Voltage Rating	300V	300V	50V		30V	20V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-40 to +120	-40 to +125	-30 to +85	-25 to +85
wire-to-board	✓		✓			
orientation	Top entry		Side entry planned: top entry		Side entry	Side entry
SMT / THT	THT		THT		SMT	SMT
wire-to-wire		✓		✓		
dual row			3-row	3-row		
Active Locking	✓	✓	✓	✓		
No. of positions	2 & 3	2 & 3	36 & 48	10, 27, 36	5	24
AWG range	22-18 (OD 2.32-2.83 mm)	22-18 (OD 2.32-2.83 mm)	0.3-0.85 mm^2 (OD 1.4-1.8 mm)	0.3-0.85 mm^2 (OD 1.4-1.9 mm)	-	-
Remarks	non-waterproof available IPX7 (IEC60529)	non-waterproof available IPX7 (IEC60529)	0.64 automotive connection, TPA, CPA, dummy plug, key codes available	0.64 automotive connection, panel mount, TPA, CPA, dummy plug, key codes available	*1.0A for signal use only IPX7 (IEC60529)	• Power supply max. 100W • USB3.2 compl. data trans. rate of up to 20 Gbps • IPX8 (IEC60529)

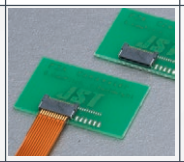
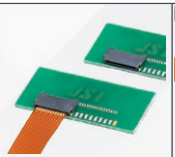
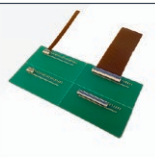
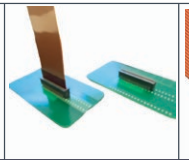
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Board-to-Board connectors

Pitch	0.5 mm		1.25 mm		2.5 mm			2.54 mm	4.0 mm	Hybrid
										
Product Series	**JMC**	**JMD**	**JE**	**JED**	**HVQ**	**JL**	**JQ**	**HVD**	**LEB**	**LEI**
Current Rating	0.5A	0.5A	1.0A	1.0A	3.0A	3.0A	3.0A	4.5A	3.0A	power: 3A signal: 1A
Voltage Rating	50V	50V	50V	50V	250V	250V	250V	14V	300V	150V
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-40 to +125	-55 to +105	-25 to +85
Orientation	vertical & parallel	vertical & parallel	vertical	vertical & parallel	vertical, parallel, horizontal	vertical	vertical, parallel, horizontal	vertical	horizontal	horizontal
Through Hole			✓	✓	✓	✓	✓			
SMT	✓	✓						✓	✓	✓
Dual-Row	✓	✓		✓						
Positive Locking			✓	✓	✓	✓				
Stack height	3-10mm standard type 4-11mm misalignment absorption type	4.5mm-6.0mm	-	7.0mm	11.4mm	-	11.8mm	7.6 mm		
No. of positions	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, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15	6	1 & 2	6 (2+4)
Remarks	Versatile connector system						Compatible with XH header	0.64 automotive connection, up to 9 variations available	low profile: height 2.7 mm wire-to-board also available	low profile: height 2.4 mm halogen-free

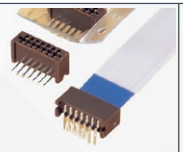
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FFC / FPC connectors

Pitch	0.25 mm	0.3 mm		0.4 mm	0.5 mm					
										
Product Series	**FGEM**	**FXR**	**FXZT**	**FZA**	**FHA**	**FHH**	**FHYS**	**FHT**	**FKZ**	**FLH**
Current Rating	0.2A	0.2A	0.2A	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	50V
Temp. Range (°C) extension may be possible, pls. clarify	-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
ZIF	✓	✓	✓			✓	✓		✓	✓
non-ZIF				✓	✓			✓		
THT / SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT	SMT
Orientation	Side entry	Side entry	Top entry	Side entry	Side entry	Side entry	Side entry	Top entry	Side entry	Side entry
Standard plating other plating maybe available	gold	gold	gold	gold	gold	gold	gold	gold	tin	tin
contact location	double	bottom		double	double	double	bottom		top / bottom	top / bottom
height (mm)	1.4/1.69	1.0	3.7	1.0	1.1	2.0	0.9	3.3	1.8	1.2
No. of positions	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, 10, 12, 13, 14, 16, 20, 22, 24	4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30	10, 20, 30, 40, 50, 60	4, 5, 6, 8, 10, 11, 12, 14, 15, 16, 17, 18, 20, 22, 24, 27, 28	4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32	5, 6, 8, 12, 13, 14, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30. 32	4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 24, 28, 30, 40
Remarks	mid-flip /back lock type for FPC with protrusions	front-flip type		layout compatible with FZ connector	renewal of FHJ connector	back-flip type for FPC with protrusions	front-lock type	Halogen-free, single action feature		

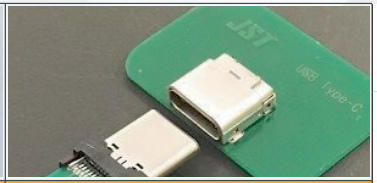
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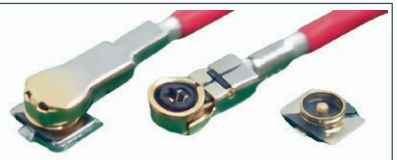
FFC / FPC connectors

Pitch	0.5 mm			1.0 mm					1.25 mm
									
Product Series	**FLT**	**FLZ**	**FLZT**	**FAZ**	**FM**	**FMN**	**FMS**	**FPZ**	**FFS**
Current Rating	0.5A	0.5A	0.5A	1.0A	0.5A	0.5A	0.5A	0.5A	0.5A
Voltage Rating	50V	50V	50V	50V	50V	50V	50V	50V	50V
Temp. Range (°C) extension may be possible, pls. clarify	-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
ZIF		✓	✓	✓				✓	
non-ZIF	✓				✓	✓	✓		✓
THT / SMT	SMT	SMT	SMT	SMT	THT / SMT	THT / SMT	SMT	SMT	SMT
Orientation	Top entry	Side entry	Top entry	Top/Side	Top/Side	Top/Side	Side entry	Side entry	Side entry
Standard plating other plating maybe available	tin	tin	tin	tin	tin	tin	tin	tin	tin
contact location		top / bottom		top / bottom	double	top	double	bottom	double
height	4.15	2.0	3.9	5.0 / 2.8	4.4 / 3.0	5.1/5.15/3.0/3.05	2.8	2.9	2.8
No. of positions	6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 40	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 22, 24, 26, 27, 28, 30, 32, 33, 34, 36, 40, 42, 50	6, 8, 10, 12, 14, 15, 16, 18, 20, 21, 22, 24, 28, 30, 40	8, 9, 11, 16, 20, 22, 24, 25, 26	3, 4, 5, 6, 7, 8, 10, 11, 12	*4 - 40	3, 4, 5, 6, 8, 10, 11, 12, 14	7, 8, 10, 11, 12, 13, 14, 15, 16, 18, 20, 24, 25	4, 5, 6, 8, 15, 21, 26
Remarks						*See catalog for details			

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Interface & Coaxial connectors

		
Product Series	**USB 2.0 Type A&B**	**USB Type C**
Current Rating	1.0A / line	1.25A / 0.25A
Voltage Rating	30V	20V
Temp. Range (°C) extension may be possible, pls. clarify	-55 to +85	-25 to +85
Orientation	side / vertical / straight	Side entry
THT	✓	✓
SMT	✓	✓
dual row available	✓	
flange	side and upper available	PCB flange available
solder tab	with and without available	
Remarks		up to 10.000 mating cycles power supply up to 100W

	
Product Series	**AUY2T**
Current Rating	0.3A
Voltage Rating	30Vms
Temp. Range (°C) extension may be possible, pls. clarify	-25 to +85
Orientation	Top entry side feed
THT	
SMT	✓
height	1.05 mm
applicable coaxial cable	dia. 0.81 mm
receptacle	base dia. 1.3 mm
Remarks	Micro coaxial connector Frequency range : DC to 20 GHz plug harness with SMA available

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