

JST

The Quality Connection



PRODUCT OVERVIEW



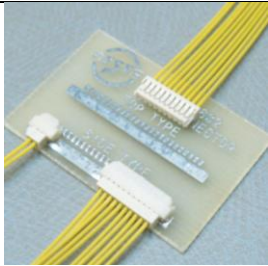

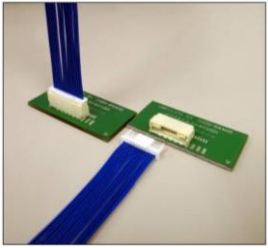

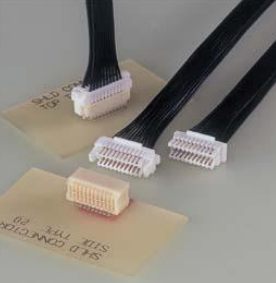
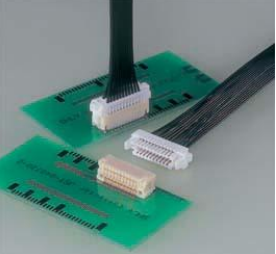
In August of 1984, JST Deutschland GmbH was founded as a wholly owned Subsidiary of J.S.T.- Mfg. Co. Ltd. Osaka/Japan, established in 1957. At the beginning only loose piece terminals were being manufactured and distributed, today JST manufactures and sells all over the world connectors into the Consumer Electronics, Telecommunication, Medical, Camera Industry, Computers.

Since 1993 J.S.T. is developing connectors especially for the automotive market and their system supplier. With a special intern organization (the J.S.T.-Automotive Group) J.S.T. will support the automotive market much better in case of design and service. Beside the known quality standards, the J.S.T.-Automotive Group is a competent and strong partner for design and development of special customer solutions and future oriented technologies.

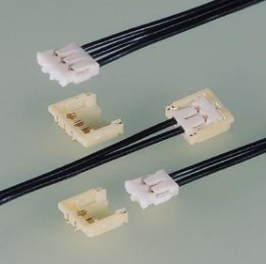
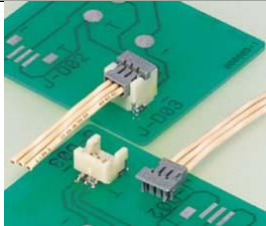

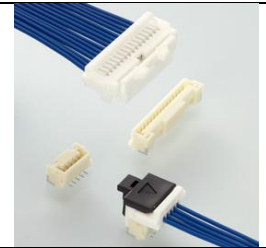
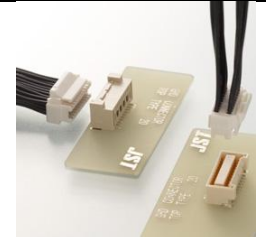

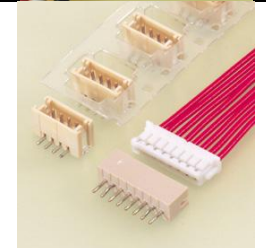
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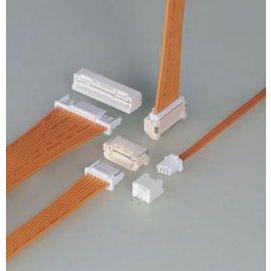

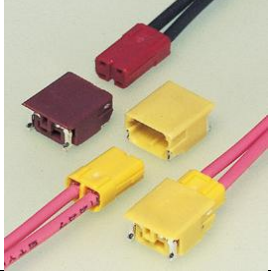


Wire to Board connectors - CRIMP

Connector	Series	Specifications	Remarks
	SUH	30V / 1A* 2-20 circuits AWG 32 to AWG 28 SMT headers SUR - IDC	pitch 0.8 mm dimensions (e.g. 3 circuits) TOP entry 4.6x1.95x4.15 SIDE entry 4.6x4.1x1.75
	SH SHD	50V / 1A* 2-20 circuits (SH) 20-50 circuits (SHD) AWG 32 to AWG 26 SMT	pitch 1.0 mm SH – single row SHD – double row dimensions SH (e.g. 3 circuits) TOP entry 5.0x2.9x6.3 SIDE entry 5.0x6.25x2.95 dimensions SHD (e.g. 20circuits) TOP entry 12.3x5.4x6.3 SIDE entry 12.3x7.1x5.5
	NSH NSHD	50V / 1A* 2-15 circuits New NSHD: 16, 20, 28 Double-row type AWG 32 to AWG 28 SMT	pitch 1.0 mm dimensions (e.g. 9 circuits) TOP entry 11x4.4x7.8 SIDE entry 11x7.65x4.5 locking system
	SHL	50V / 1A* 2-30 circuits AWG 32 to AWG 28 SMT headers side entry	pitch 1.0 mm dimensions (e.g. 6 circuits) SIDE entry 8.8x7.2x1.8
	SHLD	50V / 1A* 20-50 circuits AWG 32 to AWG 28 SMT	pitch 1.0 mm dimensions (e.g. 30 circuits) TOP entry 18.0x5.8x7.3 SIDE entry 18.0x9.05x6.15 locking system
	SHLV	30V / 1A* 21 and 31 circuits AWG 32 to AWG 28 SMT	pitch 1.0 mm dimensions (e.g. 21 circuits) TOP entry 15.0x5.0x7.95 SIDE entry 15.0x8.5x5.15 locking system

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 * = depends on wire range dimensions width x depth x height
 (without contact pins on PCB)

Connector	Series	Specifications	Remarks
	ACH ACHF ACHL	50V / 2A*/2.5A* 2-6 circuits AWG 30 to AWG 28 SMT	pitch 1.2 mm high box type available dimensions (e.g. 3 circuits ACH) TOP entry 5.4x4.3x1.4
	AGH	50V / 1A* 3 circuits AWG 30 to AWG 26 SMT top entry 2 different headers	pitch 1.25 mm dimensions (e.g. 3 circuits) TOP entry 5.8x6.2x4.4 TOP entry high box: 5.8x6.2x6.1
	GH	50V / 1A* 2-15 circuits AWG 30 to AWG 26 SMT	pitch 1.25 mm dimensions (e.g. 3 circuits) TOP entry 7.0x4.25x7.3 SIDE entry 7.0x7.15x4.35 locking system
	GVH	50V / 1A* 2-15 circuits AWG 30 to AWG 26 SMT	pitch 1.25 mm dimensions (e.g. 3 circuits) SIDE feed 5.0x8.75x8.7 SIDE entry 7.0x7.15x5.6 locking system
	GHD	50V / 1A* 20, 22, 30 and 40 circuits AWG 30 to AWG 26 SMT	pitch 1.25 mm double row dimensions (e.g. 20 circuits) TOP entry 15.75x8.5x8.05 SIDE entry 15.75x9.35x8.55 locking system
	ADH	30V / 3A* 3 circuits AWG 28 to AWG 26 SMT	pitch 1.3 mm Power Supply connector dimensions height 1.9 mm width 4.3 mm
	ZH	50V / 1A* 2-13 circuits AWG 32 to AWG 26 SMT and THT	pitch 1.5 mm >> JST highrunner << dimensions (e.g. 3 circuits) SMT TOP entry 7.5x3.7x6.1 SIDE entry 7.5x6.0x3.7 THT TOP entry 6.0x3.5x5.6 SIDE entry 6.0x7.1x3.7

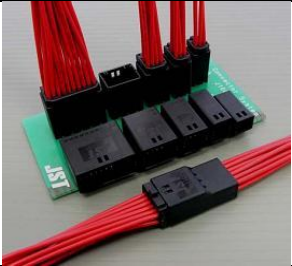
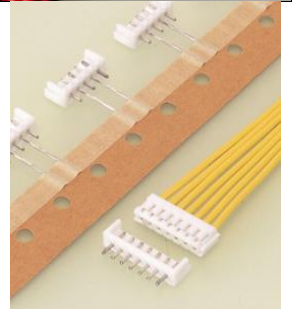
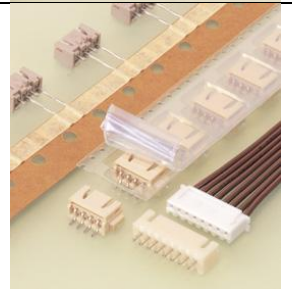

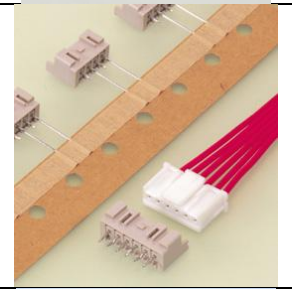

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Connector	Series	Specifications	Remarks
	CZ family	100V / 2A* 2-40 circuits AWG 28 to AWG 26 SMT and THT	pitch 1.5 mm dimensions (e.g. 4 circuits) SMT TOP entry 9.0x4.9x7.8 SIDE entry 9.0x4.9x7.8 THT TOP entry 9.0x4.4x7.3 SIDE entry 9.0x9.8x4.4
	ZE	100V / 2A* 2-16 circuits AWG 30 to AWG 24 SMT and THT	pitch 1.5 mm dimensions (e.g. 3 circuits) SMT TOP entry 9.0x5.8x9.4 SIDE entry 9.0x9.4x5.8 THT TOP entry 7.5x5.75x10.4 SIDE entry 7.5x9.7 x6.3 locking system
	ZPD	100V / 2A* 10-40 circuits AWG 28 to AWG 24 SMT	pitch 1.5 mm double row dimensions (e.g. 20 circuits) TOP entry 18.7x8.6 x9.5 SIDE entry 18.7x10.5x9.2 locking system
	SFH	350V / 4A* 2 circuits AWG 30 to AWG 22 SMT (LED application)	pitch 1.8 mm dimensions 5.2x8.2x3.0
	PH PHD	100V / 2A*/3A*(PHD) 2-16 circuits (PH) 8-34 circuits (PHD) AWG 32 to AWG 24 (22) SMT and THT	pitch 2.0 mm PH – single row/+HighBox PHD – double row >> JST highrunner << dimensions PH SMT(e.g. 3 circuits) TOP entry 9.95x5.0x8.6 SIDE entry 9.9 x9.6x5.5 dimensions PHD THT(e.g. 20circuits) TOP entry 21.9x5.0 x8.8 SIDE entry 21.9x11.8x5.0
	PA	250V / 3A* 2-16 circuits AWG 28 to AWG 22 SMT and THT	pitch 2.0 mm product family Crimp and IDC WtB and WtW >> JST highrunner << dimensions (e.g. 3 circuits) SMT TOP entry 10.0x6.2 x11.1 SIDE entry 10.0x11.1x 6.2 THT TOP entry 8.0x5.8 x9.8 SIDE entry 8.0x13.8x7.0 locking system

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Connector	Series	Specifications	Remarks
	PBV	100V / 3A* 2-15 circuits AWG 28 to AWG 22 SMT	pitch 2.0 mm SPHD terminals PCB layout PA dimensions (e.g. 4 circuits) TOP entry 11.0x8.2 x12.1 SIDE entry 11.0x13.2x 6.85 locking system
	PAD	250V / 3A* 10-40 circuits AWG 28 to AWG 22 THT	pitch 2.0 mm double row dimensions (e.g. 20 circuits) TOP entry 22.0x10.0x12.4 SIDE entry 22.0x15.4x11.0 locking system
	PND	250V / 3A* 8-40 circuits AWG 28 to AWG 22 THT	pitch 2.0 mm double row dimensions (e.g. 20 circuits) TOP entry 22.0x11.7x12.9 locking system
	PNI	100V / 3A* 2-10 circuits AWG 28 to AWG 22 THT	pitch 2.0 mm dimensions (e.g. 3 circuits) TOP entry 8.0x6.65x12.5 inner locking system
	PLI	100V / 3A* 2-10 circuits AWG 28 to AWG 22 THT	pitch 2.0 mm dimensions (e.g. 3 circuits) TOP entry 7.7x7.15x9.6 inner locking system
	PUD	250V / 3A* 8-40 circuits AWG 28 to AWG 22 SMT and THT	pitch 2.0 mm double row dimensions (e.g. 20 circuits) SMT TOP entry 24.0x8.8 x12.3 THT TOP entry 22.0x8.7 x11.0 SIDE entry 220x14.1x 8.9 locking system

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Connector	Series	Specifications	Remarks
	JFA J1000	125V / 6.2A* 3-30 circuits AWG 28 to AWG 18 THT	pitch 2.2 mm single and double row locking system
	EH	250V / 3A* 2-15 circuits AWG 32 to AWG 22 (20) THT	pitch 2.5 mm >> JST highrunner << dimensions (e.g. 3 circuits) TOP entry 10.0x3.8 x8.1 SIDE entry 10.0x10.3x4.2
	XH	250V / 3A* 1-20 circuits AWG 30 to AWG 22 SMT and THT BtB => JQ	pitch 2.5 mm high box type available >> JST highrunner << dimensions (e.g. 3 circuits) SMT SIDE entry 12.5x10.3x6.0 THT TOP entry 9.9x5.75 x9.8 SIDE entry 9.9x14.3 x6.1
	XAD	250V / 3A* 8-40 circuits AWG 28 to AWG 20 THT	pitch 2.5 mm double row dimensions (e.g. 20 circuits) TOP entry 30.0x11.5x13.8 SIDE entry 30.0x19.9x13.5 locking system
	XA	250V / 3A* 2-20 circuits AWG 28 to AWG 20 SMT and THT Glow Wire version acc. IEC60695-2-10/11 available	pitch 2.5 mm +HighBox >> JST highrunner << dimensions (e.g. 3 circuits) TOP entry 9.8x6.9 x19.5 locking system
	JFA J2000	250V / 4.6A* 6-20 circuits AWG 28 to AWG 20 THT	pitch 2.5 mm single and double row locking system

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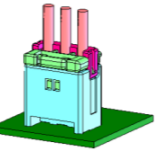


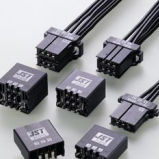


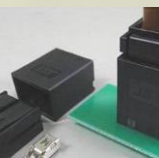
Connector	Series	Specifications	Remarks
	XNI	250V / 3A* 2-15 circuits AWG 30 to AWG 22 THT	pitch 2.5 mm dimensions (e.g. 3 circuits) TOP entry 10.0x7.95x12.6 locking system
	PXA	250V / 3A* 2, 3 and 6 circuits AWG 26 to AWG 22 THT high box	pitch 2.5 mm dimensions (e.g. 3 circuits) TOP entry 10.0x8.95x20.5 locking system
	XAG	250V / 3A* 5 circuits AWG 24 to AWG 20 SMT	pitch 2.5 mm low profile: height: 5 mm locking system
	XM	250V / 3A* 2-10 circuits AWG 28 to AWG 20 THT high box	pitch 2.5 mm dimensions (e.g. 5 circuits) TOP entry 14.9x8.9x20.0 locking system
	NH	250V / 3A* 2-25 circuits AWG 30 to AWG 22 THT side / top and bottom entry type	pitch 2.5 mm dimensions (e.g. 5 circuits) TOP entry 16.2x6.5x14.9 SIDE entry 16.2x17.7x6.5 BOTTOM entry 16.2x12.2x14.7
	BNI	300V / 4A* 2-12 circuits AWG 24 to AWG 20 THT / potting area max. 10 mm	pitch 3.3 mm single row (2+3 circuits) double row (4-12 circuits) secure inner locking system
	JFA J300	250V/600V / 15A* 1-20 circuits AWG 28 to AWG 14 THT	pitch 3.81 mm / 5.08 mm single, double and triple row, module type locking system
	VH	250V / 10A* 2-11 circuits AWG 22 to AWG 16 THT	pitch 3.96 mm high box type available >> JST highrunner << dimensions (e.g. 3 circuits) TOP entry 11.82x10.5x16.5 SIDE entry 11.82x20.5x10.5 locking system

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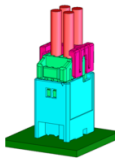
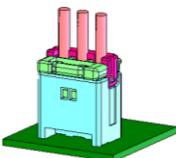

dimensions width x depth x height

(without contact pins on PCB)

Connector	Series	Specifications	Remarks
	HL	300V / 7A* 4-12 circuits AWG 22 to AWG 18 THT	pitch 3.96 mm double row locking system
	PSI	300V / 12A* 2-14 circuits AWG 16 to AWG 26 THT	pitch 4.0 mm single and double row 3 key patterns and colours locking system
	HYV	300V / 7A* 2-6 circuits AWG 22 to AWG 18 THT / potting area max. 9 mm	pitch 5.0 mm single row (2-4 circuits) double row (4+6 circuits) secure inner locking system
	NV	250V / 10A* 2-4 circuits AWG 22 to AWG 16 THT	pitch 5.0 mm dimensions (e.g. 3 circuits) TOP entry 15.0x10.6x16.5 locking system
	XL	150V / 10A* 2-16 circuits AWG 26 to AWG 16 THT	pitch 5.0 mm double row dimensions (e.g. 4 circuits) TOP entry 10.0x17.7x20.1 locking system
	JFA J300	250V/600V / 15A* 1-20 circuits AWG 28 to AWG 14 THT	pitch 3.81 mm / 5.08 mm single, double and triple row, module type locking system
	JFA J4000	600V / 22A* 2-6 circuits AWG 16 to AWG 12 THT	pitch 6.0 mm / 6.35 mm single row locking system
	VL	600V / 20A* 2-12 circuits AWG 22 to AWG 12 THT	pitch 6.2 mm double row dimensions (e.g. 4 circuits) TOP entry 13.4x19.3x29.2 locking system
	JFPS	600V / 35A* 2 circuits AWG 12 to AWG 10 THT	pitch 8.8 mm 2 different keying/ colours available dimensions height: 30.0 mm width: 14.4 mm locking system

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Potting Type connectors - Wire to Board – CRIMP

Connector	Series	Specifications	Remarks
	PA high box	250V / 3A* 2-15 circuits AWG 28 to AWG 22	pitch 2.0 mm locking system THT header height 13.9 mm
	PH high box	100V / 2A* 2-13 circuits AWG 30 to AWG 24	pitch 2.0 mm THT header height 15 mm
	PNI	100V / 3A* 2-10 circuits High box: 2-15 circuits AWG 28 to AWG 22	pitch 2.0 mm locking system THT header height 10.2 mm High box: 16.4 mm
	PID	100V / 3A* 10-30 circuits double row type AWG 26 to AWG 22	pitch 2.0 mm locking system THT header height 9.7 mm
	XNI	250V / 3A* 2-15 circuits AWG 30 to AWG 22	pitch 2.5 mm locking system THT header height 10.6 mm
	PXA	250V / 3A* 2, 3 and 6 circuits AWG 26 to AWG 22	pitch 2.5 mm locking system THT header height 17 mm
	XH high box	250V / 3A* 2-10 circuits AWG 30 to AWG 22	pitch 2.5 mm THT header height 14.2 mm
	XA high box	250V / 3A* 2-15 circuits AWG 28 to AWG 22	pitch 2.5 mm locking system THT header height 17 mm
	BNI	300V / 4A* 2-12 circuits AWG 24 to AWG 20 THT / potting area max. 10 mm	pitch 3.3 mm single row (2+3 circuits) double row (4-12 circuits) secure inner locking system
	HYV	300V / 7A* 2-6 circuits AWG 22 to AWG 18 THT / potting area max. 9 mm	pitch 5.0 mm single row (2-4 circuits) double row (4+6 circuits) secure inner locking system
	VYH	300V / 15A* 2-6 circuits AWG 26 to AWG 14	pitch 6.5 mm locking system THT header height 15.5 mm



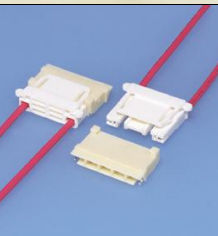
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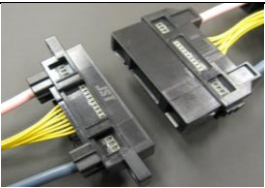
dimensions width x depth x height

(without contact pins on PCB)

High Voltage connectors - Wire to Board - CRIMP

Connector	Series	Specifications	Remarks
	BHS	1400 V / 1A* 2 circuits AWG 28 to AWG 24 SMT	pitch 3.5 mm High voltage dimensions SIDE entry 7.5x113.9x3.2 locking system
	BH	600V / 1A* 2-5 circuits AWG 28 to AWG 22 SMT and THT	pitch 4.0 – 8.0 – 12.0 mm High voltage locking system
	BD	1400 V / 1A* 3000 V / 1A* 2 circuits AWG 28 to AWG 24 SMT and THT	pitch 3.5 mm pitch 13.0 mm High voltage dimensions SMT SIDE entry 7.5x14.0x5.0 dimensions THT SIDE entry 7.5x14.5x5.0 locking system

Power / Signal Connectors

Connector	Series	Specifications	Remarks
	LBT	50 V / 0.5A/7A* 3, 5, 7 and 9 circuits AWG 28 to AWG 20 SMT	Pitch: Power: 3.45 / 5.45 / 7.45 / 9.45 mm Signal: 1.0 mm
	AUH	30V / 1A/5A* 3 and 5 circuits AWG 30 to AWG 22 SMT	pitch 1.85 mm dimensions: height: 1.85 depth: 5.2
	JFX	100V/300V 2A (AWG 24) /45A (AWG 8)* 2 power / 16 signal lines wire-to-wire	Secure double-locking system

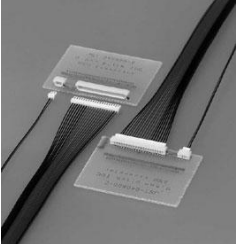



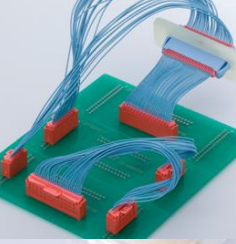
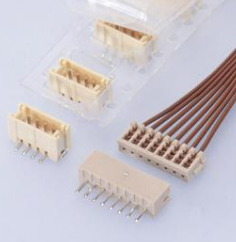
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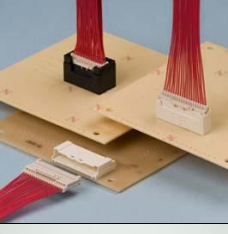

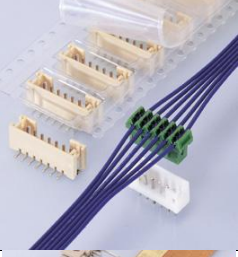
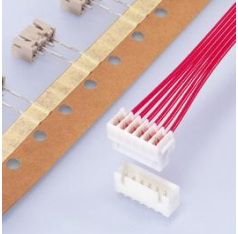

dimensions width x depth x height

(without contact pins on PCB)

Wire to Board connectors - IDC




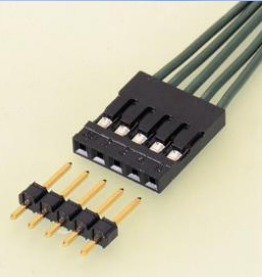

Connector	Series	Specifications	Remarks
	XSR	30V / 0.2A* 2-22 circuits AWG 36 SMT	pitch 0.6 mm dimensions (e.g. 4 circuits) SIDE entry 4.2x3.0x1.45
	SUR	30V / 0.5A* 2-22 circuits AWG 36 and AWG 32 SMT	pitch 0.8 mm dimensions (e.g. 3 circuits) TOP entry 3.2x2.25x3.95 SIDE entry 3.2x3.9 x1.75
	SR/SZ SSR	50V / 0.7A* 2-14 circuits AWG 30 / AWG 32 SMT / THT	pitch 1.0 mm dimensions (e.g. 3 circuits, SR) TOP entry 4.0x2.9 x4.9 SIDE entry 4.0x4.85x2.95 dimensions (e.g. 3 circuits, SSR) SIDE entry 4.0x4.5x2.0
	ASR	50V / 0.7A* 2-4 circuits AWG 30 SMT Header top entry Housing side entry	pitch 1.0 mm dimensions (e.g. 3 circuits, ASR) 5.4x3.5x3.6
	CS	50V / 1.8A* 3-31 circuits AWG 27/AWG 28 Top entry THT WtW unit	pitch 1.0 mm dimensions (e.g. 5 circuits) 9.0x6.7x11.9 locking system
	ZR	50V / 0.7A* 2-13 circuits AWG 30 and AWG 28 SMT and THT	pitch 1.5 mm dimensions (e.g. 3 circuits) SMT TOP entry 7.5x3.7x6.0 SIDE entry 7.5x7.1x3.7 THT TOP entry 6.0x3.5x5.5 SIDE entry 6.0x7.0x3.7

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(without contact pins on PCB)

Connector	Series	Specifications	Remarks
	CZ family	100V / 2A* 2-40 circuits AWG 28 and AWG 26 SMT and THT	pitch 1.5 mm dimensions (e.g. 4 circuits) SMT TOP entry 9.0x4.9x7.8 SIDE entry 9.0x4.9x7.8 THT TOP entry 9.0x4.4x7.3 SIDE entry 9.0x9.8x4.4
	ZF/ZFW	50V / 0.7A* 2-40 circuits AWG 28 THT double-row top entry	pitch 1.5 mm dimensions (e.g. 10 circuits) TOP entry 16.5x6.6x15.1 SIDE entry 18.0x17.8x7.2 locking system
	PA	250V / 3A* 2-16 circuits AWG 28 to AWG 22 SMT and THT	pitch 2.0 mm Crimp and IDC WtB and WtW >> JST highrunner << dimensions (e.g. 3 circuits) SMT TOP entry 10.0x6.2 x11.1 SMT SIDE entry 10.0x11.1x 6.2 THT TOP entry 8.0x5.8 x9.8 THT SIDE entry 8.0x13.8x7.0 locking system
	KR KRD	100V / 1A* 2-16 circuits AWG 28 and AWG 26 SMT and THT KR - end connection KRD - through connection (daisy chain)	pitch 2.0 mm dimensions (e.g. 3 circuits) SMT (KR) TOP entry 8.0x5.0x7.5 SIDE entry 8.0x8.5x5.5 THT (KR) TOP entry 8.0x4.8x6.9 SIDE entry 8.0x8.5x4.8
	NR NRD	250V / 2A* 2-16 circuits AWG 28 / AWG 26 and AWG 24 THT => XH BtB => JQ	pitch 2.5 mm dimensions (e.g. 3 circuits) TOP entry 10.0x7.0x13.1 SIDE entry 10.0x17.6x6.1 NR - end connection NRD - through connection (daisy chain)
	VR	250V / 7A* 2-15 circuits AWG 26 / AWG 24 / AWG 22 / AWG 20 / AWG 18 THT side and top entry	pitch 3.96 mm dimensions (e.g. 3 circuits) TOP entry 11.88x9.2x20.88 SIDE entry 11.88x26.85x7.75 end connection and daisy chain

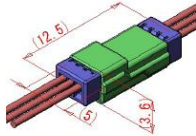
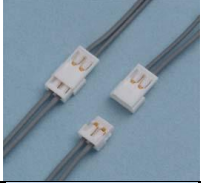


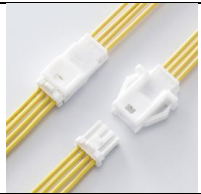



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dimensions width x depth x height
(without contact pins on PCB)

Ribbon Cables and Pin Header Connectors


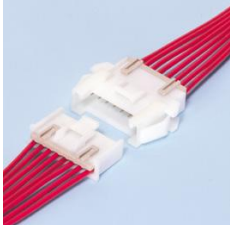
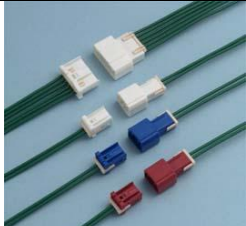
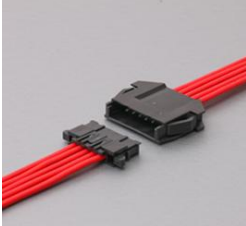



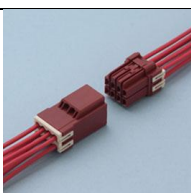
Connector	Series	Specifications	Remarks
	RA (IDC)	300V / 1A* 10-60 circuits THT	pitch 2.54 mm locking system
	RA (CRIMP)	300V / 1A* 10-60 circuits THT	pitch 2.54 mm conform to MIL-C-83503 standard locking system
	RC (IDC)	300V / 1A* 10-60 circuits THT	pitch 2.54 mm board-in
	RE (CRIMP)	250V / 2A* 2-9 circuits THT	pitch 2.54 mm single row
	RF (CRIMP)	250V / 2A* 6-28 circuits THT	pitch 2.54 mm double row

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(without contact pins on PCB)

Wire to Wire connectors - CRIMP

Connector	Series	Specifications	Remarks
	SH / SR	50V / 1A* 3 circuits New development	pitch 1.0 mm connecting adapter to mate with 2 female housings
	ACH	50V / 2A* 2 circuits AWG 30 to AWG 28	pitch 1.2 mm dimensions 3.8x6.8x1.85
	ZM	50V / 0.7A* 2-13 circuits AWG 30 to AWG 28	pitch 1.5 mm dimensions (e.g. 3 circuits) 7.0x9.1x3.6
	PA	250V / 3A* 2-16 circuits AWG 28 to AWG 22 SMT and THT	pitch 2.0 mm Crimp and IDC WtB and WtW dimensions (e.g. 3 circuits) SMT TOP entry 10.0x6.2 x11.1 SMT SIDE entry 10.0x11.1x 6.2 THT TOP entry 8.0x5.8 x9.8 THT SIDE entry 8.0x13.8x7.0 locking system
	PNI	100V / 3A* 2-10 circuits AWG 28 to AWG 22	pitch 2.0 mm dimensions (e.g. 3 circuits) 8.0x21.35x6.45 locking system
	PH	100V / 2A* 2-8, 10,11 and 12 circuits	pitch 2.0 mm connecting adapter to mate with 2 female housings
	JFA J1000	125V / 6.2A* 3-26 circuits AWG 28 to AWG 18	pitch 2.2 mm single and double row locking system
	JFA J2000	250V / 4.6A* 3-20 circuits AWG 28 to AWG 20	pitch 2.5 mm single and double row locking system

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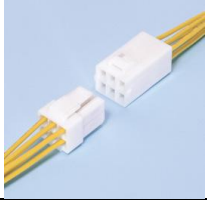
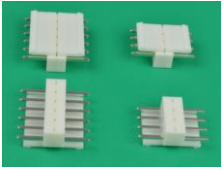
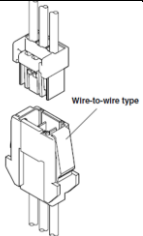



Connector	Series	Specifications	Remarks
	SM	250V / 3A* 2-18 circuits AWG 28 to AWG 22	pitch 2.5 mm dimensions (e.g. 3 circuits) 10.5x22.9x7.5 locking system
	XM	250V / 3A* 2-18 circuits AWG 28 to AWG 20	pitch 2.5 mm dimensions (e.g. 3 circuits) 11.8x20.0x6.8 locking system
	XMA	250 V / 3A* 2 to 6 circuits AWG 26 to AWG 22	pitch 2.5 mm dimensions (e.g. 3 circuits) 14.0x27.4x9.85 inner locking system
	XAG	250V / 3A* 5 circuits AWG 24 to AWG 20	pitch 2.5 mm locking system
	XA XAD	250V / 3A* 2-15 circuits (single row) Glow Wire version acc. IEC60695-2-10/11 available 8-40 circuits (double row) AWG 28 to AWG 20	pitch 2.5 mm dimensions (e.g. 3 circuits) 10.0x22.7x7.1 dimensions (e.g. 20 circuits) 27.5x25.2x11.4 locking system
	EH	250V / 3A* 2 - 6 circuits	pitch 2.5 mm connecting adapter to mate with 2 female housings
	XH	250V / 3A* 2-8, 10,11 and 12 circuits	pitch 2.5 mm connecting adapter to mate with 2 female housings
	HIL	300V / 5A* 2-8 circuits AWG 24 to AWG 18	pitch 3.3 mm single row: 2 + 3 circuits double row: 4, 6 + 8 circuits dimensions (e.g. 3 circuits) 11.9x34.6x9.0 locking system

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* = depends on wire range

dimensions width x depth x height


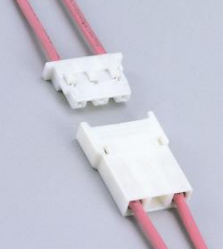
(without contact pins on PCB)

Connector	Series	Specifications	Remarks
	JFA J300	250V/600V / 15A* 1-20 circuits AWG 28 to AWG 14	pitch 3.81 mm / 5.08 mm single, double row module type locking system
	HL	300V / 7A* 2-12 circuits AWG 22 to AWG 18	pitch 3.96 mm double row dimensions (e.g. 3 circuits) 13.12x34.2x9.5 locking system
	SL	300 V / 7A* 1-6 circuits AWG 26 to AWG 18	pitch 3.96 mm single and double row dimensions (e.g. 3 circuits) 13.12x31.4x9.3 locking system
	VH	250V / 10A* 2-9 circuits	pitch 3.96 mm connecting adapter to mate with 2 female housings
	PSI	300 V / 12A* 2-3 circuits AWG 26 to AWG 16	pitch 4.0 mm single row A + B type key locking system
	YL	300 V / 10A* 1-21 circuits AWG 26 to AWG 16	pitch 4.5 mm single, double and triple row dimensions (e.g. 3 circuits) 14.8x38.7x10.8 locking system
	YLN	300V / 10A* 2-6 circuits AWG 26 to AWG 16	pitch 4.5 mm single and double row dimensions (e.g. 3 circuits) 18.3x38.7x10.8 locking system
	EL	300V / 10A* 2-15 circuits AWG 26 to AWG 16	pitch 4.5 mm single, double and triple row >> JST highrunner << dimensions (e.g. 3 circuits) 14.8x39.2x10.4 locking system

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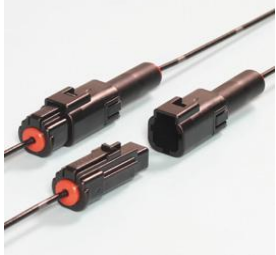


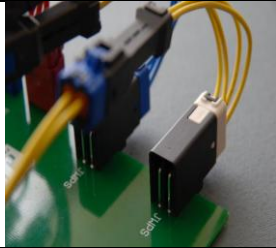
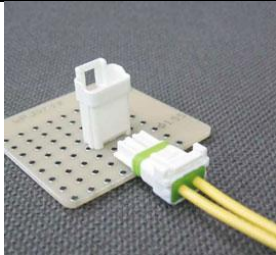
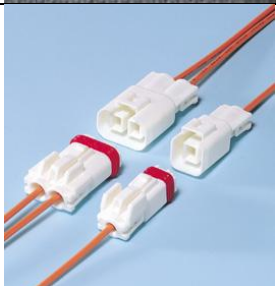
Connector	Series	Specifications	Remarks
	ZL	300V / 10A* 2-16 circuits AWG 26 to AWG 16	pitch 5.0 mm single and double row dimensions (e.g. 4 circuits) 11.7x41.8x18.2 locking system
	XL	300V / 10A* 2-16 circuits AWG 26 to AWG 16	pitch 5.0 mm double row dimensions (e.g. 4 circuits) 11.2x30.9x11.7 locking system
	JFA J300	250V/600V / 15A* 1-20 circuits AWG 28 to AWG 14	pitch 3.81 mm / 5.08 mm single, double row module type locking system
	VL	600V / 20A* 1-12 circuits AWG 22 to AWG 12	pitch 6.2 mm High voltage single and double row dimensions (e.g. 3 circuits) 19.6x44.1x12.2 locking system

High Voltage connectors - Wire to Wire - CRIMP

Connector	Series	Specifications	Remarks
	BHS	1400 V / 1A* 2 circuits AWG 28 to AWG 24	pitch 3.5 mm High voltage dimensions 7.5x21.4x3.7
	BHM	600V / 1A* 2-5 circuits AWG 28 to AWG 22	pitch 4.0 and 8.0 mm High voltage dimensions (e.g. 3 circuits) 13.1x18.4x3.7





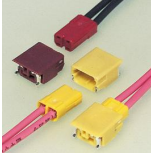





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 (without contact pins on PCB)

Waterproof Connectors

Connector	Series	Specifications	Remarks
	WPK	<p>12V / 7A* 1 circuit 0.5 to 0.85 mm² outer diameter 1.6 to 1.9 mm wire to wire</p>	<p>waterproof IEC 60529 IPX7 dimensions 12.2x44.0x12.2 locking system</p>
	JWPF	<p>100V / 3A* 2-8 circuits AWG 26 to AWG 22 wire to board THT</p>	<p>pitch 2.0 mm waterproof IEC 60529 IPX7 dimensions (e.g. 3 circuits) TOP entry 10.0x4.1x11.3 locking system</p>
	JWPF	<p>100V / 3A* 2-8 circuits AWG 26 to AWG 22 wire to wire</p>	<p>pitch 2.0 mm waterproof IEC 60529 IPX7 locking system</p>
	JWPS	<p>300V / 6A* 2 and 4 circuits AWG 22 to AWG 18 wire to wire and wire to board</p>	<p>pitch 4.0 mm Waterproof IPX7 locking system</p>
	WPJ	<p>300V / 7A* 2-3 circuits AWG 22 to AWG 18 wire to board and wire to wire</p>	<p>pitch 5.0 mm waterproof IEC 60529 IPX7 dimensions (e.g. 3 circuits) TOP entry 19.2x11.2x25.3 locking system</p>
	MWP	<p>300V / 7A* 1-2 circuits AWG 26 to AWG 18 wire to wire</p>	<p>pitch 7.0 mm waterproof IEC 60529 IPX4 dimensions (e.g. 2 circuits) 18.7x43.9x14.2 locking system</p>

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LED Connectors

Connector	Series	Specifications	Remarks
	LEK	3A single circuits board to board SMT	Mating height: 2.8 mm
	SHJ	125V / 1A* 6 circuits AWG 32 to AWG 28 wire to board SMT	pitch 1.0 mm dimensions 6 circuits: 10.6x7.2x2.65 mm locking system
	SFG	200V / 1A* 5 circuits AWG 30 to AWG 28 wire to board SMT	pitch 1.1 mm dimensions 5 circuits: 6.75x7.0x3.48 mm locking system
	SFK	350V / 4A* 2 circuits AWG 30 to AWG 22 wire to board SMT	pitch 1.8 mm dimensions 2 circuits: 5.2x8.8x4.0 mm locking system
	SFH	350V / 4A* 2 circuits AWG 30 to AWG 22 wire to board SMT	pitch 1.8 mm dimensions 2 circuits: 5.2x8.2x3.0 mm
	LEA	300V / 3A* 2 circuits AWG 30 to AWG 22 wire to board SMT	pitch 1.8 mm SFH-contacts height: 3 mm locking system
	SFV	300V / 1A* 2 circuits AWG 30 to AWG 28 wire to board SMT	pitch 2.0 mm dimensions 2 circuits: 4.9x7.0x7.95 mm locking system
	LEX	300V / 3A* 2 and 4 circuits AWG 30 to AWG 22 wire to board – bottom type	pitch 2.5 mm locking system
	LEN	300V / 3A* 2, 3 and 4 circuits AWG 26 to AWG 22 wire to board SMT	pitch 3.0 mm low profile : mounting height : 3.0 mm locking system
	LEB	300V / 3A* 1 + 2 circuits AWG 26 to AWG 22 wire to board + board to board	pitch 4.0 mm dimensions 2 circuits 8.8x10.2x2.65 dimensions 1 circuit 4.8x10.2x2.65

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dimensions width x depth x height

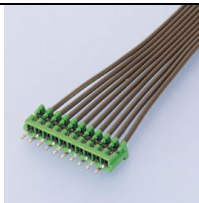
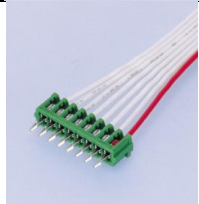
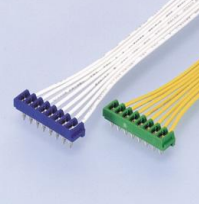

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Board-in connectors – CRIMP

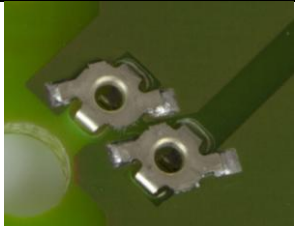
Connector	Series	Specifications	Remarks
	SZN	50V / 0.7A* 2-13 circuits AWG 30 to AWG 26	pitch 1.5 mm dimensions e.g. 5 circuits: 8.5x2.4x4.25 mm
	SAN	250V / 2A* 2-15 circuits AWG 30 to AWG 24	pitch 2.0 mm dimensions e.g. 5 circuits: 11.2x3.25x6.0 mm
	SJN	250V / 3A* 2-10 circuits AWG 28 to AWG 22	pitch 2.0 mm dimensions e.g. 4 circuits: 8.4x4.9x2.8 mm
	SGN	250V / 2A* 8-14 circuits AWG 28 to AWG 24	pitch 2.0 mm dimensions e.g. 8 circuits: 17.2x2.9x4.0 mm
	SCN	250V / 3A* 2-16 circuits AWG 28 to AWG 22	pitch 2.5 mm dimensions e.g. 5 circuits: 14.0x3.9x6.5 mm
	SDN	250V / 7A* 2-12 circuits AWG 22 to AWG 18	pitch 3.96 mm dimensions e.g. 5 circuits: 20.84x6.2x7.05 mm
	SIN	AWG 30 to AWG 10	single circuit

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Board-in connectors – IDC


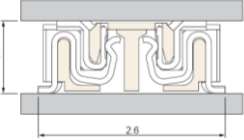
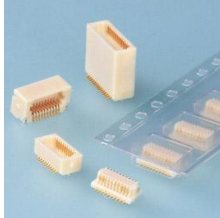


Connector	Series	Specifications	Remarks
	ZA	50V / 0.7A* 2-13 circuits AWG 30 and AWG 28	pitch 1.5 mm dimensions e.g. 5 circuits: 9.0x3.0x4.3 mm
	DA	100V / 1.0A* 2-15 circuits AWG 28 and AWG 26	pitch 2.0 mm dimensions e.g. 5 circuits: 11.9x4.0x5.0 mm
	DD/DS	100V / 0.7A* 2-15 circuits AWG 28	pitch 2.0 mm dimensions e.g. 5 circuits: 12.0x4.3x3.5 mm
	DB	250V / 2A* 2-13 circuits AWG 28, AWG 26 + 24	pitch 2.5 mm dimensions e.g. 5 circuits: 15.0x4.1x7.1 mm

Socket Spring – SMT





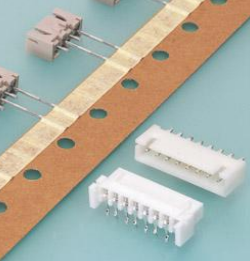
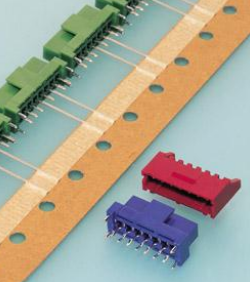
	SBO	24V / 3A 1 circuit socket spring for pins 0.45 – 0.8 mm	Applicable for SMT pick and place 2 contact points
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Board to Board connectors

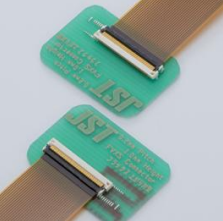
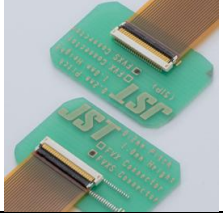
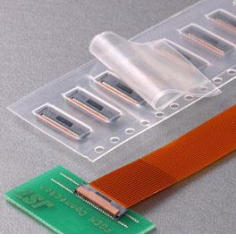
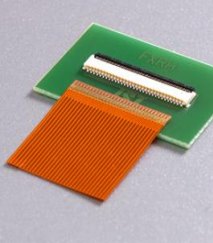

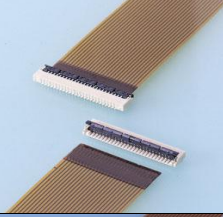

Connector	Series	Specifications	Remarks
	JAS	30V / 0.3A 80, 100 and 120 circuits Stacking height 4.0/4.5 SMT	pitch 0.4 mm dimensions (e.g. 80 circuits) TOP entry 19.0x4.2x4.0/4.5
	JADN	30V height 0.8 mm: 0.25A height 1.0 mm: 0.3A 36, 44, 50 and 68 circuits SMT	pitch 0.4 mm
	JMC	50V / 0.5A 14-64 circuits different stacking height SMT	pitch 0.5 mm dimensions (e.g. 20 circuits, h=3.0) TOP entry 6.9x3.4x3.0 SIDE entry 6.9x4.15x4.33
	JMD	50V / 0.5A 20-100 circuits different stacking height SMT	pitch 0.5 mm
	JU	50V / 0.5A 140 and 200 circuits top entry and side entry SMT / THT	pitch 0.6 mm

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Connector	Series	Specifications	Remarks
	HTB	50V / 0.5A 30 and 40 circuits SMT	pitch 0.635 mm dimensions (e.g. 30 circuits) TOP entry 16.0x10.4x16.0 SIDE entry 16.0x17.1x9.7
	JE JED	50V / 1.0A 5-19circuits(JE, single row) 8, 16, 22 circuits (JED, double rows) THT	pitch 1.25 mm dimensions (e.g. 5 circuits, JE) SIDE entry 7.4x4.4x6.8 dimensions (e.g. 8 circuits, JED) TOP entry 5.95x4.6x7.0 SIDE entry 5.95x4.6x7.0
	JXV	50V / 1.0A 30 and 50 circuits SMT	pitch 1.27 mm height: 9.0 mm
	MQ	250V / 1.0A 4-12 circuits top entry and side entry low insertion force type also available THT	pitch 2.0 mm dimensions (e.g. 5 circuits) TOP entry 12.0x5.5x9.2 SIDE entry 12.0x5.5x9.2
	JQ	250V / 3.0A 3-15 circuits top entry and side entry interchangeable with headers series XH THT	pitch 2.5 mm dimensions (e.g. 5 circuits) TOP entry 13.2x6.0x11.8 SIDE entry 13.2x16.3x6.15
	JL	250V / 3.0A 3-15 circuits top entry and side entry THT	pitch 2.5 mm dimensions (e.g. 5 circuits) SIDE entry 13.2x16.3x7.5

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 (without contact pins on PCB)

FFC / FPC Connectors

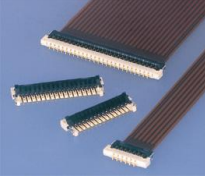

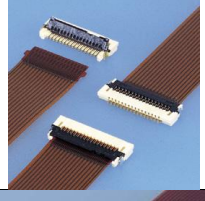


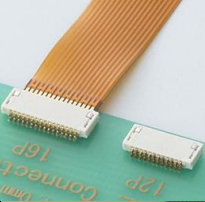
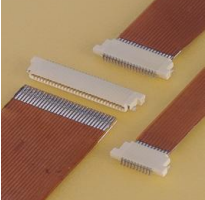
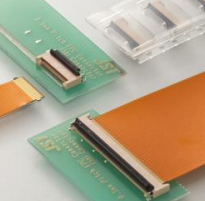
Connector	Series	Specifications	Remarks
	FVX	50V / 0.2A 21 to 77 circuits ZIF SMT	pitch 0.2 mm front flip-lock type dimensions (e.g. 21 circuits) SIDE entry 6.2x3.17x1.0
	FVXS	50V / 0.2A 39, 51 and 61 circuits ZIF SMT	pitch 0.2 mm dimensions (e.g. 51 circuits) SIDE entry 11.5x3.17x1.0
	FGEM	50V / 0.2A 13 to 51 circuits ZIF for FPC with protrusion mid-flip type double-sided contact SMT	pitch 0.25 mm dimensions height closed: 1.4 mm height open: 1.69 mm
	FXRH	50V / 0.2A 19 to 61 circuits ZIF double-sided contact back-flip lock mechanism SMT	pitch 0.3 mm housing material LCP dimensions height: 0.9 mm
	FXM	50V / 0.2A 80 circuits ZIF SMT	pitch 0.3 mm Housing material LCP double ZIF structure dimensions SIDE entry 28.7x7.55x2.9
	FXS	50V / 0.2A 17-51 circuits ZIF gold plated contacts SMT	pitch 0.3 mm dimensions (e.g. 15 circuits) SIDE entry 7.0x3.85x1.8
	FXR	50V / 0.2A 11-61 circuits ZIF SMT	pitch 0.3 mm housing material LCP low profile 1.0 mm front flip-lock type dimensions (e.g. 15 circuits) SIDE entry 6.6x3.5x1.0

These specifications comply with the latest status quo and are subject to change without any notice.

* = depends on wire range

dimensions width x depth x height

(without contact pins on PCB)






Connector	Series	Specifications	Remarks
	FXV	50V / 0.2A 11 to 51 circuits ZIF SMT	pitch 0.3 mm front flip-lock type dimensions (e.g. 17 circuits) SIDE entry 7.1x2.8x0.9
	FXW	50V / 0.2A 25 and 29 circuits ZIF SMT	pitch 0.3 mm low profile: 1.0 mm slider locking type dimensions (e.g. 25 circuits) SIDE entry 10.4x4.8x1.0
	FXY	50V / 0.2A 15 to 81 circuits ZIF SMT	pitch 0.3 mm housing material LCP front flip-lock type dimensions (e.g. 15 circuits) SIDE entry 7.7x4.45x1.3
	FXZ	50V / 0.2A 15 to 73 circuits ZIF SMT	pitch 0.3 mm front flip-lock type dimensions (e.g. 15 circuits) SIDE entry 6.6x3.95x1.4
	FXZT	50V / 0.2A 17 to 51 circuits ZIF SMT	pitch 0.3 mm dimensions (e.g. 17 circuits) TOP entry 8.0x2.85x3.6
	FZ	50V / 0.5A 5 to 24 circuits non-ZIF SMT	pitch 0.4 mm dimensions (e.g. 5 circuits) SIDE entry 3.45x2.65x1.0
	FH	50V / 0.5A 5 to 25 circuits non-ZIF SMT	pitch 0.5 mm tinned and gold plated version available dimensions (e.g. 5 circuits) SIDE entry 5.9x3.55x1.2
	FHH	50V / 0.5A 10 to 60 circuits ZIF SMT	pitch 0.5 mm back flip-lock type dimensions (e.g. 10 circuits) SIDE entry 8.6x6.7x2.0

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* = depends on wire range

dimensions width x depth x height

(without contact pins on PCB)





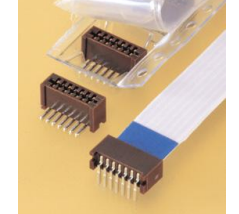

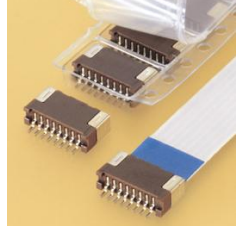
Connector	Series	Specifications	Remarks
	FHJ	50V / 0.5A 4 to 24 circuits non-ZIF SMT	pitch 0.5 mm tinned and gold plated version available housing material LCP dimensions (e.g. 4 circuits) SIDE entry 4.1x3.55x1.2
	FHS	50V / 0.5A 3 to 9 circuits ZIF SMT	pitch 0.5 mm front flip-lock type dimensions (e.g. 4 circuits) SIDE entry 4.06x2.95x0.9
	FHSY	50V / 0.5A 4 to 28 circuits ZIF SMT	pitch 0.5 mm low profile: 0.9 mm front flip-lock type dimensions (e.g. 4 circuits) SIDE entry 4.06x3.25x0.9
	FHY	50V / 0.5A 10 to 60 circuits ZIF SMT	pitch 0.5 mm front flip-lock type dimensions (e.g. 10 circuits) SIDE entry 8.7x4.0x1.3
	FKZ	50V / 0.5A 5 to 32 circuits ZIF SMT	pitch 0.5 mm slider locking type dimensions (e.g. 4 circuits) SIDE entry 7.5x4.4x1.8
	FLH	50V / 0.5A 4 to 40 circuits ZIF SMT	pitch 0.5 mm housing material LCP slider locking type dimensions (e.g. 4 circuits) SIDE entry 7.7x4.5x1.2
	FLT	50V / 0.5A 6 to 40 circuits non-ZIF SMT	pitch 0.5 mm low insertion force type dimensions (e.g. 6 circuits) TOP entry 4.9x2.95x4.15
	FLZ	50V / 0.5A 6-50 circuits ZIF SMT	pitch 0.5 mm normal and reverse version available slider locking type dimensions (e.g. 6 circuits) SIDE entry 8.9x4.6x2.0

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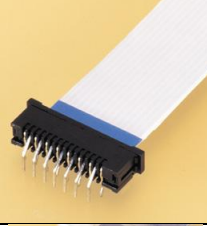

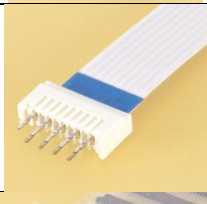

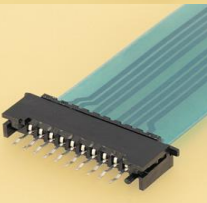
* = depends on wire range

dimensions width x depth x height


(without contact pins on PCB)

Connector	Series	Specifications	Remarks
	FLZT	50V / 0.5A 6 to 42 circuits ZIF SMT	pitch 0.5 mm normal and reverse version available slider locking type dimensions (e.g. 6 circuits) TOP entry 8.5x3.0x3.9
	FLZX	50V / 0.5A 18 to 50 circuits ZIF SMT	pitch 0.5 mm front flip-lock type reversed type dimensions (e.g. 20 circuits) SIDE entry 10.55x5.6x2.0
	FY	30V / 0.3A 30, 40 and 50 circuits Non-ZIF SMT	pitch 0.5 mm top and side entry available dimensions (e.g. 30 circuits) TOP entry 17.7x4.04x5.2 SIDE entry 17.7x5.2 x3.0
	FAZ	50V / 1.0A 8 to 26 circuits ZIF SMT	pitch 1.0 mm top and side entry available slider locking type dimensions (e.g. 9 circuits) TOP entry 14.4x3.75x5.0 SIDE entry 14.4x5.0 x2.8
	FM	50V / 0.5A 3 to 12 circuits non-ZIF SMT and THT available	pitch 1.0 mm top and side entry available double-sided contacts dimensions (e.g. 4 circuits) TOP entry 6.0x3.0x4.4 SIDE entry 6.0x4.4x3.0
	FMN	50V / 0.5A 4-40 circuits non-ZIF SMT and THT available low insertion force	pitch 1.0 mm top and side entry available reversed and normal type available dimensions (e.g. 4 circuits) TOP entry 6.0x3.0x5.1 SIDE entry 7.0x5.1x3.0
	FMS	50V / 0.5A 3 to 14 circuits non-ZIF SMT	pitch 1.0 mm double-sided contacts dimensions (e.g. 4 circuits) SIDE entry 6.0x5.3x2.8

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dimensions width x depth x height
(without contact pins on PCB)

Connector	Series	Specifications	Remarks
	FMZ	50V / 0.5A 6 to 30 circuits ZIF THT	pitch 1.0 mm top and side entry available slider locking type dimensions (e.g. 6 circuits) TOP entry 12.0x3.95x8.0 SIDE entry 12.0x8.0 x4.2
	FPZ	50V / 0.5A 7 to 25 circuits ZIF SMT	pitch 1.0 mm slider locking type dimensions (e.g. 7 circuits) SIDE entry 13.0x6.5x2.9
	FE	200V / 1.0A 4 to 40 circuits non-ZIF THT	pitch 1.25 mm top and side entry available dimensions (e.g. 4 circuits) TOP entry 8.55x4.8x7.5 SIDE entry 8.55x7.5x4.8
	FFS	50V / 0.5A 4 to 26 circuits non-ZIF SMT	pitch 1.25 mm dimensions (e.g. 4 circuits) SIDE entry 7.55x5.3x2.8
	FDZ	250V / 1.0A 5 to 19 circuits ZIF THT	pitch 2.54 mm top and side entry available double-sided contacts dimensions (e.g. 5 circuits) TOP entry 23.56x7.7 x12.7 SIDE entry 23.56x10.2x7.7

Coaxial Connector

Connector	Series	Specifications	Remarks
	AYU 1	wire to board 12 GHz / 50Ω SMT	for W-LAN, WiMAX, Bluetooth, GPS

These specifications comply with the latest status quo and are subject to change without any notice.
* = depends on wire range
dimensions width x depth x height
(without contact pins on PCB)

Interface Connectors

Connector	Series	Remarks
	SCZT SCZW	Nano SIM (4FF)
	SCYT SCYU	Micro SIM
	SCG SCK SCR	SIM
	SDHK SDHL SDHR SDHT	Micro SD
	SD SDK SDKR	SD / MMC cards
	ICM-MA	0.5 A 10.000 mating cycles type I and II connector, adapter, card frame, ejector
	CFF	24 circuits mating/unmating cycles: 10.000
	UB	USB Type A, B (2.0) 3.0 and Type C (3.1) USB Type C waterproof (development) Mini B-type Micro USB Micro USB waterproof


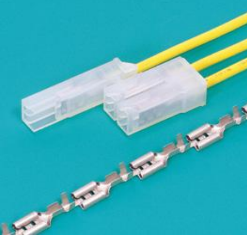
These specifications comply with the latest status quo and are subject to change without any notice.

* = depends on wire range

dimensions width x depth x height

(without contact pins on PCB)

Loose Piece Terminals and Chain Terminals

Terminal	Series	Specifications	Remarks
	LPT	for wires 0.2-325 mm² with and without insulation loose or taped	ring tongues: top and side entry; spade and fork tongues; pin tongues; blade and flag tongues; closed-end and splices
	Chain Terminals	for wires 0.2-5.5 mm² without insulation taped or loose	tab-on and tab-in terminals, also with Positive Lock; top entry and side entry; ring and fork tongues, splices; insulation sleeves

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You are looking for a handtool to crimp a JST crimp terminal?

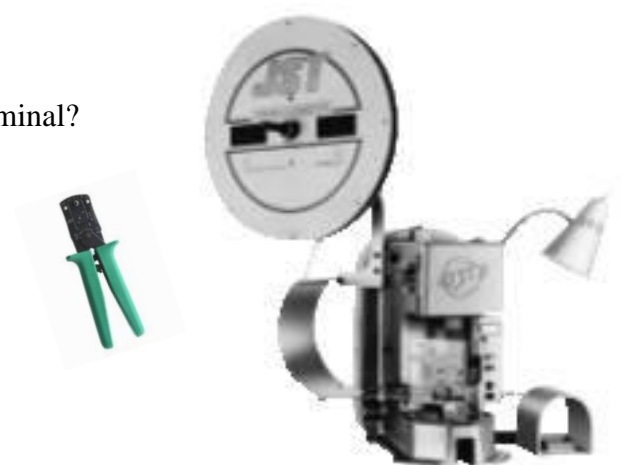
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- **German Project- / Product-Management**
- **dedicated inside and outside sales team**
- **highly skilled personnel in harness assembly**
- **tooling service**
- **technical support**

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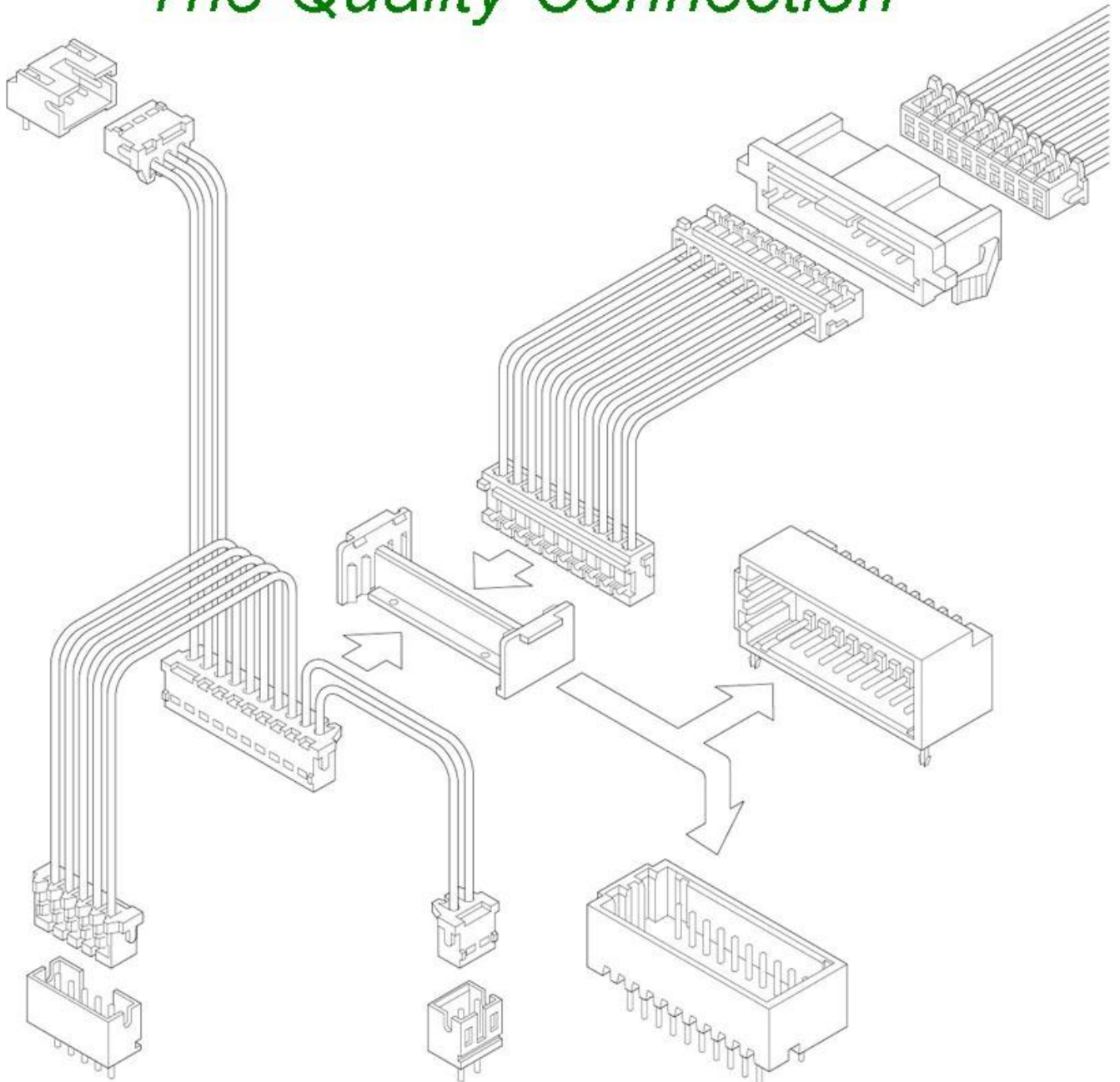
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