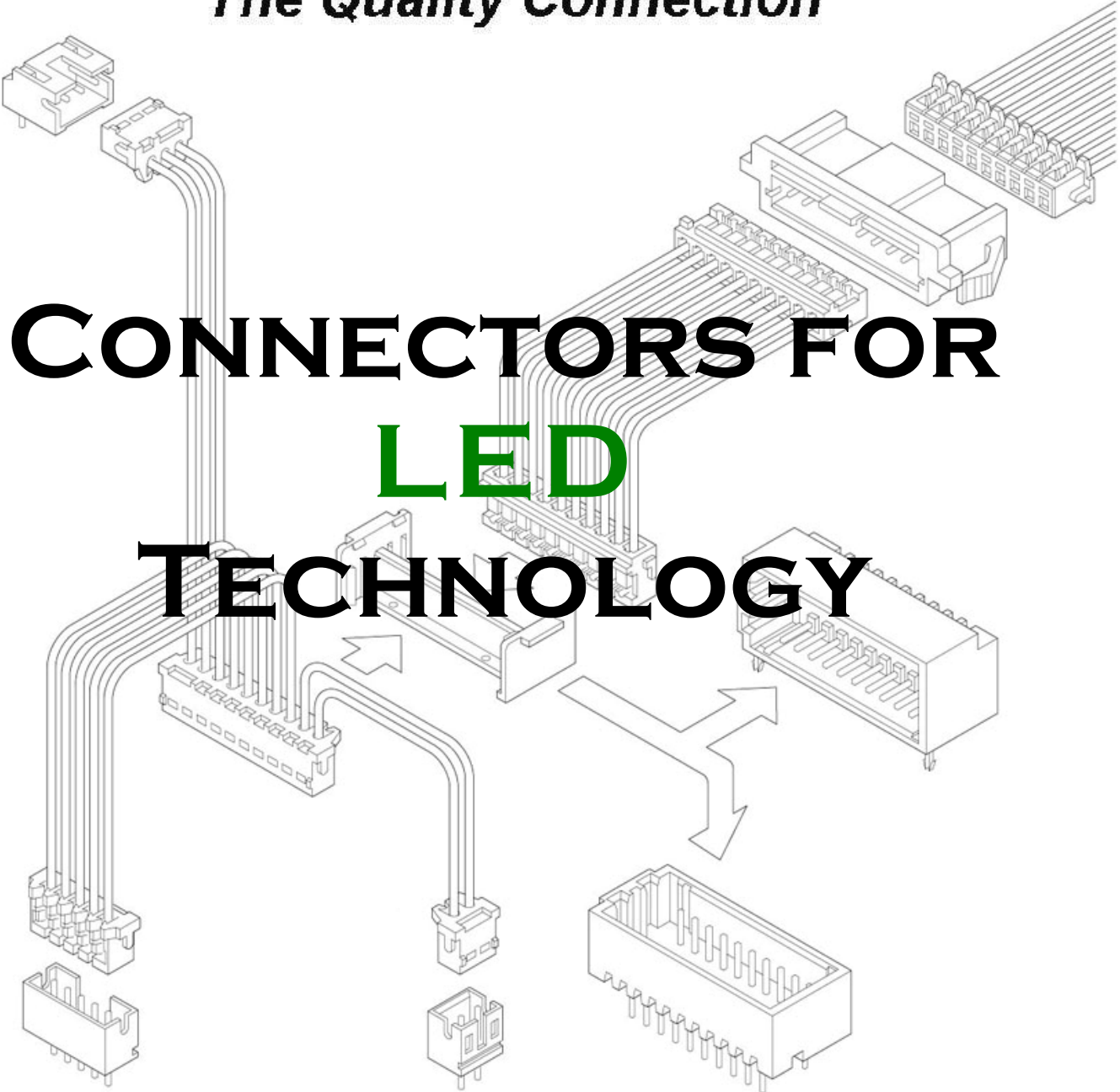


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CONNECTORS FOR LED TECHNOLOGY

JST DEUTSCHLAND GMBH
KÜFERSTR. 15
D-73650 WINTERBACH
TEL.: +49 / 71 81 / 40 07 -0
FAX: +49 / 71 81 / 40 07 - 21
WWW.JST.DE
CUSTOMER.SERVICE@JST.DE

Overview connector series

	SH connector wtb	ACH connector wtb & wtw	ZH connector wtb & wtw	JWPF connector wtb & wtw
pitch	1.0 mm	1.2 mm	1.5 mm	2.0 mm
number of circuits	2 to 20	wtb: 2, 3, 4; wtw: 2	wtb: 2-13; wtw: 2, 3, 9, 13	wtb: 2, 3, 4; wtw: 2, 3, 4, 8
current rating*	1A AC, DC (#28)	1.5-2A AC, DC	1A AC, DC (#26)	3A AC, DC (#22)
voltage rating	50 V AC, DC	50V AC, DC	50V AC, DC	100V AC, DC
applicable wire range	AWG 32-28	AWG 30-28	AWG 32-26	AWG 26-22
SMT	x	x	x	
THT			x	x
page	2	3	4	5

	PH connector wtb	LEA connector wtb	LEB connector wtb & btb (under development)	SFV connector Patent Pending wtb
pitch	2.0 mm	1.8 mm / 4.2 mm	4.0 mm	2.0 mm
number of circuits	2 to 16	2	wtb: 2, btb: 1+2	2
current rating*	2A AC, DC (#24)	3A AC, DC	2A AC, DC (#26)	1A AC, DC (#28)
voltage rating	100V AC, DC	300V AC, DC	300V AC, DC	300V AC, DC
applicable wire range	AWG 32-24	AWG 22	AWG 26	AWG 30-28
SMT	x	x	x	x
THT	x			
page	6	7	8	9

	SFD connector Patent Pending wtb	SFG connector Patent Pending wtb	SFK connector Patent Pending wtb
pitch	1.1 mm	1.1 mm	1.8 mm
number of circuits	10	5	2
current rating*	1A AC, DC (#28)	1A AC, DC (#28)	3.2A AC, DC (#22)
voltage rating	50V AC, DC	200V AC, DC	350V AC, DC
applicable wire range	AWG 32-28	AWG 30-28	AWG 30-22
SMT	x	x	x
THT			
page	10	11	12

* depends on wire range

SH connector

wire to board

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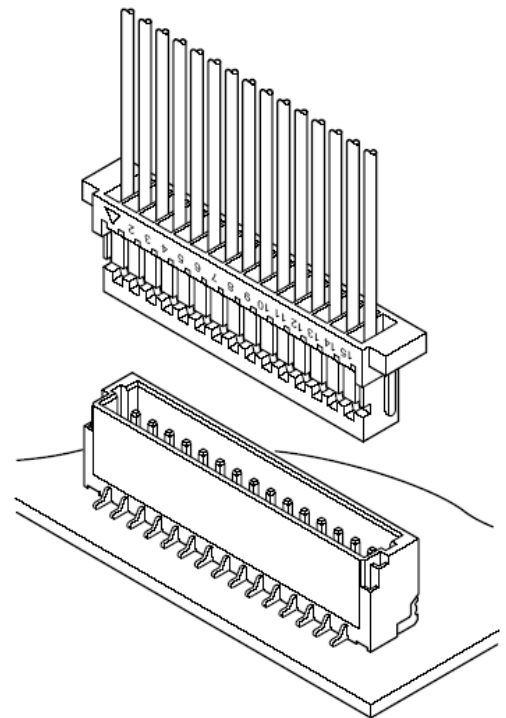


Specification:

pitch: 1.0 mm
 current rating: 1.0A AC, DC (AWG #28)
 voltage rating: 50V AC, DC
 applicable wire range: AWG #32 to #28
 number of circuits: 2 to 20

Features:

- ultra-compact, low profile design
 2.95 mm mounting height for side entry type
- embossed-tape SMT-header of series SR
- contacts and headers in tin plated and gold plated version available

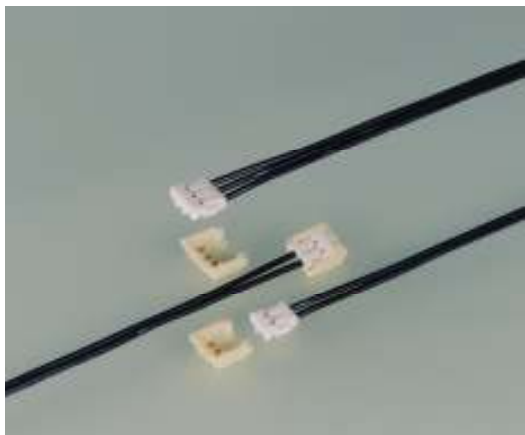


Terminal AWG 32-28	SSH-003T-P0.2-H	PU: 23K
Housing with protrusions	SHR-(*)V-S-B	
Housing without protrusions	SHR-(*)V-S	
Header top entry	BM(*)B-SRSS-TB (LF)(SN)	
Header side entry	SM(*)B-SRSS-TB (LF)(SN)	

* = number of circuits

ACH connector

wire to board & wire to wire

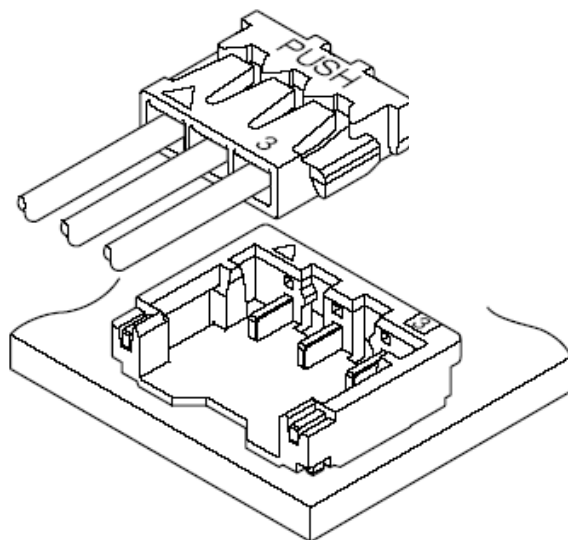
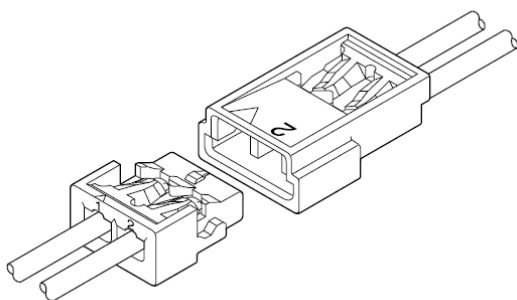


Specification:

pitch:	1.2 mm
current rating:	1.5-2A AC, DC depends on circuit no. and wire range
voltage rating:	50V AC, DC
applicable wire range:	AWG #30 to #28
number of circuits	
wire to board:	2, 3, 4
wire to wire:	2

Features:

- compact and low profile type
height: 1.4 mm
width: 4.3 mm
- top entry but side feed type
- corresponding to sucking nozzle of pick and place machine
- gold plated terminals
- headers with nickel-stripped gold plating

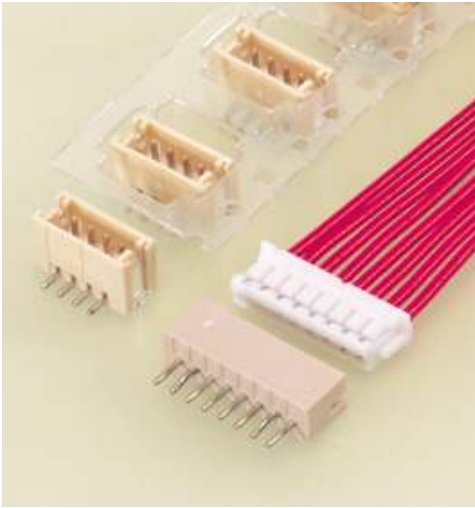


Socket terminal AWG 30-28 for wtb & wtw	SACH-003G-P0.2	PU: 30K
Housing	ACHR-(*)V-S	PU: 1K
Header	BM(*)B-ACHSS-GAN-TF (LF)(SN)	PU: 4.500
Plug housing for wtw	ACHTP-02V-S	PU: 1K
Socket housing for wtw	ACHTR-02V-S	PU: 1K
Plug terminal AWG 30-28 for wtw	SACHP-003G-P0.2	PU: 30K

* = number of circuits

ZH connector

wire to board & wire to wire (ZM)

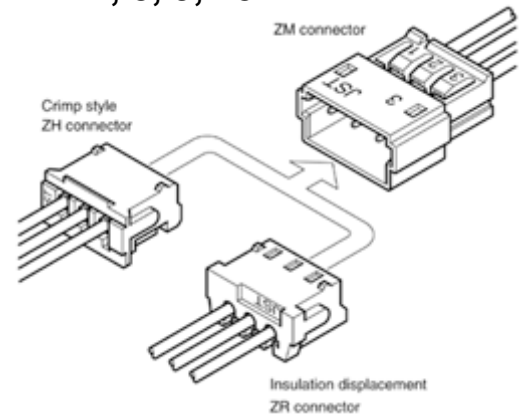
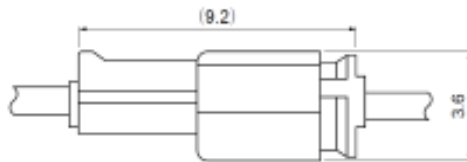


Specification:

pitch: 1.5 mm
 current rating: 1A AC, DC (AWG 26)
 voltage rating: 50V AC, DC
 applicable wire range: AWG #30 to #26
 wtw: to #28
 number of circuits
 wire to board: 2-13
 wire to wire: 2, 3, 9, 13

Features:

- compact and low profile type
 height: 5.6 mm
 width: 3.5 mm
- reliable contact construction
- top entry and side entry headers in THT and SMT version available
- top entry version also available with suction cap
- gold and tin plated terminals available



Housing ZH	ZHR-(*)	
Socket terminal ZH #28-26	SZH-002T-P0.5	PU: 13K
Socket terminal ZH #32-28	SZH-003T-P0.5	PU: 16K
Housing ZM	ZMR-(*)	
Plug terminal ZM #30-28	SMM-003T-P0.5	PU: 16K
Header THT top	B(*)B-ZR (LF)(SN)	
Header THT side	S(*)B-ZR (LF)(SN)	
Header SMT top	B(*)B-ZR-SM4-TF (LF)(SN)	
Header SMT side	S(*)B-ZR-SM2-TF (LF)(SN)	
Header SMT side with solder tabs	S(*)B-ZR-SM4A-TF (LF)(SN)	

* = number of circuits

JWPF connector

wire to board & wire to wire

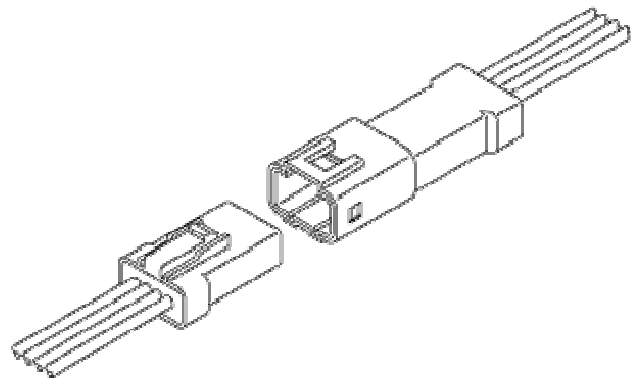


Specification:

pitch:	2.0 mm
current rating:	3A AC, DC (AWG 22)
voltage rating:	100V AC, DC
applicable wire range:	AWG #26 to #22
number of circuits	
wire to board:	2, 3 and 4
wire to wire:	2, 3, 4 and 8

Features:

- waterproof IEC 60529 IPX7
- double-spring construction
- housing-to-terminal lock
- inner-housing lock
- top entry headers THT



Socket housing	(*)R-JWPF-VSLE-S	
Socket terminal	SWPR-001T-P0.25	PU: 8.200
Header THT top entry	B(*)B-JWPF-SK-R (LF)(SN)	
Plug housing	(*)T-JWPF-VSLE-S	
Plug terminal	SWPT-001T-P025	PU: 8.200

* = number of circuits

PH connector

wire to board

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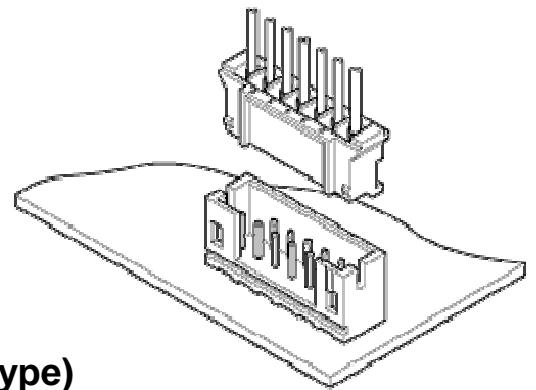


Specification:

pitch:	2.0 mm
current rating:	2A AC, DC (AWG 24)
voltage rating:	100V AC, DC
applicable wire range:	AWG #32 to #24
number of circuits:	2-16

Features:

- low profile connector:
height after mounting: 8.0 mm
width after mounting: 4.5 mm (top entry type)
- fully shrouded header
- high reliability and low in cost
- headers top and side entry in THT, SMT and SMT top entry with suction cap available
- terminals in tin and gold plated available
- housings and headers available in different colours



Housing	PHR-(*)	
Terminal AWG 30-24	SPH-002T-P0.5S	PU: 8K
Terminal AWG 28-24 Low insertion force	SPH-002T-P0.5L	PU: 8K
Terminal AWG 32-28	SPH-004T-P0.5S	PU: 10K
Header THT top entry	B(*)B-PH-K-S (LF)(SN)	
Header THT side entry	S(*)B-PH-K-S (LF)(SN)	
Header SMT top entry	B(*)B-PH-SM4-TB (LF)(SN)	
Header SMT side entry	S(*)B-PH-SM4-TB (LF)(SN)	

* = number of circuits

LEA connector

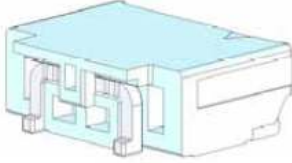
wire to board

mass production from July 2010 on

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Header



Housing



Contact

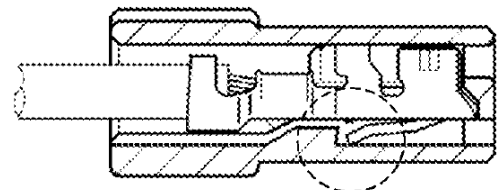
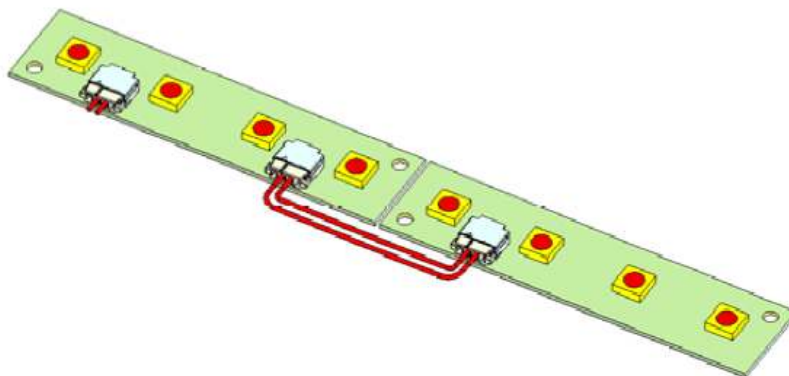
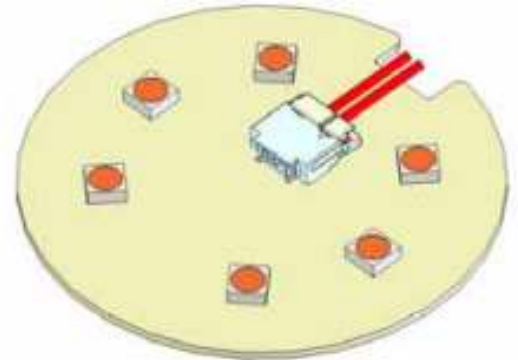


Specification:

pitch: 1.8 mm
 mating part: 4.2 mm
 soldering part: 3A AC, DC (AWG 22)
 current rating: 300V AC, DC
 voltage rating: AWG #22
 applicable wire range: 2
 number of circuits:

Features:

- low mounting height: 3.0 mm
- housing has insertion / withdrawal guides for easy and secure insertion
- innovative locking device construction to prevent incomplete mating and accidental disconnection
- side entry header SMT

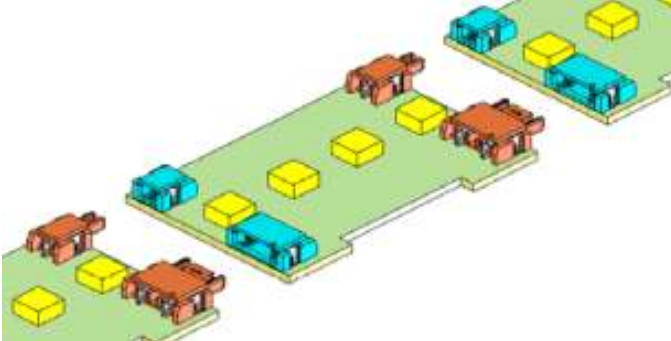


Good insertion

Housing	LEAR-02V-S
Header side entry SMT	SM02B-LEASS-TF (LF)(SN)
Terminal AWG 26-22	SSFH-001T-P0.5
Terminal AWG 28-24	SSFH-002T-P0.5

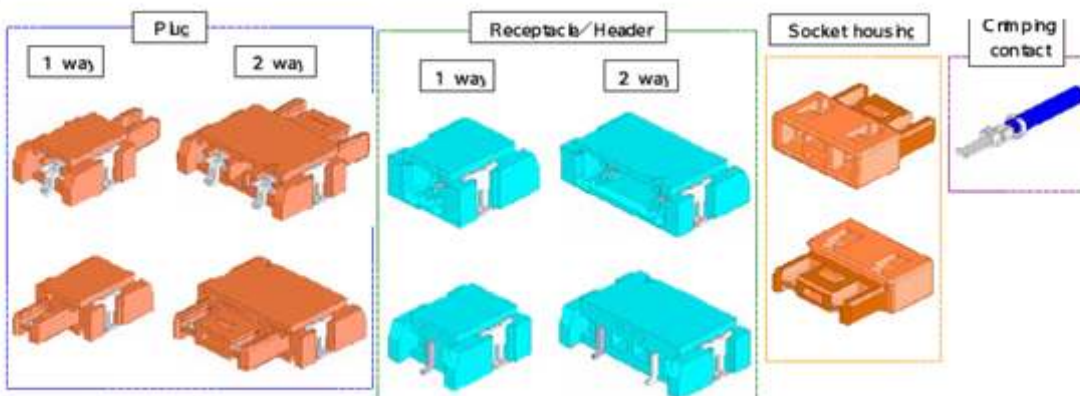
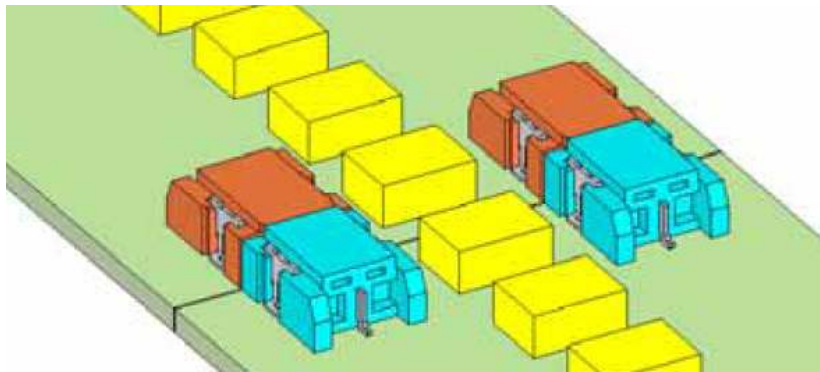
LEB connector

wire to board & board to board
currently development phase



Specification:

pitch:	4.0 mm
current rating:	2A AC, DC (AWG 26)
voltage rating:	300V AC, DC
applicable wire range:	AWG #26
number of circuits:	
wire to board:	2
board to board:	1 and 2



PART NOS NOT FIXED YET

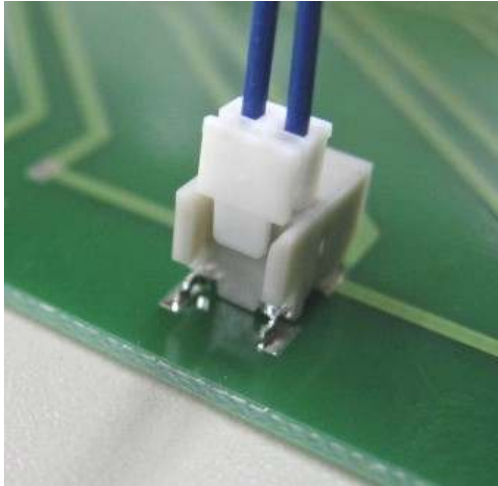
SFV connector

wire to board

Patent pending

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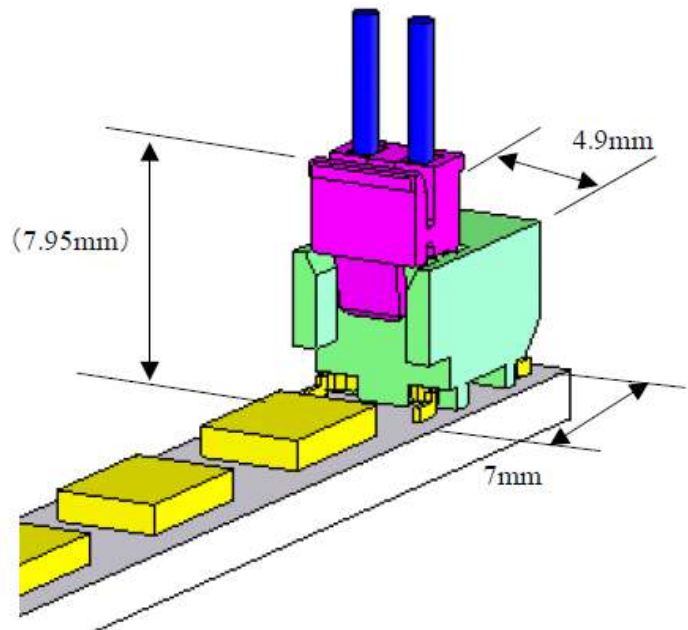


Specification:

pitch:	2.0 mm
current rating:	1A AC, DC (AWG 28)
voltage rating:	300V AC, DC
applicable wire range:	AWG #30 to #28
number of circuits:	2

Features:

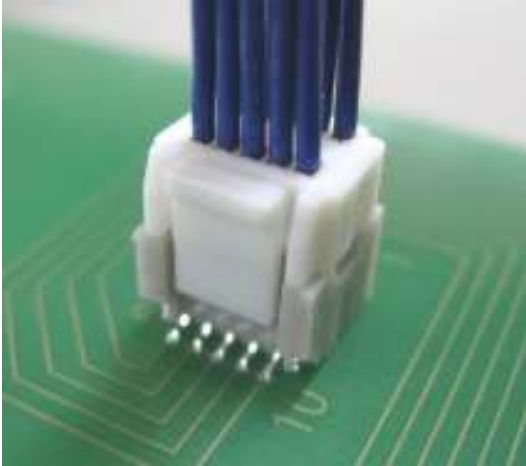
- withstand high voltage
- secure locking
- halogen free material
- developed for LCD TV



Header top entry	BM02B-SFVH (HF)
Housing	SFVR-02V-S (HF)
Terminal	SGVH-002T-P0.2

SFD connector

wire to board
Patent pending

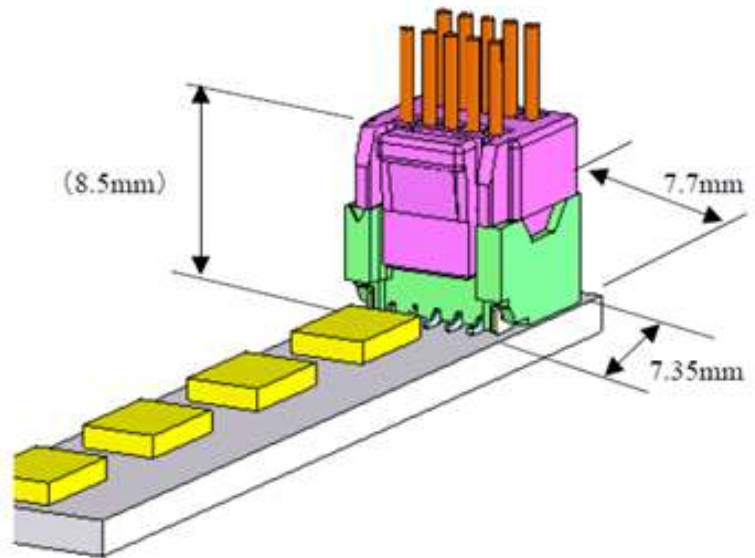


Specification:

pitch:	1.1 mm
current rating:	1A AC, DC (AWG 28)
voltage rating:	50V AC, DC
applicable wire range:	AWG #32 to #28
number of circuits:	10

Features:

- secure locking
- halogen free material
- developed for LCD TV



Header top entry	BM10B-SFDH (HF)
Housing	SFDR-10V-S (HF)
Terminal	SSFD-003T-P0.2

SFG connector

wire to board
Patent pending

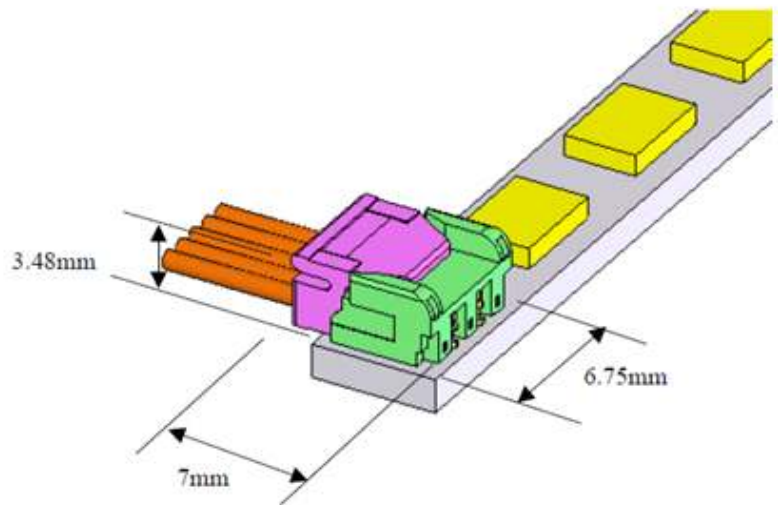


Specification:

pitch:	1.1 mm
current rating:	1A AC, DC (AWG 28)
voltage rating:	200V AC, DC
applicable wire range:	AWG #30 to #28
number of circuits:	5

Features:

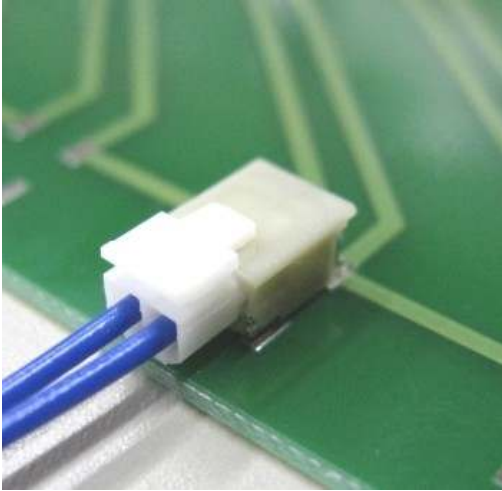
- withstand high voltage
- secure locking
- halogen free material
- developed for LCD TV



Header side entry	SM05B-SFGH (HF)
Housing	SFGR-05V-S
Terminal	SSFG-003T-P0.2

SFK connector

wire to board
Patent pending

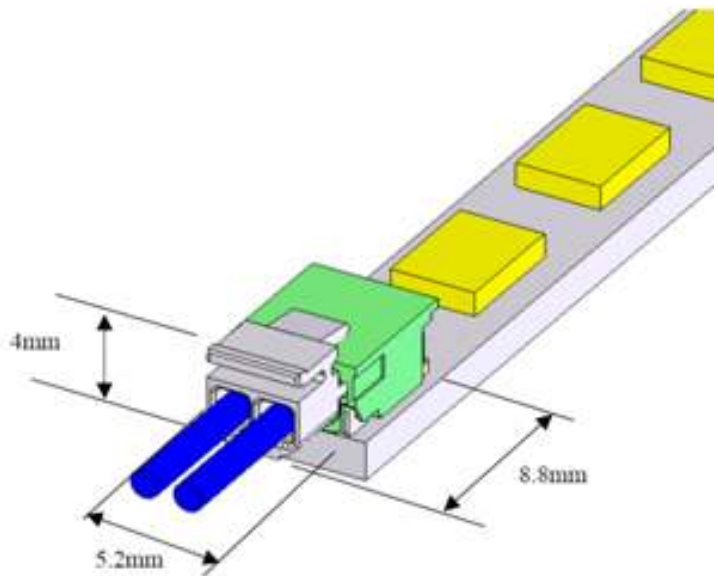


Specification:

pitch:	1.8 mm
current rating:	3.2A AC, DC (AWG 22)
voltage rating:	350V AC, DC
applicable wire range:	AWG #30 to #22
number of circuits:	2

Features:

- withstand high voltage
- secure locking
- halogen free material
- developed for LCD TV



Header side entry	SM02B-SFKH
Housing	SFKR-02V-S
Terminal AWG 26-22	SSFH-001T-P0.5
Terminal AWG 30-26	SSFH-002T-P0.5