

▶ ELECTRONICS

# CONNECTORS FOR FLEXIBLE CIRCUITRY

## FFC/FPC/CIC

## FCI: SETTING THE STANDARD FOR CONNECTORS

With operations in 30 countries, FCI is a leading manufacturer of connectors.

Our 13,500 employees are committed to providing customers with high-quality, innovative products for a wide range of consumer and industrial applications.

## INTRODUCTION

You can count on FCI, as a leader in flex circuit connectors, for the most innovative and complete range of products in the industry. FCI offers products in LIF (light insertion force) and ZIF (zero insertion force), top and bottom contact options, vertical and right angle orientations, surface mount and through hole terminations in contact spacing options all the way down to 0.3mm with finer pitch products on their way. Additional features, such as optional cable locks and additional mounting devices, insure that FCI has a solution for almost any application, no matter how demanding.

As your connection to innovation, FCI continues to bring you unique solutions that not only give you the footprint you need but help to maximize the quality level of your application. Many of our flex circuit connectors offer ZIF with prehold, which applies a small retention force on the cable to hold it in place until the actuator is locked. FCI introduced the first flex connector with a backflip actuator that allows the user to insert the flex cable and lock the actuator with one hand. FCI improved that feature on many products by modifying the connector housing to provide visual confirmation that the flex cable is mated properly. FCI was also the company that first brought you the option of an FFC/FPC connector under 1mm in height. These features combine to insure your application has the highest quality possible when it leaves your site.

## 0.30MM SPACING

YLL-D Series	5
YLL-U Series	5
SFYL Series	6
SFY Series	6

## 0.40MM SPACING

GLH Series	7
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## 0.50MM SPACING

VLL Series	8
VLH Series	8
SFVL Series	9
SFVA Series	9
SFVE Series	10
OPU Series	10
SFV-R Series	11
SFV-S Series	11

## 1.0MM SPACING

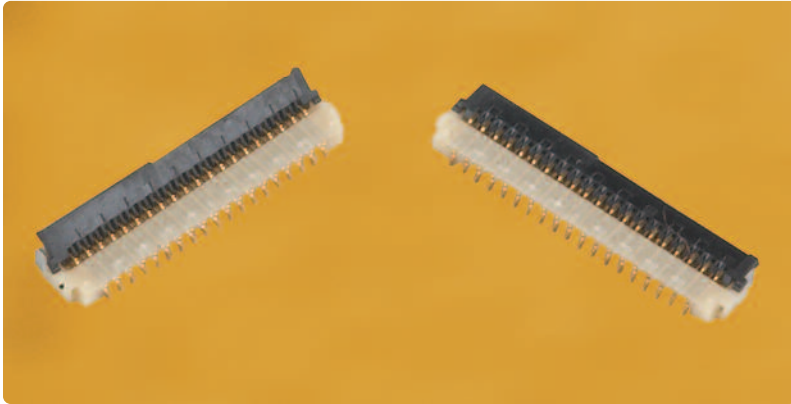
SFW Series	12
HFW Series	13
SLW Series	14
HLW Series	14

# CONNECTOR SELECTION MATRIX

Contact Spacing	Series	Part Number	Height mm	Contact Location	ZIF / LIF	Positions Available
0.3	YLL-D	10061122	0.9	Lower	ZIF	15,21,33,35,39,41
	YLL-U	10064555	0.9	Upper	ZIF	23,31,33,35,37,39
	SFYL-D	10013057	1.2	Lower	Non-ZIF	17,21,25,29,31,35,45
	SFYL-U	10017251	1.2	Upper	Non-ZIF	11,15,19,23,25,27,31,39,45,51
	SFY	62789	2.0	Lower	ZIF	27,45,51,57,67
0.4	GLH	10051806	1.2	Lower	ZIF	57, 60
0.5	VLL	10051922	1.3	Lower	ZIF	8,10,11,12,14,15,16,18,20,22,24,26,28,30
	VLH	10042867	1.3	Lower	ZIF	40,45,50
	SFVL-D	59453-xx1	0.9	Lower	ZIF	4,5,6,7,8,9,12
	SFVL-U	59453-xx2	0.9	Upper	ZIF	4,5,6,8
	SFVA	10014265	2.0	Both	ZIF	60
	SFVE	10054365	1.2	Upper	ZIF	18,20,28,30
	OPU-D	62684-xx1	2.0	Lower	ZIF	38,40,45,50,57,60
	OPU-U	62684-xx2	2.0	Upper	ZIF	32,34,36,40,43,45,50,55,57
	SFV-R	SFVxxR	1.8	Upper or Lower	ZIF	4-35
	SFV-S	62674	2.95	Vertical	ZIF	8,12,16,20,21,23,24,25,26,30,32,33
1.0	SFW-R	SFWxxR	2.7	Upper or Lower	ZIF	4-30
	SFW-S	SFWxxS	3.6	Vertical	ZIF	4,5,6,8,10,15,16,17,18,19,20,22,23,24,26,28,30
	HFW-S	HFWxxS	3.6	Vertical	Non-ZIF	4-30
	HFW-R	HFWxxR	1.9	Upper or Lower	Non-ZIF	4-33
	SLW-R	SLWxxR	4	Lower	ZIF	4-30
	SLW-S	SLWxxS	5.5	Lower	ZIF	4-30
	HLW-R	HLWxxR	3.9	Upper	Non-ZIF	4-32
	HLW-S	HLWxxS	5.9	Vertical	Non-ZIF	4-32

xx - Number of Contacts

**YLL-D SERIES - 10061122**

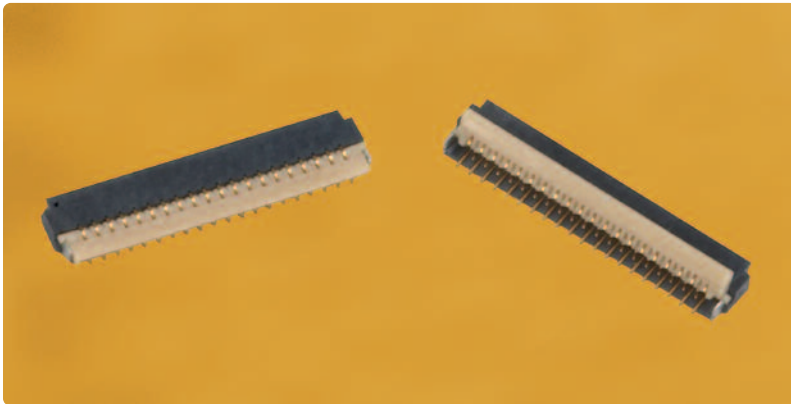


- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FPC
- Board termination: Surface mount
- Contact location: Lower
- Height: 0.9mm
- Lead free with gold plating
- Accommodated cable thickness: 0.2mm

- Front flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings

Part Number	Number of Positions Available
10061122-xx1110ELF	15,21,33,35,39,41

**YLL-U SERIES - 10064555**



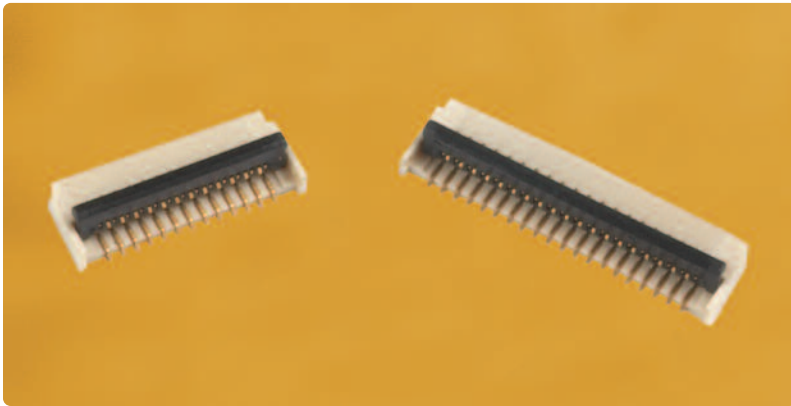
- Orientation: Right Angle
- Cable termination: ZIF with prehold
- Cable type: FPC
- Board termination: Surface mount
- Contact location: Upper
- Height: 0.9mm
- Lead free with gold plating
- Accommodated cable thickness: 0.2mm

- Front flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings

Part Number	Number of Positions Available
10064555-xx2110ELF	23,31,33,35,37,39

xx - Number of Contacts

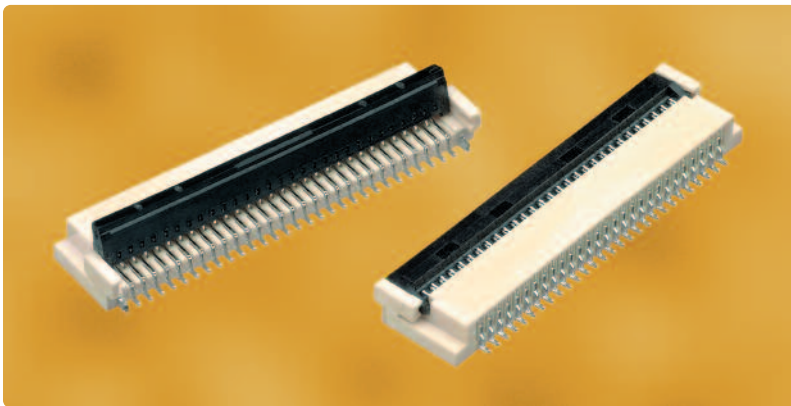
**SFYL SERIES – 10013057, 10017251**



- Orientation: Right Angle
- Cable termination: Non-ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Upper and lower available
- Height: 1.2mm
- Lead free with gold plating
- Accommodated cable thickness: 0.2mm
- Front flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings

Part Number	Number of Positions Available
Upside Contact	
10017251-xx2240ELF	11,15,19,23,25,27,31,39,45,51
Downside Contact	
10013057-xx1200ELF	17,21,25,29,31,35,45

**SFY SERIES - 62789**

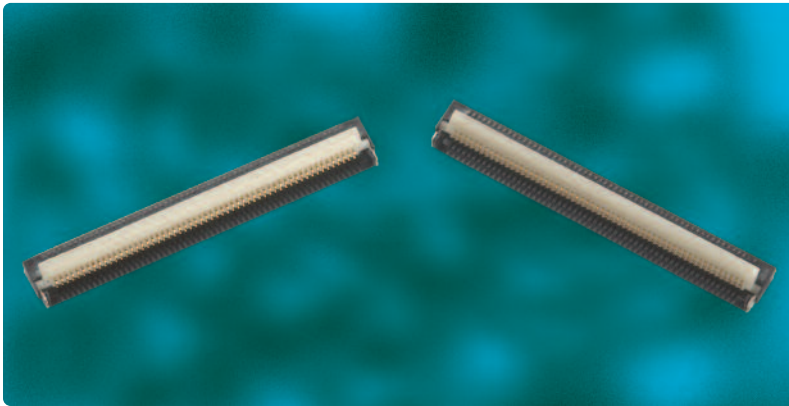


- Orientation: Right Angle
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Lower
- Height: 2.0mm
- Lead free with gold plating
- Surface mount termination
- Accommodated cable thickness: 0.2mm
- Front flip type actuator makes cable application easy and error free
- Economical fine pitch flex connector

Part Number	Number of Positions Available
62789-xx1111ALF	27,45,51,57,67

xx - Number of Contacts

## GLH SERIES - 10051806

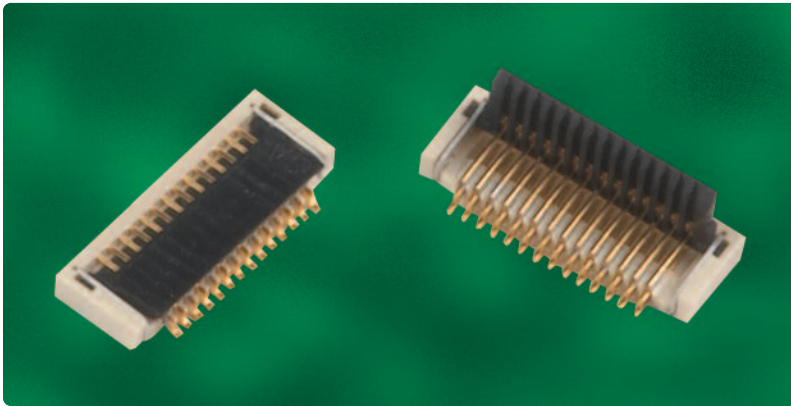


- Orientation: Right Angle
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Lower
- Height: 1.2mm
- Lead free with gold plating
- Accommodated cable thickness: 0.2mm
- Front flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings

Part Number	Number of Positions Available
10051806-xx15ELF	57, 60

xx - Number of Contacts

**VLL SERIES – 10051922**

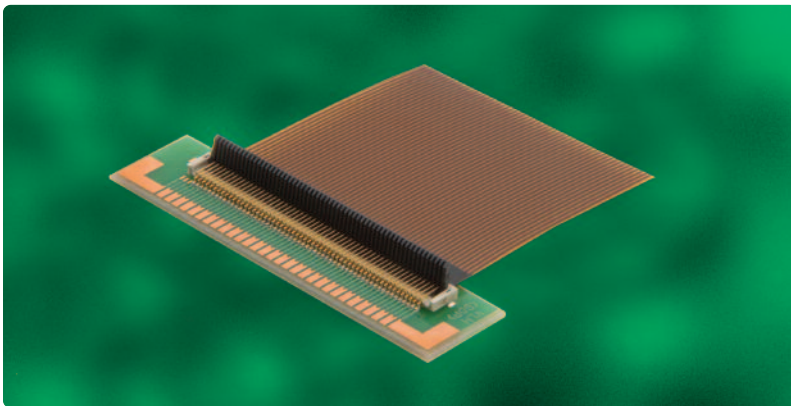


- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Lower
- ▀ Height: 1.3mm
- ▀ Lead free with gold plating
- ▀ Accommodated cable thickness: 0.3mm

- ▀ Back flip type actuator makes cable application easy
- ▀ Innovative housing design provides visual confirmation that flex cable is properly inserted
- ▀ Higher retention design insures cable stays in place

Part Number	Number of Positions Available
10051922-xx10EALF	8,10,11,12,14,15,16,18,20,22,24,26,28,30

**VLH SERIES - 10042867**



- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Lower
- ▀ Height: 1.3mm
- ▀ Lead free with gold plating
- ▀ Accommodated cable thickness: 0.3mm

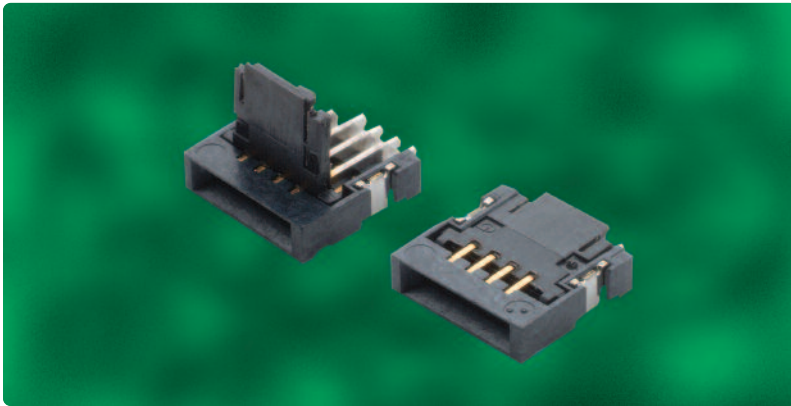
- ▀ Back flip type actuator makes cable application easy
- ▀ Innovative housing design provides visual confirmation that flex cable is properly inserted
- ▀ Higher retention design insures cable stays in place

Part Number	Number of Positions Available
10042867-xxMB10EALF	40,45,50

xx - Number of Contacts



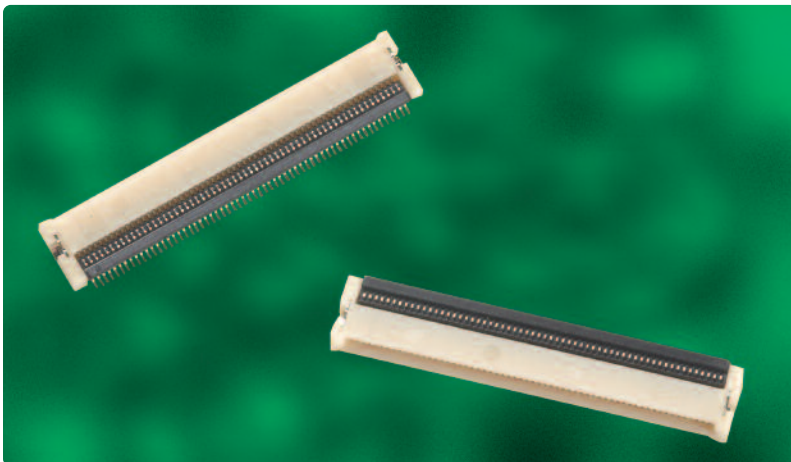
## SFVL SERIES - 59453



- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Upper and lower options
- ▀ Height: 0.9mm
- ▀ Lead free with gold plating
- ▀ Accommodated cable thickness: 0.2mm
  
- ▀ Very low profile for maximum space savings
- ▀ Back flip actuator design makes cable insertion easy
- ▀ Cable locking feature provides high retention force

Part Number	Number of Positions Available
Upside Contact 59453-xx2110EDLF	4,5,6,8
Downside Contact 59453-xx1110EDLF	4,5,6,7,8,9,12

## SFVA SERIES - 10014265

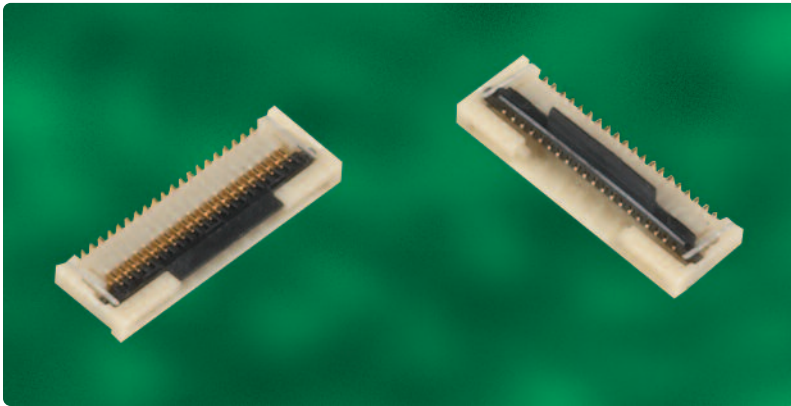


- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Upper and lower
- ▀ Height: 2.0mm
- ▀ Lead free with gold plating
- ▀ Accommodated cable thickness: 0.3mm
  
- ▀ Very compact design saves space on the printed circuit board
- ▀ Back flip actuator design makes cable insertion easy

Part Number	Number of Positions Available
10014265-609100ALF	60

xx - Number of Contacts

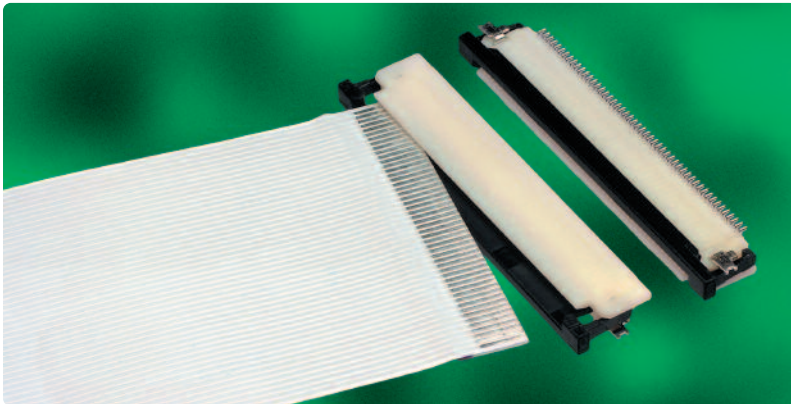
**SFVE SERIES - 10054365**



- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Upper
- Height: 1.2mm
- Lead free with gold plating
- Accommodated cable thickness: 0.2mm
- Front flip type actuator makes cable application easy and error free

Part Number	Number of Positions Available
10054365-xx2110ELF	18,20,28,30

**OPU SERIES - 62684**

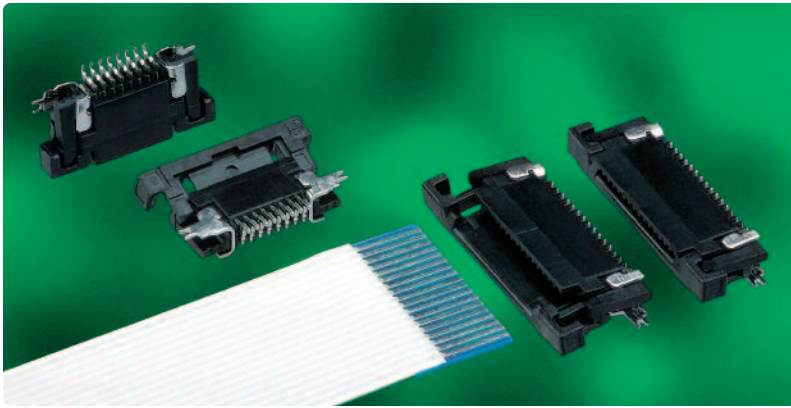


- Orientation: Right Angle
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Uppuer and lower options
- Height: 2.0mm
- Lead free with gold plating
- Accommodated cable thickness: 0.3mm
- Economical higher pin count flex connector solution
- Traditional sliding actuator secures cable

Part Number	Number of Positions Available
Upside Contact 62684-xx2100ALF	32,34,36,40,43,45,50,55,57
Downside Contact 62684-xx1100ALF	38,40,45,50,57,60

xx - Number of Contacts

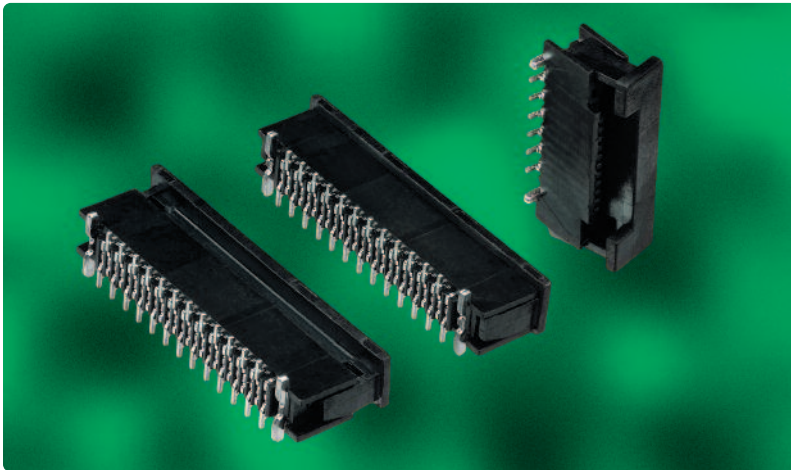
**SFV-R SERIES**



- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF with prehold
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Upper and lower options
- ▀ Height: 1.8mm
- ▀ Lead free with gold plating
- ▀ Optional cable lock
  
- ▀ Versatile, economical connector system with uses in many applications
- ▀ Traditional sliding actuator secures cable

Part Number	Number of Positions Available
SFVxxR-1STE1LF	4-35
<b>Contact Location/Cable Type</b> 1-FFC/FPC downside contact 2-FFC/FPC upside contact 3-FPC downside with cable lock 4-FPC upside with cable lock	<b>Packaging</b> E1-tape and reel 2000 pieces

**SFV-S SERIES - 62674**

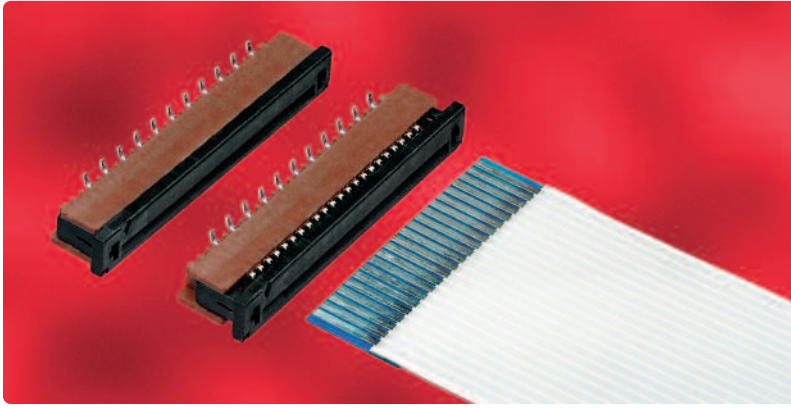


- ▀ Orientation: Vertical
- ▀ Cable termination: ZIF with prehold
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Height: 4.1mm
- ▀ Lead free with gold plating
  
- ▀ Economical vertical ZIF flex cable connector
- ▀ Traditional sliding actuator secures cable

Part Number	Number of Positions Available
62674-xx2100ALF	8,12,16,20,21,23,24,25,26,30,32,33

xx - Number of Contacts

## SFW SERIES



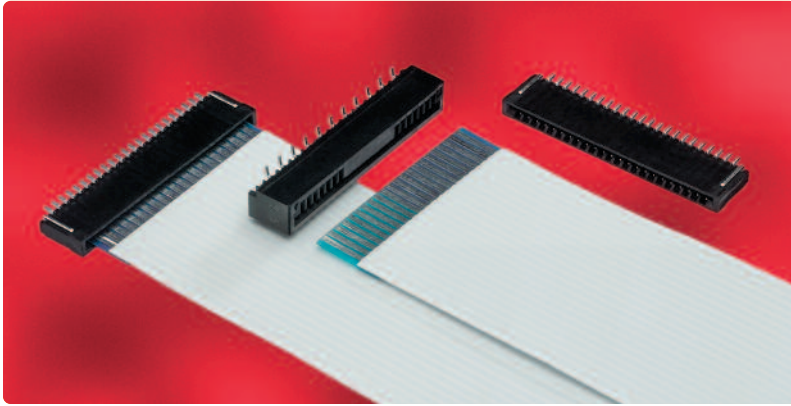
- Orientation: Right angle and vertical options
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC/CIC
- Board termination: Surface mount
- Contact location: Upper and lower options
- Height: 2.7mm right angle, 5.3 vertical
- Lead free with gold plating
- Optional cable lock

- Versatile, economical connector system with uses in many applications
- Traditional sliding actuator secures cable

Part Number		Number of Positions Available
SFWxxR-1STE1		Right angle 4-30
		Vertical 4,5,6,8,10,15,16,17,18, 19,20, 22,23,24,26,28,30
<b>Orientation</b>	R-right angle S-straight	
<b>Contact Location/Cable Type</b>	1-FFC/FPC downside contact 2-FFC/FPC upside contact 3-FPC downside with cable lock 4-FPC upside with cable lock 5-CIC downside contact 6-CIC upside contact 7-CIC downside with cable lock 8-CIC upside with cable lock	
<b>Mounting</b>	ST-SMT STM-SMT with tab (vertical only)	
<b>Packaging</b>	Right Angle E1-tape and reel 2000 pieces	
	Vertical E1-tape and reel 1000 pieces	

xx - Number of Contacts

## HFW SERIES

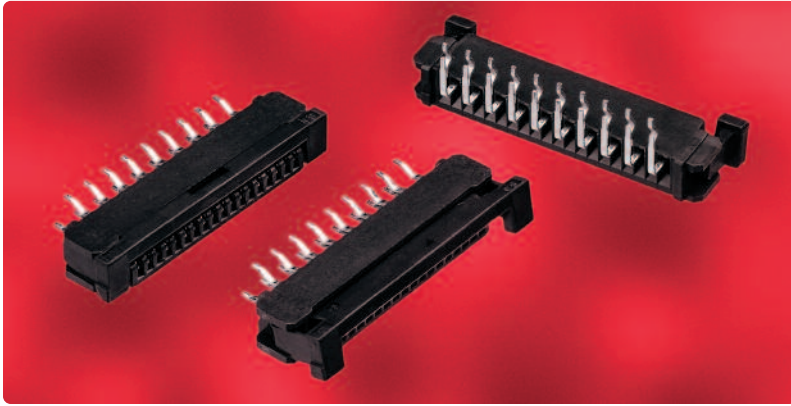


- ▀ Orientation: Right angle and vertical options
  - ▀ Cable termination: Non-ZIF
  - ▀ Cable type: FFC/FPC/CIC
  - ▀ Board termination: Surface mount
  - ▀ Contact location: Upper and lower options
  - ▀ Height: 1.9mm right angle, 5.3 vertical
  - ▀ Lead free with gold plating
- ▀ Versatile, economical connector system with uses in many applications

Part Number		Number of Positions Available
HFWxxR-1STE1		Right angle 4-33 Vertical 4-30
<b>Orientation</b> R-Right angle S-Straight	<b>Mounting</b> ST-SMT STM-SMT with tab (vertical only)	<b>Packaging</b> Right Angle E1-tape and reel 2000 pieces Vertical E1-tape and reel 1000 pieces
<b>Contact/Cable Type</b> Right Angle 1-FFC/FPC downside contact 2-FFC/FPC upside contact  Vertical 2-FFC/FPC 6-CIC		

xx - Number of Contacts

## SLW SERIES

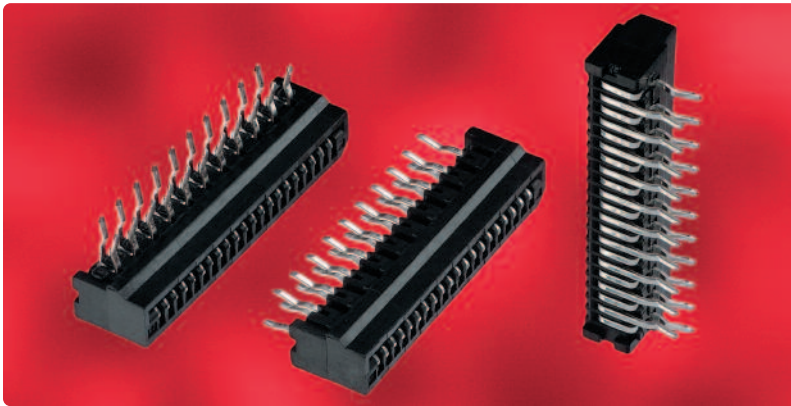


- Orientation: Right angle and vertical
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC/CIC
- Board termination: Through hole
- Contact location: Lower
- Height: 4.0mm right angle, 5.5 vertical
- Lead free plating available

■ Versatile, economical connector system with uses in many applications

Part Number		Number of Positions Available
SLWxxR-1C7LF		4-30
<b>Orientation</b>	<b>Cable Type</b>	
R-Right angle	1-FFC/FPC	
S-Straight	5-CIC	

## HLW SERIES



- Orientation: Right angle or vertical
- Cable termination: Non-ZIF
- Cable type: FFC/FPC/CIC
- Board termination: Through hole
- Contact location: Upper
- Height: 3.9mm right angle, 5.9 vertical
- Lead free plating available

■ Through hole alternative  
 ■ Economical connector system

Part Number		Number of Positions Available
HLWxxR-2C7LF		4-32
<b>Orientation</b>	<b>Cable Type</b>	
R-Right angle	2-FFC/FPC	
S-Straight	6-CIC	

xx - Number of Contacts



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