

■ 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 12,000 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 ZIF (zero insertion force) and non-ZIF, 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 0.2mm with finer pitch products on their way. Additional features, such as optional cable locks and additional mounting devices, ensures 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 gives 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 back side flip 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 is 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.

0.2MM PITCH

XL-D Series	5
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0.3MM PITCH

YLL-D Series	5
YLL-U Series	5

0.4MM PITCH

SFGL Series	6
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0.5MM PITCH

OPU Series	6
SFVE Series	7
SFVL Series	7
SFV-R Series	8
SFV-S Series	8
VHC Series	9
VLK Series	9
VLL Series	10
VLP Series	10

1.0MM PITCH

HFW Series	11
HLW Series	11
SFW Series	12
SLW Series	13

1.25MM PITCH

HLEM-R	13
HLEM-S	13

2.54MM PITCH

Clincher	14
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CONNECTOR SELECTION MATRIX

Pitch	Family Name	Height (mm)	Contact Location	ZIF / Non-ZIF	Positions Available
0.2mm	XL-D	0.9	Bottom	ZIF (FF)	11,29
0.3mm	YLL-D	0.9	Bottom	ZIF (FF)	13,15,17,21,23,25,27,29,33,35,39,41,43,45,51
	YLL-U	0.9	Top	Non-ZIF	15,21,23,25,27,31,33,35,37,39,41
0.4mm	SFGL	0.9	Bottom	ZIF (BF)	9
0.5mm	OPU-D	2.0	Bottom	ZIF (SL)	38,40,45,50,55,57
	OPU-U	2.0	Top	ZIF (SL)	32,34,36,40,45,50,55,57
	SFVE	1.2	Top	ZIF (FF)	18,20,24,28,30
	SFVL-D	0.9	Bottom	ZIF (BF)	4,5,6,7,8,9,12,13
	SFVL-U	0.9	Top	ZIF (BF)	4,5,6,8
	SFV-R	1.8	Top, Bottom	ZIF (SL)	4-35
	SFV-S	4.1	N/A	ZIF (SL)	8,12,16,20,21,22,23,24,25,26,30,32,33
	VHC	2.0	Bottom	ZIF (FF)	35,50,60,70
	VLK	1.3	Bottom	ZIF (FF)	35,45,60
	VLL	1.2	Bottom	ZIF (BF)	8,10,11,12,14,15,16,18,20,22,24,26,28,30
	VLP	0.7	Bottom	ZIF (BF)	4,8
1.0mm	HFW-R	1.9	Top, Bottom	Non-ZIF	4-30
	HFW-S	5.3	N/A	Non-ZIF	4-30,32
	HLW-R	3.9	Top	Non-ZIF	4-32
	HLW-S	5.9	N/A	Non-ZIF	4-32
	SFW-R	2.7	Top, Bottom	ZIF (SL)	4-30
	SFW-S	5.3	N/A	ZIF (SL)	4,5,6,8,10,11,12,14,15,16,17,18,20,22,23,24,26,28,30
	SLW-R	4.0	Bottom	ZIF (SL)	4-30
	SLW-S	5.5	N/A	ZIF (SL)	4-30
1.25mm	HLEM-R	5.0	Top	Non-ZIF	3-40
	HLEM-S	8.0	N/A	Non-ZIF	3-40
2.54mm	Clincher	Standard receptacle			2-32
	Clincher	Receptacle with keying latch			2-16
	Clincher	Receptacle with keying feature			6-34
	Clincher	Receptacle with keying & active latch			6-34
	Clincher	Standard plug			3-14
	Duflex	Contact and housing			

xx - Number of Contacts

ZIF (SL): Slider action
 ZIF/Non-ZIF (FF): Front side flip
 ZIF/Non-ZIF (BF): Back side flip

For all products featured in this catalogue, you can find all the product details like customer drawings, product specifications etc on our dedicated Flex Connector website.

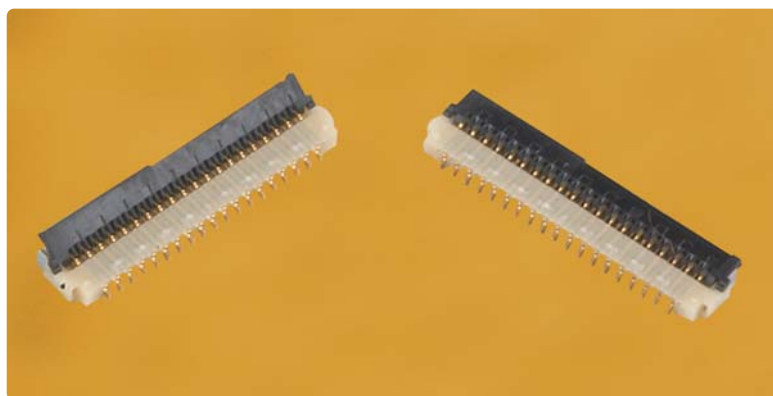
XL-D SERIES - 10108361



Part Number	Number of Positions Available
10108361-xx10EHLF*	11, 29

- Orientation: Right angle
- Cable Termination: ZIF
- Cable type: FPC
- Board Termination: Surface mount
- Contact Location: Bottom
- Height: 0.9mm
- Halogen free
- Accommodated cable thickness: 0.2mm
- Low profile & space saving
- FPC retention force up mechanism by design of housing
- Application: Mobile phone & digital still camera etc

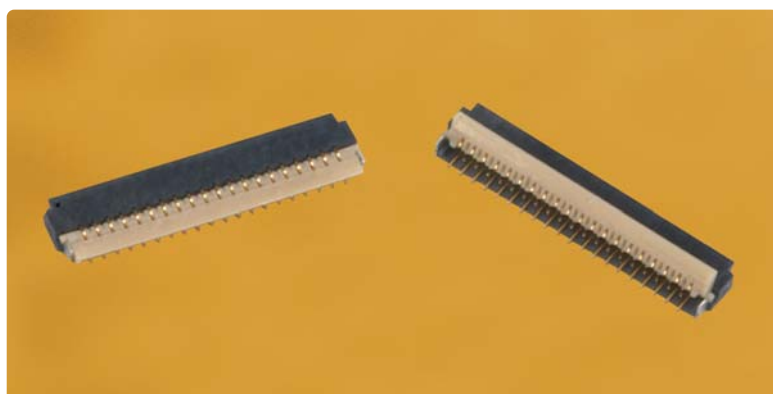
YLL-D SERIES - 10061122



Part Number	Number of Positions Available
10061122-xx1120HLF	13,15,17,21,23,25,27,29,33,35,39,41,43,45,51

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FPC
- Board termination: Surface mount
- Contact location: Bottom
- Height: 0.9mm
- Lead free with gold plating
- Optional Halogen free type
- Accommodated cable thickness: 0.2mm
- Front side flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings
- Application: Mobile phone, brown products, wireless customer premises equipment and mobile device

YLL-U SERIES - 10064555



Part Number	Number of Positions Available
10064555-xx2x20HLF	15,17,21,23,25,27,31,33,35,37,39,41

- Orientation: Right Angle
- Cable termination: Non-ZIF (LIF)
- Cable type: FPC
- Board termination: Surface mount
- Contact location: Top
- Height: 0.9mm
- Lead-free with gold plating
- Accommodated cable thickness: 0.2mm
- Front side flip type actuator makes cable application easy and error free
- Very low profile for maximum space savings
- Application: Mobile phone, brown products, wireless customer premises equipment and mobile device

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*xx - Number of Contacts

SFGL SERIES - 10117184



Part Number	Number of Positions Available
10117184-xx10EHLF	9

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

- Back side flip design makes cable insertion easy and error free
- Low profile & space saving
- Cable locking feature provides high retention force

- Application: Mobile phone, small display, touch pad, Medical, Industrial and Instrumentation, personal computer, car multimedia device and mobile device

OPU SERIES - 62684



Part Number	Number of Positions Available
Top Side Contact	
62684-xx2100ALF*	32,34,36,40,45,50
62684-xx21N0ALF*	55,57
Bottom Side Contact	
62684-xx1100ALF*	40,45,50
62684-xx11N0ALF*	55,57

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Top and bottom options
- Height: 2.0mm
- Lead-free with gold plating
- Optional Halogen free type
- Accommodated cable thickness: 0.3mm

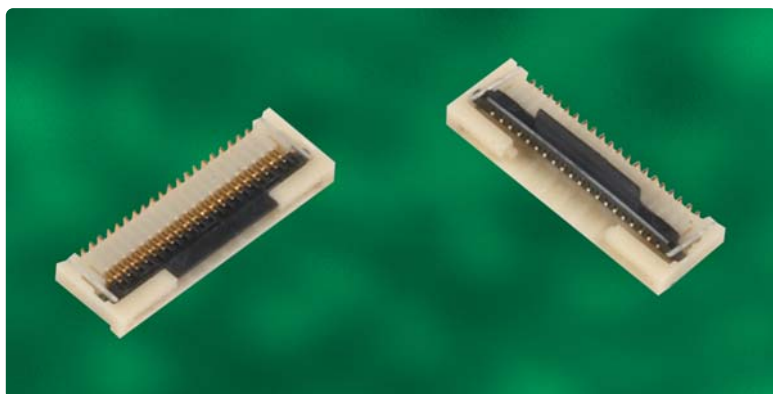
- Economical higher pin count flex connector solution
- Traditional sliding actuator secures cable

- Application: Brown products, medical, industrial and instrumentation, printer, car multimedia devices and mobile device

*xx - Number of Contacts

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SFVE SERIES - 10054365



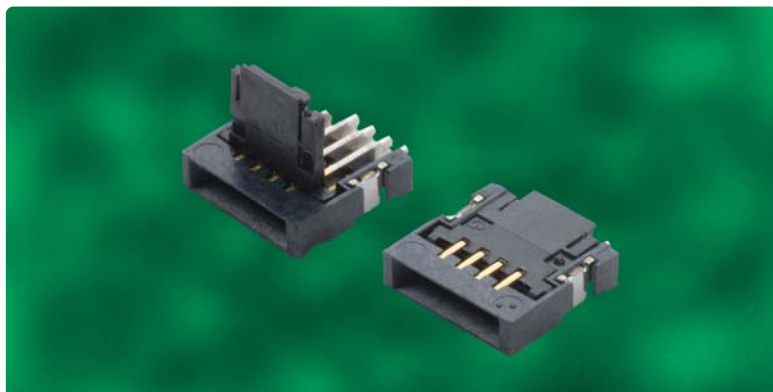
Part Number	Number of Positions Available
10054365-xx2110ELF*	18,20,24,28,30

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Top
- Height: 1.2mm
- Lead-free with gold plating
- Accommodated cable thickness: 0.2mm

■ Front side flip type actuator makes cable application easy and error free

■ Application: Car multimedia devices, brown products, medical, industrial and instrumentation

SFVL SERIES - 59453



Part Number	Number of Positions Available
Top Side Contact 59453-xx2110EDHLF*	4,5,6,8
Bottom Side Contact 59453-xx1110EDHLF*	4,5,6,7,8,9,12,13

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Top and bottom options
- Height: 0.9mm
- Lead-free with gold plating
- Halogen free
- Accommodated cable thickness: 0.2mm

■ Very low profile for maximum space savings

■ Back side flip actuator design makes cable insertion easy

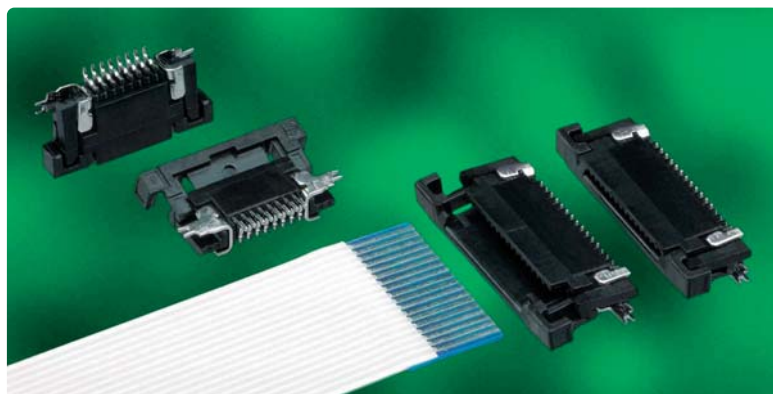
■ Cable locking feature provides high retention force

■ Application: Mobile phone, small display, touch pad, medical, industrial and instrumentation, printer, car multimedia devices and mobile device

*xx - Number of Contacts

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SFV-R SERIES



- Orientation: Right Angle
- Cable termination: ZIF with prehold
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Top and bottom options
- Height: 1.8mm
- Available in lead-free matte tin and gold plating option
- Optional cable lock
- Optional Halogen free type
- Versatile, economical connector system with uses in many applications
- Traditional sliding actuator secures cable
- Application: Mobile phone, brown products, medical, industrial and instrumentation, printer, car multimedia devices and mobile device

0.5mm Pitch

Part Number		Number of Positions Available
SFVxxR-1STBE1LF*		4-35
Contact Location/Cable Type	Packaging	
1-FFC/FPC bottom side contact	E1-tape and reel 3000 pieces	
2-FFC/FPC top side contact		
3-FPC bottom side with cable lock		
4-FPC top side with cable lock		
Plating		
A: Selective gold plating		
B: Full gold plating		

SFV-S SERIES - 62674



- Orientation: Vertical
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: N/A
- Height: 4.1mm
- Lead-free with gold plating
- Economical vertical ZIF flex cable connector
- Traditional sliding actuator secures cable
- Application: Brown products, medical, industrial and instrumentation, printer, car multimedia devices and mobile device

Part Number	Number of Positions Available
62674-xx1121ALF*	8,12,16,20,21,22,23,24,25,26,30,32,33

*xx - Number of Contacts

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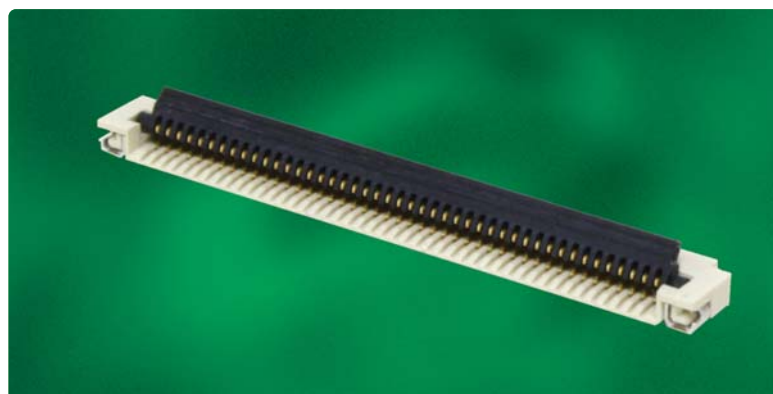
VHC SERIES - 10085901



Part Number	Number of Positions Available
10085901-xx15ELF*	35, 50, 60, 70

- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Bottom
- ▀ Height: 2.0mm
- ▀ Lead-free with gold plating
- ▀ Optional Halogen free type
- ▀ Optional Cable lock version
- ▀ Accommodated cable thickness: 0.3mm
- ▀ Front side flip actuator makes cable application easy and error free
- ▀ High pin count and robust design
- ▀ Application: Car multimedia devices, brown products, industrial control, medical, instrumentation and printer

VLK SERIES - 10076529



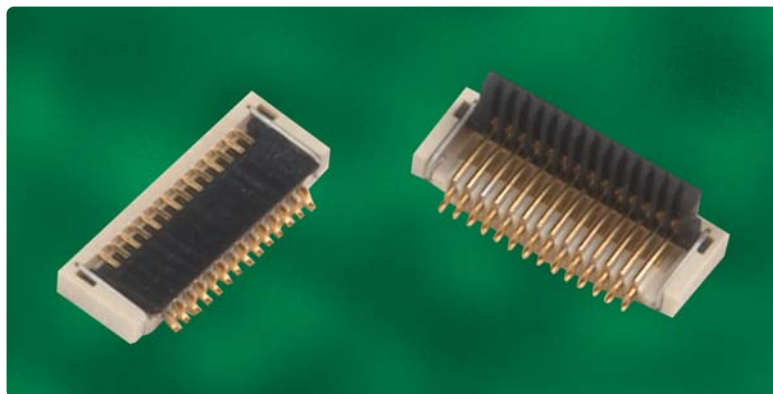
Part Number	Number of Positions Available
10076529-xx105EHLF*	35,45,60

- ▀ Orientation: Right Angle
- ▀ Cable termination: ZIF
- ▀ Cable type: FFC/FPC
- ▀ Board termination: Surface mount
- ▀ Contact location: Bottom
- ▀ Height: 1.3mm
- ▀ Lead-free with gold plating
- ▀ Halogen free
- ▀ Accommodated cable thickness: 0.3mm
- ▀ Front side flip actuator makes cable insertion easy and error free
- ▀ High pin count and good operability
- ▀ Higher retention design incurs cable stays in place
- ▀ Application: Brown products, Medical, Industrial and Instrumentation, personal computer, car multimedia system and mobile device

*xx - Number of Contacts

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VLL SERIES – 10051922 (0.5MM PITCH)



Part Number	Number of Positions Available
10051922-xx10ELF*	8,10,11,12,14,15,16,18,20,22, 24,26,28,30

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FFC/FPC
- Board termination: Surface mount
- Contact location: Bottom
- Height: 1.2mm
- Lead-free with gold plating
- Accommodated cable thickness: 0.3mm
- Optional Halogen free type

- Back side 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

- Application: Mobile phone, brown products, medical, industrial and instrumentation, printer, car multimedia devices and mobile device

0.5mm Pitch

VLP SERIES - 10062827



Part Number	Number of Positions Available
10062827-xx10EDLF*	4,8,10

- Orientation: Right Angle
- Cable termination: ZIF
- Cable type: FPC
- Board termination: Surface mount
- Contact location: Bottom
- Height: 0.7mm
- Lead-free with gold plating
- Halogen free
- Accommodated cable thickness: 0.12mm

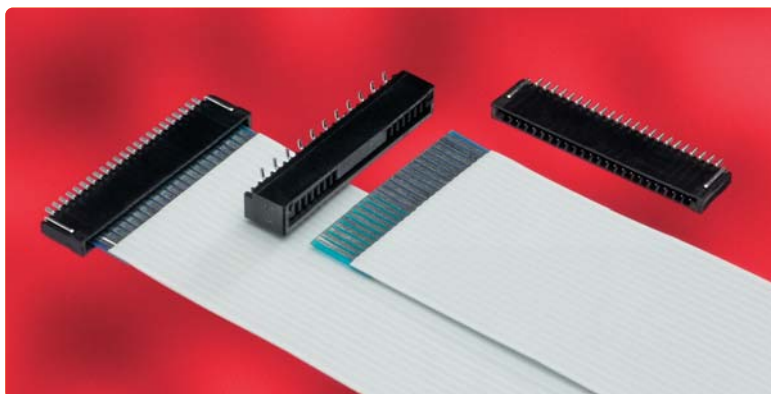
- Back side flip design makes cable insertion easy and error free
- Very low profile for maximum space savings
- Cable locking feature provides high retention force

- Application: Mobile phone, small display, touch pad, Medical, Industrial and Instrumentation, personal computer, car multimedia device and mobile device

*xx - Number of Contacts

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HFW SERIES

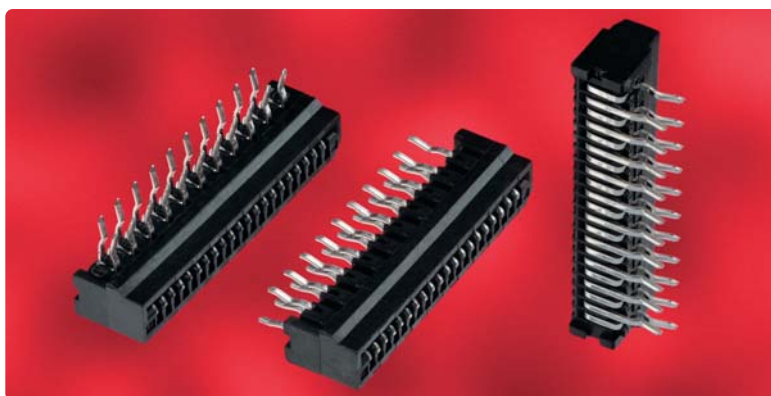


- Orientation: Right angle and vertical options
- Cable termination: Non-ZIF
- Cable type: FFC/FPC/CIC
- Board termination: Surface mount
- Contact location: Top & bottom
- Height: 1.9mm right angle, 5.3mm vertical
- Available in lead-free matte tin and gold-flash plating option
- Versatile, economical connector system with uses in many applications
- Application: Industrial control, business & retail, instrumentation, brown products, printer, car multimedia devices and mobile device

Part Number		Number of Positions Available
HFWxxR-1STAE1HLF*		Right angle 4-30
		Vertical 4-30,32
Orientation R-Right angle S-Straight (Vertical)		Plating (Normal: matte-tin) A-Gold-plated contact tip and tin-plated solder-tail B-Gold-flash terminals None-Matte tin plate
Contact/Cable Type Right Angle 1-FFC/FPC bottom side contact 2-FFC/FPC top side contact 5-CIC bottom side contact 6-CIC top side contact Vertical 2-FFC/FPC 6-CIC		Packaging Right Angle E1-tape and reel 2000 pieces Vertical E1-tape and reel 1000 pieces
		Mounting ST-SMT STM-SMT with tab (vertical only)

1.0mm Pitch

HLW SERIES



- Orientation: Right angle and vertical options
- Cable termination: Non-ZIF
- Cable type: FFC/FPC/CIC
- Board termination: Through hole
- Contact location: Top (right angle) N/A (vertical)
- Height: 3.9mm right angle, 5.9mm vertical
- Lead free plating available
- Through hole alternative
- Economical connector system
- Application: Industrial control, business & retail, instrumentation, brown products, printer, car multimedia devices and mobile device

Part Number		Number of Positions Available
HLWxxR-2C7LF*		4-32
Orientation R-Right angle S-Straight (Vertical)		Cable Type 2-FFC/FPC 6-CIC

*xx - Number of Contacts

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SFW SERIES



- Orientation: Right angle and vertical options
- Cable termination: ZIF
- Cable type: FFC/FPC/CIC
- Board termination: Surface mount
- Contact location: Right angle and vertical options
- Height: 2.7mm right angle, 5.3mm vertical
- Available in lead-free matte tin and gold-flash plating option
- Optional cable lock (Right Angle)
- Versatile, economical connector system with uses in many applications
- Traditional sliding actuator secures cable
- Application: Industrial control, business & retail, instrumentation, brown products, printer, car multimedia devices and mobile device

1.0mm Pitch

Part Number		Number of Positions Available	
SFWxxR-1STAE1LF*		Right angle	4-30
		Vertical	4,5,6,8,10,11,12,14,15,16,17,18,20, 22,23,24,26,28,30
Orientation R-Right angle S-Straight (Vertical)			
Contact Location/Cable Type Right Angle 1-FFC/FPC bottom side contact 2-FFC/FPC top side contact 3-FPC bottom side with cable lock 4-FPC top side with cable lock 5-CIC bottom side contact 6-CIC top side contact 7-CIC bottom side with cable lock 8-CIC top side with cable lock Vertical 2-FFC/FPC 6-CIC		Packaging Right Angle E1-tape and reel 2000 pieces Vertical E1-tape and reel 1000 pieces	
Plating A-Gold-plated contact tip and Tin-plated solder-tail G-Gold-plated contact tip and solder-tail			
Mounting ST-SMT STM-SMT with tab (vertical only)			

*xx - Number of Contacts

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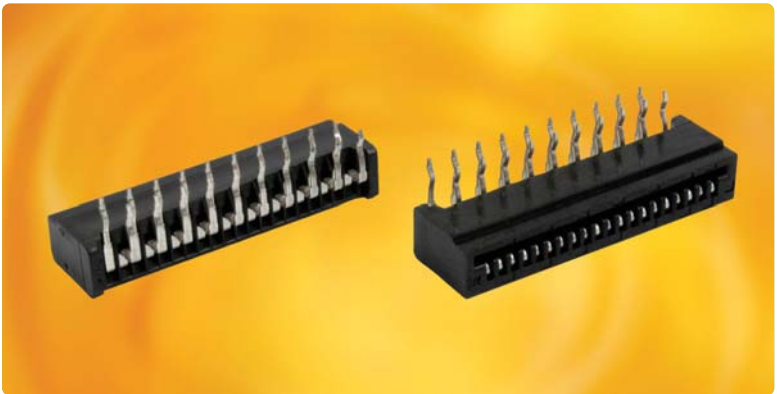
SLW SERIES



- Orientation: Right angle and vertical options
- Cable termination: ZIF
- Cable type: FFC/FPC/CIC
- Board termination: Through hole
- Contact location: Bottom
- Height: 4.0mm right angle, 5.5mm vertical
- Lead-free plating available
- Versatile, economical connector system with uses in many applications
- Application: Industrial control, business & retail, instrumentation, brown products, printer, car multimedia devices and mobile device

Part Number		Number of Positions Available
SLWxxR-1C7LF*		4-30
Orientation	Cable Type	
R-Right angle	1-FFC/FPC	
S-Straight (Vertical)	5-CIC	

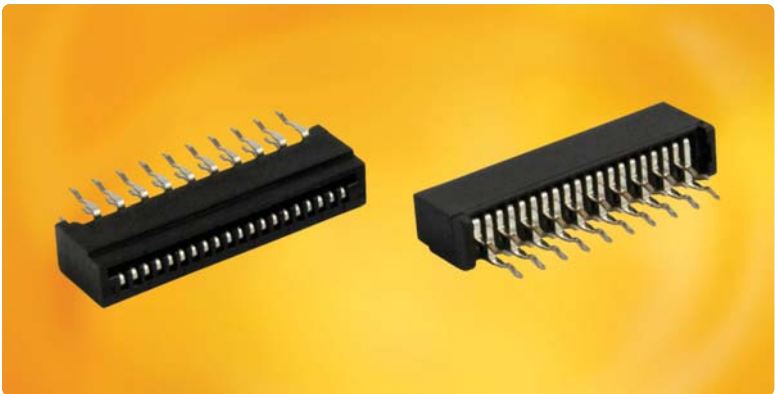
HLEM-R SERIES - HLEMXXR



- Orientation: Right angle
- Cable Termination: Non-ZIF
- Cable type: FPC/FFC
- Board Termination: DIP (Through-hole)
- Contact Location: Top
- Height: 5.0mm
- Accommodated cable thickness: 0.3 +/- 0.05mm
- Application: Set-top box & printers etc

Part Number	Number of Positions Available
HLEMxxR*	3-40

HLEM-S SERIES - HLEMXXS



- Orientation: Vertical
- Cable Termination: Non-ZIF
- Cable type: FPC/FFC
- Board Termination: DIP (Through-hole)
- Contact Location: N/A
- Height: 8.00mm
- Accommodated cable thickness: 0.3 +/- 0.05mm
- Application: Set-top box & printers etc

Part Number	Number of Positions Available
HLEMxxS*	3-40

*xx - Number of Contacts

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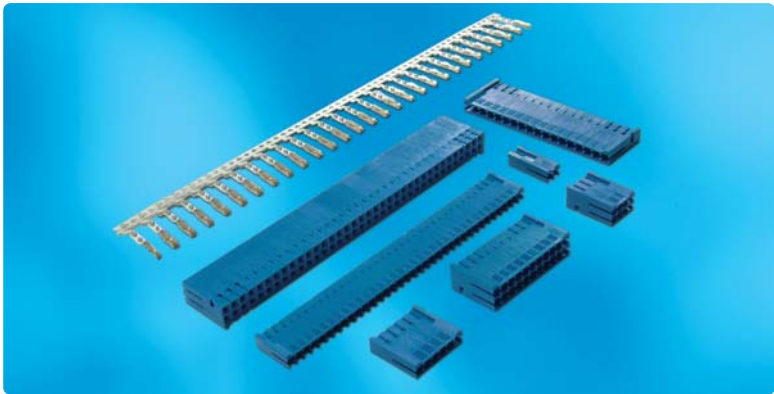
CLINCHER



- Cable termination: Mat or round pins
- Cable type: FFC/FPC/CIC
- Height: 2.54mm
- Lead free with gold or tin plating
- Accommodated cable thickness: 0.305+/-0.025mm (0.012+/-0.0001inch)
- Pre-assembled connectors reduce overall applied costs and ensure full contact protection
- Snap-shut allows a single connection operation and therefore increases assembly speed
- Lead free and RoHS compliant
- Application: Industrial control & equipment and business & retail equipment

Part Number	Number of Positions Available
5 digit part number	Receptacle assembly 2-32,34 Pin assembly 2-32
65801 = receptade assembly	
66226 = pin assembly	0 = standard version 1 = for thin film circuits (0.15mm MAX. thickness) Female receptacle only

DUFLEX



- Cable termination: Mates with 0.62mm square or round pins as short as 5mm
- Cable type: FFC/FPC
- Height of housing: 3.8mm for single row and 6.34mm for double row
- Gold or tin plating
- Accommodated cable thickness: 0.305+/-0.025mm (0.012+/-0.0001inch)
- Reliable dual beam contact design features pre-stressed contact beam for low insertion force
- Ideal for large-volume users
- Mass-termination reduces overall costs and time
- Contacts fitting all housing styles ensures versatility and minimizes stock values
- Application: Industrial control & equipment and business & retail equipment

Housing	Part Number	Number of contacts per row
	5 digit part number	2-36
67013 = single row housing		
66987 = double row housing		

Contact	Part Number
	76785
	Packaging 01 = 15000 per cardboard reel 11 = 3000 per cardboard reel
Plating	
3 = 0.75µm gold	contact area, tin-lead cable area, 0.30N min./0.6N max. insertion force
4 = 5.00µm tin-lead	contact area, tin-lead cable area, 0.30N min./0.6N max. insertion force

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PERFORMANCE CHARACTERISTICS

Pitch	Series	Cable Type	Electrical Current Rating (AC/DC)	Electrical Voltage Rating (AC/DC)	Contact Resistance (initial)	Insulation Resistance	Dielectric Withstanding Voltage	Mechanical Durability Cycle	Operating Temperature Range
0.2mm	XL	FPC	0.2A	30V	100mΩMax.	50MΩMax.	AC90V	10	-55°C to +85°C
0.3mm	YLL-D	FPC	0.2A	30V	100mΩMax.	50MΩMin.	AC90V	10	-55°C to +85°C
	YLL-U	FPC	0.2A	30V	100mΩMax.	50MΩMin.	AC90V	10	-55°C to +85°C
0.4mm	SFGL	FPC	0.4A	50V	50mΩMax.	50MΩMin.	AC200V	20	-55°C to +85°C
0.5mm	OPU-D	FPC/FFC	0.5A	50V	30mΩMax.	100MΩMin.	AC200V	20	-55°C to +85°C
	OPU-U	FPC/FFC	0.5A	50V	30mΩMax.	100MΩMin.	AC200V	20	-55°C to +85°C
	SFVE	FPC	0.2A	30V	70mΩMax.	50MΩMin.	AC250V	10	-55°C to +85°C
	SFVL-D	FPC	0.4A	50V	30mΩMax.	100MΩMin.	AC200V	10	-55°C to +85°C
	SFVL-U	FPC	0.4A	50V	30mΩMax.	100MΩMin.	AC200V	10	-55°C to +85°C
	SFV-R	FPC/FFC	0.5A	50V	30mΩMax.	100MΩMin.	AC200V	20	-55°C to +105°C
	SFV-S	FPC/FFC	0.5A	50V	30mΩMax.	100MΩMin.	AC200V	20	-55°C to +85°C
	VHC	FPC/FFC	0.5A	50V	50mΩMax.	50MΩMin.	AC250V	20	-55°C to +85°C
	VLK	FPC/FFC	0.5A	50V	50mΩMax.	50MΩMin.	AC250V	20	-55°C to +85°C
	VLL	FPC	0.5A	50V	30mΩMax.	100MΩMin.	AC250V	20	-55°C to +85°C
	VLP	FPC	0.4A	50V	30mΩMax.	100MΩMin.	AC200V	10	-55°C to +85°C
1.0mm	HFW-R	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	30	-55°C to +105°C
	HFW-S	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	30	-55°C to +85°C
	HLW-R	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	30	-55°C to +85°C
	HLW-S	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	30	-55°C to +85°C
	SFW-R	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	20	-55°C to +85°C
	SFW-S	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	20	-55°C to +85°C
	SLW-R	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	20	-55°C to +85°C
	SLW-S	FPC/FFC/CIC	1.0A	100V	30mΩMax.	500MΩMin.	AC500V	20	-55°C to +85°C
1.25mm	HLEM-R	FPC/FFC	1.0A	200V	30mΩMax.	1000MΩMin.	AC500V	20	-55°C to +85°C
	HLEM-S	FPC/FFC	1.0A	200V	30mΩMax.	1000MΩMin.	AC500V	20	-55°C to +85°C
2.54mm	Clincher	FFC/FPC/CIC	2.0A	500V	15mΩMax.	5000MΩMin.	AC1000V	100	-65°C to +105°C
	Duflex	FFC/FPC	3.0A	500V	15mΩMax.	N/A	AC1000V	200	-65°C to +125°C

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