

PCB INTERCONNECT PRODUCTS

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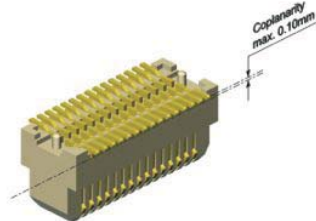


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General information concerning the E-tec interconnect products

E-tec SMT connectors, male or female, are offered with a coplanarity of max. 0.10mm. They are adapted to all modern SMT soldering process and they can be handled easily with all currently existing placing techniques.

Customers may choose between various packaging options, such as tray, tube and reel.



Tolerances:

All dimensions shown in this catalog represent average values. For precise +/- tolerance values please request a specific product datasheet. All pin header dimensions "A" have a general tolerance of +/- 0.25mm, unless otherwise indicated.

Plating:

- 99 = Standard Tin plating over Nickel
 - 55 = Standard Gold plating over Nickel
 - 95 = Standard selective Tin/Gold plating over Nickel
- Other platings are offered on request

Specifications:

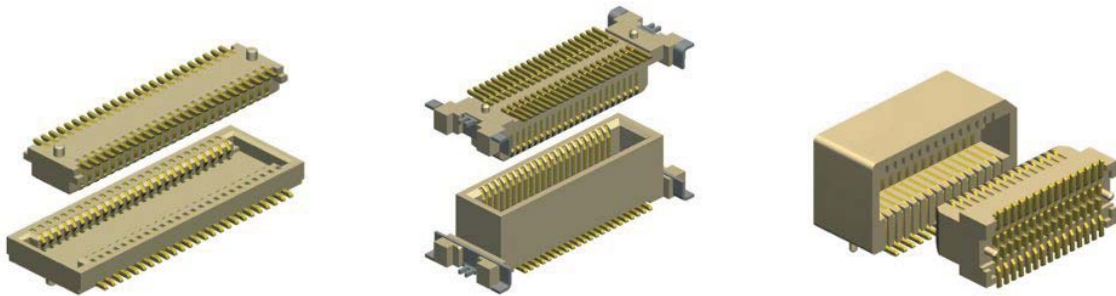
The data contained in this catalog is of general nature and refers to standard products. For example a „Current rating“ at an ambient temperature of 25°C reflects the value per individual contact. Should you require any further data or test reports, you can obtain this information from your nearest E-tec sales office.

The E-tec connectors conform with signal integrity requirements at high data and frequency rates. However we cannot offer a general information about the max. frequency or data transmission rate. For such a statement, it would require more information about the chosen configuration and pin-out, the length of the cable and/or any other specific requirements regarding the application itself and its related signal integrity.

GENERAL POLICY

All information contained in this catalog, including illustrations, specifications and dimensions are accurate to the best of our knowledge, and reflect the status as at the date of publication. Due to technical progress, it is subject to change without notice. Application information is informational in nature and shall not be construed to warrant suitability of products for any particular purpose as performance may vary depending on the conditions to which a product is subjected. Unless otherwise confirmed at the time of order, all E-tec products are non cancellable and non returnable items (NCNR). E-tec products are warranted for 30 days and the warranty is limited strictly to replacement of products. This warranty does not cover any claims for natural wear and tear, nor for any compensations, such as loss of production, loss of use, loss of orders, loss of profit, nor any other direct or indirect damages.

Fine Pitch Plug Board Connectors

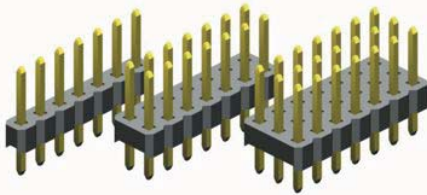


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Board to Board & Board to Wire Connectors

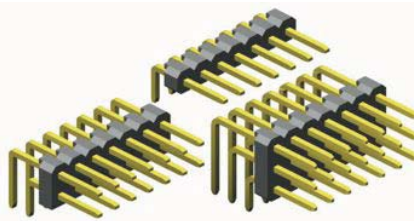
PIN HEADER

Straight



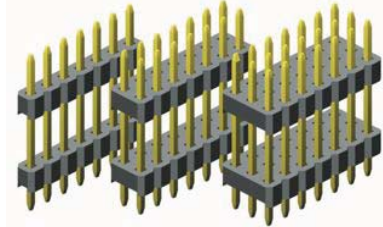
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Right Angle



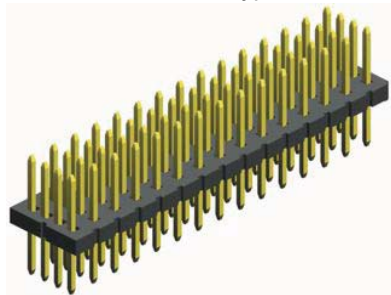
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Double Plastic Board Spacer



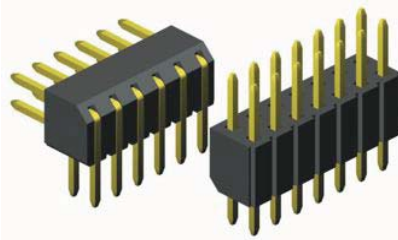
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PC 104 Type



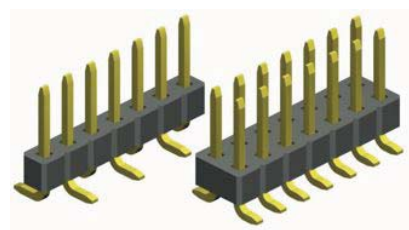
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High Base "Board To Board"



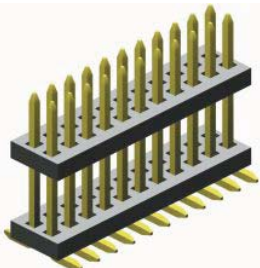
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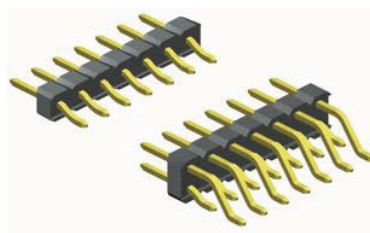
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SMT Double Plastic Board Spacer



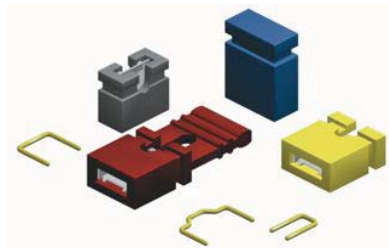
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SMT "slanted"



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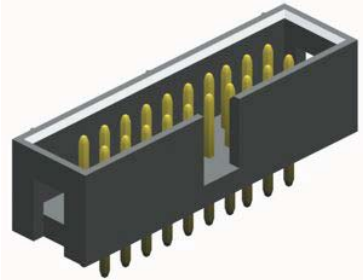
PRODUCT OVERVIEW

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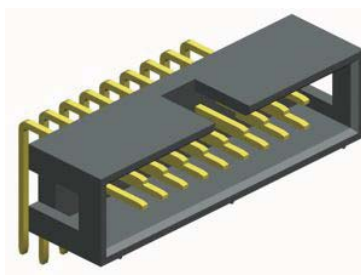
BOX HEADER

Straight Box Header



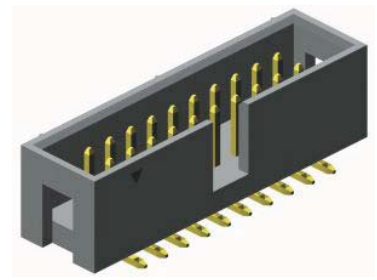
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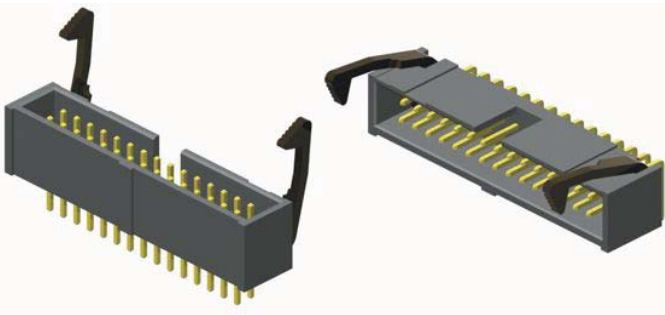
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Box Header
with metal ejection latches
straight & right angle



2.54mm pitch: Page 68

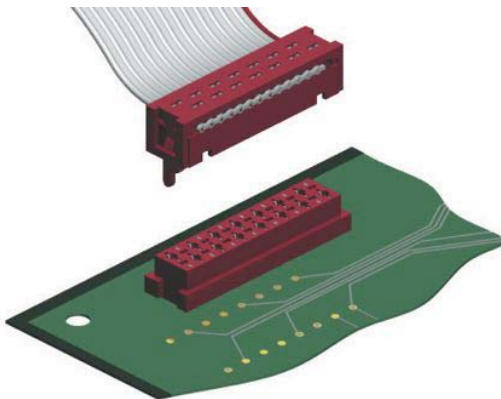
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with plastic ejection latches
straight, right angle & SMT



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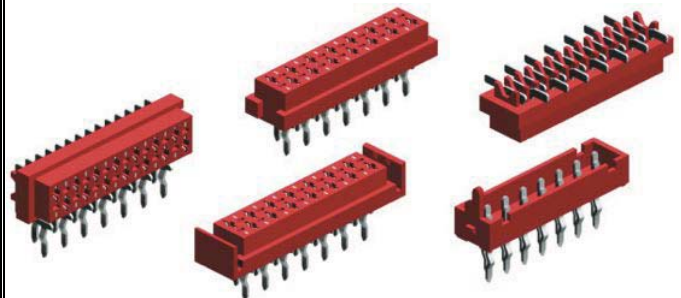
IDC Type for Ribbon Cable UL Style 2651



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Mini - Mate™ Connectors

SMT & THT Type

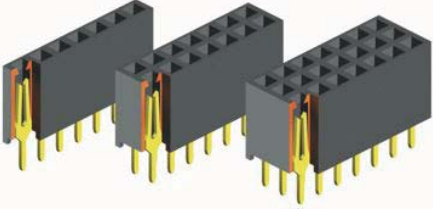
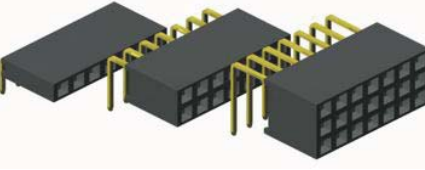
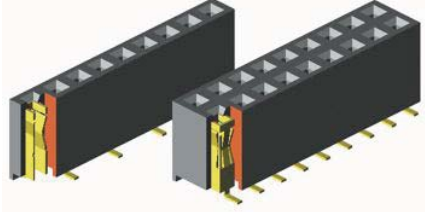
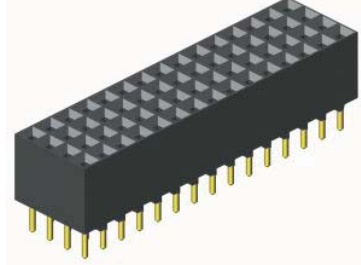
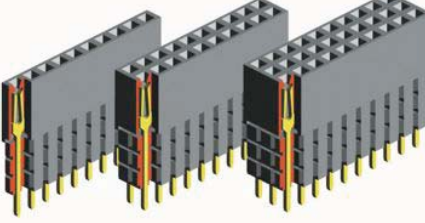
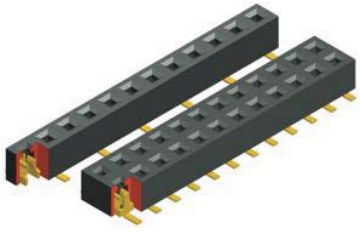
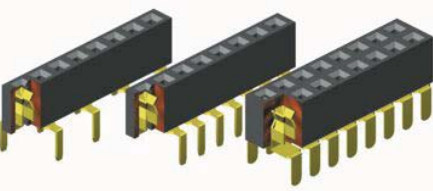
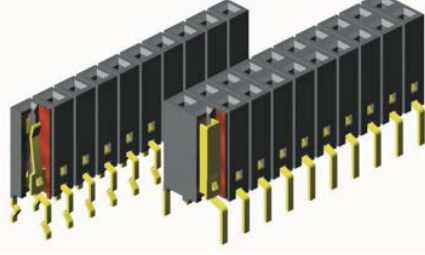
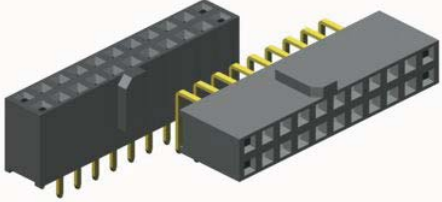
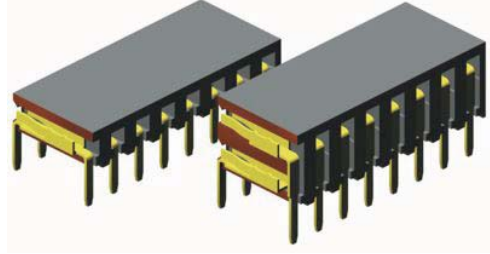
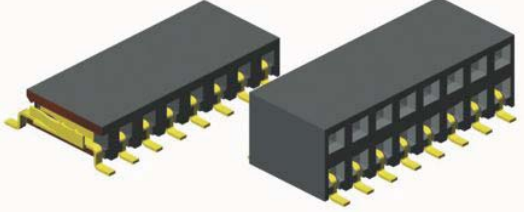


1.27mm pitch: Page 117 to 122

PRODUCT OVERVIEW

click on page numbers



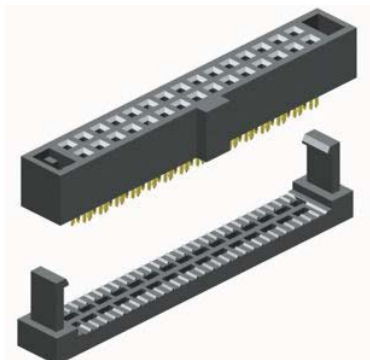
FEMALE HEADERS		
<p>Straight Types single & dual row</p>  <p>1.27mm pitch: Page 28 & 29 2.00mm pitch: Page 48 & 49 2.54mm pitch: Page 69 to 71</p>	<p>Right Angle Types</p>  <p>1.27mm pitch: Page 28 2.00mm pitch: Page 48 2.54mm pitch: Page 69 to 71</p>	<p>SMT "standard profile" Types</p>  <p>1.27mm pitch: Page 31 to 33 2.00mm pitch: Page 54 2.54mm pitch: Page 77</p>
<p>PC 104+ Type</p>  <p>2.00mm pitch: Page 51</p>	<p>Elevated Types</p>  <p>2.00mm pitch: Page 50 2.54mm pitch: Page 72</p>	<p>SMT "low profile" Types</p>  <p>1.00mm pitch: Page 14 1.27mm pitch: Page 34 to 36 2.00mm pitch: Page 55 & 56 2.54mm pitch: Page 78</p>
<p>Dual Entry Types "low profile"</p>  <p>2.00mm pitch: Page 52 2.54mm pitch: Page 74</p>	<p>Dual Entry Type "standard profile"</p>  <p>2.54mm pitch: Page 73</p>	<p>Shrouded Mating Types</p>  <p>2.54mm pitch: Page 75</p>
<p>Through Hole (THT) Side Entry Types</p>  <p>1.27mm pitch: Page 30 2.00mm pitch: Page 53 2.54mm pitch: Page 76</p>	<p>SMT Side Entry Types</p>  <p>1.27mm pitch: Page 37 2.00mm pitch: Page 57 2.54mm pitch: Page 79</p>	

PRODUCT OVERVIEW

[click on page numbers](#)

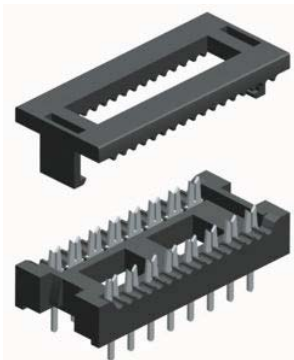
IDC CONNECTORS

IDC Female Headers



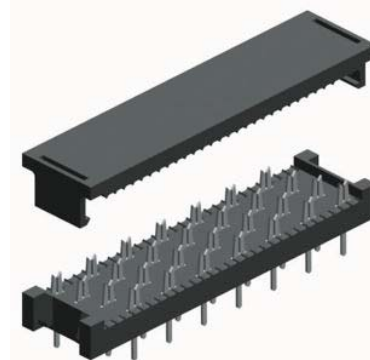
1.27mm pitch: Page 38
2.00mm pitch: Page 58
2.54mm pitch: Page 80

DIP Plugs



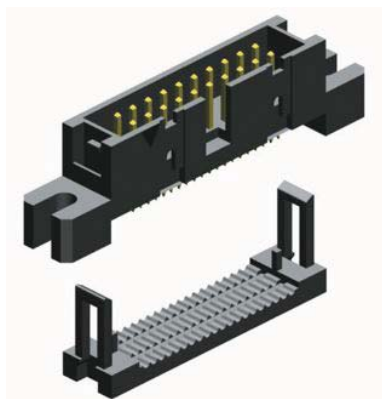
2.00mm x 2.00mm
 IDC pitch 1.00mm: Page 84
2.54mm
 IDC pitch 1.27mm: Page 85

Transition Connectors



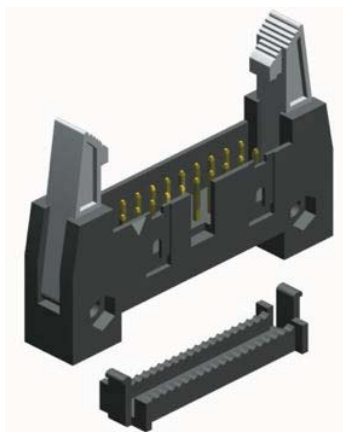
2.54mm
 IDC pitch 1.27mm: Page 86

IDC Box Headers



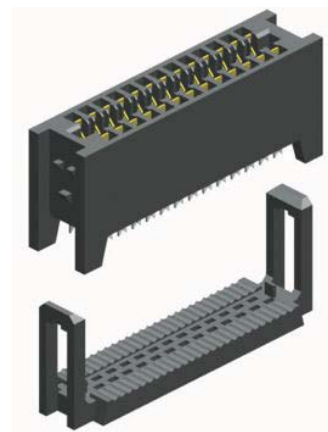
2.54mm pitch: Page 82

IDC DIN Headers DIN 41 651



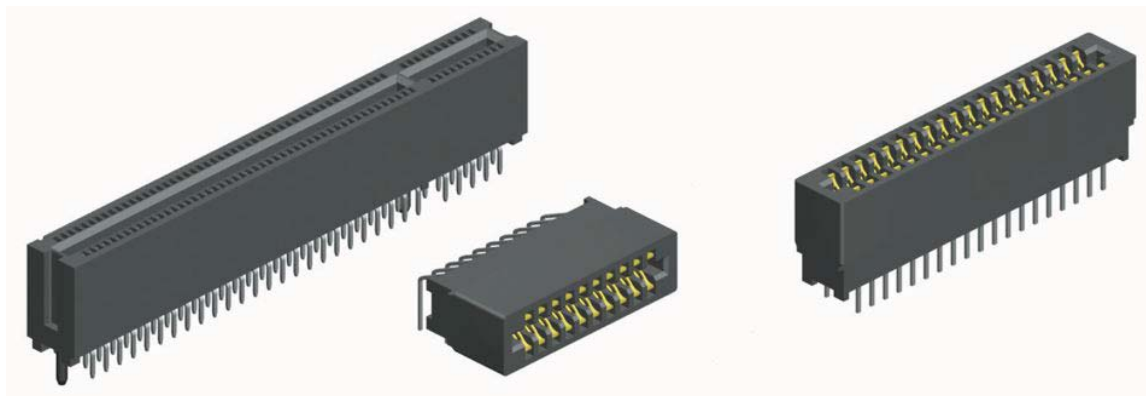
2.54mm pitch: Page 82

IDC Card Edge Connectors



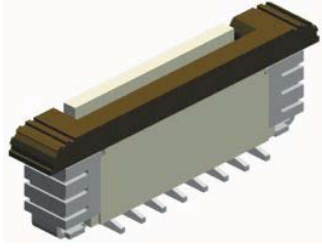
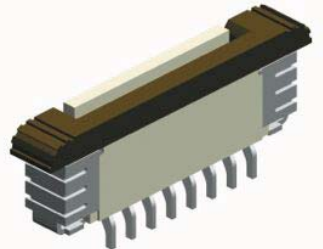
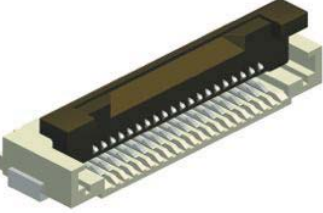
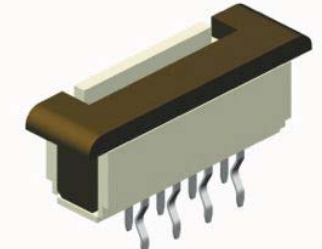
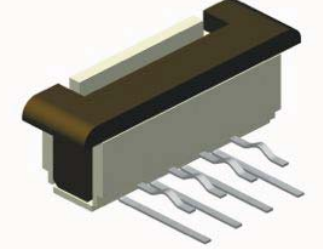

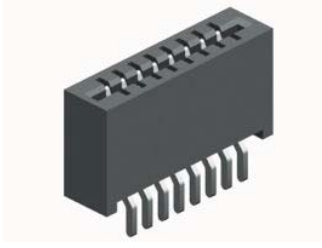
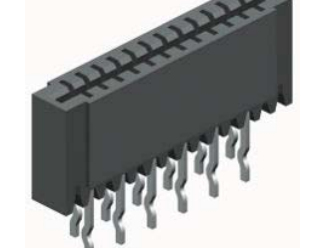
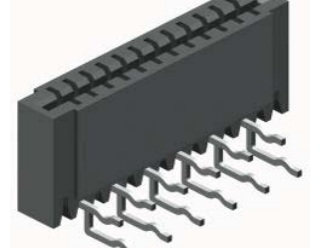
2.54mm pitch: Page 90

CARD EDGE CONNECTORS

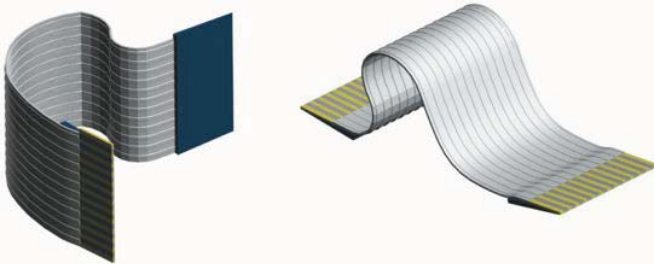


PCI 1.27mm pitch : Page 87
Card Edge 1.27mm pitch : Page 88
Card Edge 2.54mm pitch : Page 89

FPC/FFC CONNECTORS

<p>ZIF SMT FPC/FFC Type vertical</p>  <p>0.50mm pitch: Page 91 & 93 1.00mm pitch: Page 97 & 99</p>	<p>ZIF SMT FPC/FFC Type horizontal</p>  <p>0.50mm pitch: Page 92 & 94 0.80mm pitch: Page 96 1.00mm pitch: Page 98 & 100</p>	<p>ZIF SMT FPC/FFC Type horizontal “Easy-on” Type</p>  <p>0.50mm pitch: Page 95</p>
<p>ZIF FPC/FFC Type straight</p>  <p>1.00mm pitch: Page 101 1.25mm pitch: Page 110</p>	<p>ZIF FPC/FFC Type right angle</p>  <p>1.00mm pitch: Page 102 1.25mm pitch: Page 110</p>	<p>LIF SMT FPC/FFC Type vertical</p>  <p>1.00mm pitch: Page 103</p>
<p>LIF SMT FPC/FFC Type horizontal</p>  <p>1.00mm pitch: Page 104 1.25mm pitch: Page 107</p>	<p>LIF FPC/FFC Type straight</p>  <p>1.00mm pitch: Page 105 1.25mm pitch: Page 108 2.54mm pitch: Page 111</p>	<p>LIF FPC/FFC Type right angle</p>  <p>1.00mm pitch: Page 106 1.25mm pitch: Page 109 2.54mm pitch: Page 112</p>


FLEX CABLE



Pitch: 0.50mm - 0.80mm - 1.00mm - 1.25mm - 1.27mm - 2.00mm - 2.54mm

Page 113

ZIF Test Sockets for FLEX CABLE



Available for pitch 0.50mm to 2.54mm

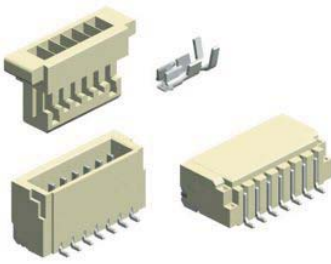
Page 114

PRODUCT OVERVIEW

[click on page numbers](#)

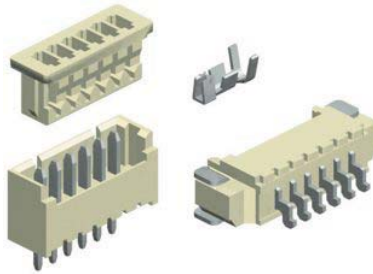
CRIMP CONNECTORS

1.00mm pitch Types



Page 123

1.25mm pitch Types



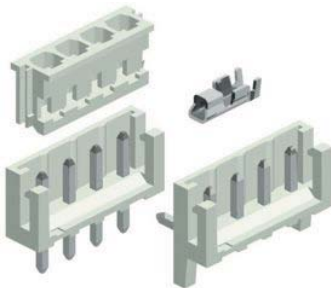
Page 124

2.00mm pitch Types



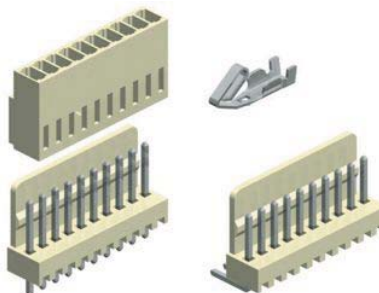
Page 125 & 126

2.50mm pitch Types



Page 127 & 128

2.54mm Types



Page 129

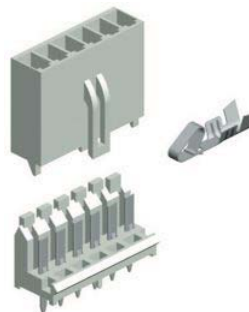
POWER CONNECTORS

3.00mm Types



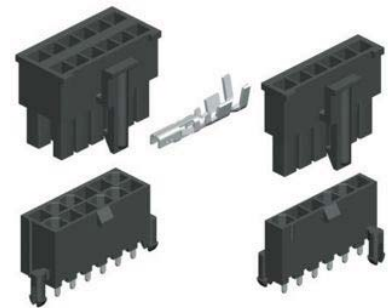
Page 130

3.96mm Types



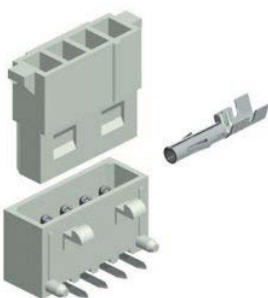
Page 131

4.20mm Types



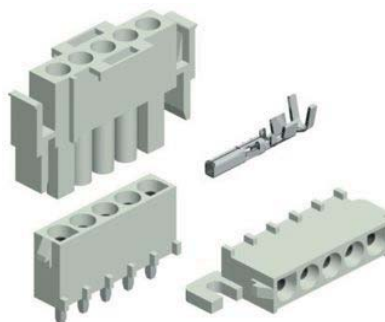
Page 132 & 133

5.08mm Types



Page 134 & 135

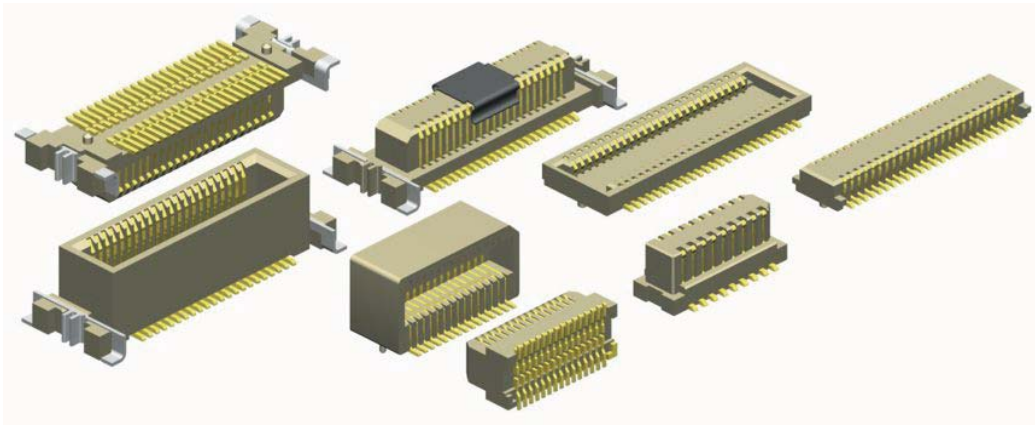
6.35mm Types



Page 136

Fine Pitch

Plug-Board Connectors



Fine pitch board-to-board connectors allow high density low profile PCB interconnections. These connectors are generally not designed for high insertion/extraction cycles but for one time interconnection, with a possibility to disconnect a limited number of times (around 5 times) during the life time of the product for maintenance purposes only.

Due to the very large variety of design requirements (pincount, board height, pitch, soldertabs, etc) these fine pitch board-to-board connectors are being presented with the following generic E-tec datasheet which allows to highlight the specific project requirements. Based on this information, our production will be able to determine if the current toolings can be adjusted to your requirements and/or if new toolings need to be set-up or if any other close equivalents can be offered as an alternative.

Plug-Board Connector - SMT -

0.50mm - 0.60mm - 0.80mm Pitch

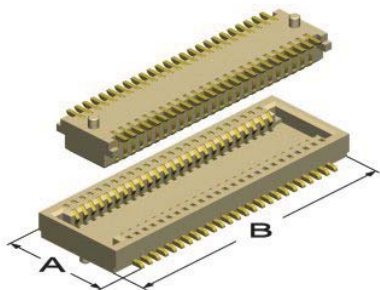


- Fine pitch, super low profile, from 1.50mm to 9.50mm between the boards
- The stamped, solid contacts assure reliable PC Board connections
- Tube or Reel packing available
- Also available with "locating pegs" for easy positioning of the connector during placement
- Some types can also be offered with metal solder tabs, which provide additional mechanical strength to avoid damages to the solder joints during disconnection of the male & female connectors.

Please inform us of your application and precise requirements, so that our product engineers may offer you a suitable solution.

Please indicate your dimensional requirements for the
 0.50mm 0.60mm 0.80mm pitch
 „Plug-Board“ connector.
 Solutions **without** metal solder tabs,
 but with & without locating pegs.

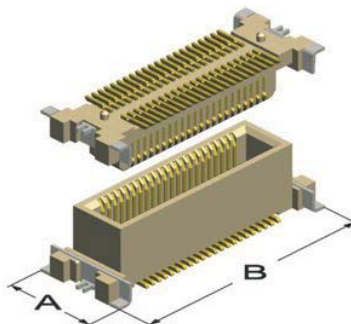
Number of contacts in total



Dimension „A“ (max.):
 Dimension „B“ (max.):

Please indicate your dimensional requirements for the
 0.50mm 0.60mm 0.80mm pitch
 „Plug-Board“ connector.
 Solutions **with** metal solder tabs,
 but with & without locating pegs.

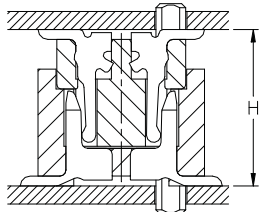
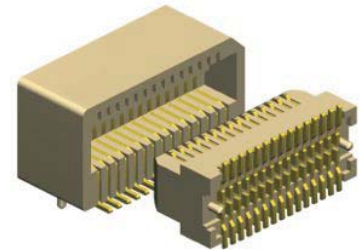
Number of contacts in total



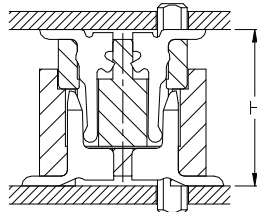
Dimension „A“ (max.):
 Dimension „B“ (max.):

Please indicate your dimensional requirements for the
 0.50mm 0.60mm 0.80mm pitch
 right angle type „Plug-Board“ connector.
 Solutions **without** metal solder tabs,
 but with & without locating pegs.

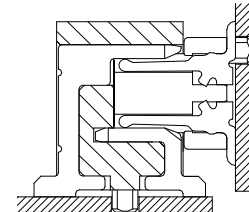
Number of contacts in total



Your board-to-board requirement
 Dimension „H“:
 Do you wish to receive this connector
 with or without locating peg?



Your board-to-board requirement
 Dimension „H“:
 Do you wish to receive this connector
 with or without locating peg?



Do you wish to receive this connector
 with or without locating peg?

In addition, please also provide the following information:

For which application do you intend to use our fine pitch „Plug Board“ connector?

.....

Please indicate your quantity requirement for „prototypes“ and „production“

Please also indicate the expected „life time“ of your project

Your Company Name & Address:

.....

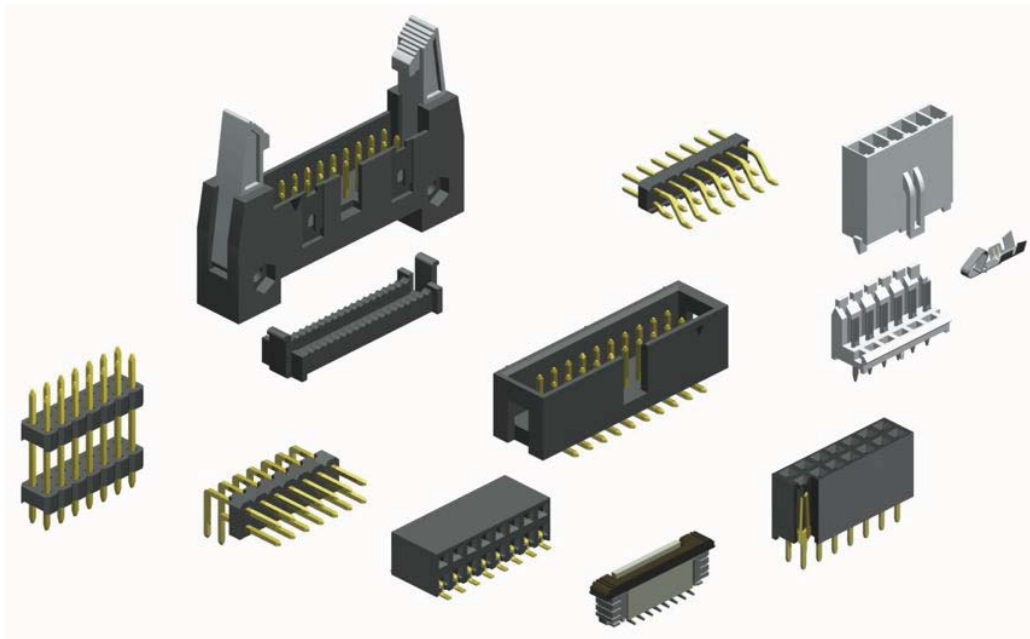
Your Name, Phone, FAX & e-mail

Please FAX this page to the nearest E-tec sales office and we will get back to you as soon as possible with a solution adapted to your needs.

Specifications for E-tec fine pitch Plug Board Connectors

Current rating	0.3 A	Operating temperature	- 45°C to +125°C
Insulator resistance	500 MΩ min. at 100 V DC	Processing temperature	+230°C for 60 sec. max. +260°C for 10 sec. max.
Contact resistance	50 mΩ max. at 100 mA	Contact material	Phosphor Bronze
Withstanding voltage	150 V AC 1 minute	Insulator material	Nylon UL 94 V-0

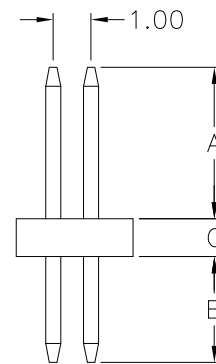
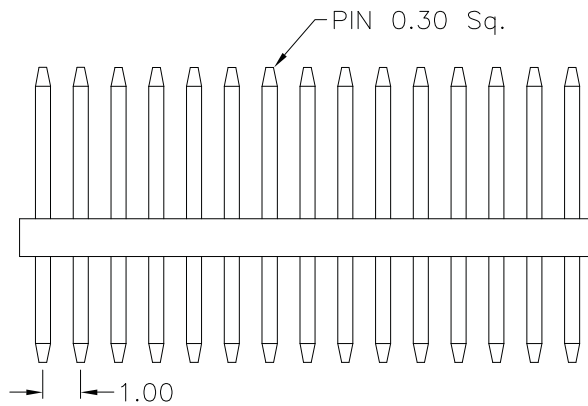
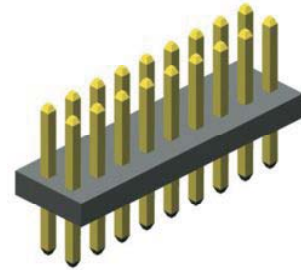
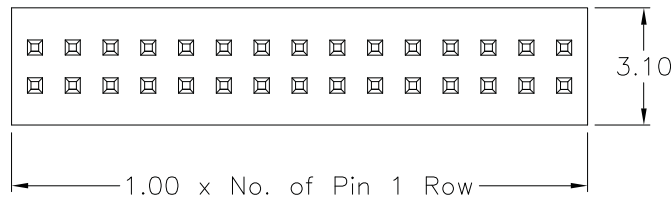
Board to Board & Cable to Board Connectors



E-tec offers a very large variety of board-to-board and cable-to-board connectors, which take care of nearly all requirements a customer may have in terms of required board connections.

The male/female board-to-board connectors are available in 1.00mm, 1.27mm, 2.00mm and 2.54mm pitch. For the cable-to-board connectors the available pitches start from 0.50mm upwards. The following catalog pages show the standard connector designs, but many other pin lengths or custom designs can be offered on request.

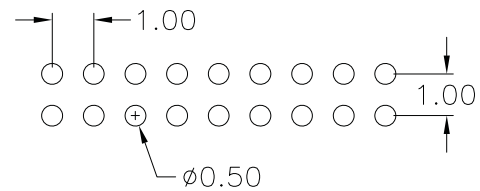
1.00mm pitch Pin Header
 - THT - dual row straight



SPECIFICATIONS

Current rating	1 A
Insulator resistance	100 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon or LCP UL 94 V-0

PCB Hole Layout



How to order

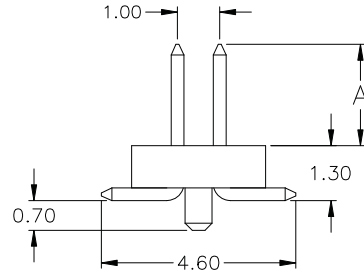
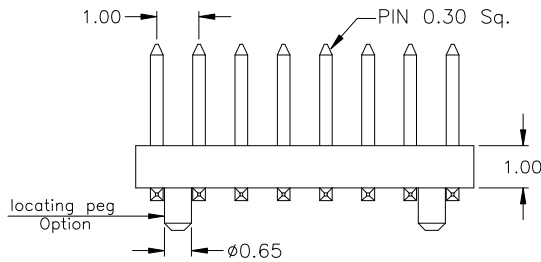
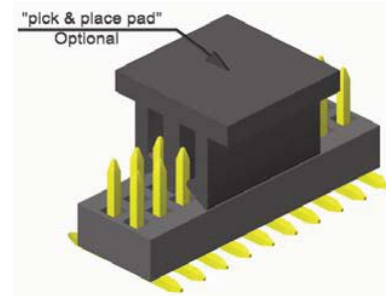
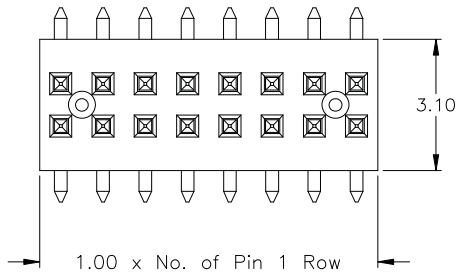
SL 2 - xxx - S xxx/x - 55 / 00

Nbr of pins
004 to 080

Pin code	DIM "A"	DIM "B"	DIM "C"
050/1	2.00 mm	2.00 mm	1.00 mm
050/2	3.20 mm	2.30 mm	1.00 mm
050/3	3.00 mm	2.30 mm	1.00 mm
112/1	6.50 mm	3.20 mm	1.50 mm
Other dimensions on request			

Plating
55 = gold
Other platings on request

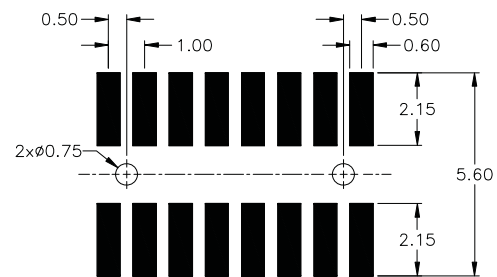
1.00mm pitch Pin Header
 - SMT - low profile dual row



APPLICATION AND FEATURES

- **Standard: tube packing and without "locating pegs"**
- Assures reliable PC Board connections
- Fine pitch, low profile type with 0.30mm square pin
- Mate with female header BS2-xxx-H222-55/00X then "board to board" distance 3.60mm

PCB Surface Mount Layout



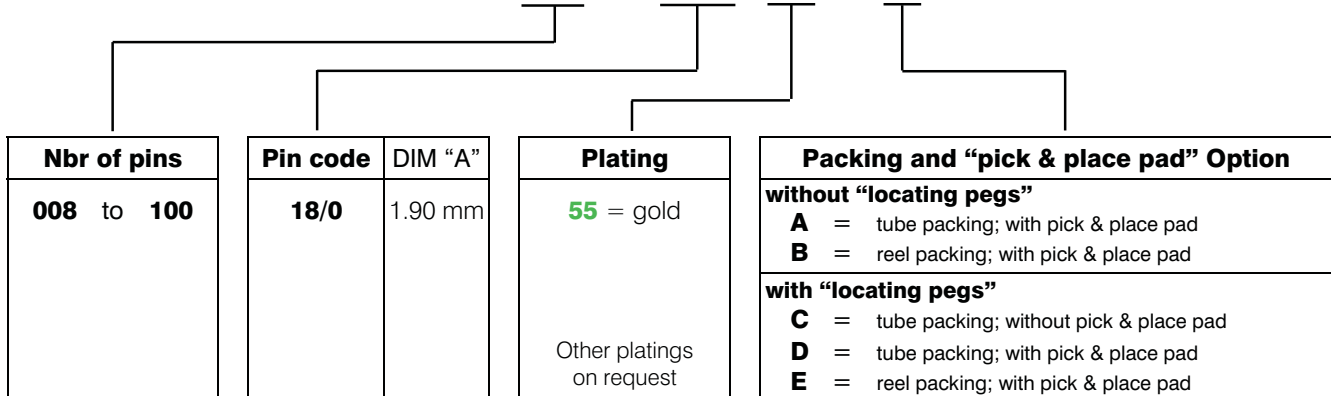
SPECIFICATIONS

Current rating	1 A
Insulator resistance	100 MΩ min.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

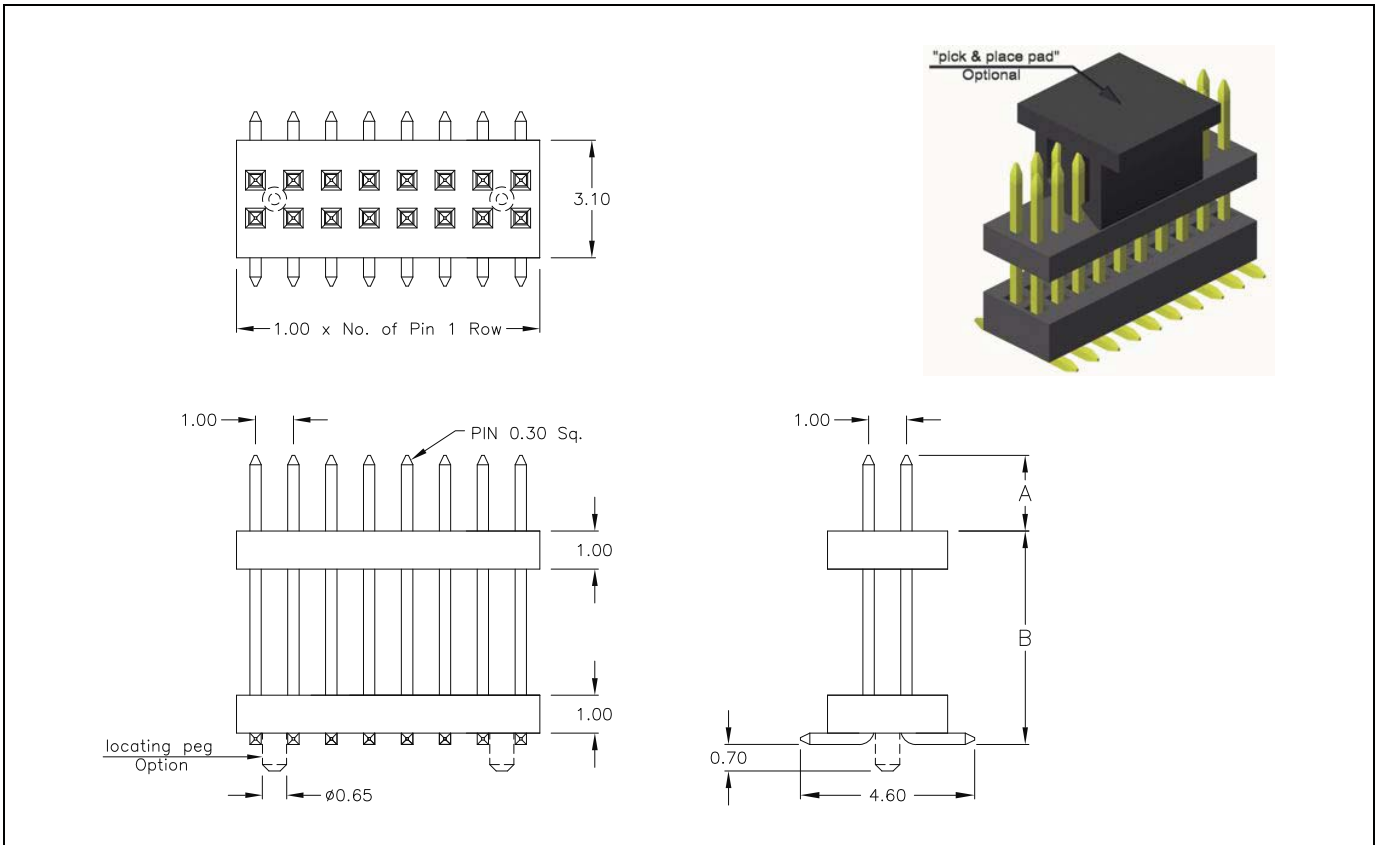
How to order

SS2 - xxx - H 18/x - 55/ 00 X

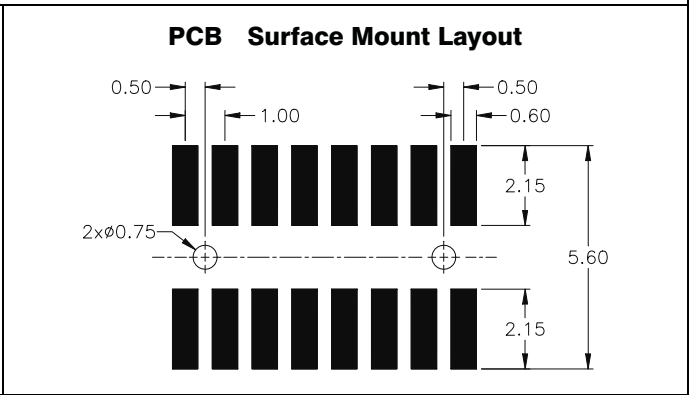


1.00mm pitch Board Spacer

- SMT - dual row



SPECIFICATIONS	
Current rating	1 A
Insulator resistance	100 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material (RoHS compliant)	Copper alloy
Insulator material (RoHS compliant)	Nylon UL 94 V-0

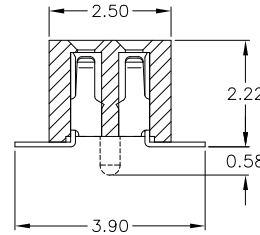
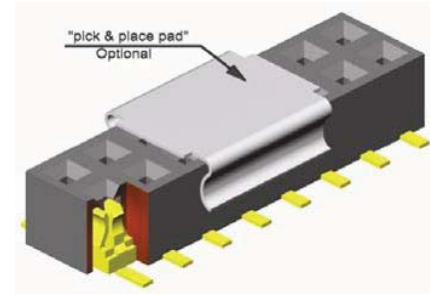
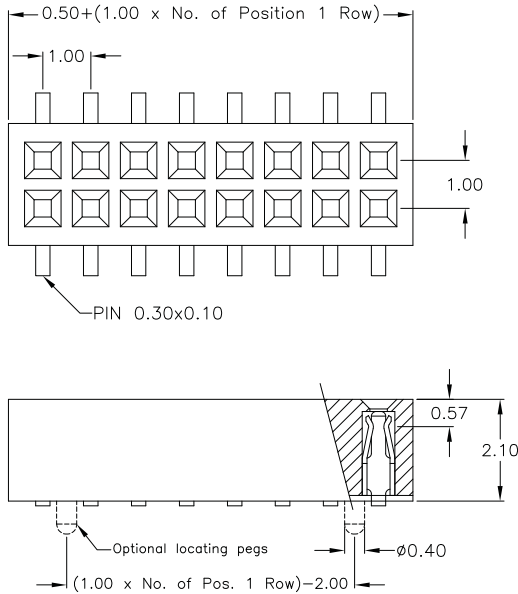


How to order

SP2 - xxx - H 51/x - 55 /00 X

Nbr of pins	Pin code	DIM "A"	DIM "B"	Plating	Packing and "pick & place pad" Option
008 to 100	51/0	2.00 mm	7.80 mm	55 = gold	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad
				Other platings on request	with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad
	Other dimensions on request				

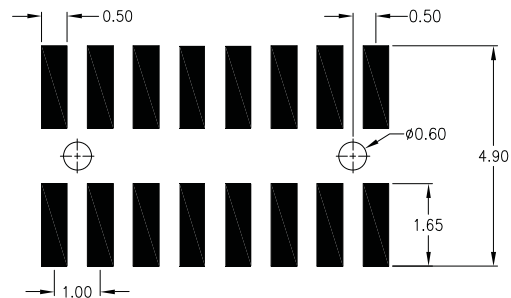
1.00mm pitch Female Header
 - SMT - low profile dual row



APPLICATION AND FEATURES

- **Standard: tube packing, without "locating pegs" and without "pick & place pad"**
- Assures reliable PC Board connections
- Fine pitch, low profile for space saving Application
- Accept 0.30mm square Pin Header

PCB Surface Mount Layout



SPECIFICATIONS

Current rating	1 A
Insulator resistance	100 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) LCP UL 94 V-0

How to order

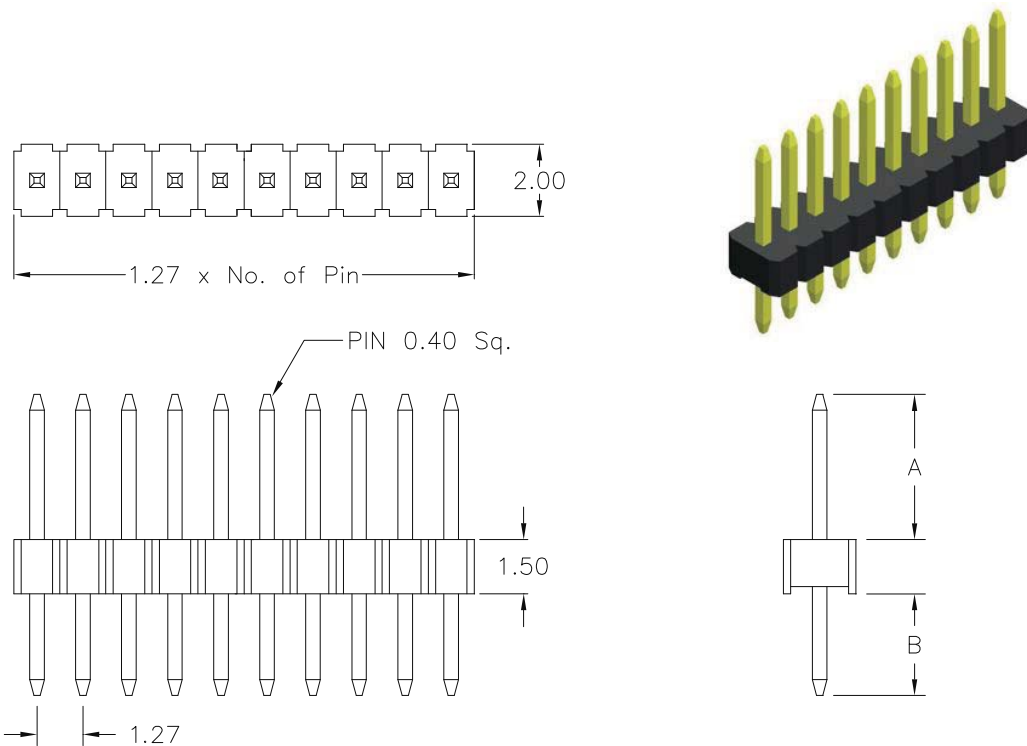
BS2 - xxx - H222 - 55 /00 X

Nbr of contacts
without "locating pegs" 004 to 068
with "locating pegs" 008 to 068

Plating
55 = gold
Other platings on request

Packing and "pick & place pad" Option	
without "locating pegs"	
A	= tube packing; with pick & place pad
B	= reel packing; with pick & place pad
with "locating pegs"	
C	= tube packing; without pick & place pad
D	= tube packing; with pick & place pad
E	= reel packing; with pick & place pad

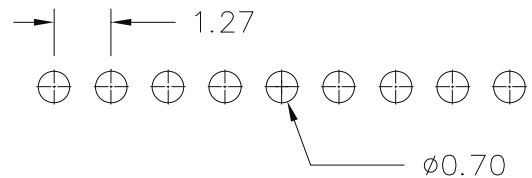
1.27mm pitch Pin Header
 - THT - single row straight



SPECIFICATIONS

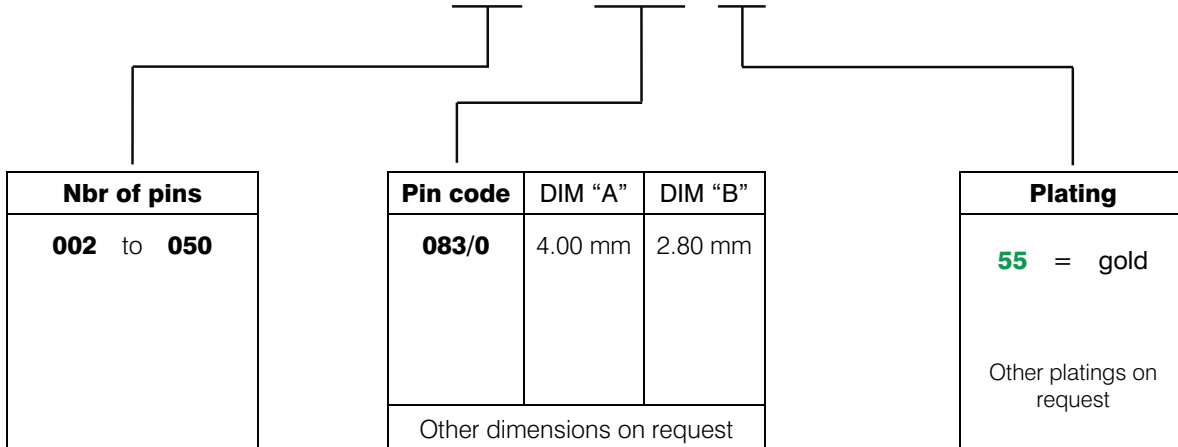
Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Hole Layout



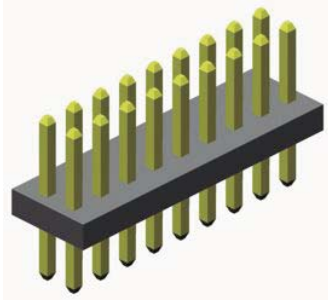
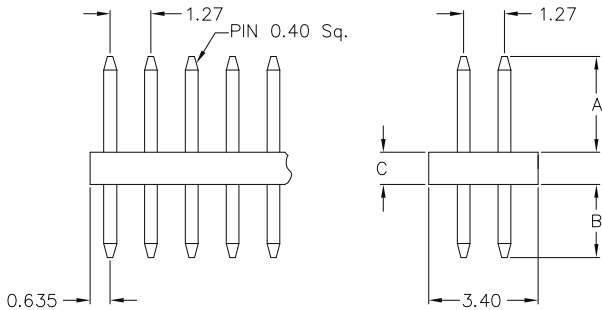
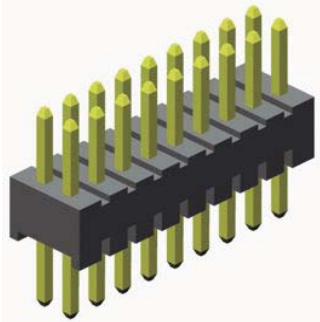
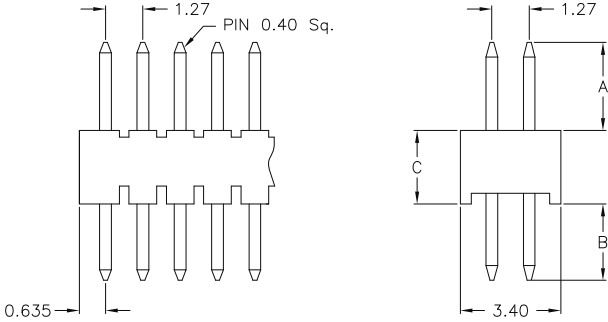
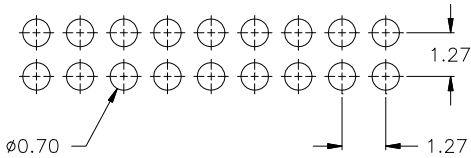
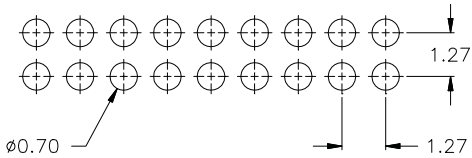
How to order

SL 1 - xxx - B xxx/x - 55 / 11



1.27mm pitch Pin Header
- THT - dual row straight



<p>S063/x & S064/x style</p>  	<p>S081/x style</p>  												
<p>PCB Hole Layout</p> 	<p>PCB Hole Layout</p> 												
<p>SPECIFICATIONS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Current rating</td> <td style="width: 25%;">1 A</td> <td style="width: 22.5%;">Operating temperature</td> <td style="width: 2.5%;">- 40°C to +105°C</td> </tr> <tr> <td>Insulator resistance</td> <td>1000 MΩ min.</td> <td>Contact material</td> <td>(RoHS compliant) Copper alloy</td> </tr> <tr> <td>Withstanding voltage</td> <td>500 V AC</td> <td>Insulator material</td> <td>(RoHS compliant) Nylon UL 94 V-0</td> </tr> </table>		Current rating	1 A	Operating temperature	- 40°C to +105°C	Insulator resistance	1000 MΩ min.	Contact material	(RoHS compliant) Copper alloy	Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) Nylon UL 94 V-0
Current rating	1 A	Operating temperature	- 40°C to +105°C										
Insulator resistance	1000 MΩ min.	Contact material	(RoHS compliant) Copper alloy										
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) Nylon UL 94 V-0										

How to order

SL 2 - xxx - S xxx/x - 55 / 11

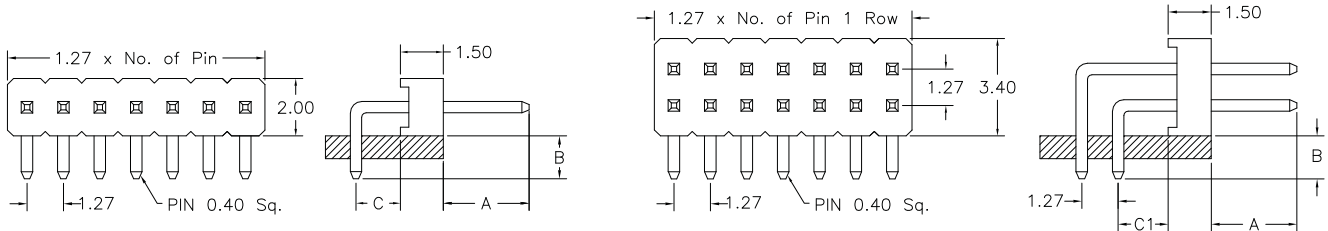
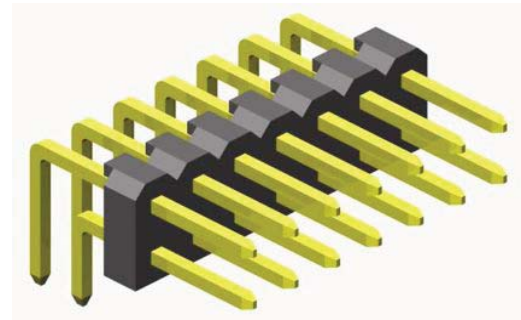
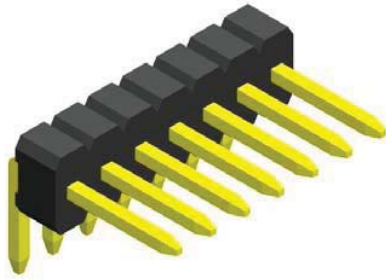
Nbr of pins
006 to 100

Pin code	DIM "A"	DIM "B"	DIM "C"
063/1	3.00 mm	2.30 mm	1.00 mm
063/2	7.00 mm	2.30 mm	1.00 mm
063/3	5.00 mm	2.30 mm	1.00 mm
063/4	3.10 mm	1.90 mm	1.00 mm
063/5	2.80 mm	2.50 mm	1.00 mm
064/0	7.50 mm	5.00 mm	1.50 mm
Insulator thickness 2.00mm on request.			
081/1	3.00 mm	2.60 mm	2.50 mm
081/2	4.00 mm	2.60 mm	2.50 mm
Other dimensions on request			

Plating
55 = gold
Other platings on request

1.27mm pitch Pin Header

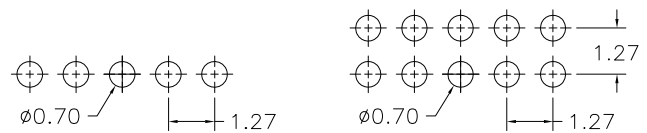
- THT - single & dual row right angle



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Hole Layout

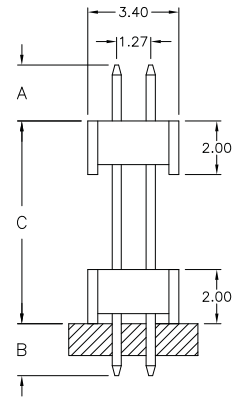
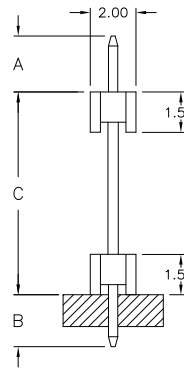
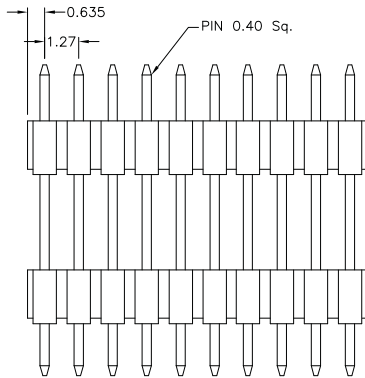
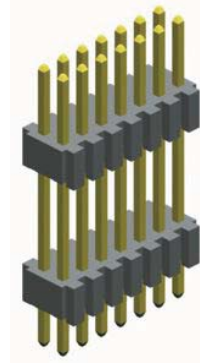
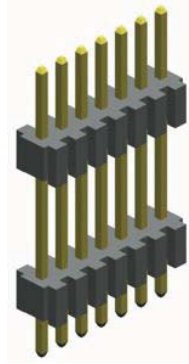


How to order

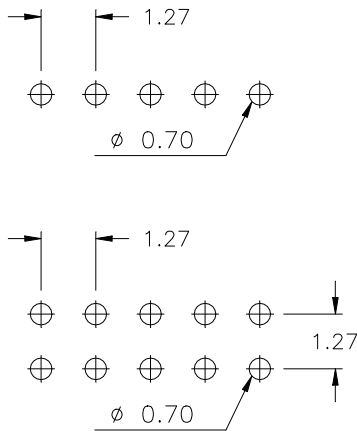
SL x - xxx - R xxx/x - 55 / 11

Rows	Nbr of pins	Pin code	DIM "A"	DIM "B"	DIM "C" (1 row)	DIM "C1" (2 row)	Plating
1 = single row	002 to 050	071/0	3.80 mm	3.00 mm	1.50 mm	1.70 mm	55 = gold
		071/1	4.80 mm	2.50 mm	0.80 mm	1.00 mm	
		071/2	3.00 mm	3.00 mm	1.50 mm	1.70 mm	
		071/3	3.80 mm	4.50 mm	1.50 mm	1.70 mm	
		071/4	3.80 mm	1.60 mm	1.50 mm	1.70 mm	
		071/5	3.00 mm	2.80 mm	1.50 mm	1.70 mm	
2 = dual row	006 to 100	071/6	4.00 mm	4.00 mm	1.50 mm	1.70 mm	Other platings on request
		Other dimensions on request					

1.27mm pitch Board Spacer
 - THT - single & dual row



PCB Hole Layout



SPECIFICATIONS

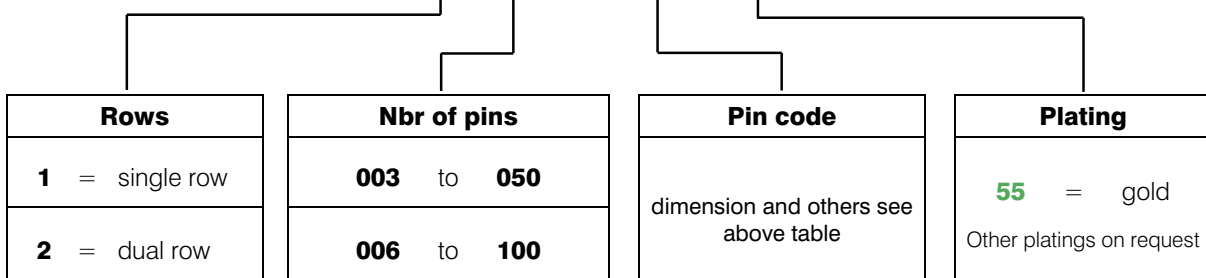
Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Contact material	Copper alloy <i>(RoHS compliant)</i>
Insulator material	Nylon UL 94 V-0 <i>(RoHS compliant)</i>

Pin code	DIM "A"	DIM "B"	DIM "C"
162/1	5.70 mm	5.70 mm	4.80 mm
179/0	5.85 mm	5.85 mm	6.15 mm
130/2	3.70 mm	2.30 mm	7.00 mm
130/3	3.00 mm	3.00 mm	7.00 mm
150/2	4.00 mm	3.00 mm	8.00 mm
127/1	2.20 mm	2.20 mm	8.30 mm
152/2	3.60 mm	2.60 mm	9.00 mm
180/3	4.00 mm	4.00 mm	10.00 mm
205/1	3.00 mm	6.50 mm	11.00 mm
190/1	3.00 mm	3.00 mm	13.00 mm
220/1	6.00 mm	3.00 mm	13.00 mm
200/1	3.00 mm	3.00 mm	14.00 mm
230/1	3.00 mm	6.00 mm	14.00 mm
210/4	3.50 mm	3.00 mm	14.50 mm
230/2	3.00 mm	3.00 mm	17.00 mm
244/2	4.00 mm	3.00 mm	17.40 mm
265/1	4.60 mm	3.00 mm	18.90 mm

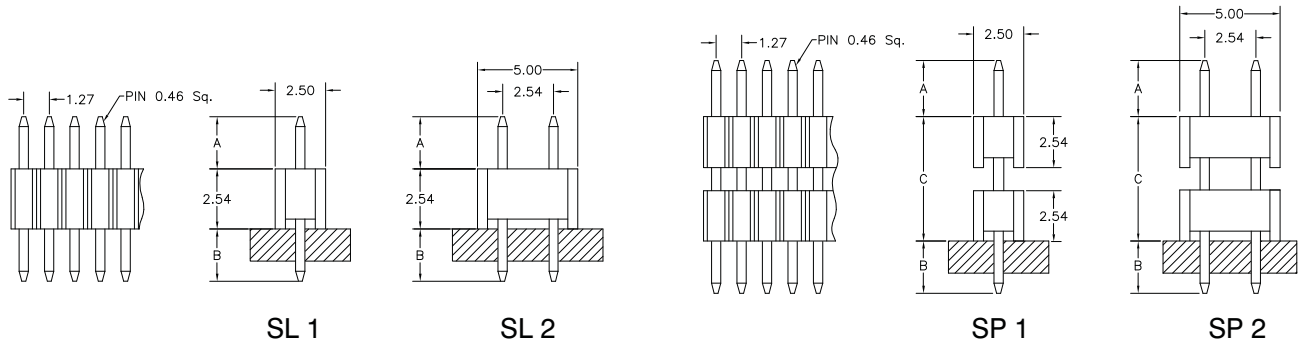
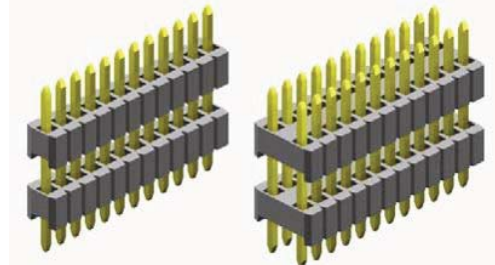
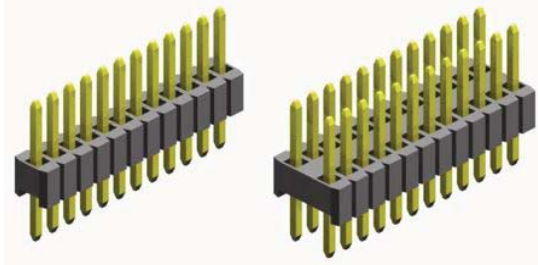
Other dimensions on request

How to order

SP x - xxx - S xxx/x - 55 /11



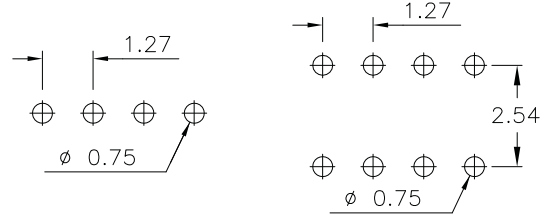
1.27mm Pin Header & Board Spacer
 1.27mm x 2.54mm Board Spacer



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Copper alloy
Insulator material (RoHS compliant)	Nylon, UL 94 V-0

PCB Hole Layout

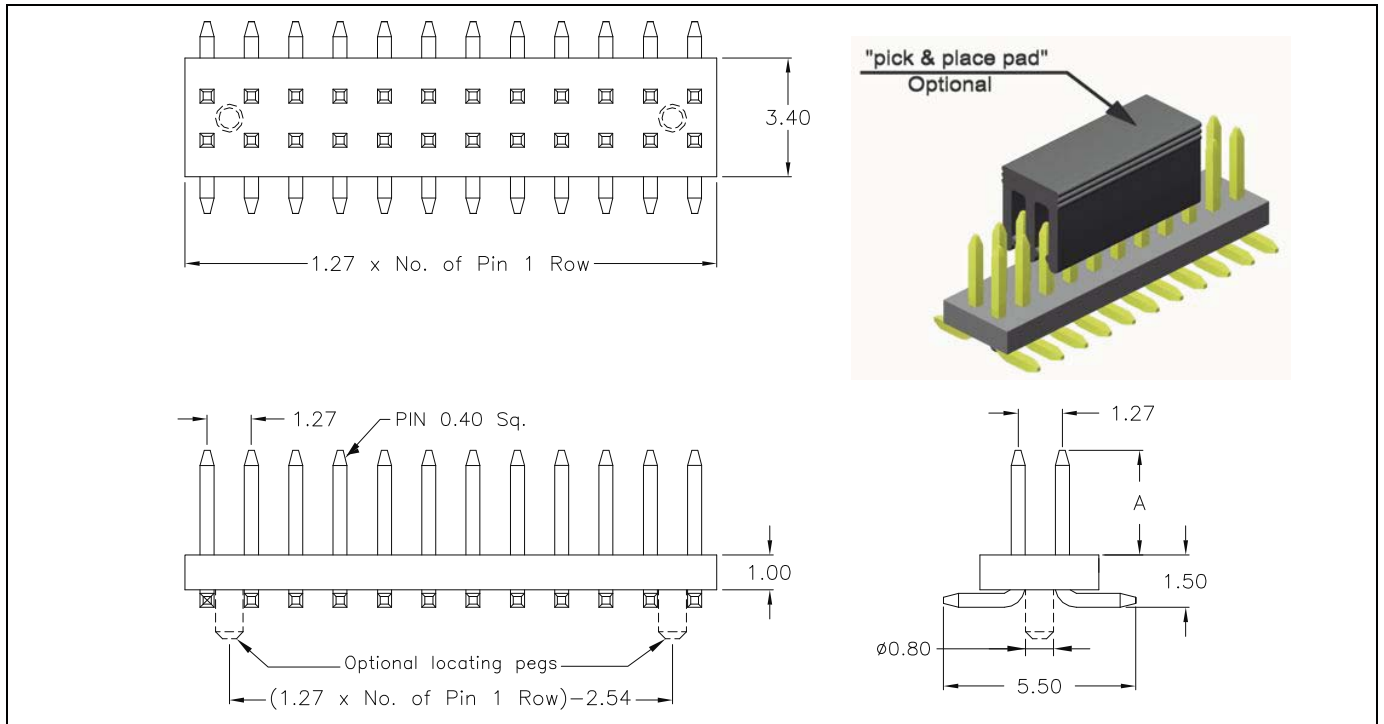


How to order

S xx - xxx - S xxx/xx - 55 /1

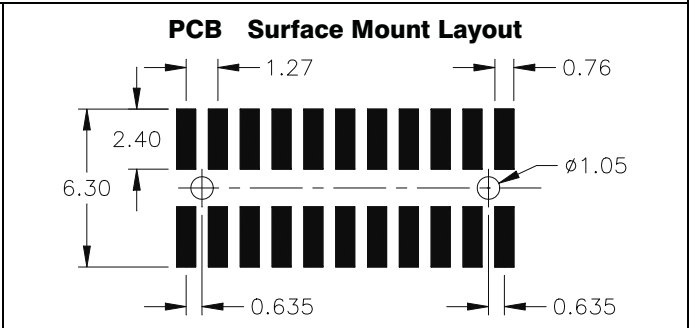
Single plastic	Nbr of pins	Pin code	DIM "A"	DIM "B"	Plating	
L1 = single row	single row = 003 to 050	079/01	2.80 mm	2.60 mm	55 = gold	
L2 = dual row	dual row = 006 to 100	091/01	4.00 mm	2.60 mm		
		111/01	6.00 mm	2.60 mm		
		164/01	2.50 mm	11.40 mm		
		Other dimensions on request				
Double plastic "Boardspacer"	Nbr of pins	Pin code	DIM "A"	DIM "B"	DIM "C"	Other platings on request
P1 = single row	single row = 003 to 050	084/01	1.10 mm	1.30 mm	6.00 mm	
P2 = dual row	dual row = 006 to 100	116/01	2.80 mm	2.60 mm	6.20 mm	
		152/01	6.00 mm	3.00 mm	6.20 mm	
		127/01	2.20 mm	2.20 mm	8.30 mm	
		137/01	3.00 mm	2.30 mm	8.40 mm	
		160/06	3.00 mm	4.00 mm	9.00 mm	
		210/06	5.50 mm	2.50 mm	13.00 mm	
		218/01	6.00 mm	1.80 mm	14.00 mm	
		Other dimensions on request				

1.27mm pitch Pin Header
 - SMT - low profile dual row



APPLICATION AND FEATURES

- **Standard: tube packing and without "locating pegs"**
- Assures reliable PC Board connections
- Low profile insulator
- Mates with 1.27mm pitch Female Headers

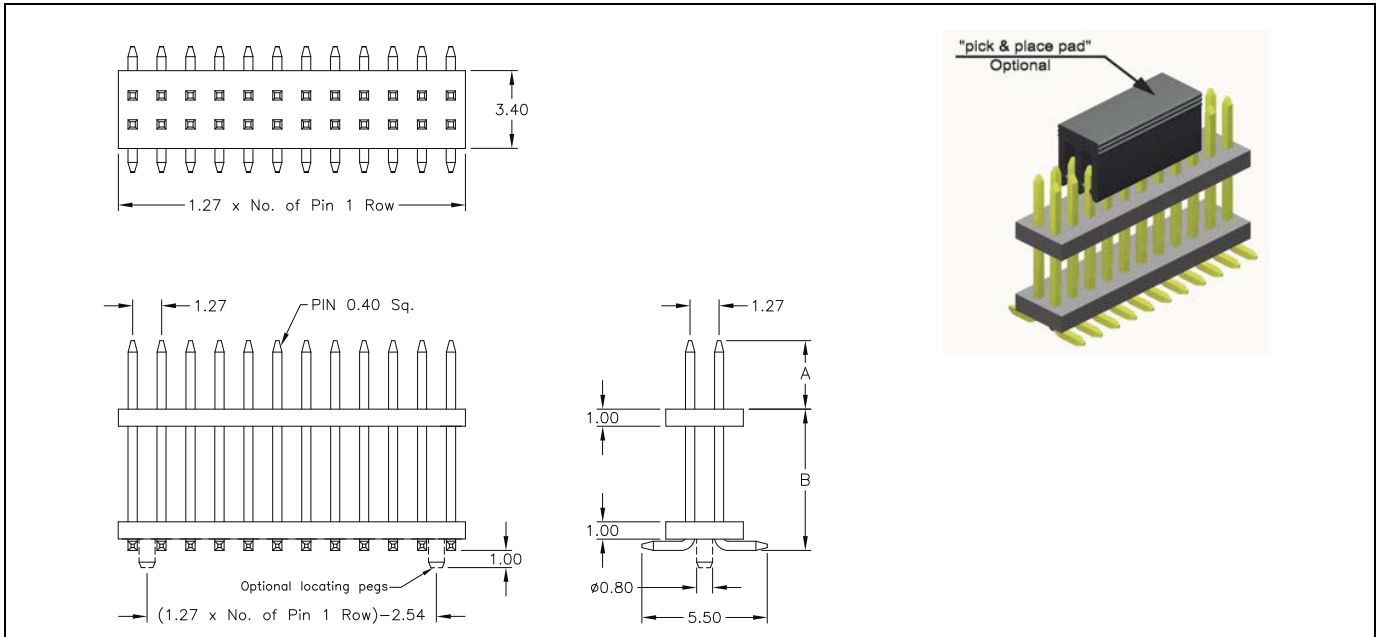


SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature	+250°C +0/-5°C for 10sec.
Withstanding voltage	500 V AC	Contact material	(RoHS compliant) Copper alloy
		Insulator material	(RoHS compliant) Nylon UL 94 V-0

How to order
SS2 - xxx - H xx/x - 55 /11 X

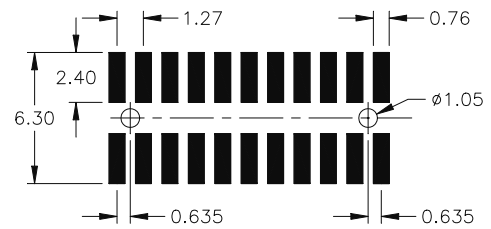
Nbr of pins	Pin code	DIM "A"	Plating	Packing and "pick & place pad" Option
without locating pegs: 006 to 100	70/0	3.00 mm	55 = gold	without "locating pegs"
with locating pegs: 008 to 100	70/1	10.00 mm	Other platings on request	A = tube packing; with pick & place pad
	70/2	6.50 mm		B = reel packing; with pick & place pad
	Other dimensions on request			with "locating pegs" (available only from 008 to 100 pins)
				C = tube packing; without pick & place pad
				D = tube packing; with pick & place pad
				E = reel packing; with pick & place pad



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material	Copper alloy (RoHS compliant)
Insulator material	Nylon UL 94 V-0 (RoHS compliant)

PCB Surface Mount Layout



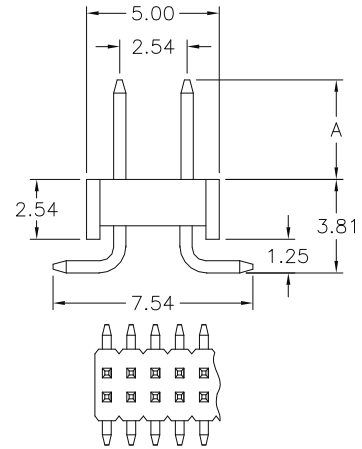
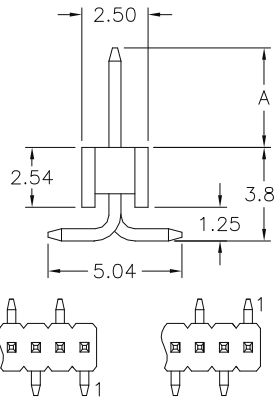
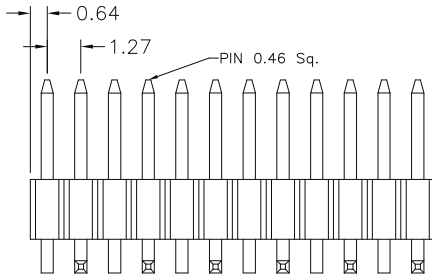
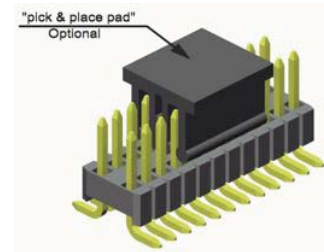
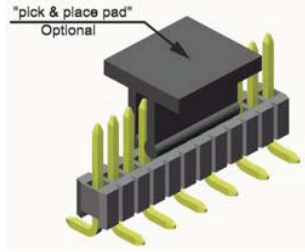
How to order

SP2 - xxx - H xx/x - 55 /11 X

Nbr of pins	Pin code	DIM "A"	DIM "B"	Plating	Packing and "pick & place pad" Option
without "locating pegs"	21/9	4.10 mm	2.90 mm	55 = gold Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad with "locating pegs" (available only from 008 to 100 pins) C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad
006 to 100	22/9	5.20 mm	3.80 mm		
with "locating pegs"	21/1	3.00 mm	4.00 mm		
	22/8	1.50 mm	4.40 mm		
	22/3	5.00 mm	4.50 mm		
	21/2	3.00 mm	5.50 mm		
	22/5	6.00 mm	5.50 mm		
	21/0	3.00 mm	6.00 mm		
	22/0	3.00 mm	7.00 mm		
	22/2	4.70 mm	7.10 mm		
	22/4	4.00 mm	7.50 mm		
	21/8	4.80 mm	7.50 mm		
	23/0	6.10 mm	7.50 mm		
	21/3	5.60 mm	8.00 mm		
21/7	4.00 mm	8.30 mm			
21/5	3.00 mm	9.00 mm			
21/4	3.80 mm	9.65 mm			
22/1	5.10 mm	10.20 mm			
22/6	3.00 mm	11.50 mm			
22/7	3.00 mm	14.00 mm			
21/6	3.00 mm	16.00 mm			
		Other dimensions on request			

1.27mm - SMT - Pin Header

dual row 1.27mm x 2.54mm

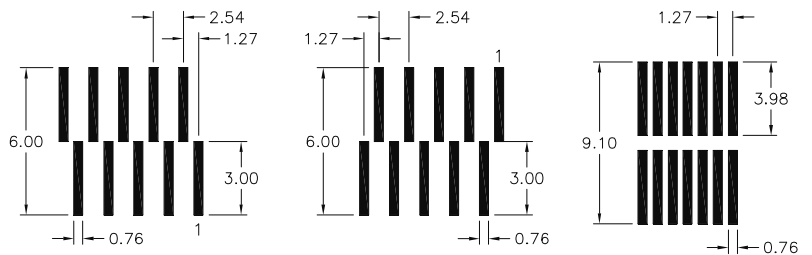


Foot style: **380** **381** **380**

SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material (RoHS compliant)	Brass
Insulator material (RoHS compliant)	Nylon UL 94 V-0

PCB Surface Mount Layout



Foot style: **380** (single row) **381** (single row) **380** (dual row)

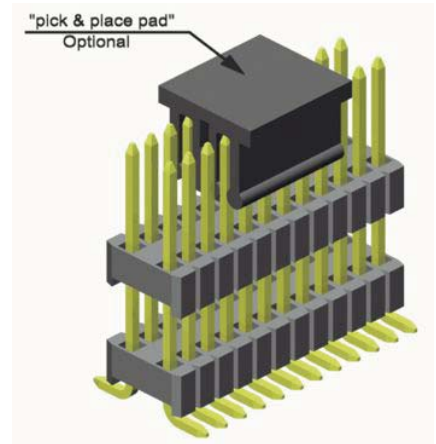
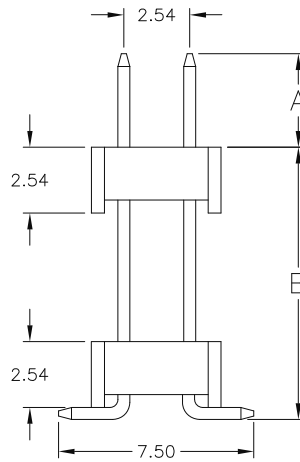
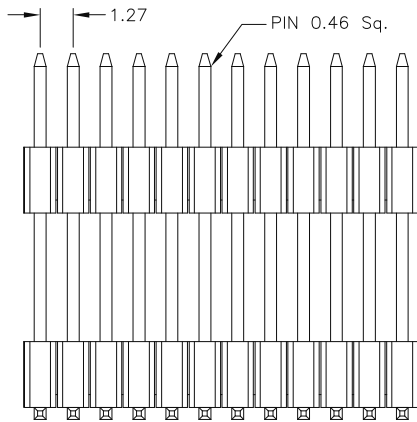
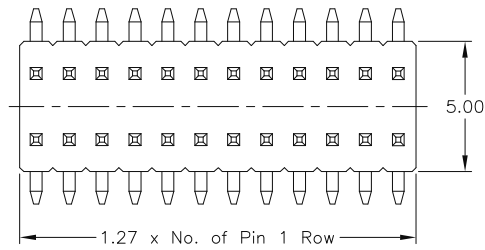
How to order

SS x - xxx - H xxx / x - 55 / 1 X

Rows	Nbr of pins	Foot style	Pin code	DIM "A"	Plating	Packing and "pick & place pad" Option
1 = single row	003 to 050	380 / 0		2.80 mm	55 = gold	A = tube packing; with pick & place pad B = reel packing; with pick & place pad
		381 / 0		2.80 mm		
2 = dual row	006 to 100	380 / 0		2.80 mm	Other platings on request	
		380 / 1		4.50 mm		
		380 / 2		5.50 mm		
		380 / 3		4.80 mm		
		Other dimensions on request				

1.27mm x 2.54mm Board Spacer

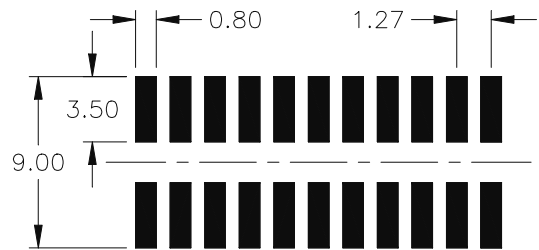
- SMT - dual row



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material	(RoHS compliant) Brass
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Surface Mount Layout



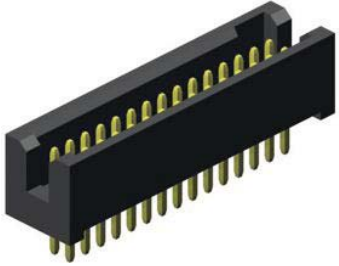
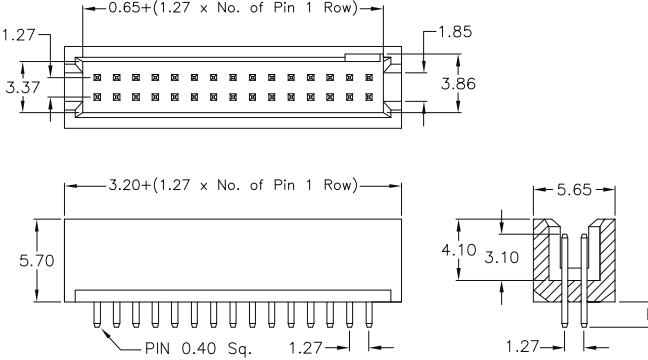
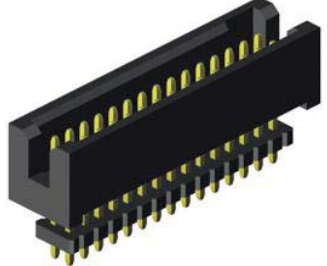
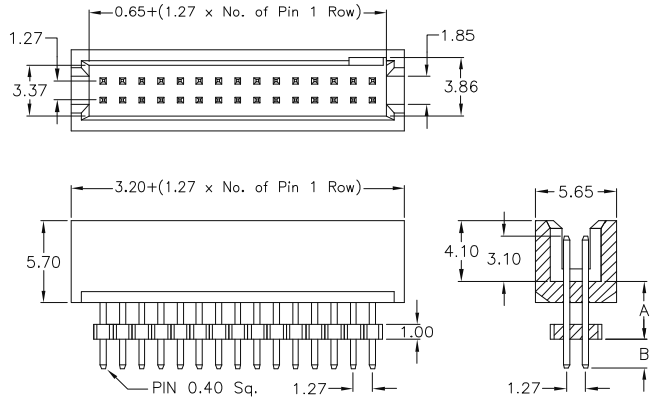
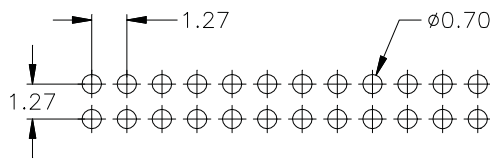
How to order

SP2 - xxx - H 220/x - 55 /1 X

Nbr of pins	Pin code	DIM "A"	DIM "B"	Plating	Packing and "pick & place pad" Option (standard tube packing; without pick & place pad)
		006 to 100	220/0 220/1 220/2		
		Other dimensions on request		Other platings on request	

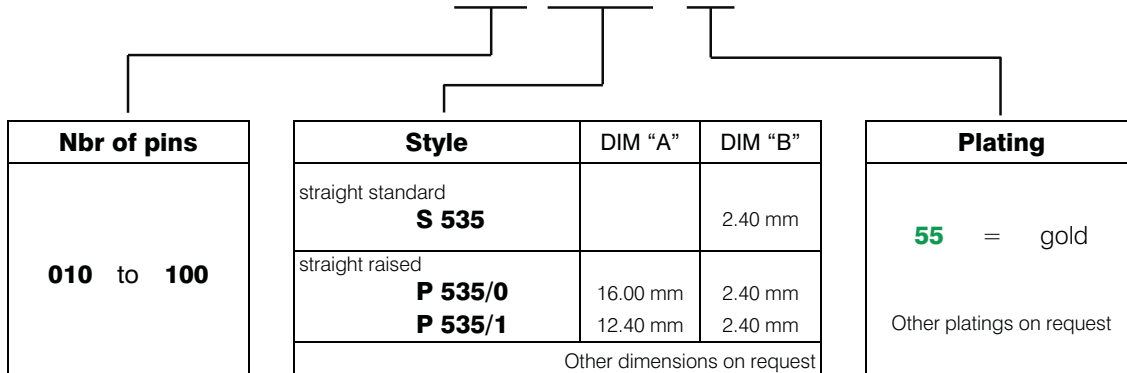
1.27mm pitch Box Header
 - THT - straight - raised



<p>S 535 Style</p>  	<p>P 535 Style</p>  												
<p>SPECIFICATIONS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Current rating</td> <td>1 A</td> </tr> <tr> <td>Insulator resistance</td> <td>1000 MΩ min.</td> </tr> <tr> <td>Withstanding voltage</td> <td>500 V AC</td> </tr> <tr> <td>Operating temperature</td> <td>- 40°C to +105°C</td> </tr> <tr> <td>Contact material</td> <td>(RoHS compliant) Copper alloy</td> </tr> <tr> <td>Insulator material</td> <td>(RoHS compliant) Nylon UL 94 V-0</td> </tr> </table>	Current rating	1 A	Insulator resistance	1000 MΩ min.	Withstanding voltage	500 V AC	Operating temperature	- 40°C to +105°C	Contact material	(RoHS compliant) Copper alloy	Insulator material	(RoHS compliant) Nylon UL 94 V-0	<p>PCB Hole Layout</p> 
Current rating	1 A												
Insulator resistance	1000 MΩ min.												
Withstanding voltage	500 V AC												
Operating temperature	- 40°C to +105°C												
Contact material	(RoHS compliant) Copper alloy												
Insulator material	(RoHS compliant) Nylon UL 94 V-0												
<p>Application and Features</p> <p>Mating with 1.27mm pitch Female Headers, Reliable flat cable to PCB connection, or as “board to board” connection. No ejection latches for space saving.</p>													

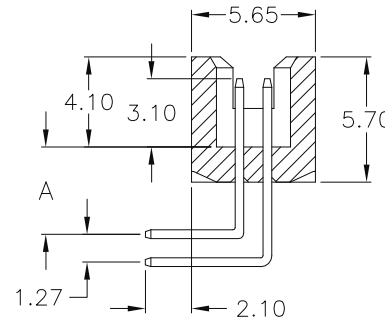
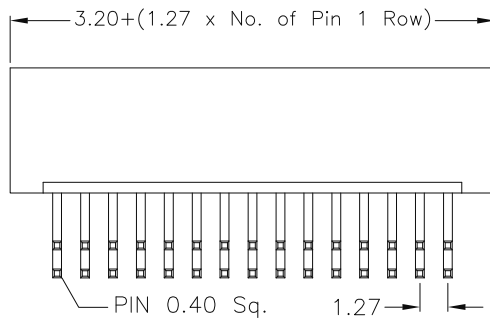
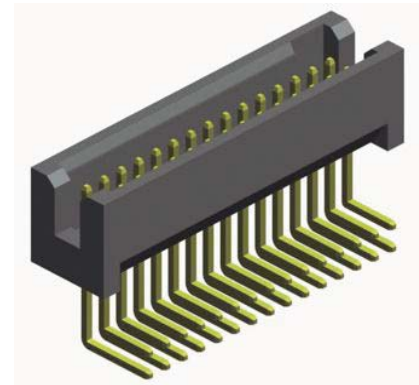
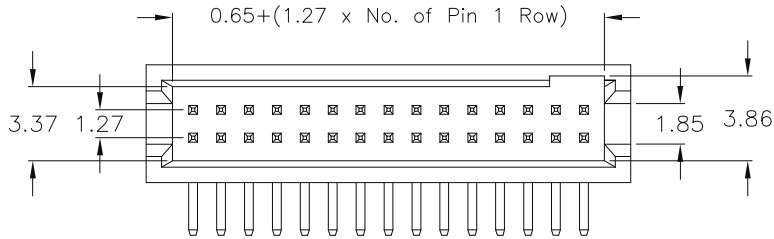
How to order

SLS - xxx - X xxx - 55 /11



1.27mm pitch Box Header

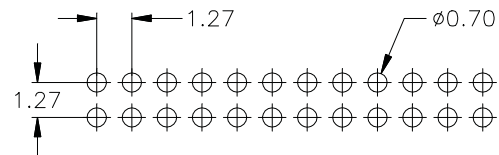
- THT - right angle



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Hole Layout

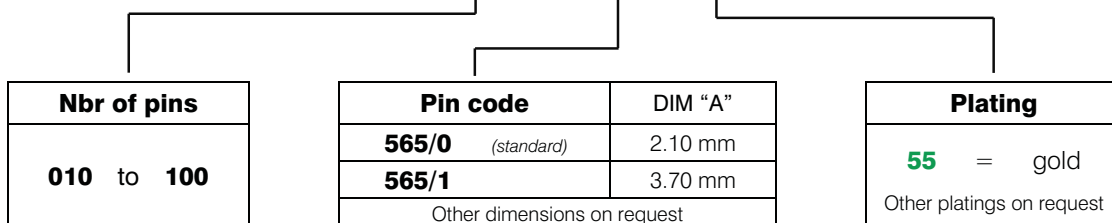


APPLICATION AND FEATURES

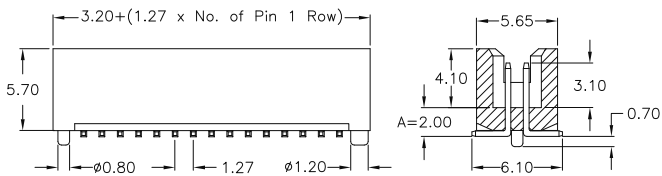
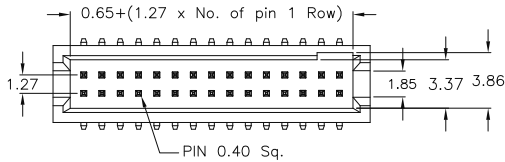
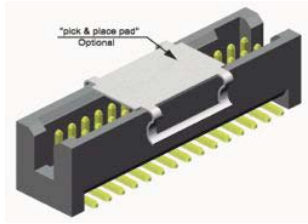
Mating with 1.27mm pitch Female Headers,
 Reliable flat cable to PCB connection.
 No ejection latches for space saving.

How to order

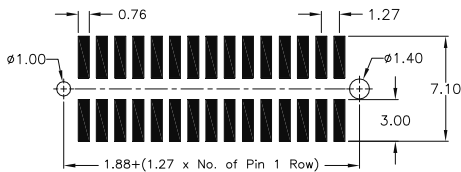
SLS - xxx - R xxx/x - 55 /11



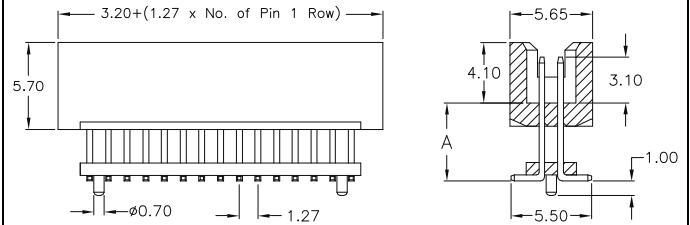
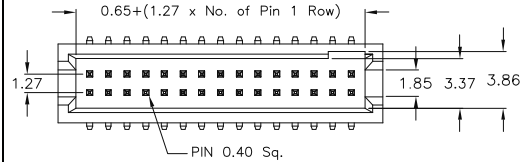
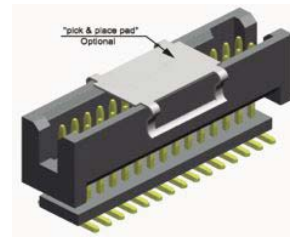
H 610 Style



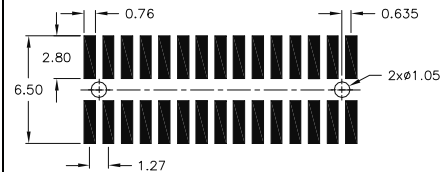
PCB Surface Mount Layout



HP xx Style



PCB Surface Mount Layout



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

APPLICATION AND FEATURES

Mating with 1.27mm pitch Female Headers,
 Reliable flat cable to PCB connection, or as "board to board" connection
 No ejection latches for space saving

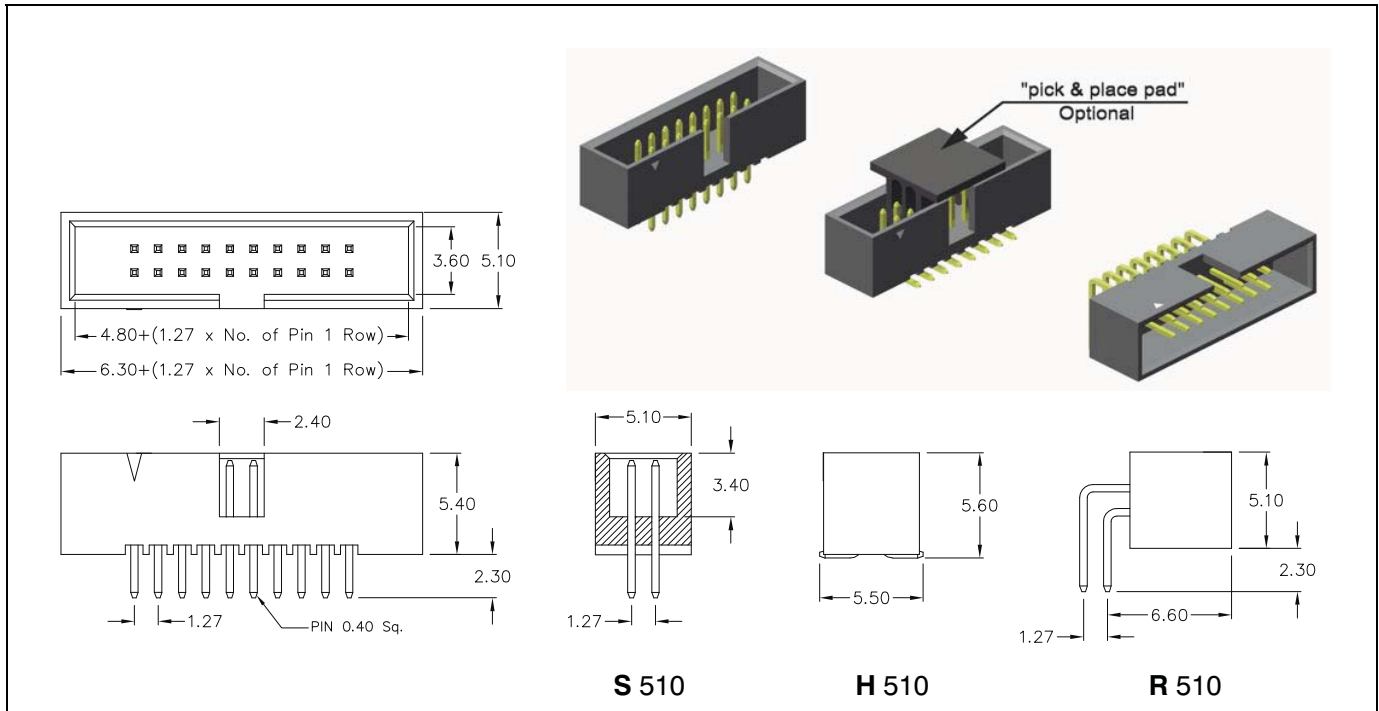
How to order

SLS - xxx - Xxxx - 55 /11 X

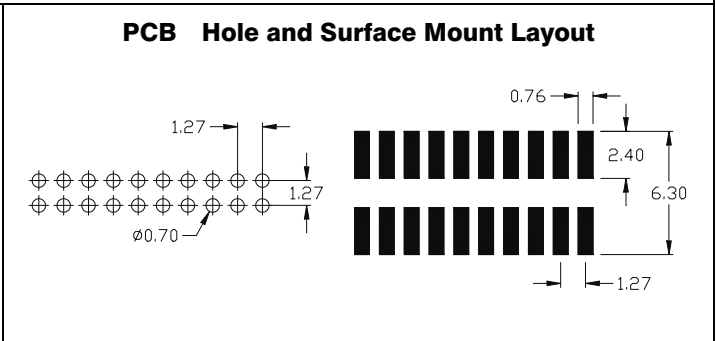
Nbr of pins	Style	Plating	Packing and "pick & place pad" Option
010 to 100	H610 Low Profile DIM "A" = 2.00 mm	55 = gold Other platings on request	A = tube packing; with pick & place pad B = reel packing; with pick & place pad
	Raised Type DIM "A"		
	HP20 15.00 mm (standard)		
	HP21 18.00 mm		
	HP22 8.50 mm		
<i>Other dimensions on request</i>			

1.27mm pitch Box Header

-THT- straight, right angle & - SMT -



- APPLICATION AND FEATURES**
- **Standard:**
tray packing for S510 & R510 Style
tube packing for H510 Style
 - Designed to mate with IDC female connector IDS-xxx-W050-55/P
 - Reliable flat cable to PCB connection
 - No ejection latches for space saving

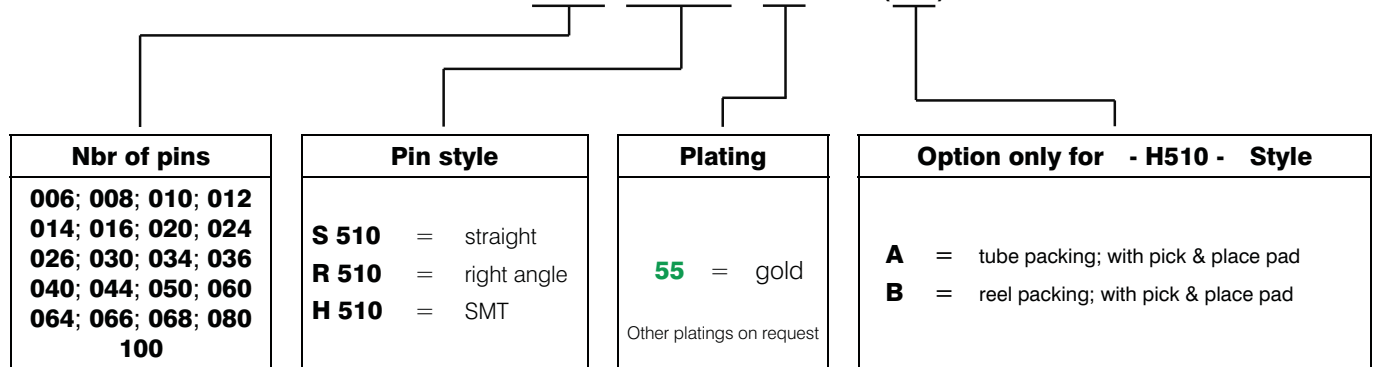


SPECIFICATIONS

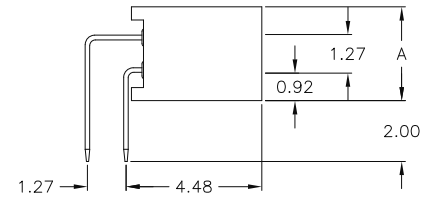
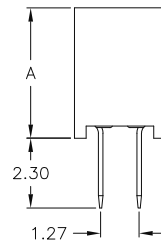
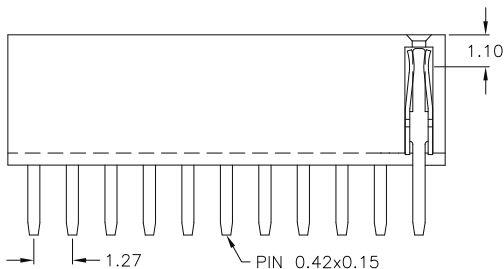
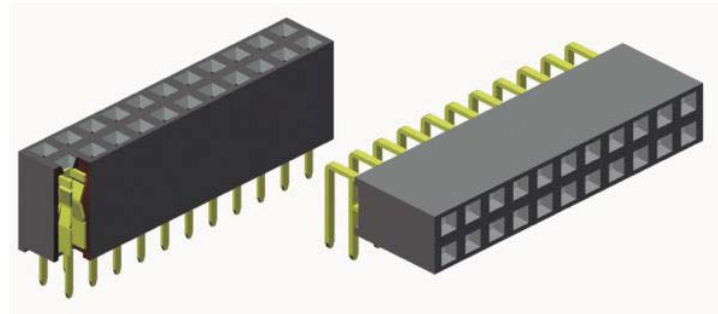
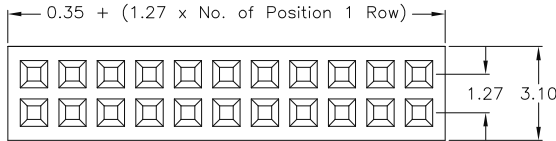
Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature (SMT)	+250°C +0/-5°C for 10sec.
Withstanding voltage	500 V AC	Contact material (RoHS compliant)	Copper Alloy
		Insulator material (RoHS compliant)	LCP UL 94 V-0

How to order

SLS - xxx - X xxx - 55/11 (X)



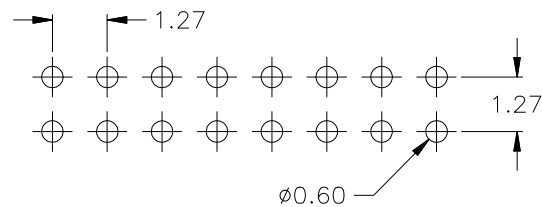
1.27mm pitch Female Header
 - THT - dual row straight & right angle



APPLICATION AND FEATURES

- 3.40 or 4.40mm height above board straight type
- Hi-rel dual beam contact assures reliable PC-Board connections
- Accepts 0.40mm square pins
- Stand-off's facilitate post solder cleaning
- Side stackable

PCB Hole Layout



SPECIFICATIONS

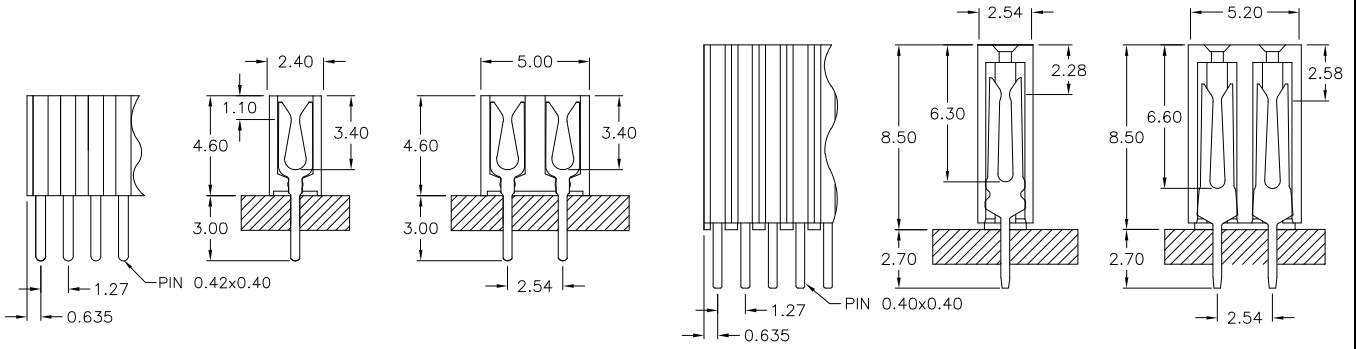
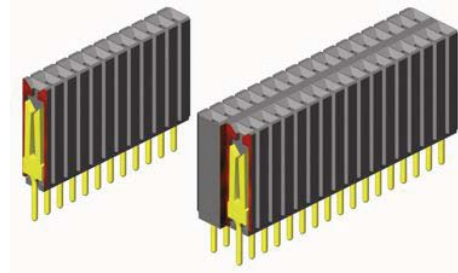
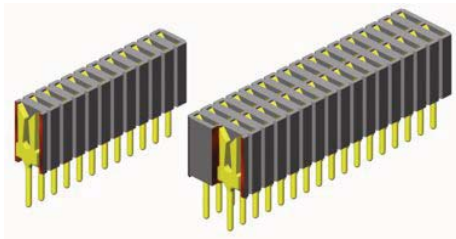
Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material	Phosphor Bronze (RoHS compliant)
Contact resistance	20 mΩ max.	Insulator material	LCP (RoHS compliant) UL 94 V-0
Withstanding voltage	500 V AC		

How to order

BL 2 - xxx - X xxx - 55 / 11

Nbr of contacts	Connector style	DIM "A"	Plating
006 to 100	S340 straight	3.40 mm	55 = gold Other platings on request
004 to 100	S430 straight	4.40 mm	
004 to 100	R430 right angle	3.10 mm	

1.27mm pitch Female Header
 -THT- 1.27mm x 2.54mm dual row



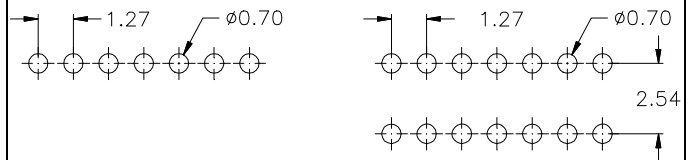
S 460

S 850

SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	Phosphor Bronze
Insulator material	LCP UL 94 V-0

PCB Hole Layout



APPLICATION AND FEATURES

Standard & low profile types
 Hi-rel fork contact design
 Mates with 0.46mm square or round Pin Header

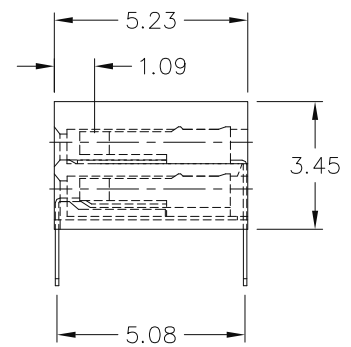
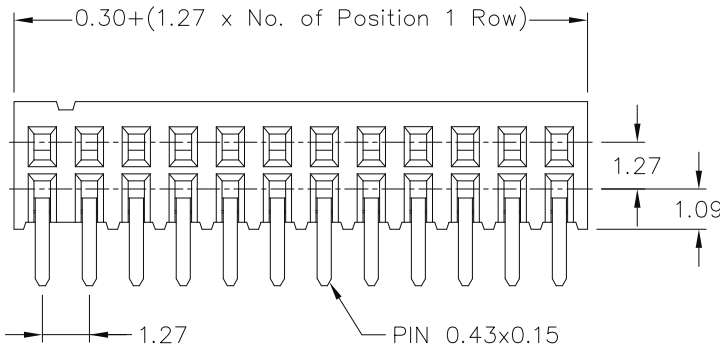
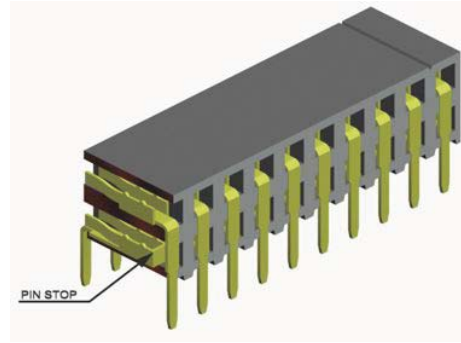
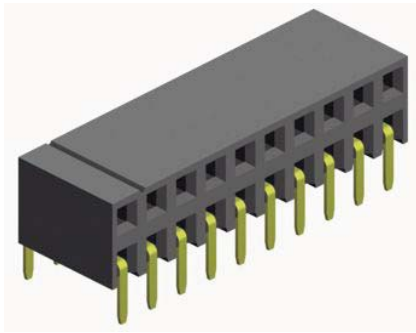
How to order

BL x - xxx - S xxx - 55 /1

Rows	Nbr of contacts	Version (height above board)	Plating
1 = single row	<u>version 460</u> single row = 003 to 040 dual row = 006 to 080	460 = 4.60 mm	55 = gold
2 = dual row	<u>version 850</u> single row = 003 to 035 dual row = 006 to 070	850 = 8.50 mm	Other platings on request

1.27mm pitch Female Header

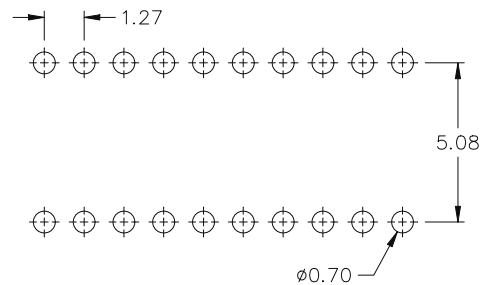
- THT- side entry



APPLICATION AND FEATURES

- **Standard: tube packing**
- Hi-rel dual beam contact assures reliable PC-Board connections
- Accepts 0.40mm square pins; Pin Header 1.27mm x 1.27mm
- 3.45mm height above board
- Stand-off's facilitate post solder cleaning

PCB Hole Layout



SPECIFICATIONS

Current rating 1 A
 Insulator resistance 1000 MΩ min.
 Contact resistance 20 mΩ max.
 Withstanding voltage 500 V AC

Operating temperature - 40°C to +105°C
 Contact material (RoHS compliant) Phosphor bronze
 Insulator material (RoHS compliant) Nylon UL 94 V-0

How to order

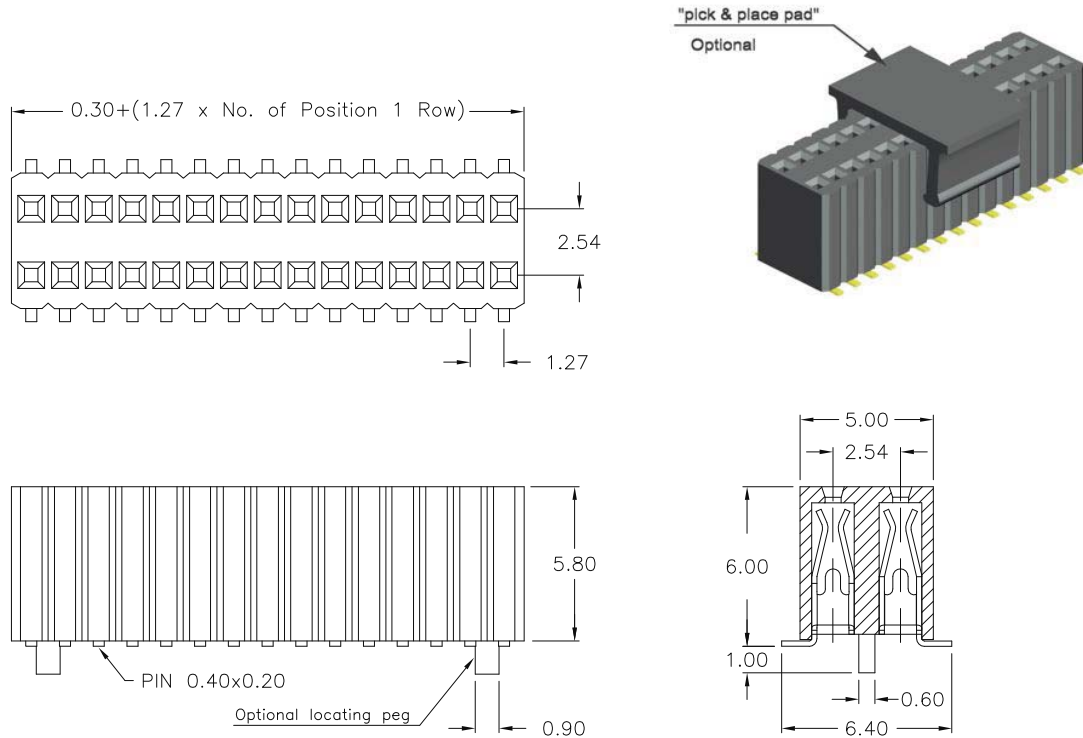
BH 2 - xxx - R 345 - 55 /11

Nbr of contacts
 006 to 080

Plating
 55 = gold
 Other platings on request

1.27mm x 2.54mm pitch Female Header

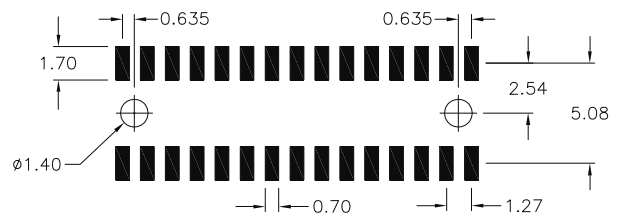
- SMT - dual row 6.00mm profile



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material	Phosphor Bronze (RoHS compliant)
Insulator material	Nylon UL 94 V-0 (RoHS compliant)

PCB Surface Mount & Hole Layout



APPLICATION AND FEATURES

Standard: tube packing and without "pick & place pad"

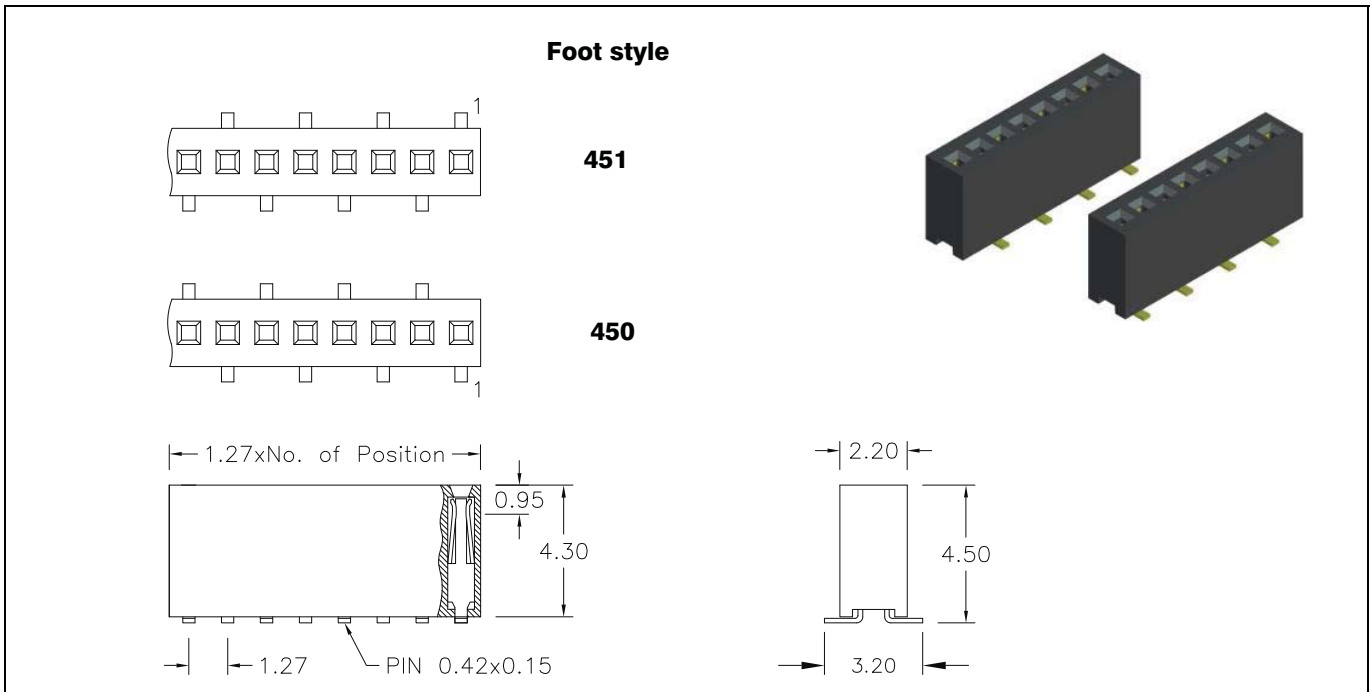
Hi-rel inner contact design, mates with 0.46mm square pin headers

How to order

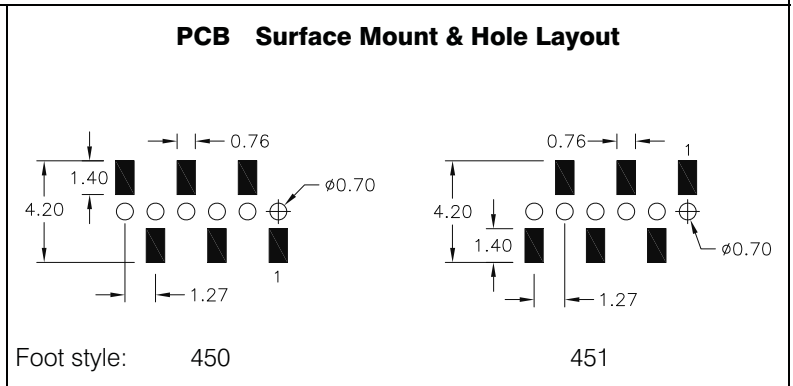
BS 2 - xxx - H 600 - 55 /1 X

Rows	Nbr of contacts	Plating	Packing and "pick & place pad" Option
2 = dual row	006 to 100	55 = gold	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad

1.27mm pitch Female Header
 - SMT - single row 4.50mm profile



- APPLICATION AND FEATURES**
- **Standard: tube packing; without pick & place pad.**
 - Also available with "pick & place pad" for automatic suck assembly to the PCB
 - Low profile, 4.50mm height Type. Hi-rel dual beam contacts.
 - Mating with 1.27mm pitch, 0.40mm square pin headers.
 - Through Board mating possible

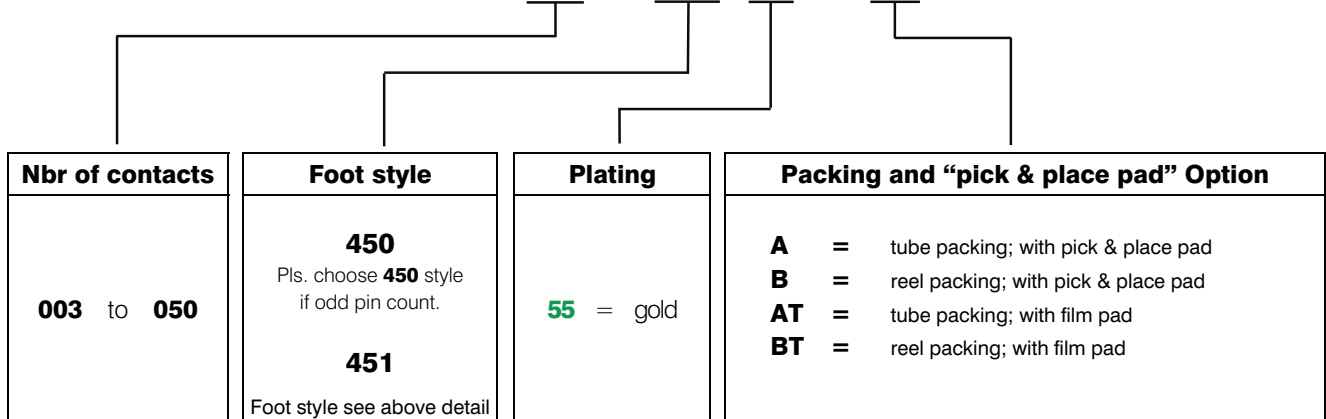


SPECIFICATIONS

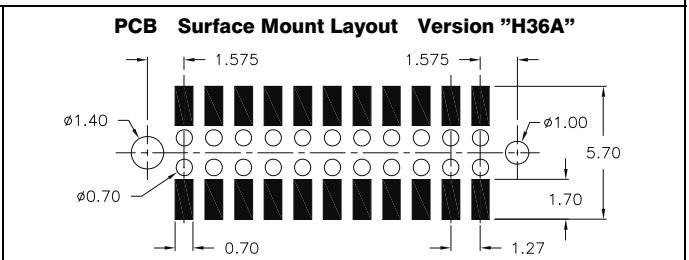
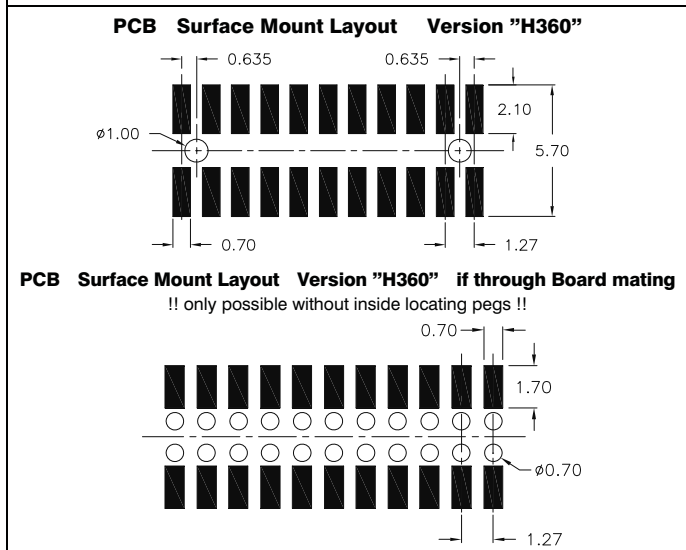
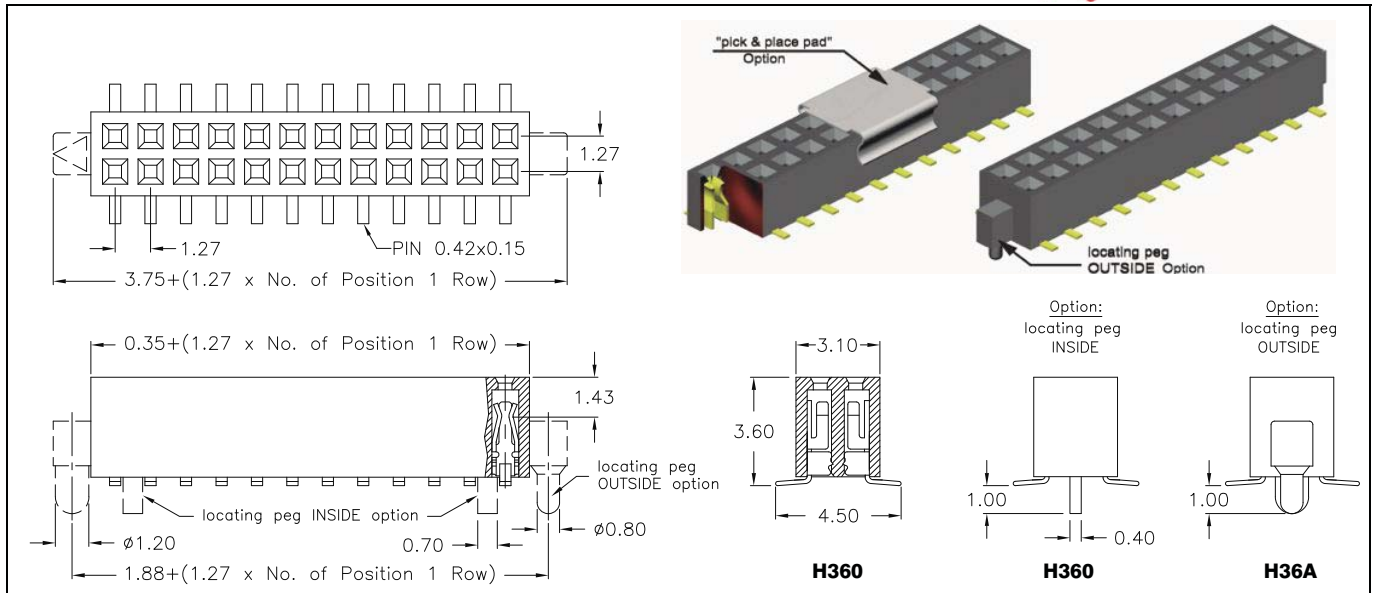
Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature	+250°C +0/-5°C for 10sec.
Contact resistance	20 mΩ max.	Contact material (RoHS compliant)	Phosphor Bronze
Withstanding voltage	500 V AC	Insulator material (RoHS compliant)	LCP UL 94 V-0

How to order

BS 1 - xxx - H xxx - 55 /11 XX



1.27mm pitch Female Header
 - SMT - dual row 3.60mm profile



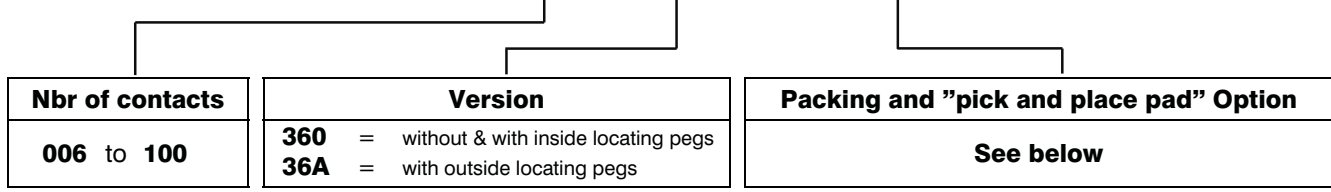
APPLICATION AND FEATURES

- **Standard: tube packing without locating pegs**
- Also available with "pick & place pad" for automatic suck assembly to the PCB
- Low profile, 3.60mm height Type. Hi-rel dual beam contacts.
- Mating with 1.27mm x 1.27mm pitch, 0.40mm square pin headers.
- Through Board mating possible

SPECIFICATIONS			
Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature	+250°C +0/-5°C for 10sec.
Contact resistance	20 mΩ max.	Contact material	(RoHS compliant) Phosphor Bronze
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) LCP UL 94 V-0

How to order

BS2 - xxx - H xxx - 55 / 11 X



Order Code Options:

without "locating pegs"	with "locating pegs"
BS2-xxx-H360-55/11 = tube packing; w/o pick & place pad	BS2-xxx-H360-55/11C = tube packing; w/o pick & place pad
BS2-xxx-H360-55/11A = tube packing; with pick & place pad	BS2-xxx-H360-55/11D = tube packing; with pick & place pad
BS2-xxx-H360-55/11B = reel packing; with pick & place pad	BS2-xxx-H36A-55/11D = tube packing; with pick & place pad
	BS2-xxx-H360-55/11E = reel packing; with pick & place pad
	BS2-xxx-H36A-55/11E = reel packing; with pick & place pad

1.27mm pitch Female Header - SMT-
single row 2.10 & 2.20mm profile



<p>Top entry</p>		<p>Bottom entry</p>																	
<p>Foot style T220</p>		<p>T221</p>																	
<p>Foot style B210</p>		<p>B211</p>																	
<p>PCB Surface Mount & Hole Layout</p>		<p>PCB Surface Mount & Hole Layout</p>																	
<p>Foot style: T220</p>		<p>Foot style: B210</p>																	
<p>Foot style: T221</p>		<p>Foot style: B211</p>																	
<p>APPLICATION AND FEATURES</p> <p>Standard: tube packing, without "pick & place pad"</p> <ul style="list-style-type: none"> Also available "reel" packing. Low profile, 2.10 & 2.20mm height. Hi-rel dual beam contacts. Mating with 1.27mm pitch 0.40mm square or round pin headers. Designed for board to board small spacing interconnection. 		<p>SPECIFICATIONS</p> <table border="0"> <tr> <td>Current rating</td> <td>1 A</td> </tr> <tr> <td>Insulator resistance</td> <td>1000 MΩ min</td> </tr> <tr> <td>Contact resistance</td> <td>20 mΩ max.</td> </tr> <tr> <td>Withstanding voltage</td> <td>500 V AC</td> </tr> <tr> <td>Operating temperature</td> <td>-40°C to +105°C</td> </tr> <tr> <td>Processing temperature</td> <td>+250°C +0/-5°C for 10sec.</td> </tr> <tr> <td>Contact material</td> <td>(RoHS compliant) Phosphor Bronze</td> </tr> <tr> <td>Insulator material</td> <td>(RoHS compliant) Nylon UL 94 V-0</td> </tr> </table>		Current rating	1 A	Insulator resistance	1000 MΩ min	Contact resistance	20 mΩ max.	Withstanding voltage	500 V AC	Operating temperature	-40°C to +105°C	Processing temperature	+250°C +0/-5°C for 10sec.	Contact material	(RoHS compliant) Phosphor Bronze	Insulator material	(RoHS compliant) Nylon UL 94 V-0
Current rating	1 A																		
Insulator resistance	1000 MΩ min																		
Contact resistance	20 mΩ max.																		
Withstanding voltage	500 V AC																		
Operating temperature	-40°C to +105°C																		
Processing temperature	+250°C +0/-5°C for 10sec.																		
Contact material	(RoHS compliant) Phosphor Bronze																		
Insulator material	(RoHS compliant) Nylon UL 94 V-0																		

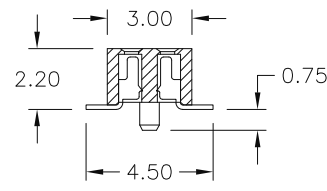
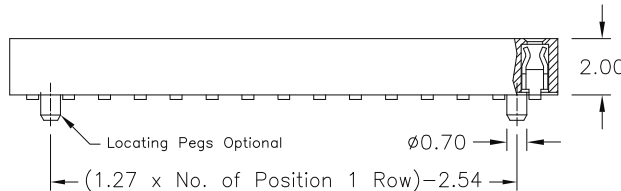
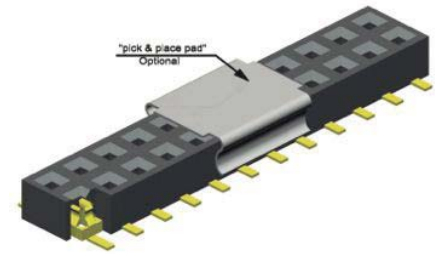
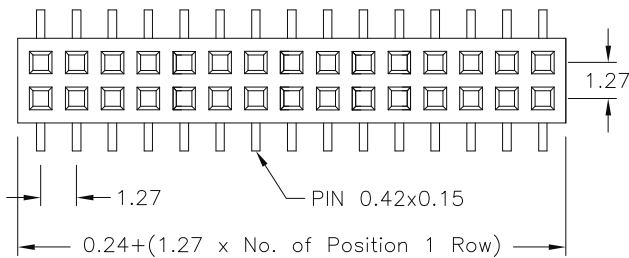
How to order

BS1 - xxx - X 2xx - 55 / 11 XX

Nbr of contacts	Version	Plating	Packing and "pick & place pad" Option
Top Entry (T22x) 003 to 040	Top Entry T 220 ; T 221	55 = gold	A = tube packing; with pick & place pad B = reel packing; with pick & place pad AT = tube packing; with film pad BT = reel packing; with film pad
Bottom Entry(B21x) 003 to 050	Bottom Entry B 210 ; B 211		
	Pls. choose T220 or B210 style if odd pin count.		
	Foot style see above detail		

When using this female connector as a bottom entry connector, we recommend that the pinheader pins protrude by around 2.00mm above the surface of the female connector after assembly. This will avoid any risk of separation of the pinheader from the female header during shock and vibration.

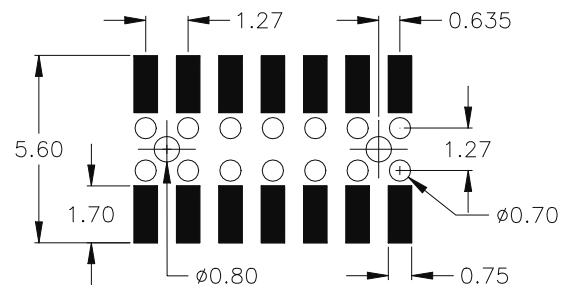
1.27mm pitch Female Header - SMT-
Top & Bottom Entry 2.20mm profile



APPLICATION AND FEATURES

- **Standard:** tube packing, without locating pegs and without "pick & place pad"
- Also available "reel" packing.
- Low profile, 2.20mm height. Hi-rel dual beam contacts.
- Mating with 1.27mm x 1.27mm pitch 0.40mm square or round pin headers.
- Designed for board to board small spacing interconnection.

PCB Surface Mount & Hole Layout



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	-40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	Nylon UL 94 V-0

How to order

BS2 - xxx - TB 22 - 55 / 11 X

Nbr of contacts
006 to 080

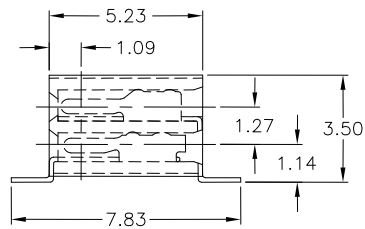
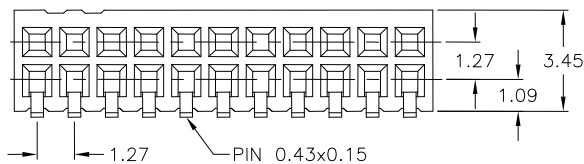
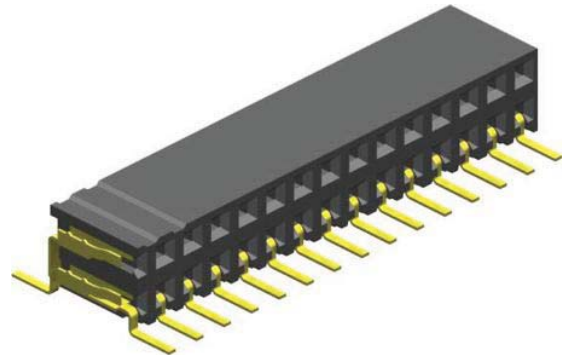
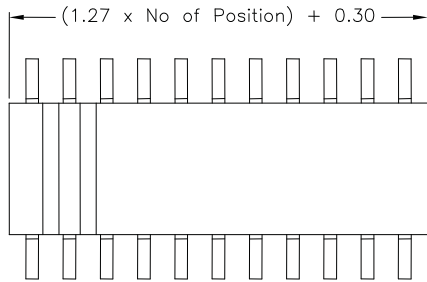
Plating
55 = gold

Packing and "pick & place pad" Option	
without "locating pegs"	
A	= tube packing; with pick & place pad
B	= reel packing; with pick & place pad
with "locating pegs"	
C	= tube packing; without pick & place pad
D	= tube packing; with pick & place pad
E	= reel packing; with pick & place pad

When using this female connector as a bottom entry connector, we recommend that the pinheader pins protrude by around 2.00mm above the surface of the female connector after assembly. This will avoid any risk of separation of the pinheader from the female header during shock and vibration.

1.27mm pitch Female Header

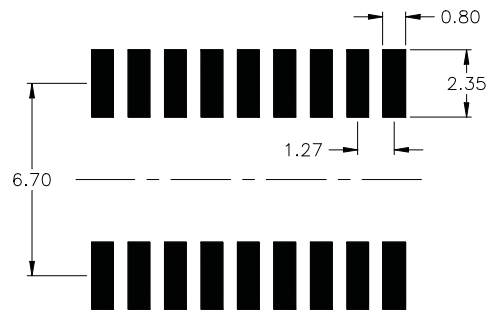
- SMT- side entry



APPLICATION AND FEATURES

- **Standard: tube packing**
- Hi-rel dual beam contact assures reliable PC-Board connections
- Accepts 0.40mm square pins; Pin Header 1.27mm x1.27 mm
- 3.50mm height above board
- Automatic assembly to PCB possible

PCB Surface Mount Layout



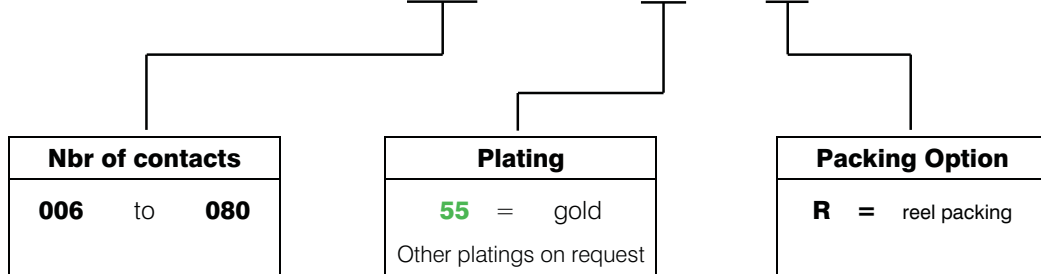
SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) Nylon 6T UL 94 V-0

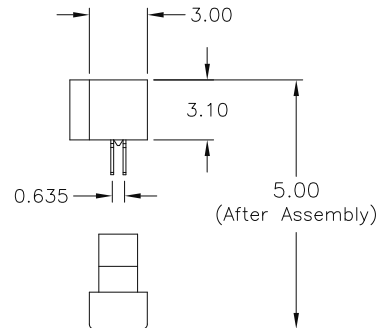
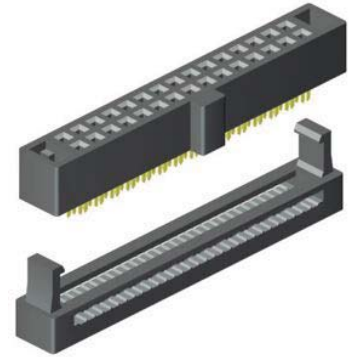
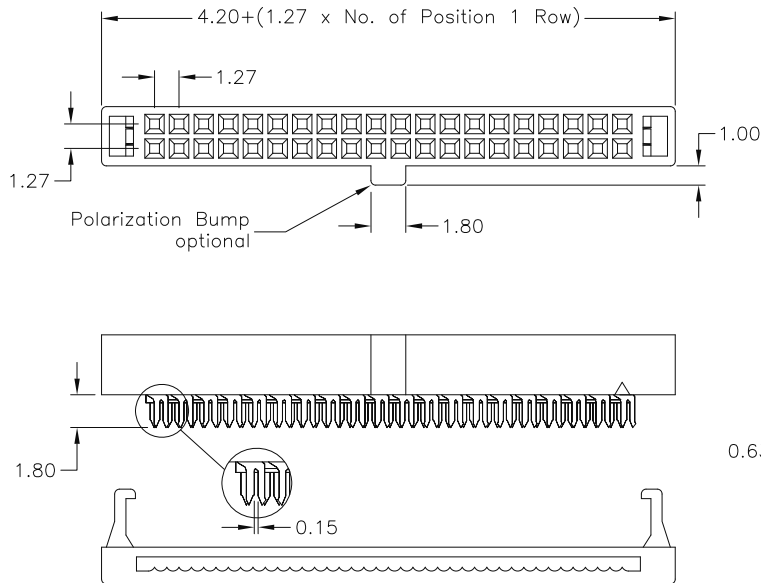
How to order

BS 2 - xxx - R 345 - 55 / 11 X



1.27mm pitch

IDC – Female Connector



SPECIFICATIONS

Current rating	0.5 A	Operating temperature	- 40°C to +105°C
Contact resistance	30 mΩ max.	Contact material	(RoHS compliant) Phosphor Bronze
Insulation resistance	1000 MΩ min.	Insulator material	(RoHS compliant) P.B.T. black UL 94 V-0
Withstanding voltage	250 V AC		

APPLICATION AND FEATURES

Designed to mate with 0.40mm square pins, box (shrouded) header type
 SLS – xxx – X 510 – 55/11
 High Quality dual beam contacts.
 Accepts 30 AWG 0.635mm pitch flat ribbon cable.

How to order

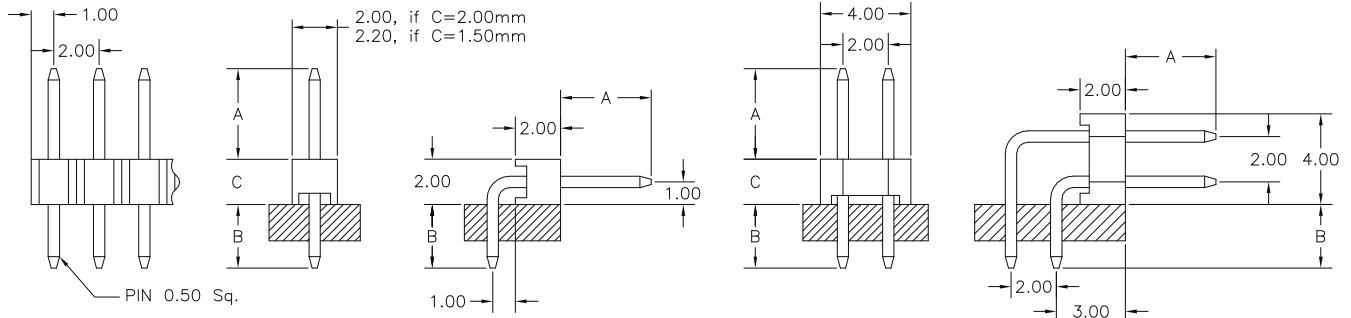
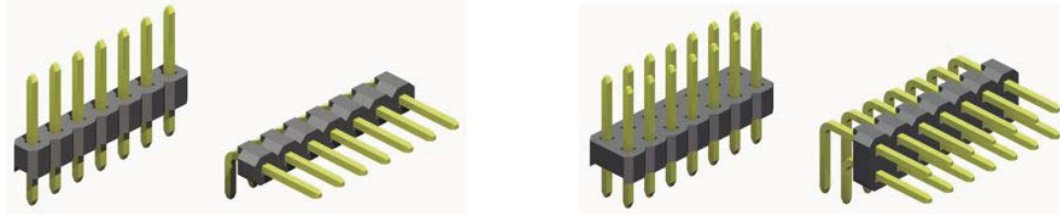
IDS - xxx - W 050 - 55 / P

Nbr of contacts
006; 008; 010; 012
014; 016; 020; 022
024; 026; 030; 034
036; 040; 044; 050
060; 064; 068; 080

Plating
55 = gold

Option
P
if Polarization bump is requested.

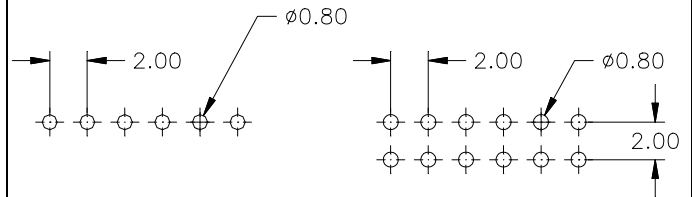
2.00mm pitch Pin Header
- THT - straight & right angle



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) P.B.T. or Nylon UL 94 V-0
	Standard : P.B.T.

PCB Hole Layout



APPLICATION AND FEATURES

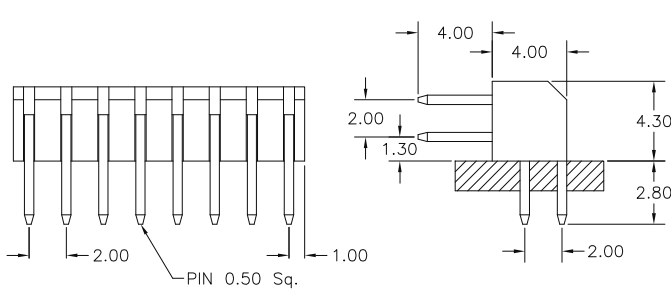
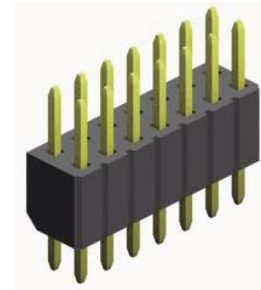
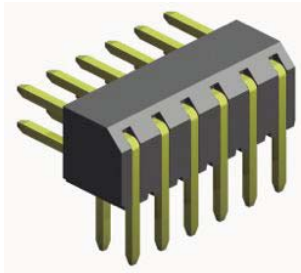
Side and end stackable.
Variable terminal lengths as well as two insulator thicknesses available for the straight type.
Notches for easy breaking.
Straight type with standoff's for post solder cleaning.

How to order

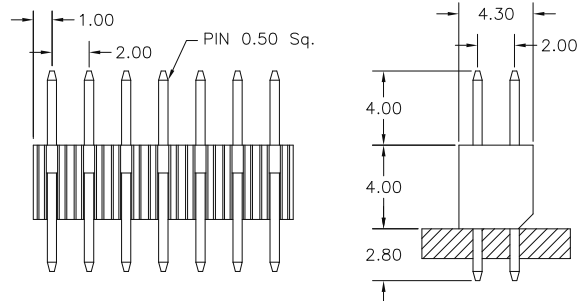
SL x - xxx - X xxx/xx - 55 /2

Rows	Nbr of pins	Insulator style	DIM "C"	Code	Pin code	DIM "A"	DIM "B"	Plating
1 = single row	002 to 040	straight	2.00 mm	S = P.B.T.	088/01	4.00 mm	2.80 mm	55 = gold (standard) 99 = tin (leadfree tin) Other platings on request
				N = Nylon	088/02	6.00 mm	2.80 mm	
088/03	6.80 mm		3.00 mm					
088/04	4.00 mm		4.00 mm					
2 = dual row	004 to 080	1.50 mm	2.00 mm	B = Nylon	088/05	3.70 mm	5.00 mm	
					096/00	4.00 mm	2.80 mm	
					096/01	6.00 mm	2.10 mm	
					096/02	4.50 mm	4.00 mm	
					096/03	1.70 mm	8.80 mm	
					096/04	4.00 mm	2.30 mm	
					096/05	3.20 mm	3.50 mm	
					096/06	4.00 mm	4.00 mm	
					096/07	7.00 mm	2.20 mm	
					096/08	3.60 mm	3.00 mm	
					096/09	21.00 mm	2.54 mm	
					096/10	5.10 mm	3.00 mm	
		right angle	2.00 mm	R = P.B.T. K = Nylon	106/00	3.20 mm	3.20 mm	
					106/01	4.00 mm	2.80 mm	
					106/02	10.00 mm	2.80 mm	
					106/03	11.00 mm	2.80 mm	
					106/04	2.50 mm	2.80 mm	
					106/05	5.00 mm	2.80 mm	
					106/06	11.00 mm	2.40 mm	
		106/07	6.00 mm	2.80 mm				
					Other dimensions on request			

2.00mm pitch Pin Header
 - THT - high plastic base



R430

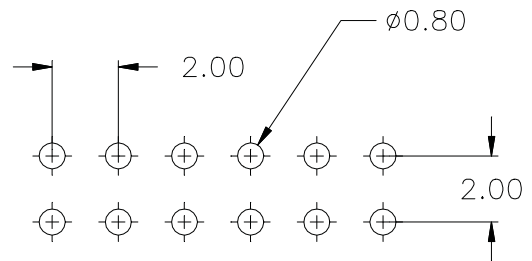


S400

SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material <i>(RoHS compliant)</i>	Copper alloy
Insulator material <i>(RoHS compliant)</i>	Nylon UL 94 V-0

PCB Hole Layout



APPLICATION AND FEATURES

- Side stackable
- Mate with 2.00 mm pitch female and shunt connector
- Standoff's facilitate post solder cleaning

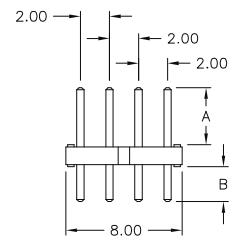
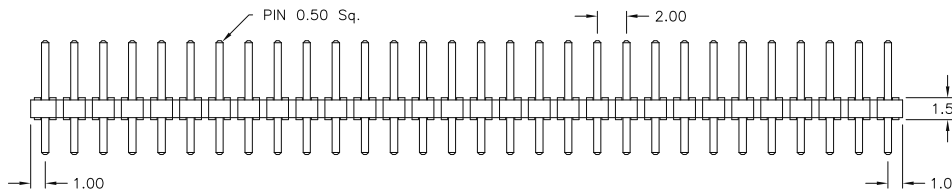
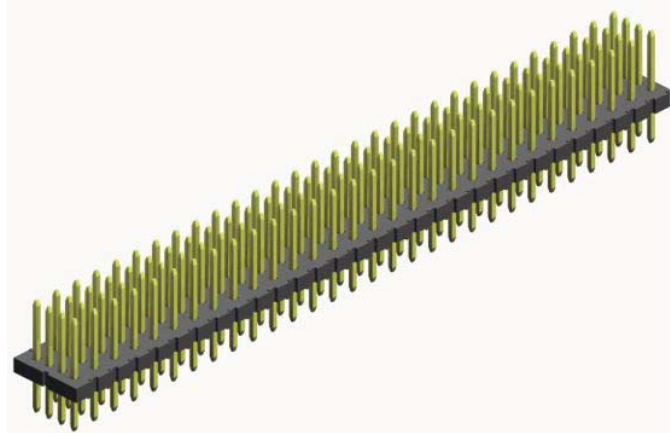
How to order

SE 2 - xxx - X xxx - xx / 2

Nbr of pins
004 to 080

Pin style
S400 = straight
R430 = right angle

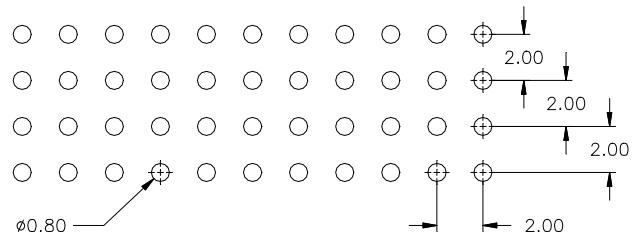
Plating
55 = gold
95 = tin/gold <i>(tin leadfree)</i>
Other platings on request



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Hole Layout



APPLICATION AND FEATURES

Designed for “board to board” small spacing interconnection.

Variable terminal length available.

With standoff’s for post solder cleaning.

Mate with female header BL4 – xxx – S630/ x – xx/2

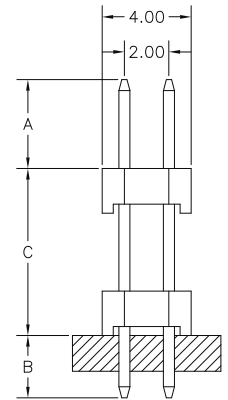
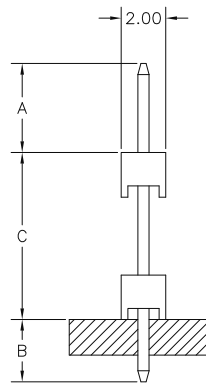
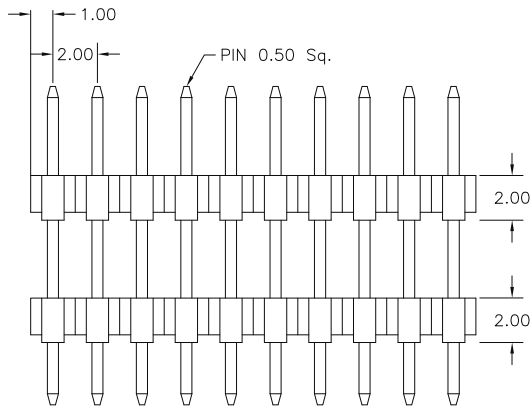
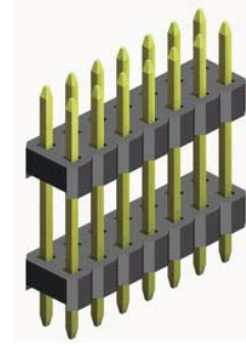
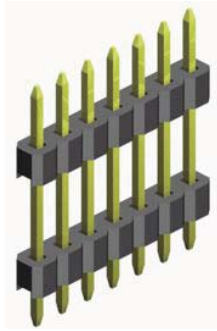
How to order

SL4 - xxx – S xxx/x - 55 /2

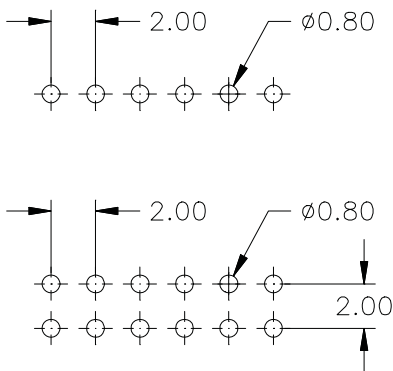
Nbr of pins
012 to 120

Pin code	DIM “A”	DIM “B”
830/0	4.40 mm	2.40 mm
830/1	8.60 mm	3.60 mm
830/2	3.20 mm	3.50 mm
830/3	12.00 mm	2.40 mm
830/4	7.40 mm	2.70 mm
Other dimensions on request		

Plating
55 = gold
Other platings on request



PCB Hole Layout



SPECIFICATIONS

Current rating 1 A
 Insulator resistance 1000 MΩ min.
 Withstanding voltage 500 V AC
 Operating temperature -40°C to +105°C
 Contact material Copper alloy (RoHS compliant)
 Insulator material P.B.T. or Nylon, UL 94 V-0 (RoHS compliant)
 Standard: P.B.T.

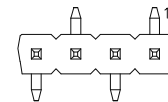
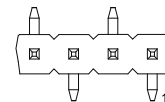
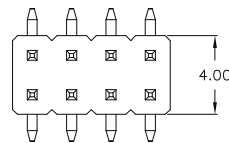
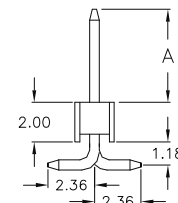
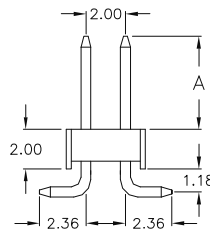
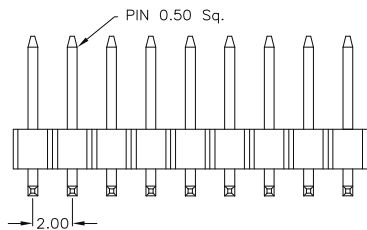
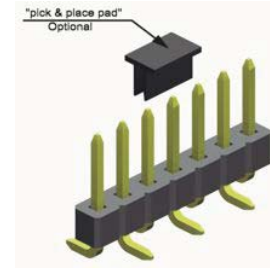
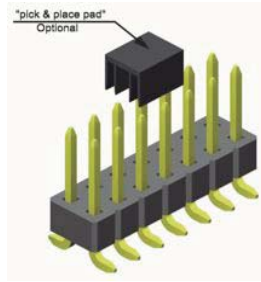
Pin code	DIM "A"	DIM "B"	DIM "C"
143/02	6.80 mm	2.80 mm	4.70 mm
104/01	2.70 mm	2.70 mm	5.00 mm
136/02	5.30 mm	3.20 mm	5.10 mm
191/01	9.30 mm	4.30 mm	5.50 mm
117/01	2.80 mm	2.80 mm	6.10 mm
143/01	4.00 mm	2.80 mm	7.50 mm
143/03	2.40 mm	3.90 mm	8.00 mm
150/01	4.00 mm	2.50 mm	8.50 mm
163/01	4.00 mm	2.80 mm	9.50 mm
180/03	5.00 mm	3.00 mm	10.00 mm
170/01	3.00 mm	3.00 mm	11.00 mm
180/02	3.00 mm	3.00 mm	12.00 mm
210/01	6.00 mm	3.00 mm	12.00 mm
260/04	9.00 mm	4.00 mm	13.00 mm
220/01	4.00 mm	2.80 mm	15.25 mm
252/02	5.20 mm	4.20 mm	15.80 mm
300/03	10.00 mm	3.00 mm	17.00 mm
225/01	2.50 mm	2.50 mm	17.50 mm
270/02	4.00 mm	3.00 mm	20.00 mm
410/01	9.00 mm	4.00 mm	28.00 mm
432/01	3.20 mm	3.20 mm	36.80 mm

Other dimensions on request

How to order

SP x - xxx - X xxx/xx - 55 /2

Rows	Nbr of pins	Insulator	Pin code	Plating
1 = single row	002 to 040	S = P.B.T. N = Nylon	dimension and others see above table	55 = gold Other platings on request
2 = dual row	004 to 080	Nylon processing temp.: +250°C +0/-5°C for 5sec.		



Foot style:

085

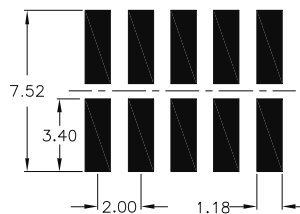
085

185

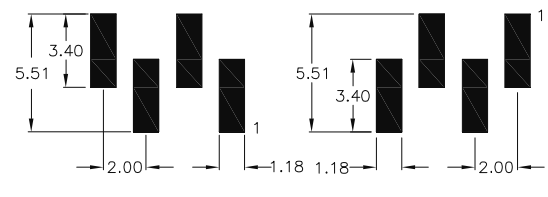
APPLICATION AND FEATURES

- **Standard: tube packing and without "pick & place pad"**
- Low Profile Insulator
- Assures reliable PC Board connections
- Mate with female header 2.00mm x 2.00mm pitch

PCB Surface Mount Layout



Foot style: **085** (dual row)



085 (single row)

185 (single row)

SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C ±0/-5°C for 5sec.
Contact material	(RoHS compliant) Brass
Insulator material	(RoHS compliant) Nylon UL 94 V-0

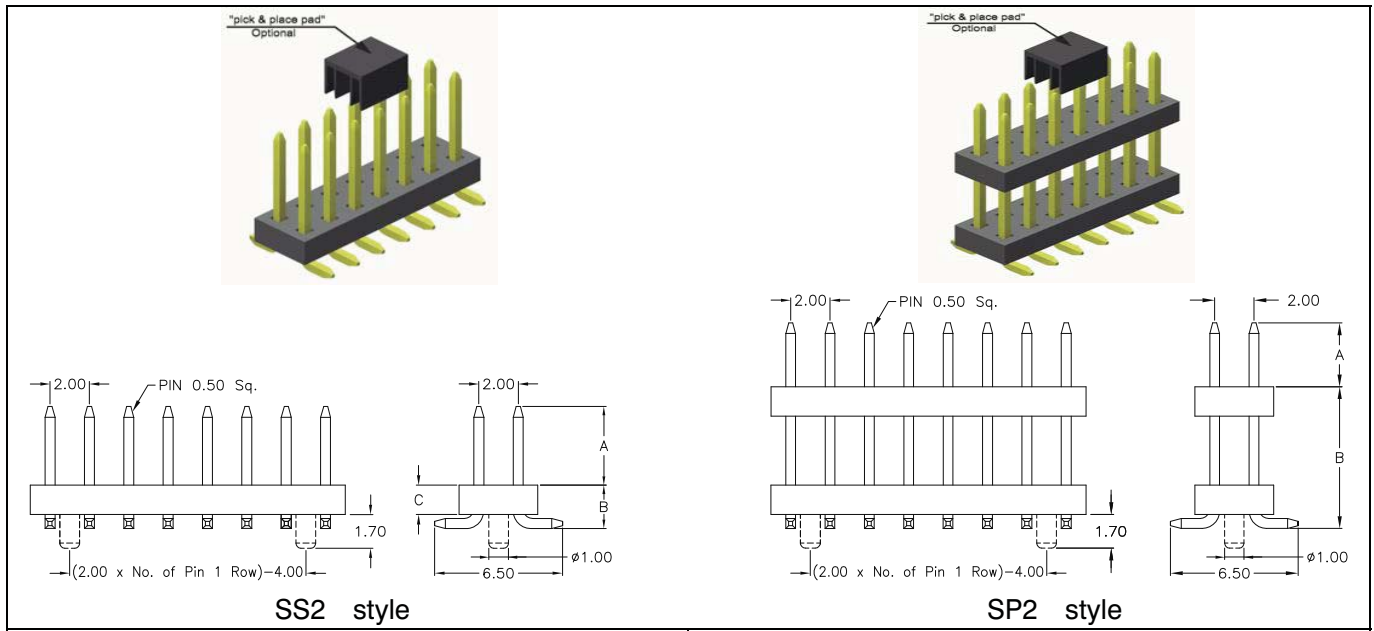
How to order

SS x - xxx - H xxx / x - 55 / 2 X

Rows	Nbr of pins	Foot style	Pin code	DIM "A"	Plating	Packing and "pick & place pad" Option
1 single row	002 to 040	085 185 <small>Pls. choose 085 style if odd pin count.</small>	0	4.73 mm	55 = gold	A = tube packing; with pick & place pad
			1	6.00 mm		
2 dual row	004 to 080	085	2	13.57 mm	Other platings on request	B = reel packing; with pick & place pad
			3	6.50 mm		
			4	8.07 mm		
			5	7.62 mm		
			6	9.10 mm		
			7	10.00 mm		

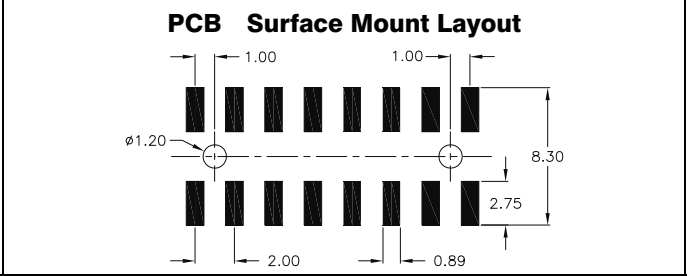
2.00mm pitch

- SMT - Pin Header & Board Spacer



APPLICATION AND FEATURES

- **Standard: tube packing, without "locating pegs" and "pick & place pad"**
- Designed for "board to board" spacing
- Variable terminal length available
- Mate with female header 2.00mm x 2.00mm pitch



SPECIFICATIONS

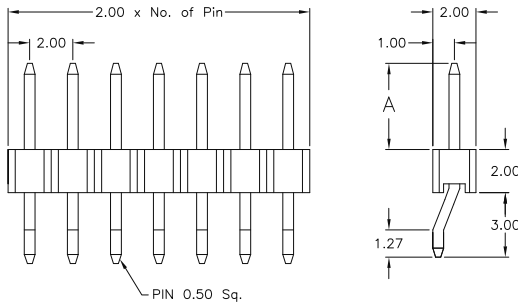
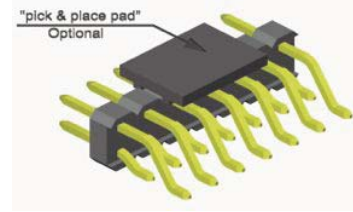
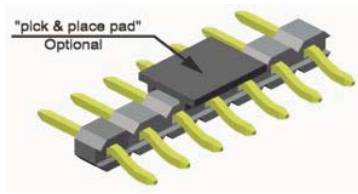
Current rating	1 A	Processing temperature	+250°C +0/-5°C
Insulator resistance	1000 MΩ min.		SS2 Style = 250°C for 10sec.
Withstanding voltage	500 V AC		SP2 Style = 250°C for 5sec.
Operating temperature	-40°C to +105°C	Contact material (RoHS compliant)	Copper alloy
		Insulator material (RoHS compliant)	Nylon UL 94 V-0

How to order
S X 2 - xxx - H xxx/x - 55 /2 X

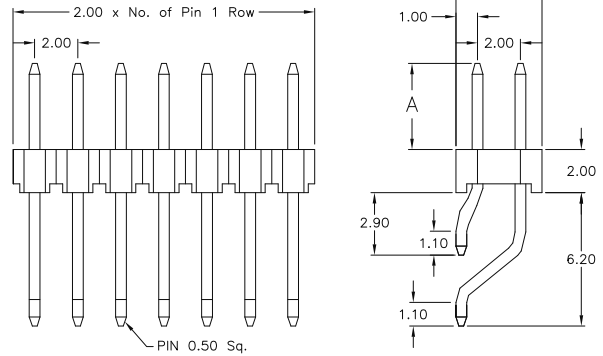
Pin style	Nbr of pins	Pin code	DIM "A"	DIM "B"	DIM "C"	Plating	Packing and "pick & place pad" Option
S Low Profile	006 to 050	064/0	6.00 mm	2.20 mm	1.50 mm	55 = gold Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad with "locating pegs" (if DIM "C" = 1.50mm only) C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad
		064/1	4.00 mm	2.20 mm	1.50 mm		
		064/2	3.50 mm	2.70 mm	2.00 mm		
		064/3	5.80 mm	2.20 mm	1.50 mm		
		064/4	3.20 mm	2.20 mm	1.50 mm		
		064/5	3.60 mm	2.20 mm	1.50 mm		
		064/6	4.00 mm	2.70 mm	2.00 mm		
		064/7	13.50 mm	2.65 mm	2.00 mm		
		064/8	9.50 mm	2.20 mm	1.50 mm		
		064/9	8.00 mm	2.20 mm	1.50 mm		
P Board Spacer	006 to 050	065/0	6.00 mm	6.00 mm			
		065/A	5.40 mm	7.00 mm			
		065/4	3.90 mm	8.00 mm			
		065/7	7.50 mm	8.50 mm			
		065/1	6.00 mm	10.00 mm			
		065/2	6.00 mm	12.00 mm			
		065/6	9.50 mm	12.00 mm			
		065/9	5.00 mm	12.30 mm			
		065/8	4.65 mm	12.70 mm			
		065/3	4.00 mm	13.33 mm			
		065/B	4.50 mm	16.00 mm			
		065/5	4.50 mm	17.00 mm			
Other dimensions on request							

2.00mm pitch Pin Header - slanted -

- SMT - single and dual row

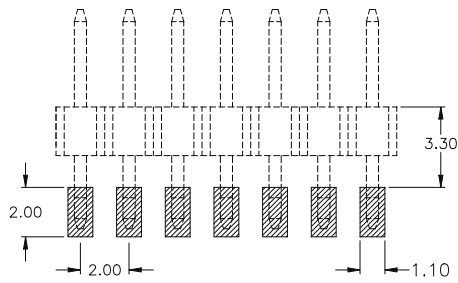


SR1 style

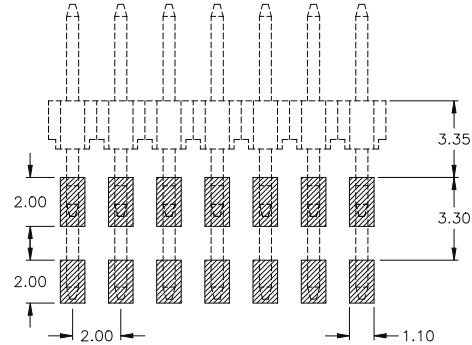


SR2 style

PCB Surface Mount Layout single row



PCB Surface Mount Layout dual row



SPECIFICATIONS

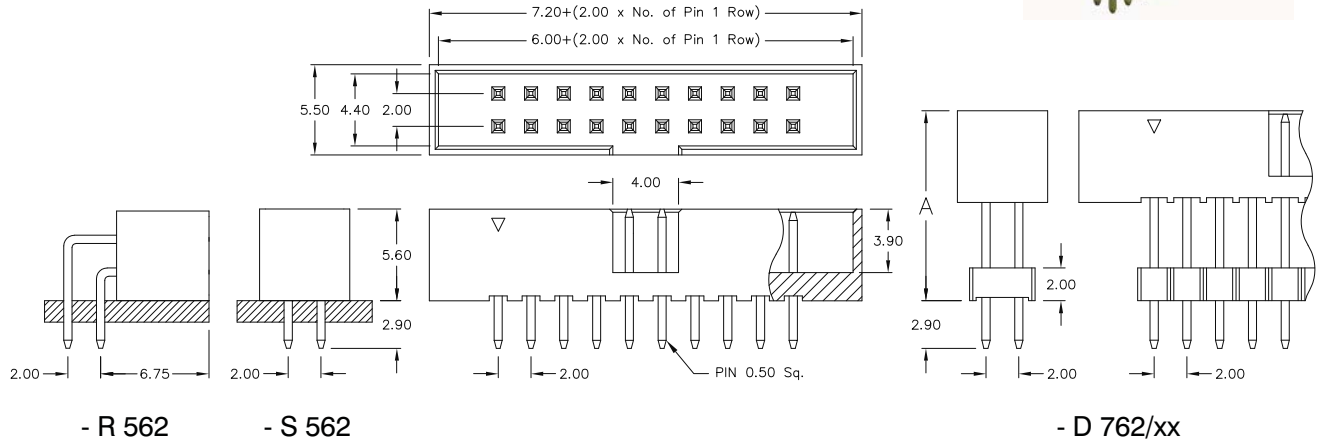
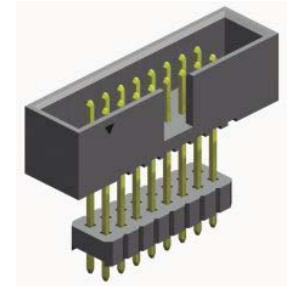
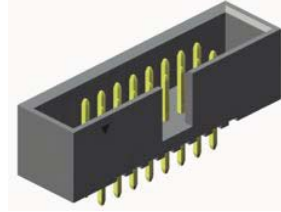
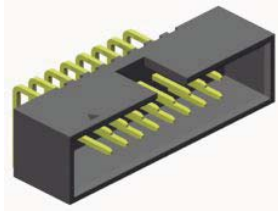
Current rating 1 A
 Insulator resistance 1000 MΩ min.
 Withstanding voltage 500 V AC

Operating temperature - 40°C to +105°C
 Processing temperature +250°C +0/-5°C for 10sec.
 Contact material (RoHS compliant) Copper alloy
 Insulator material (RoHS compliant) Nylon UL 94 V-0

How to order

SR x - xxx - H xxx/x - 55 / 2 X

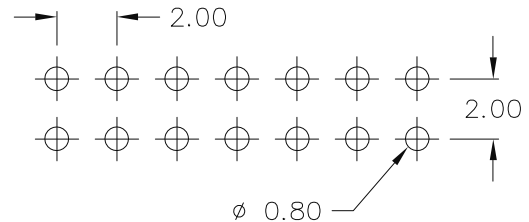
Rows	Nbr of pins	Pin code	DIM "A"	Plating	Packing and "pick & place pad" Option
1 = single row	002 to 040	093 / 0	4.00 mm	55 = gold Other platings on request	A = tube packing; with pick & place pad B = reel packing; with pick & place pad
		093 / 1	4.45 mm		
		093 / 2	3.20 mm		
		093 / 3	6.00 mm		
2 = dual row	004 to 080	122 / 0	4.00 mm		
		122 / 1	6.00 mm		



APPLICATION AND FEATURES

- Designed to mate with IDC female connector IDS-xxx-X 200-95/P
- Reliable flat cable to PCB connection
- No ejection latches for space saving

PCB Hole Layout

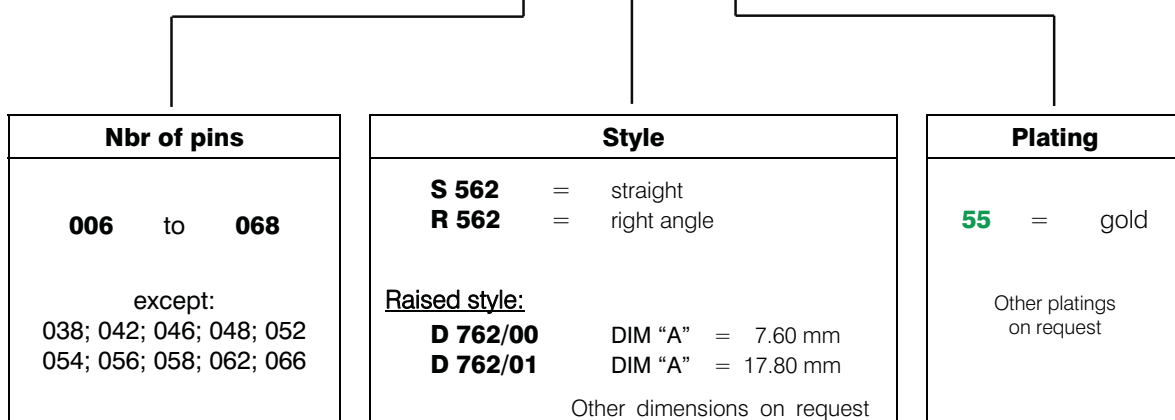


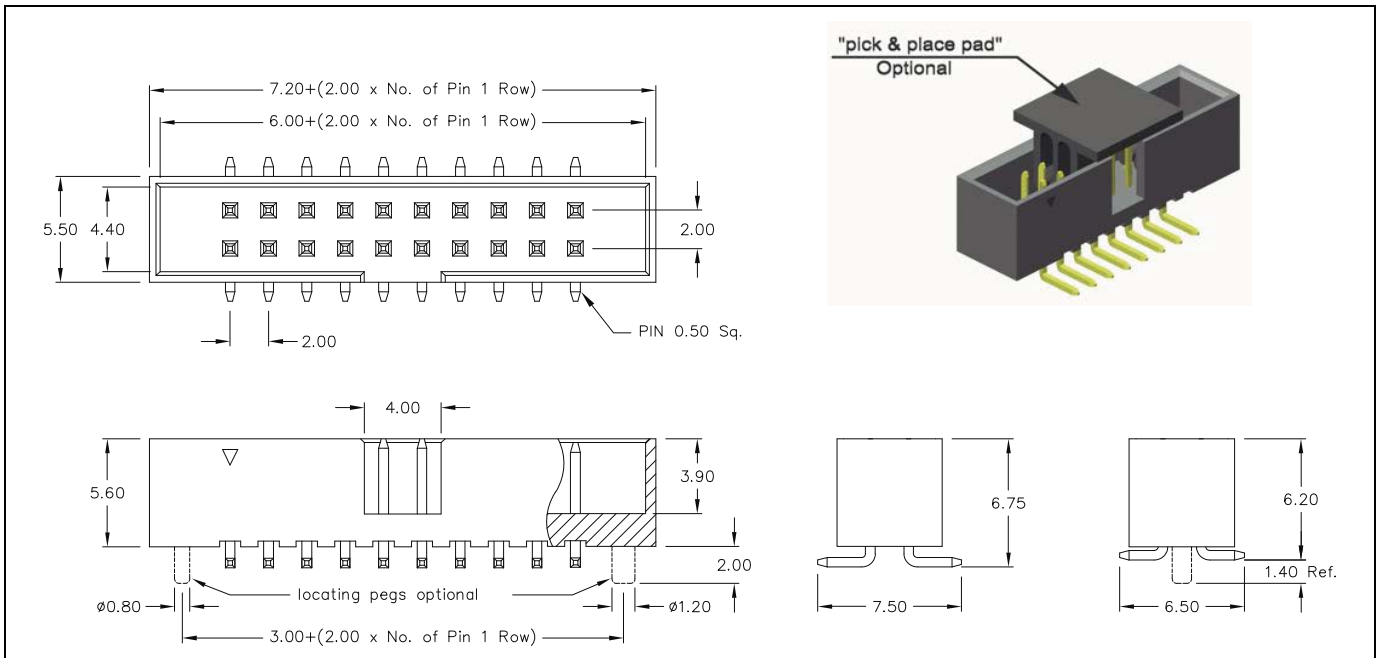
SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 M Ω min.	Contact material	(RoHS compliant) Copper alloy
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) Nylon UL 94 V-0

How to order

SLS - xxx - X xxx - 55 /2

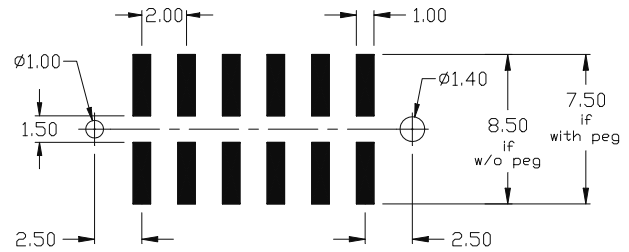




APPLICATION AND FEATURES

- **Standard:**
without locating pegs, tray packing and without "pick & place pad"
- Also available "tape & reel" packing
- Designed to mate with IDC female connector IDS-xxx-X 200-95/P
- Reliable flat cable to PCB connection
- No ejection latches for space saving

PCB Surface Mount Layout



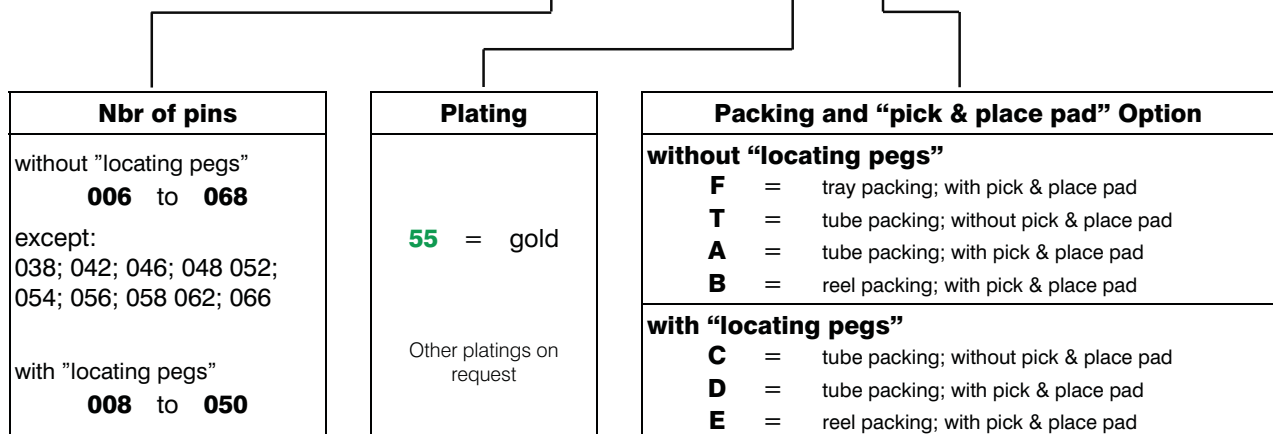
SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material	(RoHS compliant) Copper Alloy
Insulator material	(RoHS compliant) Nylon UL 94 V-0

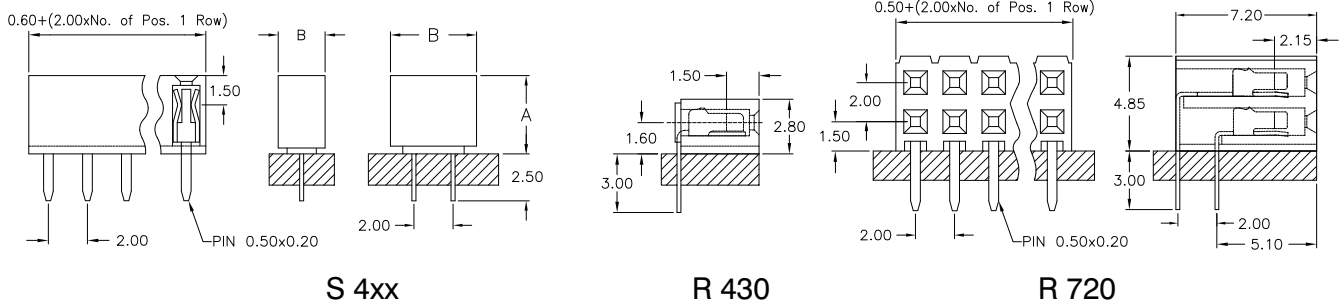
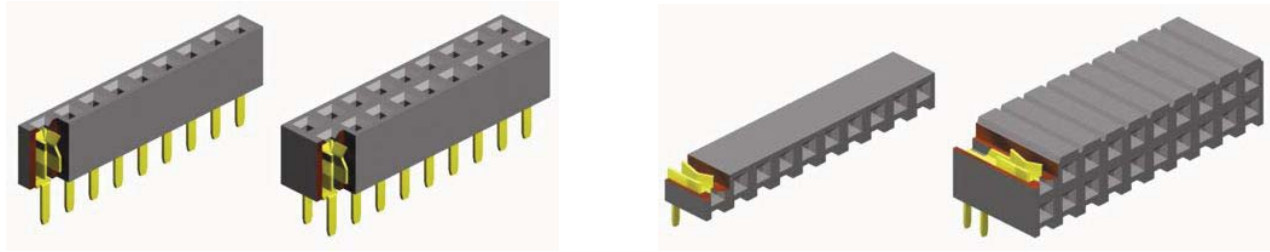
How to order

SLS - xxx - H 562 - 55 / 2 X



2.00mm pitch Female Header

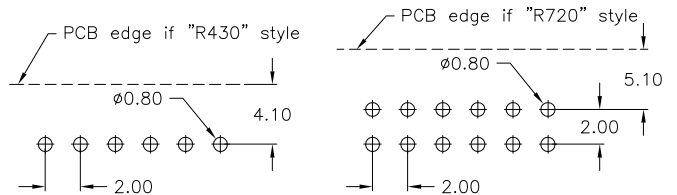
- THT - low profile



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	Nylon UL 94 V-0

PCB Hole Layout



APPLICATION AND FEATURES

Low profile, 4.00mm and 4.30mm height single & dual row straight.
 Designed for board to board small spacing interconnection.
 High quality dual beam contacts mating with 0.50 x 0.50mm Pin Header.

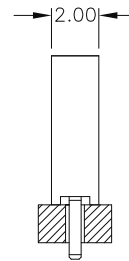
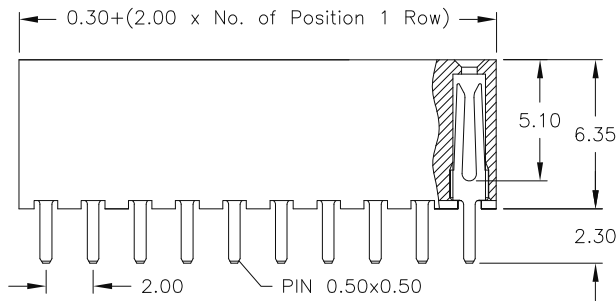
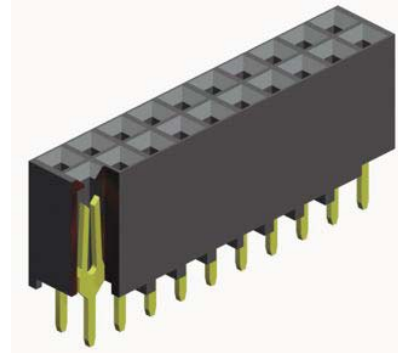
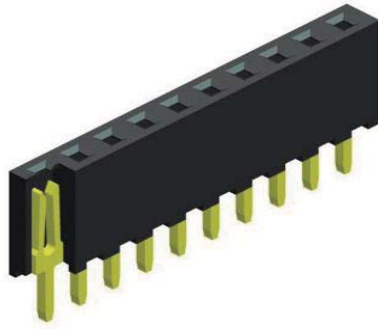
How to order

BL x - xxx - X xxx - 55 /2

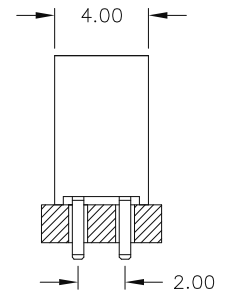
Rows	Nbr of contacts	Version	Plating
1 = single row	S400 & S430 = 002 to 040	S 400 = straight – single row : "A"=4.00 mm "B"=2.20 mm straight – dual row : "A"=4.00 mm "B"=4.20 mm	55 = gold
	R430 = 003 to 025		
2 = dual row	S400 & S430 = 004 to 080	S 430 = straight – single row : "A"=4.30 mm "B"=2.40 mm straight – dual row : "A"=4.30 mm "B"=4.60 mm	
	R720 = 004 to 080		
		R 430 = right angle – single row R 720 = right angle – dual row	

2.00mm pitch Female Header

- THT - 6.35mm profile



single row

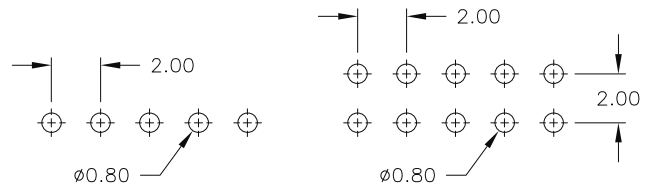


dual row

APPLICATION AND FEATURES

- For board-to-board connections
- Ideal solution for PC/104 Systems
- Accepts 0.50mm square pins
- Hi-rel fork contact design

PCB Hole Layout



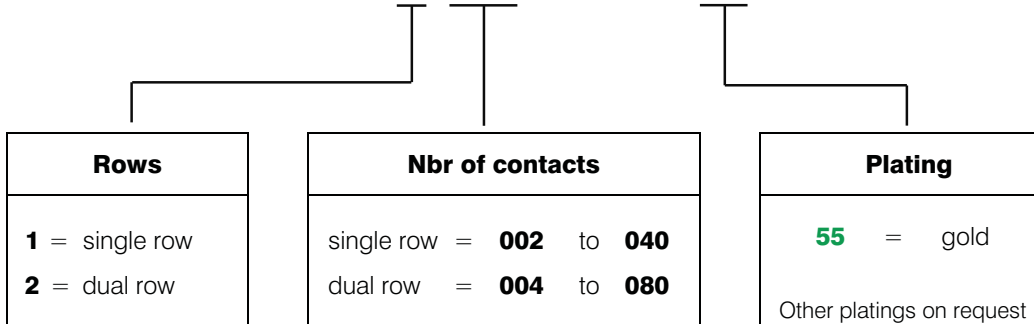
SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper Alloy
Insulator material	(RoHS compliant) LCP UL 94 V-0

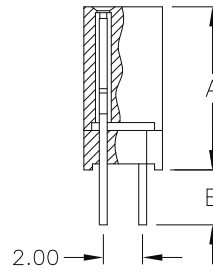
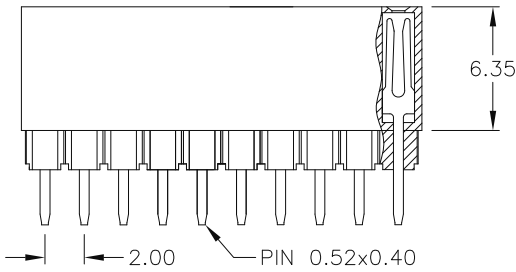
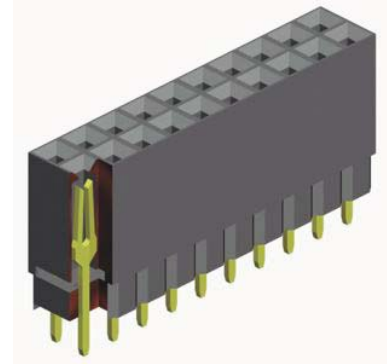
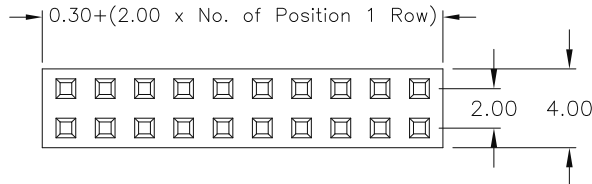
How to order

BL x - xxx - SH635 - 55 /2



2.00mm pitch Female Header

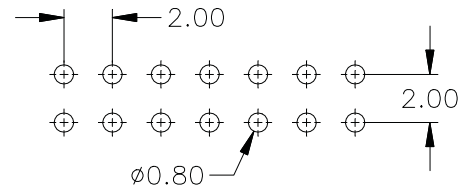
- THT - Elevated



APPLICATION AND FEATURES

- Various heights for board-to-board connections
- Also ideal solution for PC/104 Systems
- Accepts 0.50mm square pins
- Hi-rel fork contact design

PCB Hole Layout



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) Nylon 6T UL 94 V-0

How to order

BE 2 - xxx - S xxx - 55/2

Nbr of contacts
004 to 080

Version	DIM "A" (mm / inch)	DIM "B" (mm / inch)
831	8.30 / .327	3.40 / .134
835	9.40 / .370	2.30 / .090
836	18.20 / .716	3.40 / .134
837	19.30 / .760	2.30 / .090
838	17.70 / .697	2.80 / .110
839	19.00 / .748	2.50 / .098
840	16.40 / .645	5.20 / .205
841	11.00 / .433	10.60 / .417
843	15.50 / .610	3.50 / .138

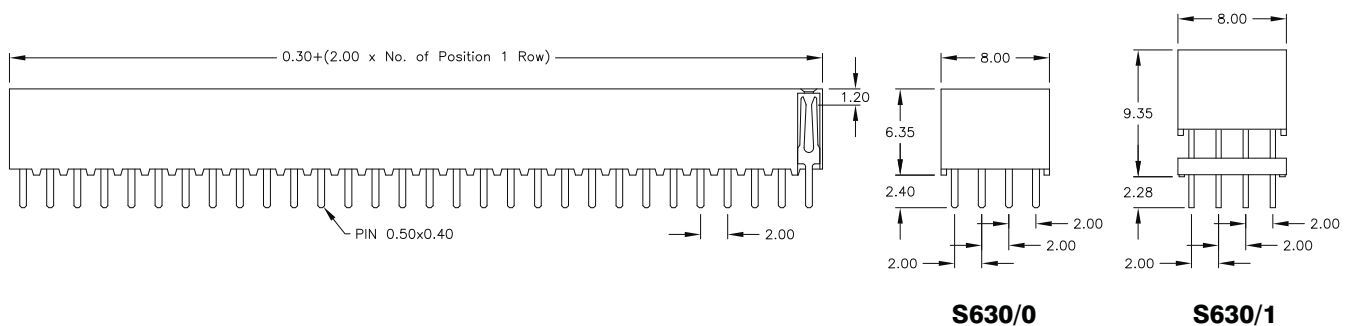
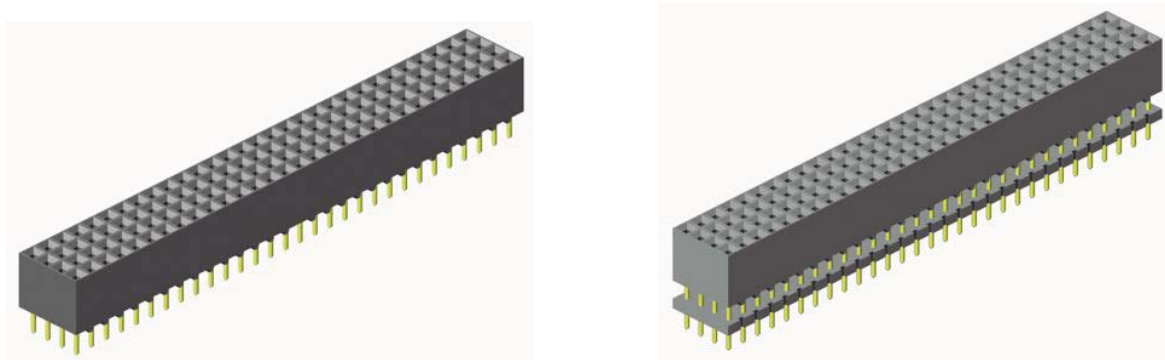
Plating
55 = gold
Other platings on request

Other dimensions on request.

Available as standard:

"A" + "B" = 11.70mm & 21.60mm

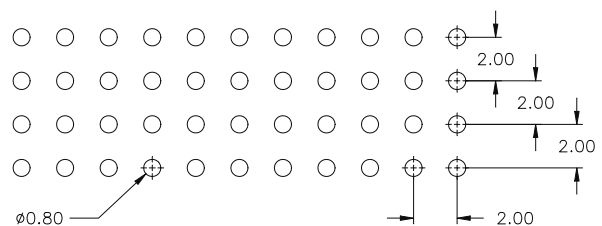
2.00mm pitch Female Header - THT -
 "PC 104+ Type" Quad Row, 120 contacts max.



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) Nylon UL 94 V-0

PCB Hole Layout

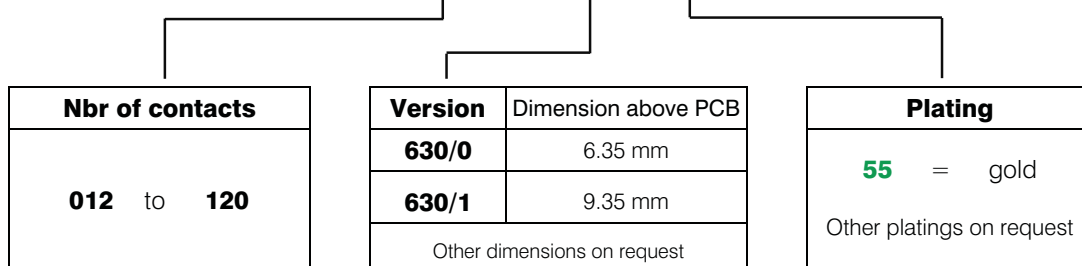


APPLICATION AND FEATURES

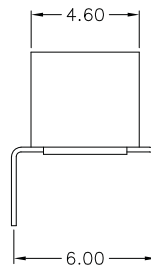
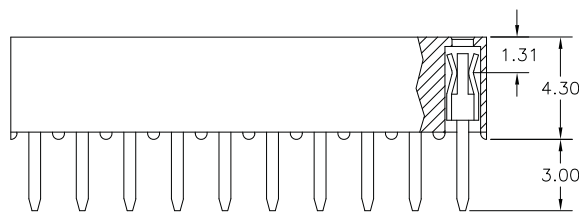
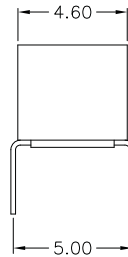
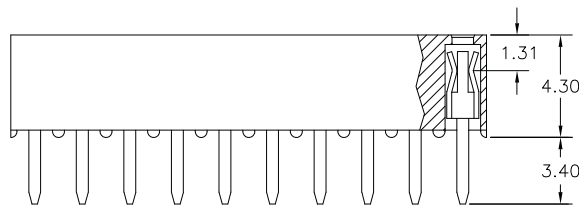
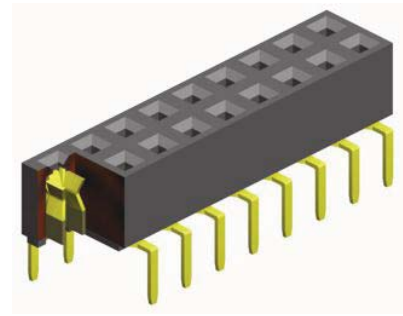
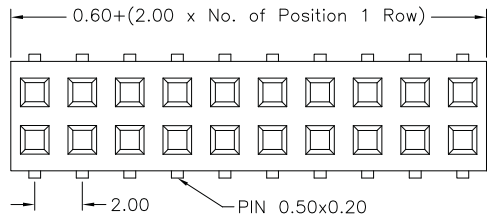
Low and high Profile PC/104-Plus Type
 Designed for "board to board" small spacing interconnection
 With standoff's for post solder cleaning
 Mate with pin header SL4 - xxx - S830/x - xx/2

How to order

BL4 - xxx - S xxx/x - 55 /2



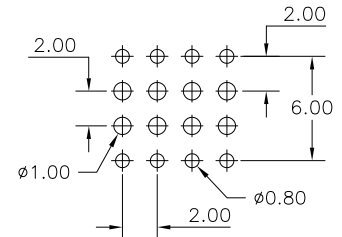
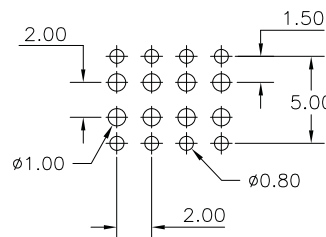
2.00mm pitch Female Header
 - THT - Dual Entry Type



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	Nylon UL 94 V-0

PCB Hole Layout

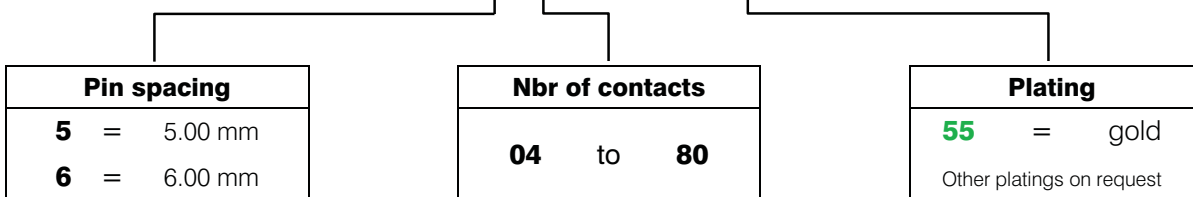


APPLICATION AND FEATURES

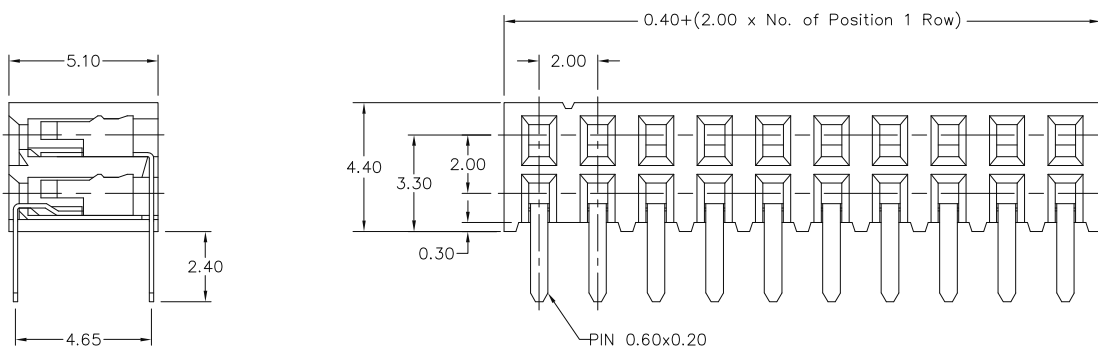
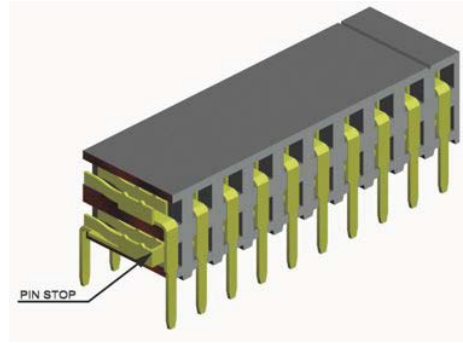
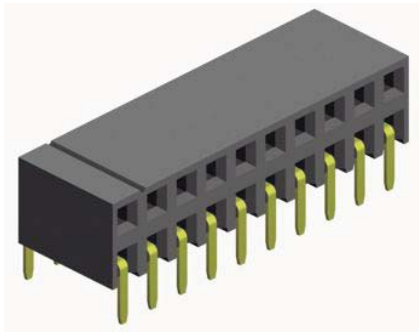
Dual entry low profile 4.30mm height
 Designed for parallel and vertical board stacking
 Dual-beam folded contact and low insertion force, mating with 0.50 x 0.50mm Pin Header

How to order

BB2 - x xx - S430 - 55 /2



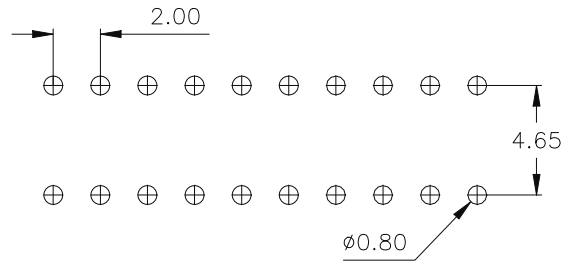
2.00mm pitch Female Header
 - THT - side entry type



APPLICATION AND FEATURES

- Hi-rel dual beam contact assures reliable PC-Board connections
- Accepts 0.50mm square pins
- 4.40mm height above board
- Stand-off's facilitate post solder cleaning

PCB Hole Layout



SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material	(RoHS compliant) Phosphor bronze
Contact resistance	20 mΩ max.	Insulator material	(RoHS compliant) Nylon UL 94 V-0
Withstanding voltage	500 V AC		

How to order

BH 2 - xxx - R 450 - 55 /2

Nbr of contacts

004 to 050

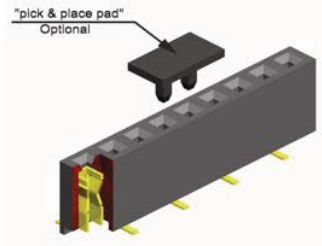
Plating

55 = gold

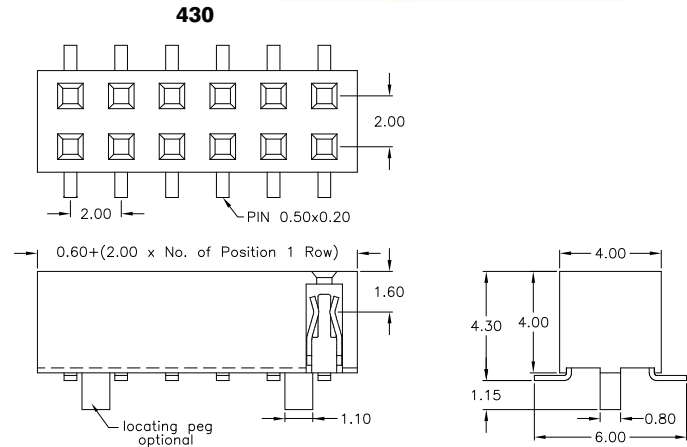
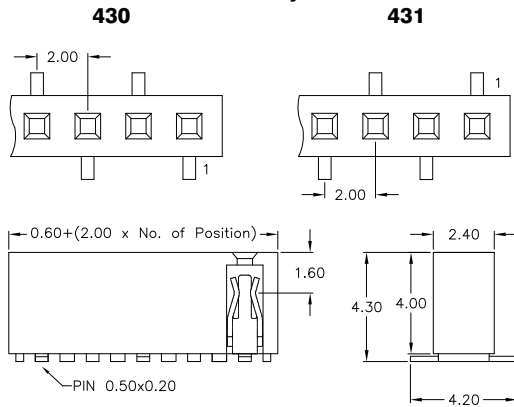
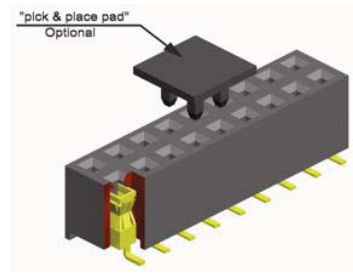
Other platings on request

2.00mm pitch Female Header

- SMT - 4.30mm profile



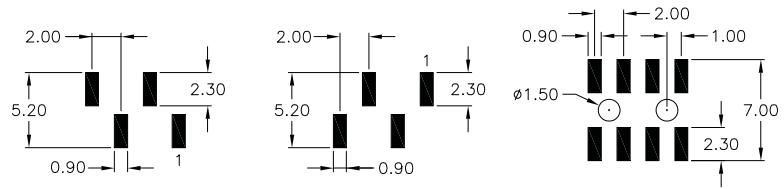
Foot style



APPLICATION AND FEATURES

- **Standard: tube packing and without "pick & place pad"**
- Low profile, 4.30mm height.
- Hi-rel dual beam contacts
- Mating with 2.00mm pitch, 0.50mm square, or round pin headers

PCB Surface Mount Layout



Foot style: 430

431

430

SPECIFICATIONS

Current rating 1 A
 Insulator resistance 1000 MΩ min.
 Contact resistance 20 mΩ max.
 Withstanding voltage 500 V AC

Operating temperature -40°C to +105°C
 Processing temperature +250°C +0/-5°C for 10sec.
 Contact material (RoHS compliant) Phosphor Bronze
 Insulator material (RoHS compliant) Nylon UL 94 V-0

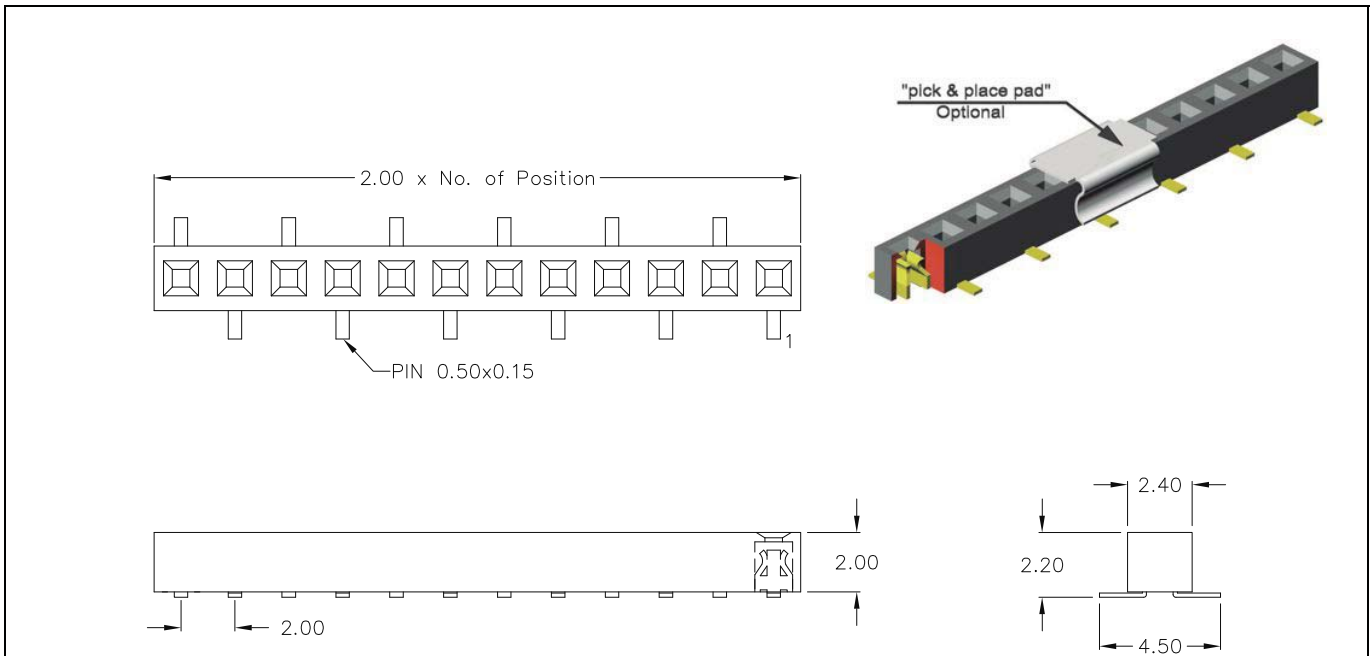
How to order

BS x - xxx - H xxx - 55 / 2 X

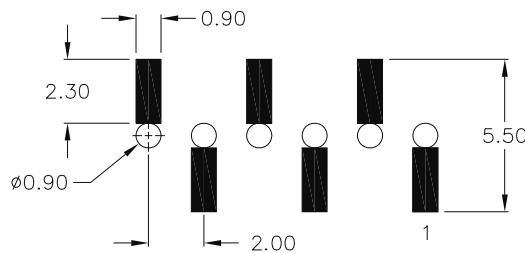
Rows	Nbr of contacts	Foot style	Plating	Packing and "pick & place pad" Option
1 single row	003 to 040	430 (standard) 431 (option) Pls. choose 430 style if odd pin count	55 = gold	A = tube packing; with pick & place pad B = reel packing; with pick & place pad
2 dual row	006 to 080	430	Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad

2.00mm pitch Female Header

- SMT - Top & Bottom Entry 2.20mm profile



PCB Surface Mount & Hole Layout



APPLICATION AND FEATURES

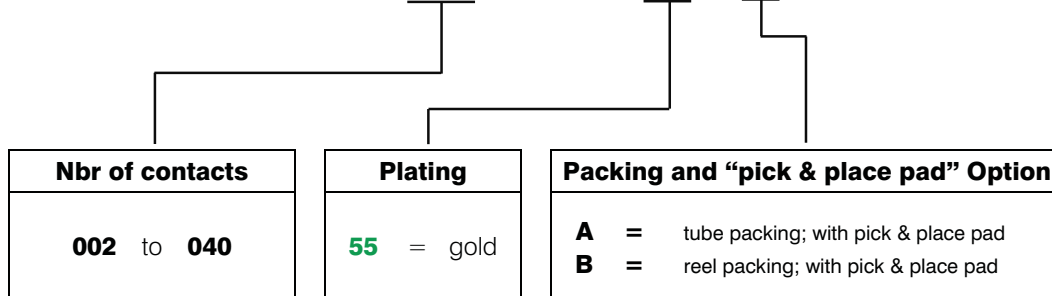
- **Standard: tube packing and without "pick & place pad"**
- Low profile, 2.20mm height above PCB available
- Mating with 2.00mm pitch, 0.50mm square, or round pin headers
- Designed for board to board small spacing interconnection

SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material <i>(RoHS compliant)</i>	Phosphor Bronze
Insulator material <i>(RoHS compliant)</i>	Nylon UL 94 V-0

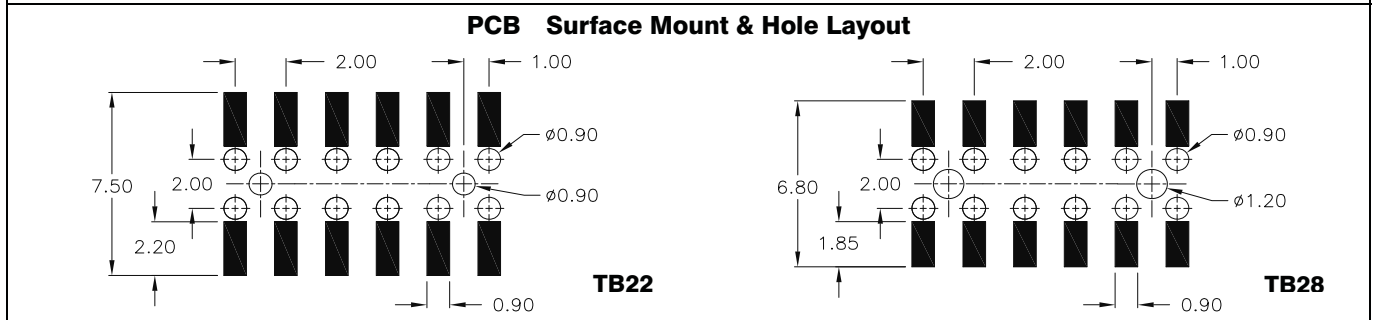
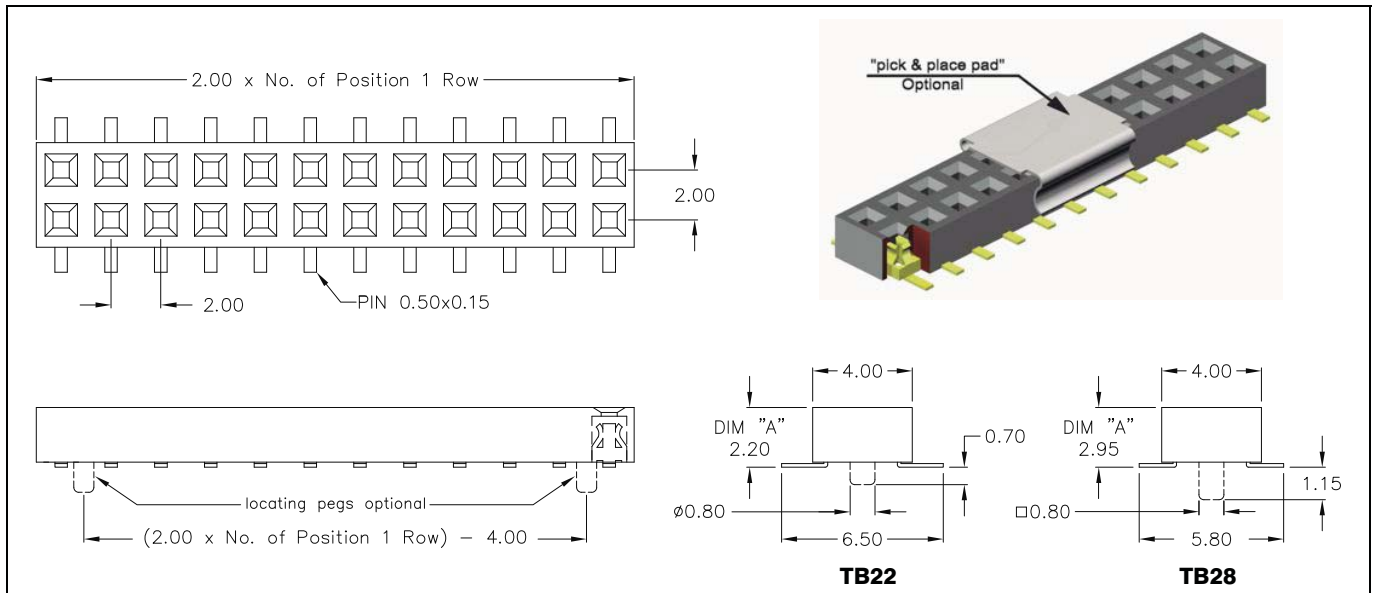
How to order

BS 1 - xxx - TB 22 - 55 /2 X



When using this female connector as a bottom entry connector, we recommend that the pin header pins protrude by around 2.00mm above the surface of the female connector after assembly. This will avoid any risk of separation of the pin header from the female header during shock and vibration.

2.00mm pitch Female Header - SMT - Top & Bottom Entry 2.20mm & 2.95mm profile



APPLICATION AND FEATURES		SPECIFICATIONS	
<ul style="list-style-type: none"> Standard: tube packing, without "locating pegs" and "pick & place pad" Low profile, 2.20mm and 2.95mm height above PCB available Mating with 2.00mm x 2.00mm pitch, 0.50mm square, or round pin headers Designed for board to board small spacing interconnection 		Current rating: 1 A Insulator resistance: 1000 M Ω min. Contact resistance: 20 m Ω max. Withstanding voltage: 500 V AC Operating temperature: -40°C to +105°C Processing temperature: +250°C $\pm 0/5^\circ\text{C}$ for 10sec.	Contact material: (RoHS compliant) Phosphor Bronze Insulator material: (RoHS compliant) Nylon UL 94 V-0

How to order

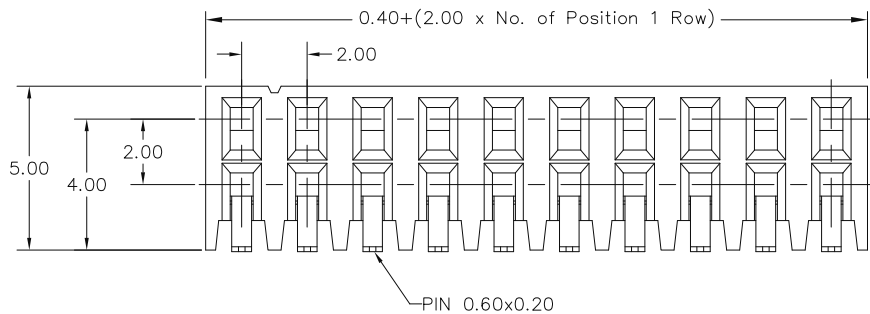
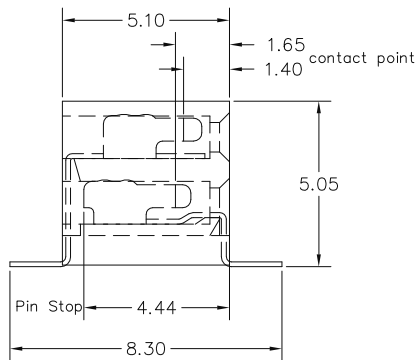
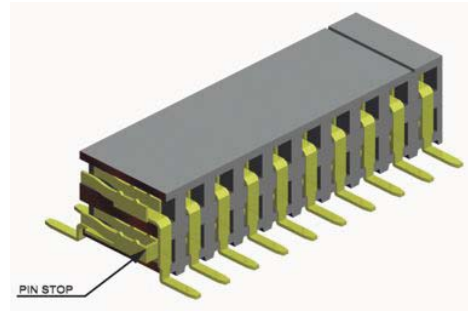
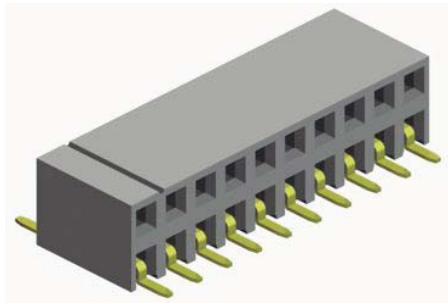
BS 2 - xxx - TB xx - 55 / 2 X

Nbr of contacts	Version		Plating	Packing and "pick & place pad" Option
006 to 080	22	DIM „A“ = 2.20 mm	55 = gold	without "locating pegs"
006 to 070	28	DIM „A“ = 2.95 mm		A = tube packing; with pick & place pad B = reel packing; with pick & place pad
				with "locating pegs"
				C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad

When using this female connector as a bottom entry connector, we recommend that the pin header pins protrude by around 2.00mm above the surface of the female connector after assembly. This will avoid any risk of separation of the pin header from the female header during shock and vibration.

2.00mm pitch Female Header

- SMT- side entry



APPLICATION AND FEATURES

- Hi-rel dual beam contact with „Pin Stop“ assures reliable connections
- Accepts 0.50mm square pins
- 5.00mm height above board
- Automatic assembly to PCB possible

PCB Surface Mount Layout



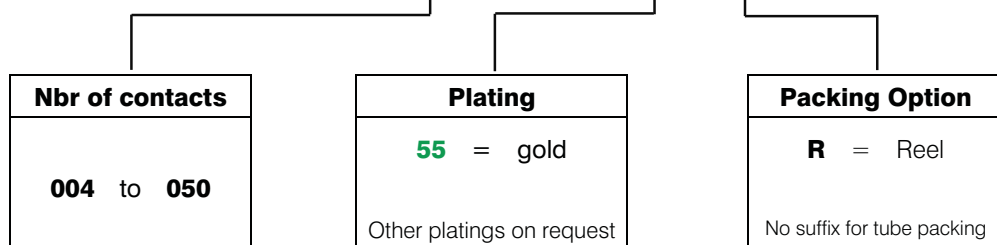
SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material <i>(RoHS compliant)</i>	Phosphor Bronze
Insulator material <i>(RoHS compliant)</i>	Nylon UL 94 V-0

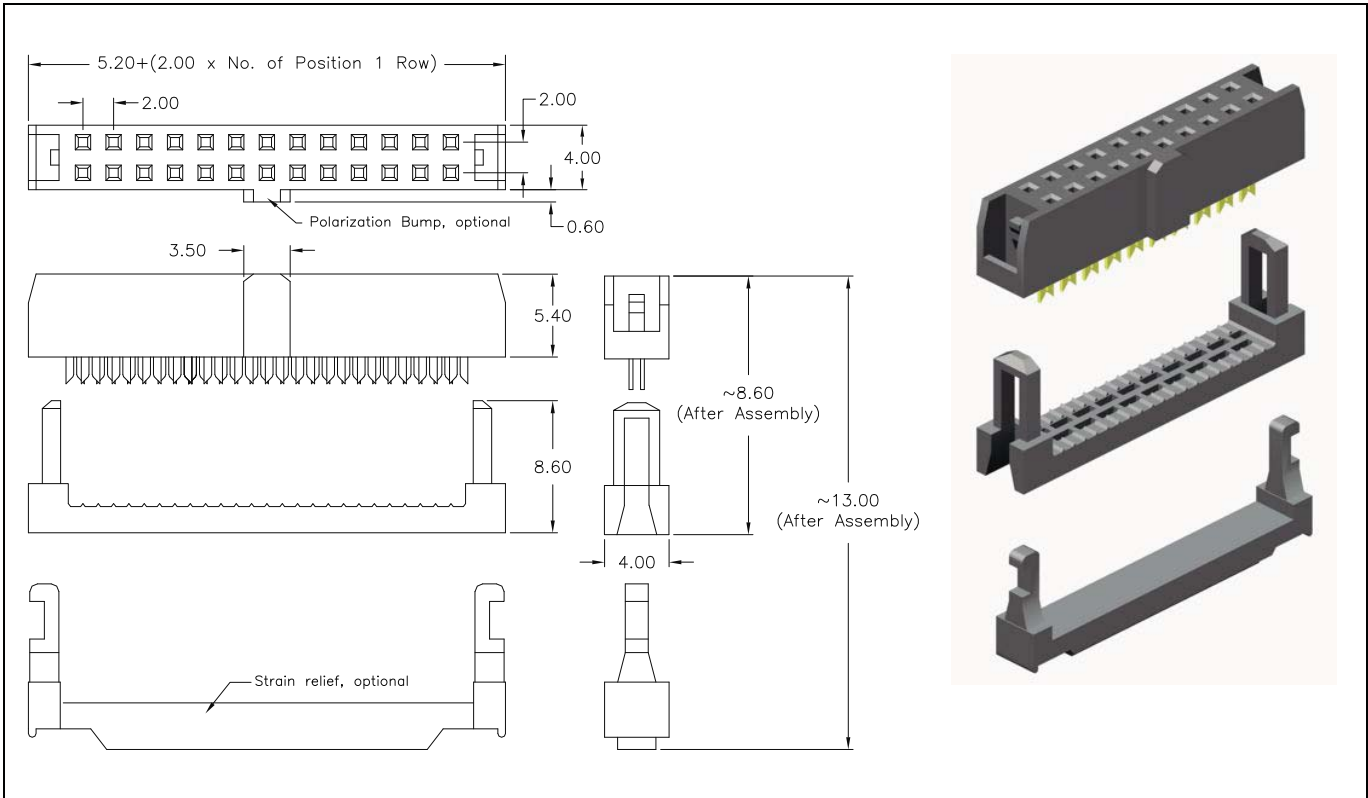
How to order

BS 2 - xxx - R 500 - 55 /2 X



2.00mm pitch

IDC – Female Connector



SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	20 mΩ max.	Insulator material	(RoHS compliant) P.B.T. UL 94 V-0
Withstanding voltage	500 V AC		

APPLICATION AND FEATURES

Designed to mate with 0.50mm square pins Box Header

High Quality dual beam contacts

Accepts 26 & 28 AWG 1.00mm flat ribbon cable.

How to order

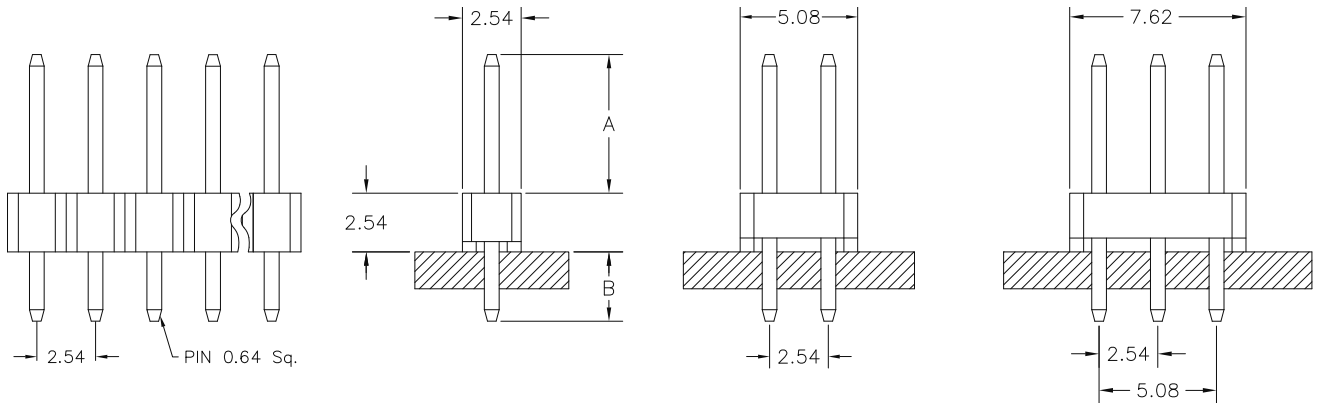
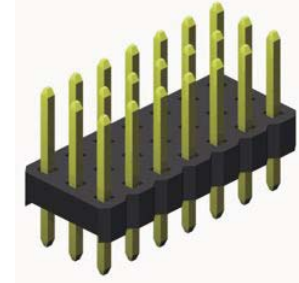
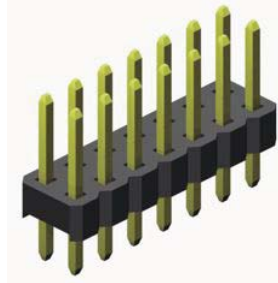
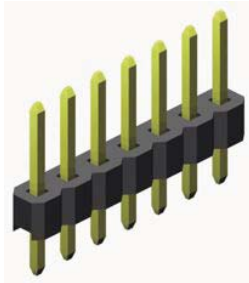
IDS - xxx - X 200 - 95 (/ P)

Nbr of contacts
available with strain relief: 010; 012; 014; 016; 018; 020 022; 024; 026; 028; 030; 032 034; 040; 044; 050
available without strain relief: 006; 008; 010; 012; 014; 016 018; 020; 022; 024; 026; 028 030; 032; 034; 040; 044; 050 054; 056; 060; 064; 068

Strain relief
S = with W = without

Plating
95 = tin / gold <i>(tin leadfree)</i> Other platings on request

Option
P Polarization bump



Pin code	DIM "A" mm/inch	DIM "B" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch
116 / 01	6.00/.236	3.10/.122	105 / 04	6.00/.236	2.00/.079	168 / 01	11.00/.433	3.30/.130
076 / 01	3.40/.124	2.70/.106	108 / 09	6.10/.240	2.16/.085	176 / 02	11.80/.465	3.30/.130
125 / 04	3.30/.123	6.70/.264	147 / 06	6.10/.240	6.10/.240	184 / 10	12.30/.484	3.60/.142
105 / 05	4.20/.165	3.60/.142	147 / 02	7.00/.276	5.11/.201	186 / 01	12.40/.488	3.80/.150
108 / 10	4.30/.169	4.00/.157	125 / 01	7.00/.276	3.00/.118	184 / 02	12.60/.496	3.00/.118
105 / 01	5.00/.197	3.00/.118	125 / 02	7.50/.295	2.54/.100	216 / 07	12.80/.504	6.30/.248
108 / 12	5.00/.197	3.30/.130	135 / 05	8.00/.315	2.80/.110	184 / 01	12.90/.508	3.00/.118
108 / 11	5.50/.216	2.80/.110	140 / 03	8.50/.335	3.00/.118	185 / 04	13.00/.512	3.00/.118
108 / 02	5.70/.224	2.54/.100	140 / 02	9.00/.354	2.54/.100	204 / 01	14.90/.586	3.00/.118
139 / 01	5.70/.224	5.70/.224	155 / 01	9.80/.386	3.15/.124	228 / 01	17.30/.681	3.00/.118
108 / 01	5.80/.228	2.50/.098	184 / 03	10.50/.413	5.11/.201	261 / 01	17.80/.700	5.80/.228
113 / 02	5.80/.228	3.00/.118	155 / 06	10.80/.425	2.20/.087	240 / 02	18.50/.728	3.00/.118
100 / 01	6.00/.236	1.50/.059	159 / 06	10.80/.425	2.54/.100	245 / 01	19.00/.748	3.00/.118

Standard dimension & pin code

Many other dimensions available on request

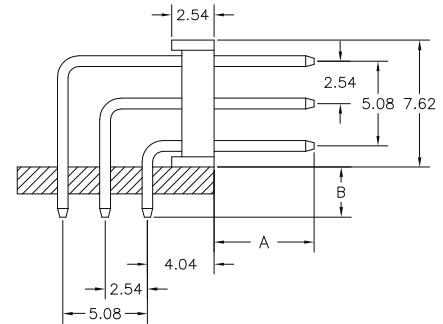
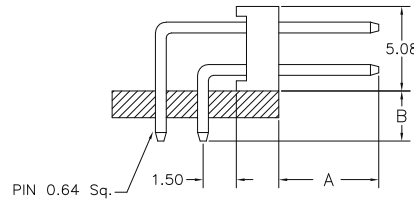
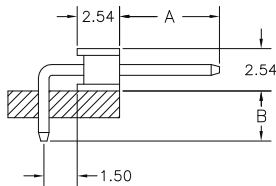
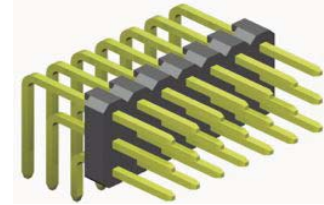
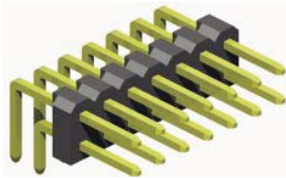
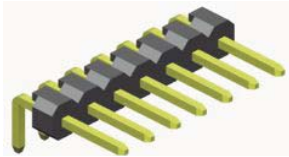
SPECIFICATIONS

Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Insulator material (RoHS compliant)	P.B.T. or Nylon UL 94 V-0
Withstanding voltage	500 V AC	Contact material (RoHS compliant)	Standard : P.B.T.
Breakdown voltage	1800 VRMS min.		Brass

How to order

SL x - xxx - S xxx/xx - 55

Rows	Nbr of pins	Insulator	Pin code	Plating
1 = single row 2 = dual row 3 = triple row	single row = 002 to 040 dual row = 004 to 080 triple row = 009 to 120	S = P.B.T. SH = Nylon	See above table	55 = gold (standard) 99 = tin (leadfree) 95 = tin/gold (tin leadfree) Other platings on request



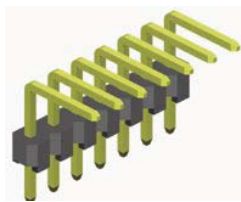
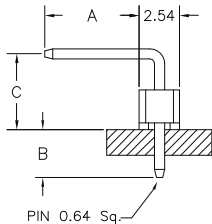
DOWN ANGLE PIN STYLE

Pin code	DIM "A" mm/inch	DIM "B" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch
100/03	2.50/.098	2.50/.098	125/11	5.60/.220	2.10/.083	176/01	7.00/.276	6.00/.236	170/02	8.80/.346	3.30/.130
103/01	2.75/.108	2.75/.108	132/01	5.70/.224	2.50/.098	147/03	7.40/.291	2.54/.100	165/01	9.00/.354	2.54/.100
105/02	2.80/.110	3.00/.118	133/01	5.70/.224	2.85/.112	133/03	7.50/.295	1.50/.059	184/05	9.40/.370	4.60/.181
106/01	2.80/.110	2.80/.110	155/02	5.70/.224	5.11/.201	136/06	7.50/.295	2.54/.100	176/03	9.70/.382	3.15/.124
108/01	3.00/.118	3.00/.118	126/02	5.80/.228	2.30/.091	140/04	7.80/.307	1.50/.059	203/04	9.70/.382	5.80/.228
116/03	3.00/.118	4.00/.157	140/05	5.80/.228	3.60/.142	155/05	7.80/.307	3.00/.118	181/01	9.90/.390	3.20/.126
106/02	3.30/.130	2.30/.090	140/11	5.80/.228	3.00/.118	136/01	8.00/.315	3.60/.142	180/05	9.96/.392	3.30/.130
111/01	3.50/.138	3.00/.118	141/01	5.80/.228	4.80/.189	184/04	8.00/.315	5.80/.228	251/01	10.00/.394	10.00/.394
116/04	3.50/.138	3.50/.138	159/01	5.90/.232	5.11/.201	187/02	8.00/.315	6.00/.236	184/09	10.40/.409	3.30/.130
108/02	3.60/.142	2.50/.098	125/16	6.00/.236	2.00/.079	182/01	8.10/.319	5.10/.201	186/01	10.70/.421	3.30/.130
111/02	3.70/.136	2.75/.108	140/01	6.00/.236	3.00/.118	155/04	8.20/.323	2.54/.100	203/05	12.00/.472	3.30/.130
120/01	4.50/.177	2.50/.098	140/09	6.20/.244	3.15/.124	159/04	8.20/.323	3.00/.118	203/03	12.50/.492	3.00/.118
125/07	4.50/.177	3.30/.130	149/01	6.70/.264	3.20/.126	203/06	8.23/.324	7.00/.276	203/02	13.00/.512	2.54/.100
125/06	4.70/.185	3.15/.124	148/01	6.75/.266	2.90/.114	246/01	8.30/.327	11.70/.461	209/01	13.10/.516	3.00/.118
147/04	4.80/.189	5.11/.201	147/02	6.90/.272	3.30/.130	159/02	8.50/.335	2.54/.100	216/03	13.60/.535	3.30/.130
125/09	5.30/.209	2.54/.100	140/03	7.00/.276	2.00/.079	165/02	8.60/.339	3.30/.130			
133/02	5.30/.209	3.30/.013	147/01	7.00/.276	3.00/.118	169/01	8.60/.339	3.30/.130			

Standard dimension & pin code

Many other dimensions available on request

UP ANGLE PIN STYLE



Pin code	DIM "A" mm/inch	DIM "B" mm/inch	DIM "C" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch	DIM "C" mm/inch
151/01	3.30/.130	7.00/.276	3.84/.151	160/05	6.00/.236	3.00/.118	6.04/.238
170/01	3.30/.130	8.60/.339	3.84/.151	175/03	6.00/.236	3.00/.118	7.54/.297
190/02	3.30/.130	10.60/.417	3.84/.151	155/03	6.20/.244	2.54/.100	6.30/.248
114/01	4.00/.157	2.60/.102	4.25/.167	130/01	7.00/.276	2.54/.100	3.00/.118
190/01	4.25/.167	3.00/.118	8.00/.315	184/15	7.00/.276	3.00/.118	6.35/.250
155/09	5.10/.201	3.10/.122	6.41/.252	184/06	8.00/.315	3.60/.142	6.30/.248
135/11	6.00/.236	3.00/.118	3.50/.138	149/02	9.70/.382	1.50/.059	2.80/.110
147/07	6.00/.236	3.00/.118	4.80/.189				

Specifications: Refer to straight pin headers

Many other dimensions available on request

How to order

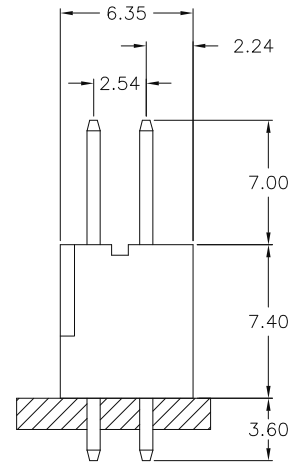
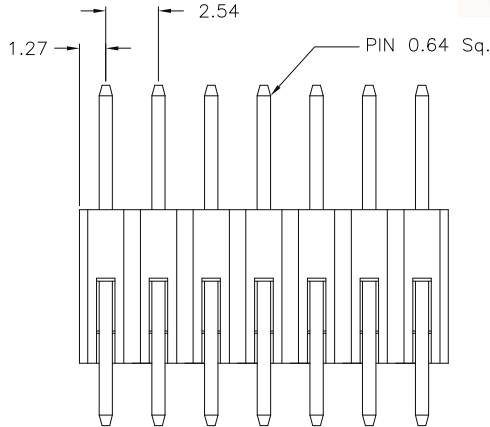
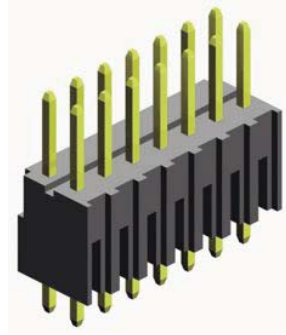
SL x - xxx - X xxx/xx - 55

Rows	Nbr of pins	Pin style & Insulator	Pin code	Plating
1 = single row 2 = dual row 3 = triple row	single row = 002 to 040 dual row = 004 to 080 triple row = 009 to 120	R = Down angle (P.B.T. Insulator) RH = Down angle (Nylon Insulator) U = Up angle (P.B.T. Insulator) UH = Up angle (Nylon Insulator)	See above table	55 = gold(standard) 99 = tin (leadfree) 95 = tin/gold (tin leadfree) Other platings on request

2.54mm pitch Pin Header
 - THT - high plastic base

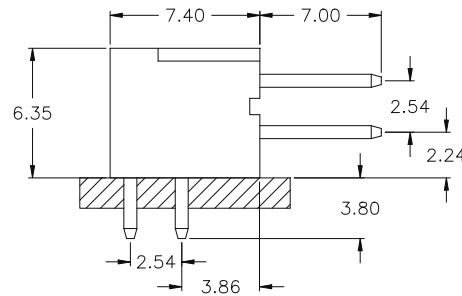
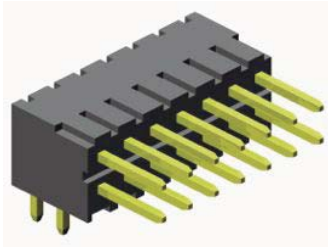


Straight style - 7.40mm body



S 740

Right angle style - 6.35mm body

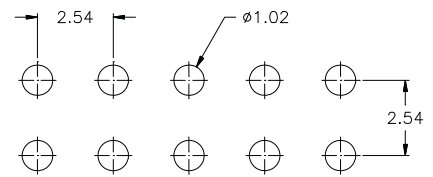


R 635

Specifications

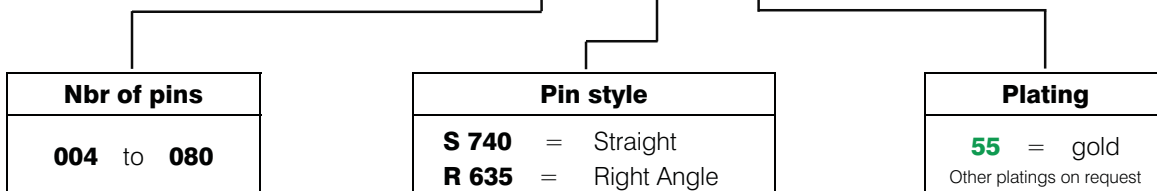
Current rating	3 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	Brass
Insulator material	P.B.T. UL 94 V-0

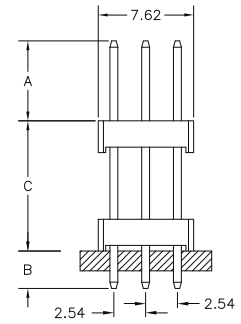
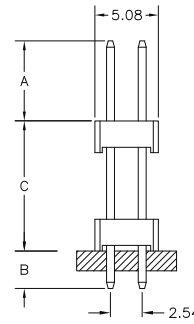
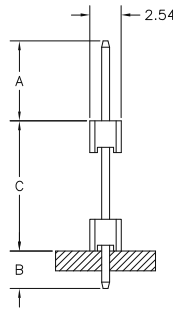
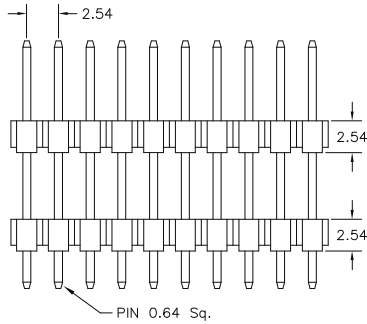
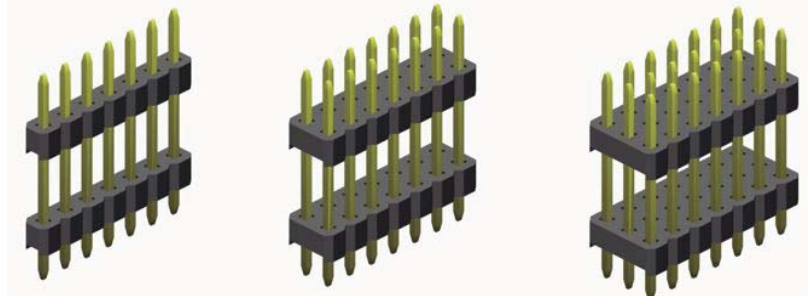
PCB Hole layout



How to order

SE 2 - xxx - X xxx - 55





PIN STYLE

Pin code	DIM "A" mm/inch	DIM "B" mm/inch	DIM "C" mm/inch	Pin code	DIM "A" mm/inch	DIM "B" mm/inch	DIM "C" mm/inch
113 / 01	3.00/.118	3.30/.130	5.00/.197	240 / 03	6.00/.236	3.00/.118	15.00/.590
249 / 09	15.00/.590	3.90/.153	6.00/.236	249 / 06	6.00/.236	3.40/.134	15.50/.610
185 / 02	8.50/.335	3.00/.118	7.00/.276	290 / 04	6.50/.256	6.50/.256	16.00/.630
137 / 01	3.00/.118	2.30/.090	8.40/.331	249 / 08	5.30/.209	2.60/.102	17.00/.669
260 / 01	13.90/.547	3.60/.142	8.50/.335	216 / 05	1.95/.077	1.95/.077	17.70/.697
147 / 08	3.00/.118	3.00/.118	8.70/.343	263 / 01	5.50/.216	2.80/.110	18.00/.709
216 / 08	6.30/.248	6.30/.248	9.00/.354	340 / 01	9.00/.354	6.00/.236	19.00/.748
198 / 02	6.00/.236	3.00/.118	10.40/.409	290 / 01	6.50/.256	2.50/.098	20.00/.787
184 / 13	5.30/.209	2.50/.984	10.60/.417	276 / 01	3.20/.126	3.20/.126	21.20/.835
198 / 03	6.50/.256	2.70/.106	10.60/.417	308 / 03	6.00/.236	3.30/.130	21.50/.846
216 / 10	6.50/.256	3.60/.142	11.50/.453	342 / 01	6.10/.240	6.10/.240	22.00/.866
198 / 01	5.50/.217	2.50/.984	11.80/.465	342 / 02	3.00/.118	9.20/.362	22.00/.866
211 / 01	6.00/.236	2.90/.114	12.20/.480	352 / 01	3.00/.118	9.20/.362	23.00/.905
235 / 01	7.00/.275	3.60/.142	12.90/.508	378 / 02	7.30/.287	3.30/.130	27.20/1.071
255 / 01	9.00/.354	3.60/.142	12.90/.508	378 / 01	5.30/.209	2.50/.984	30.00/1.181
249 / 07	8.80/.346	2.50/.984	13.60/.535	408 / 04	5.80/.228	2.50/.984	32.50/1.280
216 / 02	5.30/.209	2.50/.984	13.80/.543	516 / 01	6.80/.268	3.30/.130	41.50/1.634
290 / 08	7.25/.285	7.25/.285	14.50/.571	606 / 01	6.00/.236	3.10/.122	51.50/2.028
238 / 01	5.90/.232	3.20/.126	14.70/.279				

Many other dimensions available on request

SPECIFICATIONS

Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Insulator material (RoHS compliant)	P.B.T. or Nylon UL 94 V-0
Withstanding voltage	500 V AC	Contact material (RoHS compliant)	Standard : P.B.T.
Breakdown voltage	1800 VRMS min.		Brass

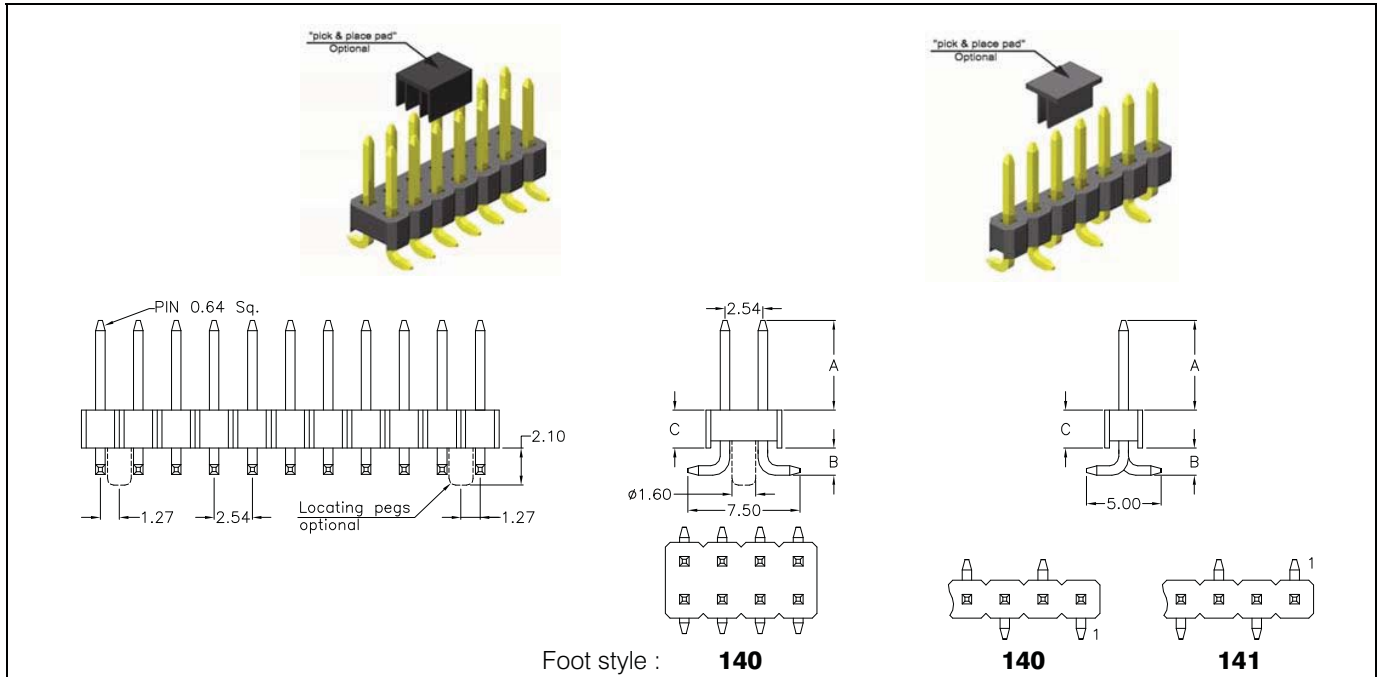
How to order

SP x - xxx - S xxx/xx - xx

Rows	Nbr of pins	Insulator	Pin code	Plating
1 = single row	single row = 002 to 040	S = P.B.T.	See above table	55 = gold (standard)
2 = dual row	dual row = 004 to 080	SH = Nylon		99 = tin (leadfree)
3 = triple row	triple row = 009 to 120			95 = tin/gold (tin leadfree)
				Other platings on request

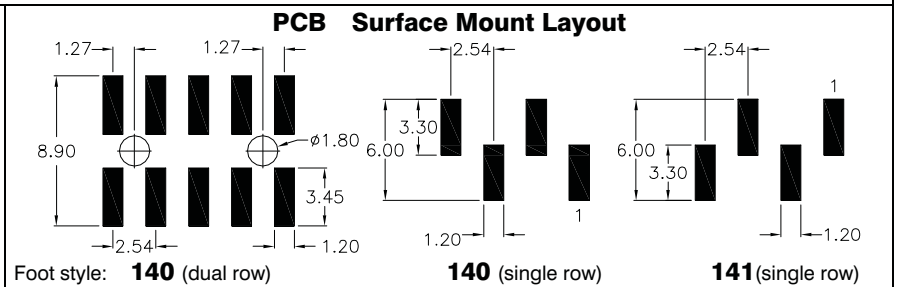
2.54mm pitch Pin Header

- SMT - single & dual row



APPLICATION AND FEATURES

- **Standard: tube packing and without "pick & place pad"**
- Standard Pin code **01**, others on request
- Mating with 2.54mm female headers



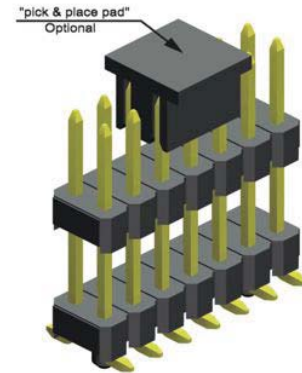
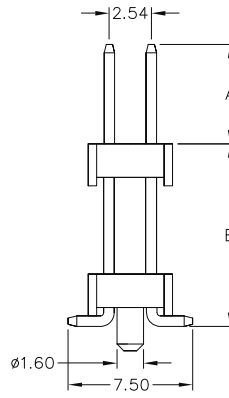
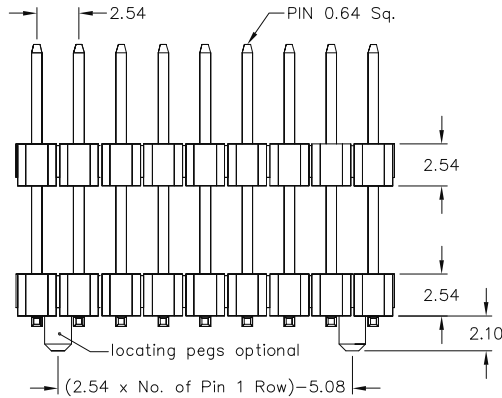
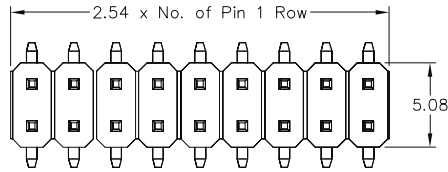
SPECIFICATIONS

Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature	+250°C +0/-5°C for 5sec.
Withstanding voltage	500 V AC	Contact material	(RoHS compliant) Brass
		Insulator material	(RoHS compliant) Nylon UL 94 V-0

How to order

SS x - xxx - H 140 / xx - 55 X

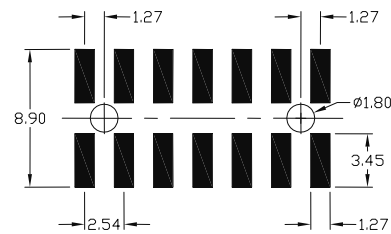
Rows	Nbr of pins	Insulator style	Foot style	Pin code	DIM"A" (mm)	DIM"B" (mm)	DIM"C" (mm)	Plating	Packing and "pick & place pad" Option
1 single row	004 to 040	H (= Standard) if DIM"C"=2.54mm	140 141 <small>Pls. choose 140 style if odd pin count.</small>	00	5.00	1.00	1.50	55 = gold Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad
				01	6.00	1.82	2.54		with "locating pegs" (only available for dual row pin headers) C = tube packing; w/o pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad
2 dual row	004 to 080	TH if DIM"C"=1.50mm Please note: 1.50mm Insulator is only available without locating peg.	140	02	10.70	1.27	2.54		
				03	14.20	0.64	2.54		
				04	6.00	0.64	2.54		
				05	10.70	1.82	2.54		
				06	6.00	1.27	2.54		
				07	4.00	1.00	1.50		
				08	9.60	1.90	2.54		
				09	8.13	1.27	2.54		
				10	3.00	1.96	2.54		
				11	8.10	0.72	2.54		
				12	3.23	3.22	2.54		
13	4.85	2.30	2.54						
				Other dimensions on request					



APPLICATION AND FEATURES

- **Standard: tube packing, without "locating pegs" and "pick & place pad"**
- Designed for "board to board" spacing
- Variable terminal length available
- Mate with female header 2.54mm x 2.54mm pitch

PCB Surface Mount Layout



SPECIFICATIONS

Current rating 3 A
 Insulator resistance 1000 MΩ min.
 Withstanding voltage 500 V AC

Operating temperature - 40°C to +105°C
 Processing temperature +250°C +0/-5°C for 5sec.

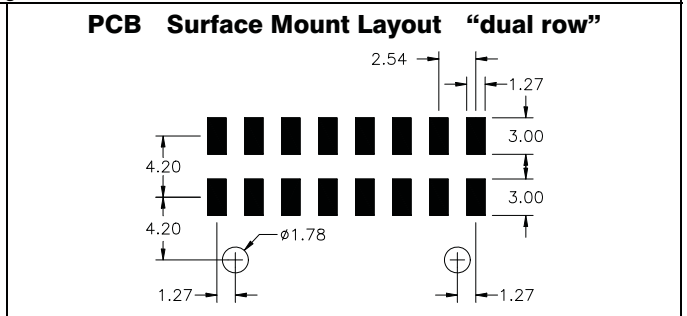
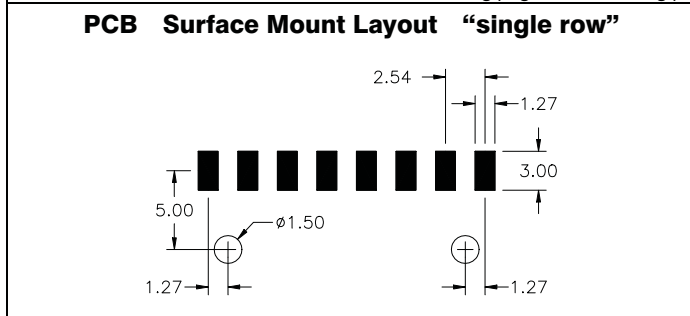
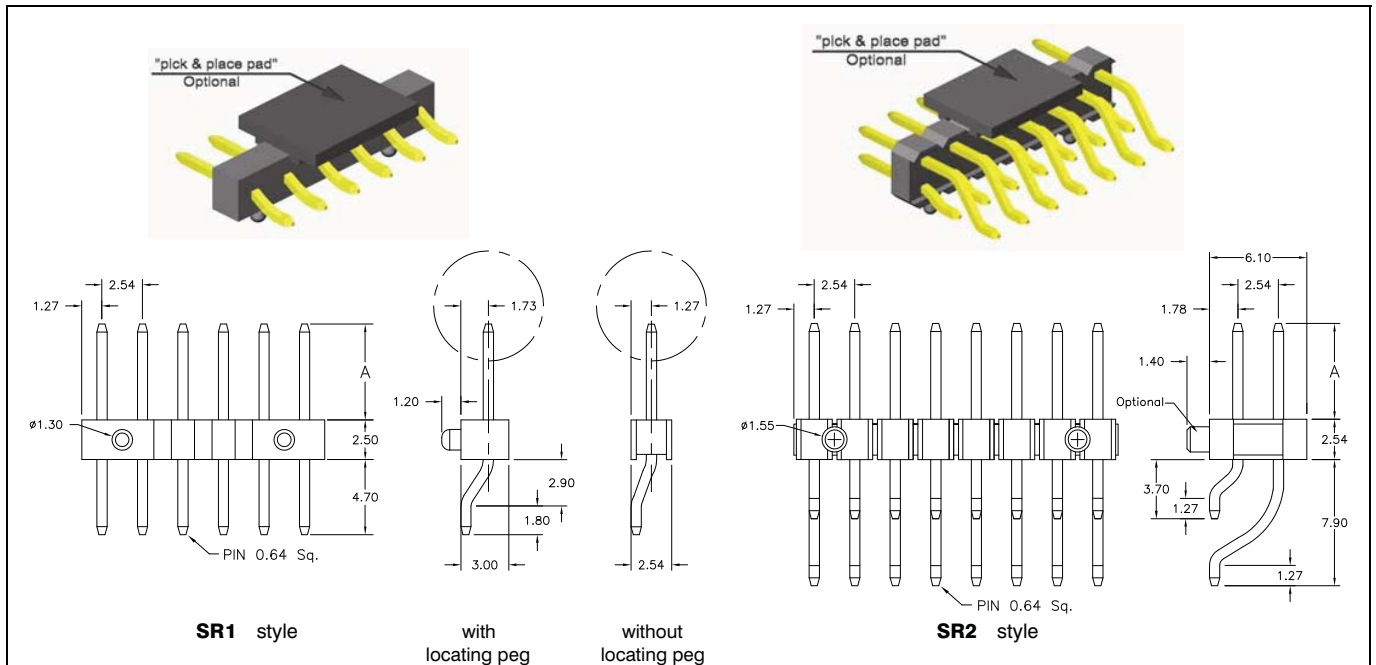
Contact material (RoHS compliant) Copper alloy
 Insulator material (RoHS compliant) Nylon UL 94 V-0

How to order

SP2 - xxx - H xxx/xx - 55 X

Nbr of pins	Pin code	DIM "A"	DIM "B"	Plating	Packing and "pick & place pad" Option
004 to 080	160/16	3.50 mm	5.30 mm	55 = gold Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad
	160/03	5.50 mm	6.40 mm		
	160/12	5.50 mm	7.50 mm		with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reelpacking; with pick & place pad
	160/04	7.50 mm	9.40 mm		
	160/07	5.90 mm	10.60 mm		
	160/09	3.70 mm	10.70 mm		
	160/01	6.00 mm	11.40 mm		
	160/15	6.90 mm	12.50 mm		
	160/14	8.80 mm	13.60 mm		
	160/06	5.50 mm	14.00 mm		
	160/17	7.00 mm	14.50 mm		
	160/05	6.00 mm	15.50 mm		
	160/13	8.80 mm	16.10 mm		
	160/02	4.50 mm	17.00 mm		
	160/08	6.00 mm	28.00 mm		
	160/10	2.70 mm	28.30 mm		
160/11	4.00 mm	34.30 mm			
Other dimensions on request					

2.54mm pitch Pin Header - slanted -
- SMT - single and dual row



SPECIFICATIONS

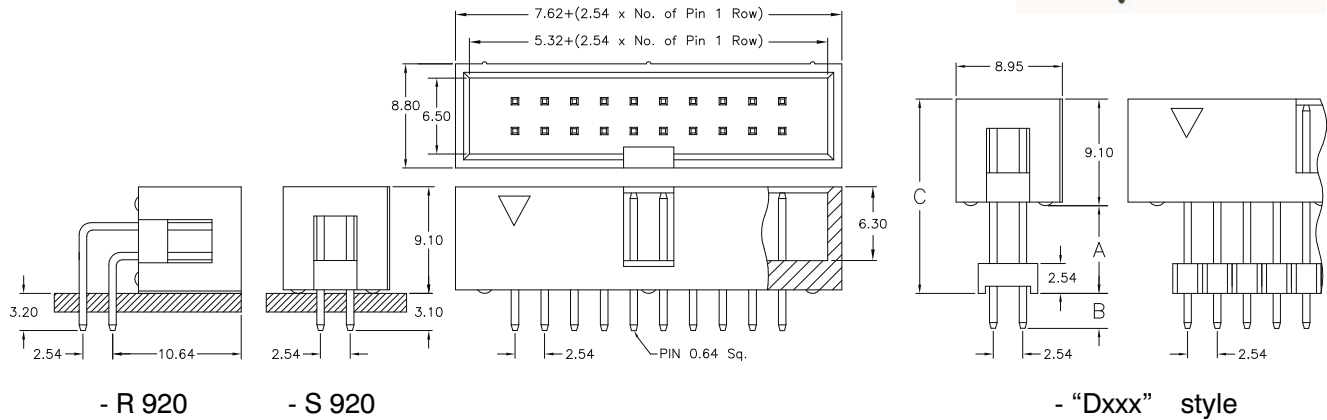
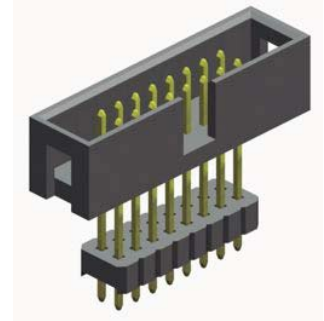
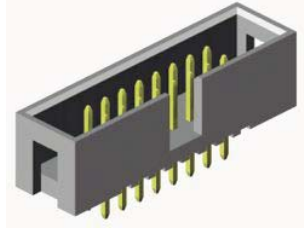
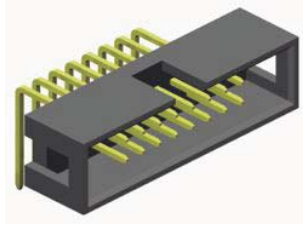
Current rating 3 A
Insulator resistance 1000 MΩ min.
Withstanding voltage 500 V AC

Operating temperature -40°C to +105°C
Processing temperature +250°C +0/-5°C for 10sec.
Contact material (RoHS compliant) Copper alloy
Insulator material (RoHS compliant) SR1 = Nylon UL 94 V-0
SR2 = LCP UL 94 V-0

How to order

SR **x** - **xxx** - H **xxx/xx** - **xx** **X**

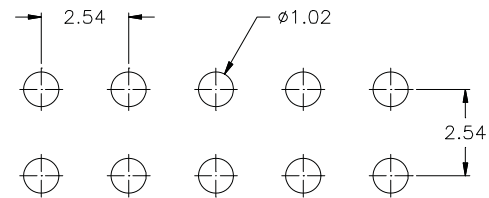
Rows	Nbr of pins	Pin code	DIM "A"	Plating	Packing and "pick & place pad" Option (standard: Tube packing and w/o pick & place pad)
1 single row	<i>without locating pegs</i> 002 to 040	135/00	3.00 mm	55 = gold 95 = tin/gold <i>(tin leadfree)</i> Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad
		135/01	3.60 mm		
		135/02	6.00 mm		
		135/03	6.80 mm		
		135/04	7.20 mm		
	<i>with locating pegs</i> 003 to 030	135/05	7.40 mm		
		135/06	10.70 mm		
		135/07	10.40 mm		
		135/08	5.85 mm		
		135/09	8.15 mm		
2 dual row	006 to 080	135/10	10.00 mm	with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad	
		Other dimensions on request			



APPLICATION AND FEATURES

- Mating devices for female headers, solder tail and IDC Type
- Reliable flat cable to PCB connection
- No ejection latches for space saving

PCB Hole Layout



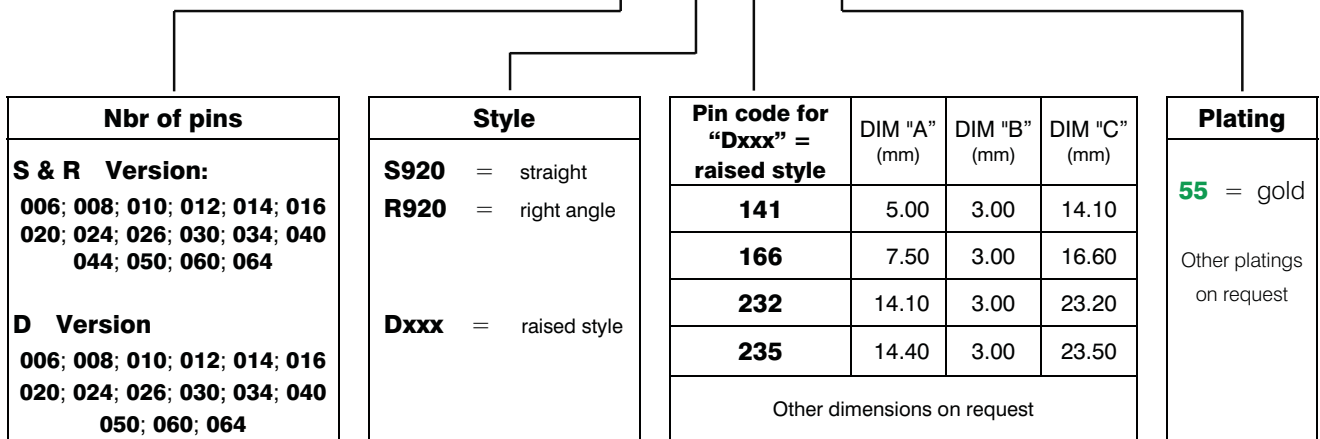
SPECIFICATIONS

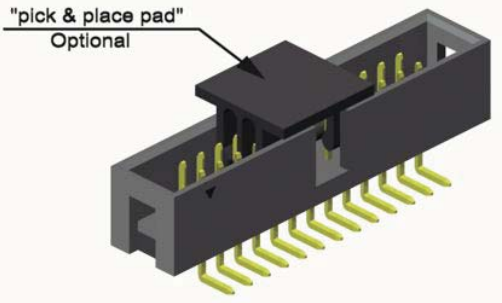
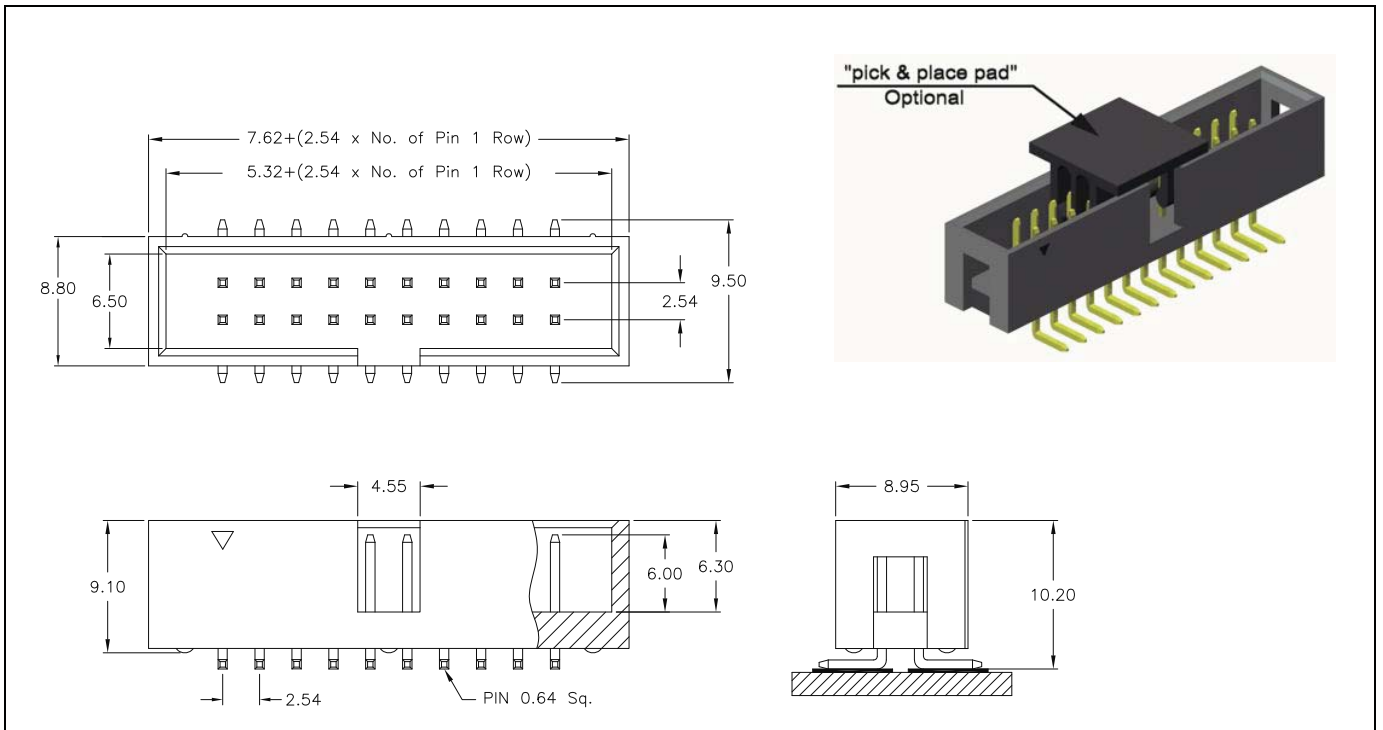
Current rating 3 A
 Insulator resistance 1000 MΩ min.
 Withstanding voltage 500 V AC

Operating temperature - 40°C to +105°C
 Contact material (RoHS compliant) Brass
 Insulator material (RoHS compliant) P.B.T. UL 94 V-0

How to order

SLS - xxx - X xxx - 55

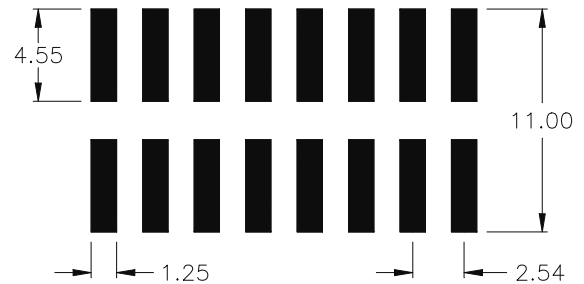




APPLICATION AND FEATURES

- **Standard: tray packing and without "pick & place pad"**
- Also available "reel" packing
- Mating devices for female headers, solder tail and IDC Type
- Reliable flat cable to PCB connection
- No ejector latches for space saving

PCB Surface Mount Layout



SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 5sec.
Contact material (RoHS compliant)	Brass
Insulator material (RoHS compliant)	Nylon UL 94 V-0

How to order

SLS - xxx - H 885 - 55 / X

Nbr of pins

006; 008; 010; 012
014; 016; 020; 024
026; 030; 034; 040
044; 050

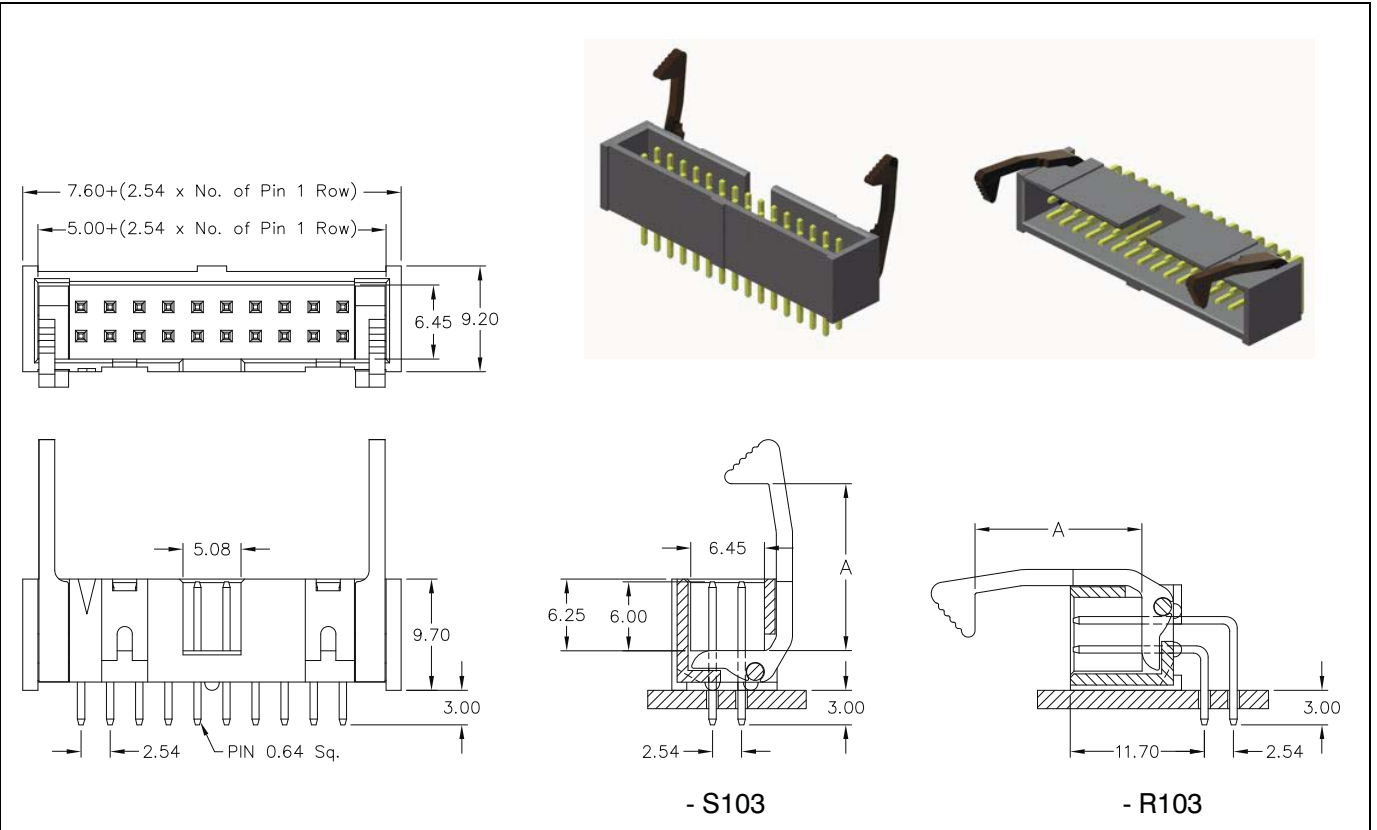
Plating

55 = gold
Other platings on request

Packing and "pick & place pad" Option

F	= tray packing; with pick & place pad
T	= tube packing; without pick & place pad
A	= tube packing; with pick & place pad
B	= reel packing; with pick & place pad

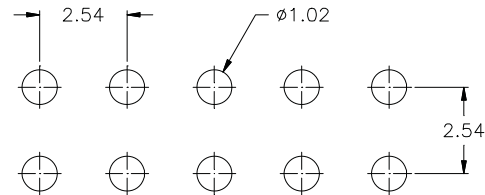
2.54mm pitch Box Header
 - THT - with ejection latches



APPLICATION AND FEATURES

- Mating devices for female headers IDC Type
- Reliable flat cable to PCB connection
- Ejection latches for easy handling

PCB Hole Layout



SPECIFICATIONS

Current rating 3 A
 Insulator resistance 1000 MΩ min.
 Withstanding voltage 500 V AC

Operating temperature -40°C to +105°C
 Contact material (RoHS compliant) Copper alloy
 Insulator material (RoHS compliant) P.B.T. UL 94 V-0
 Standard: black

How to order

SLS - xxx - X 103 - 55 / X

Nbr of pins
010; 014; 016
020; 024; 026
030; 034; 040
050; 060; 064

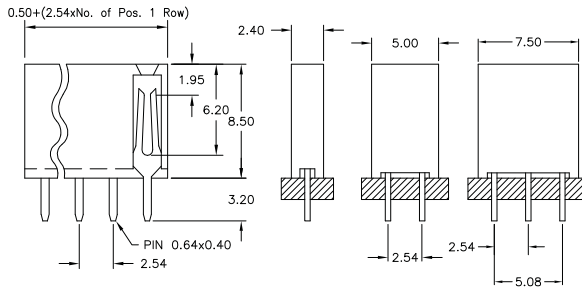
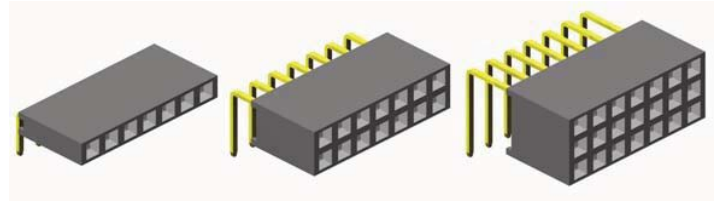
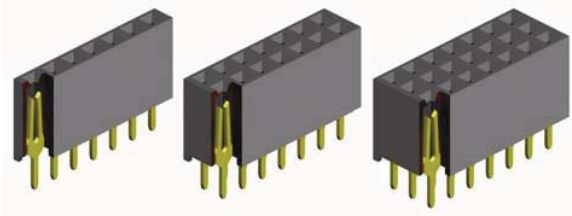
Style
S = straight
R = right angle

Plating
55 = gold
Other platings on request

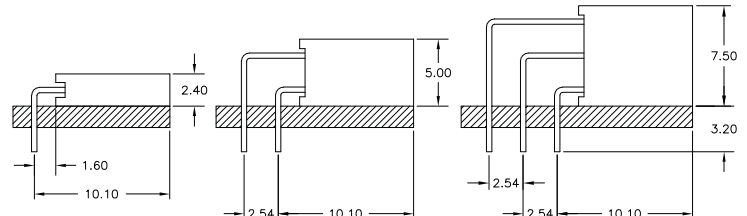
Latch style
S = short latch DIM "A" = 10.65 mm
L = long latch DIM "A" = 14.55 mm

2.54mm pitch Female Header

- THT - 8.50mm profile

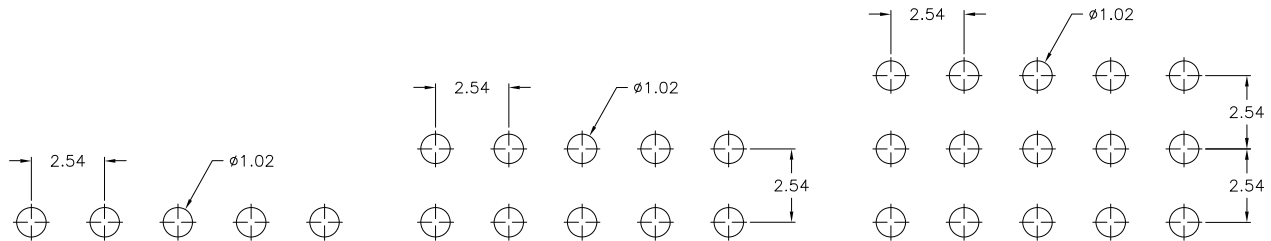


S 842



R 842

PCB Hole Layout



APPLICATION AND FEATURES

Standard profile, 8.50mm height for straight connector style.

Hi-rel fork contacts

Accepts 0.64mm square pins

SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to + 105°C
Contact material (RoHS compliant)	Brass
Insulator material (RoHS compliant)	P.B.T. UL 94 V-0

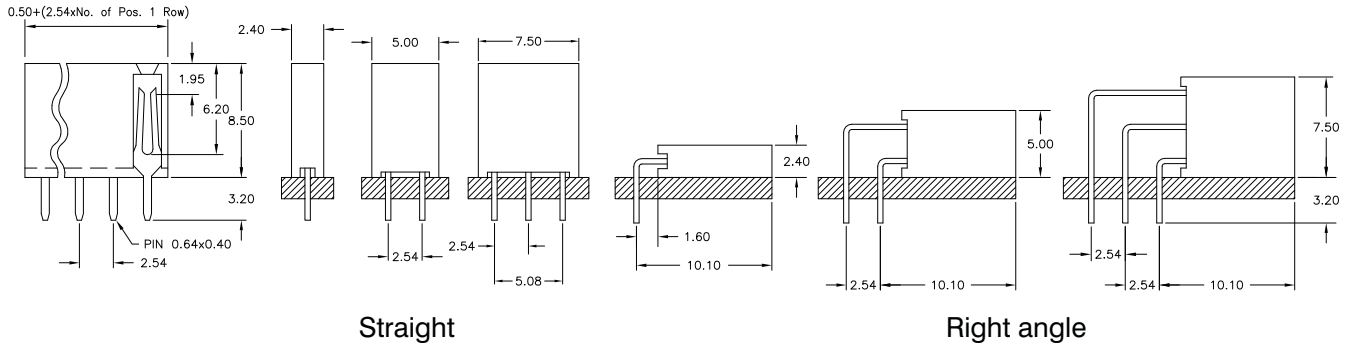
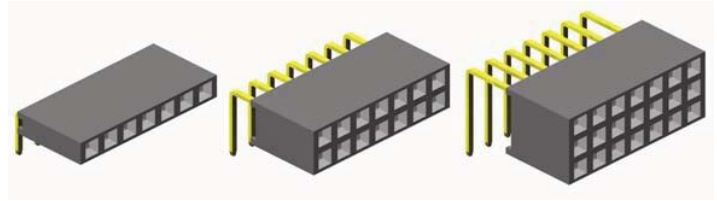
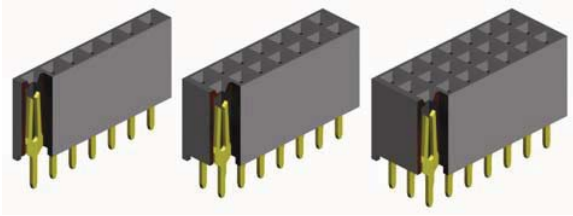
How to order

BL x - xxx - X 842 - 55

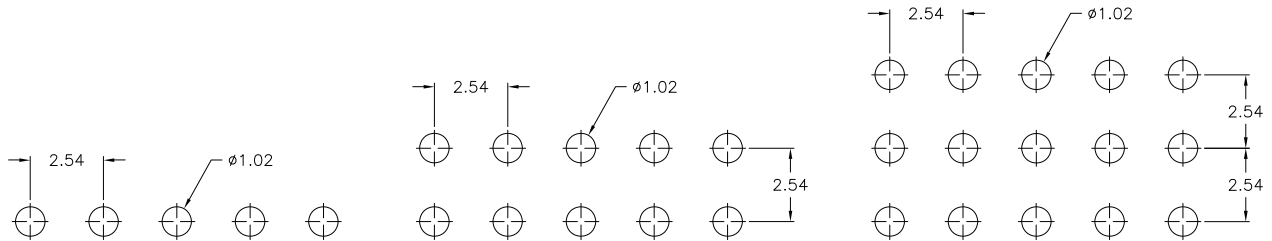
Rows	Nbr of contacts	Connector style	Plating
1 = single row	single row = 002 to 040	S 842 = straight	55 = gold
2 = dual row	dual row = 004 to 080	R 842 = right angle	Other platings on request
3 = triple row	triple row = 009 to 120	Dimensions see drawings above	

2.54mm pitch Female Header

- THT - 8.50mm profile



PCB Hole Layout



APPLICATION AND FEATURES

Standard profile, 8.50mm height for straight connector style.

Hi-rel fork contacts

Accepts 0.64mm square pins

SPECIFICATIONS

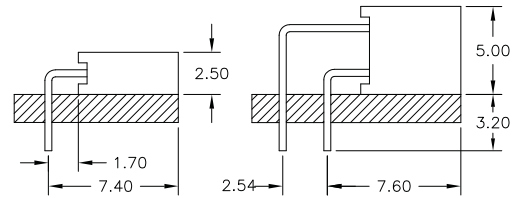
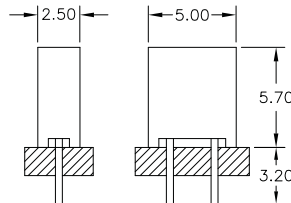
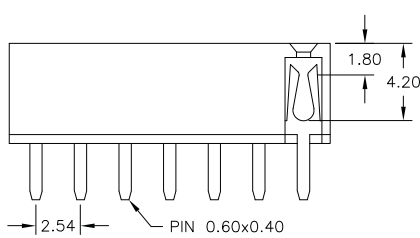
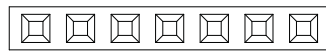
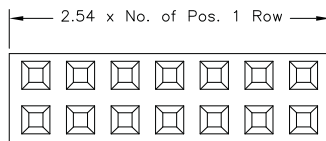
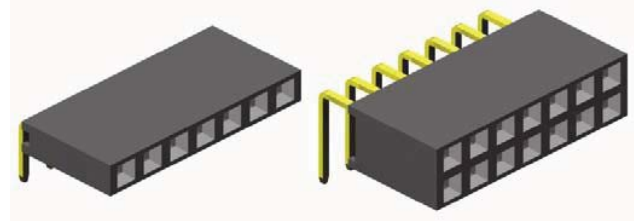
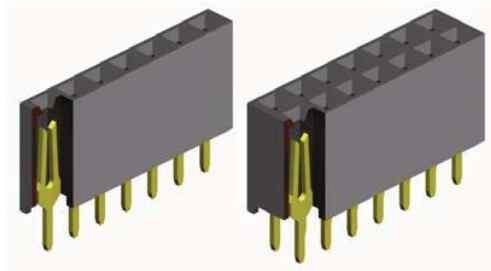
Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material <i>(RoHS compliant)</i>	Phosphor Bronze
Insulator material <i>(RoHS compliant)</i>	P.B.T. or Nylon UL 94 V-0

How to order

BL x - xxx - X 842 - 55

Rows	Nbr of contacts	Connector style	Plating
1 = single row	single row = 002 to 040	S 842 = straight (P.B.T. Insulator)	55 = gold
2 = dual row	dual row = 004 to 080	SH 842 = straight (Nylon Insulator)	Other platings on request
3 = triple row	triple row = 009 to 120	R 842 = right angle(P.B.T. Insulator)	
		RH 842 = right angle(Nylon Insulator)	
Dimensions see drawings above			

2.54mm pitch Female Header
 - THT - 5.70mm profile



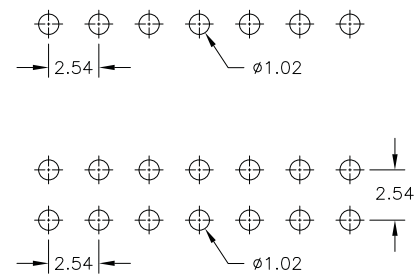
S 570

R 570

SPECIFICATIONS

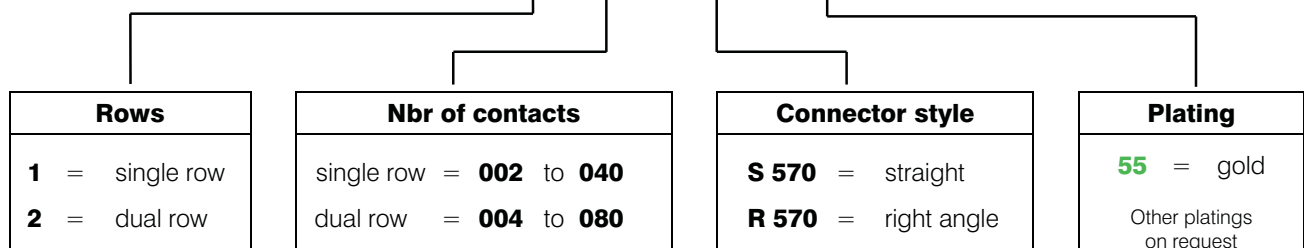
Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Brass
Insulator material (RoHS compliant)	P.B.T. UL 94 V-0

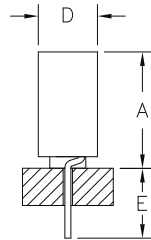
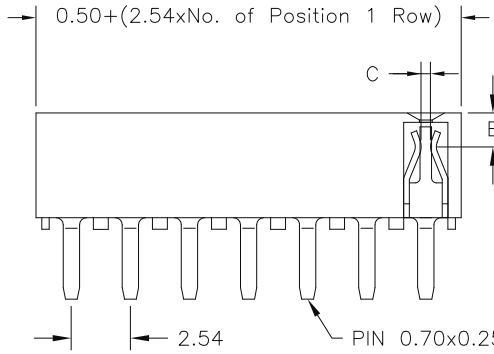
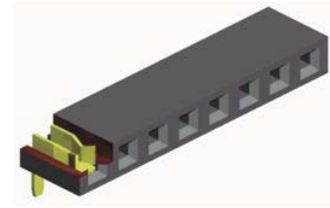
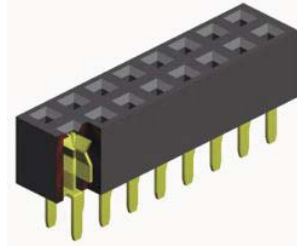
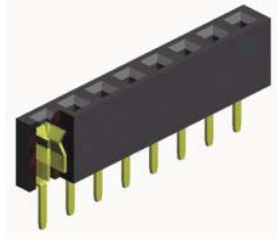
PCB Hole Layout



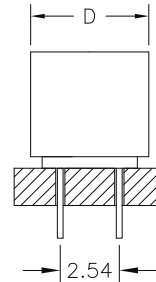
How to order

BL x - xxx - X 570 - 55

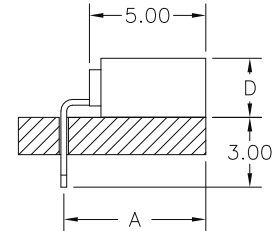




single row

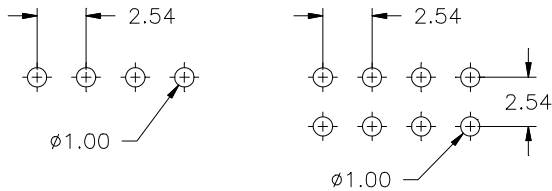


dual row



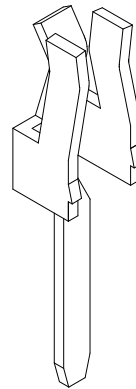
right angle

PCB Hole Layout

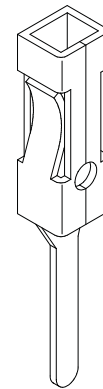


SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Contact material	Phosphor Bronze
Insulator material	P.B.T. UL 94 V-0



Contact style 1

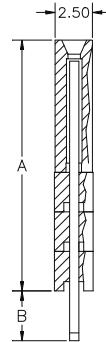
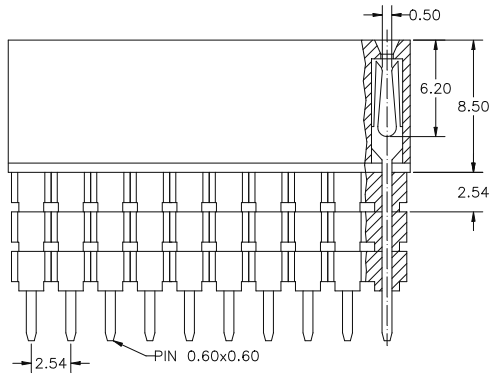
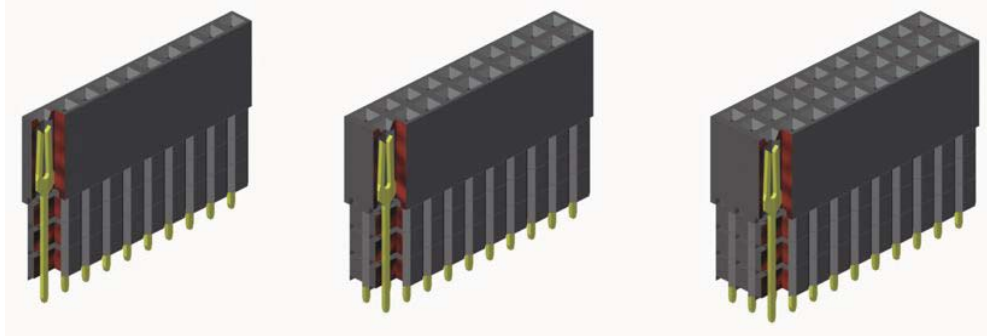


Contact style 2

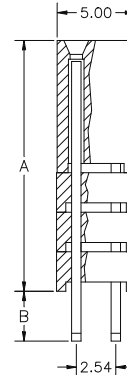
How to order

BF x - xxx - X xxx - 55

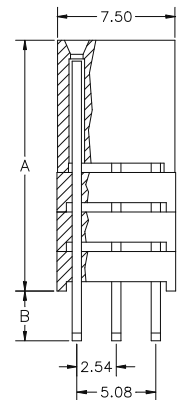
Rows	Nbr of contacts	Code	Connector style	Contact style	DIM "A" (mm)	DIM "B" (mm)	DIM "C" (mm)	DIM "D" (mm)	DIM "E" (mm)	Plating
1 = 1 row 2 = 2 rows	002 to 040 (1 row) 004 to 080 (2 rows)	S 500	straight	1	5.00	1.50	0.42	2.50 (1 row) 5.00 (2 rows)	3.20	55 = gold Other platings on request
1 = 1 row	002 to 040 (1 row)	R 500	R/A	1	6.10	1.50	0.42	2.50 (1 row)		
1 = 1 row 2 = 2 rows	002 to 030 (1 row) 004 to 060 (2 rows)	S 680	straight	2	6.80	3.50	0.50	3.50 (1 row) 5.80 (2 rows)	3.50	
1 = 1 row 2 = 2 rows	002 to 040 (1 row) 004 to 080 (2 rows)	S 710	straight	1	7.10	1.50	0.22	2.50 (1 row) 5.00 (2 rows)	3.20	
1 = 1 row 2 = 2 rows	002 to 040 (1 row) 004 to 080 (2 rows)	S 850	straight	1	8.50	1.50	0.22	3.00 (1 row) 5.50 (2 rows)	3.20	



single row



dual row

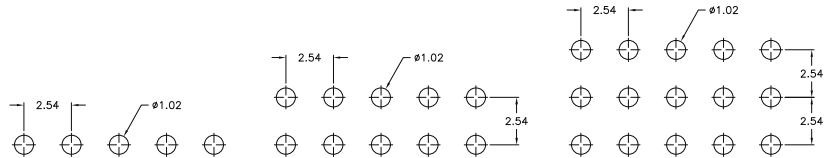


triple row

APPLICATION AND FEATURES

- Various heights for board-to-board connections
- Ideal solution for PC/104-Plus Systems
- Accepts 0.64mm square pins
- Hi-rel fork contact design

PCB Hole Layout



SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

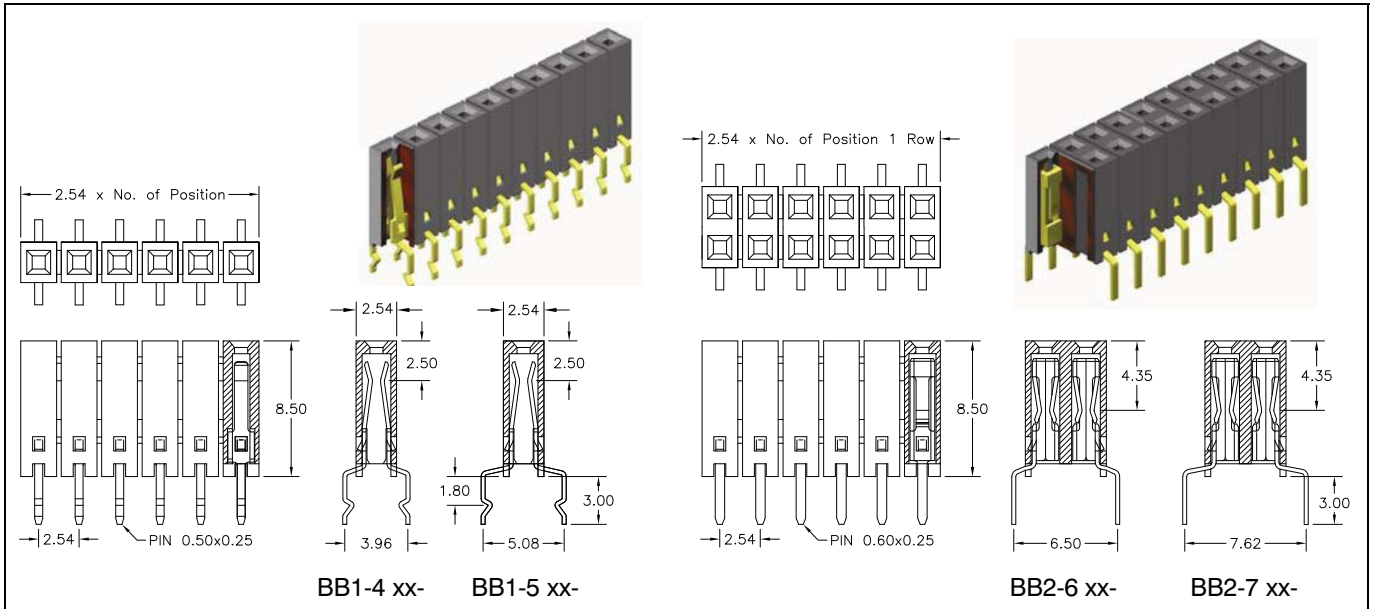
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

How to order

BE x - **xxx** - **S** xxx - **55**

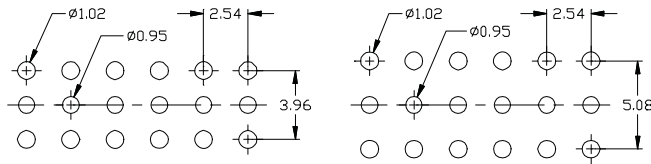
Rows	Nbr of contacts	Version	DIM "A" (mm / inch)	DIM "B" (mm / inch)	Plating
1 = single row	single row = 002 to 040	111	11.05 / .435	2.30 / .091	55 = gold Other platings on request
2 = dual row	dual row = 004 to 080	112	11.05 / .435	7.35 / .289	
3 = triple row	triple row = 006 to 120	113	11.05 / .435	12.20 / .480	
		131	13.59 / .535	4.85 / .191	
		132	13.59 / .535	9.65 / .380	
		161	16.13 / .635	2.30 / .091	
		162	16.13 / .635	7.10 / .280	
		181	18.67 / .735	4.60 / .181	
		Other dimensions on request			

2.54mm pitch Female Header
 - THT - dual entry type 8.50mm profile

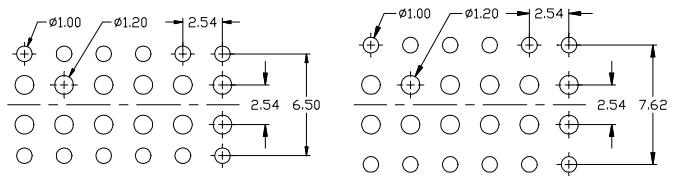


PCB Hole Layout

single row - 3.96 mm & 5.08 mm pin spacing



dual row - 6.50 mm & 7.62 mm pin spacing



APPLICATION AND FEATURES

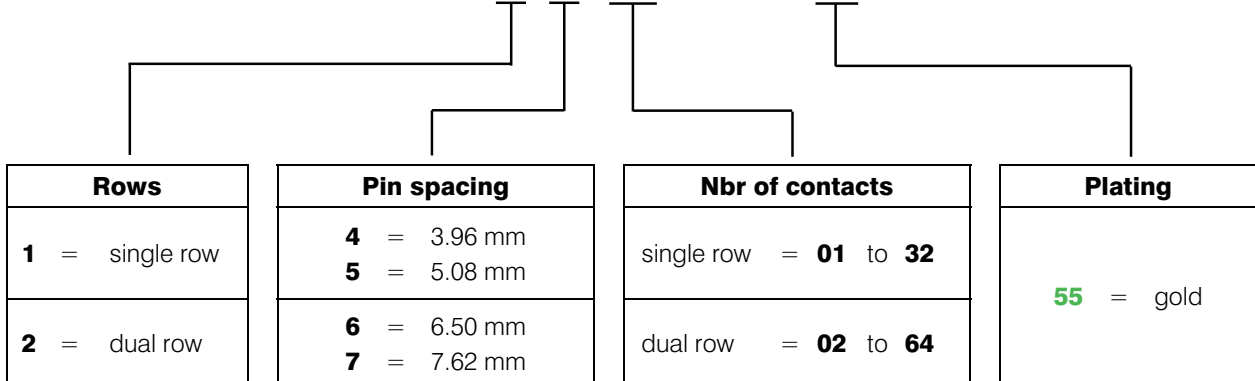
- Hi-rel dual beam contact assures reliable PCB connections
- Dual entry design for board stacking
- Accepts 0.64mm square pins
- Stand-off's facilitate post solder cleaning

SPECIFICATIONS

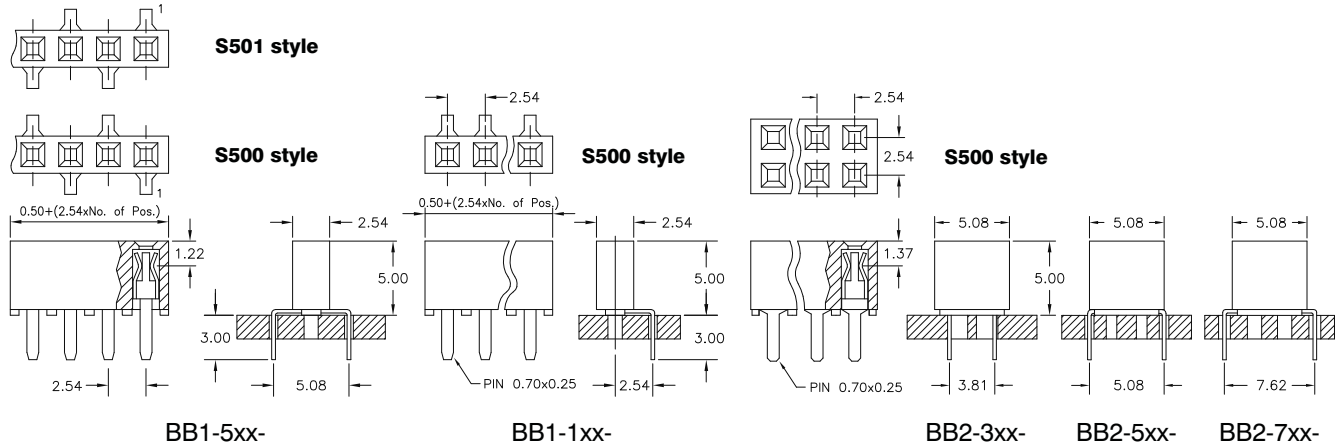
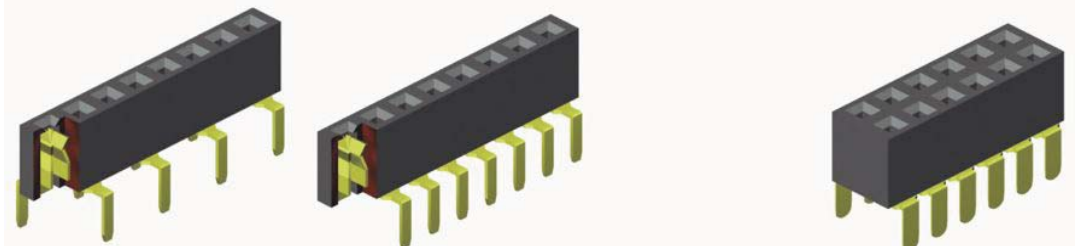
Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	LCP UL 94 V-0

How to order

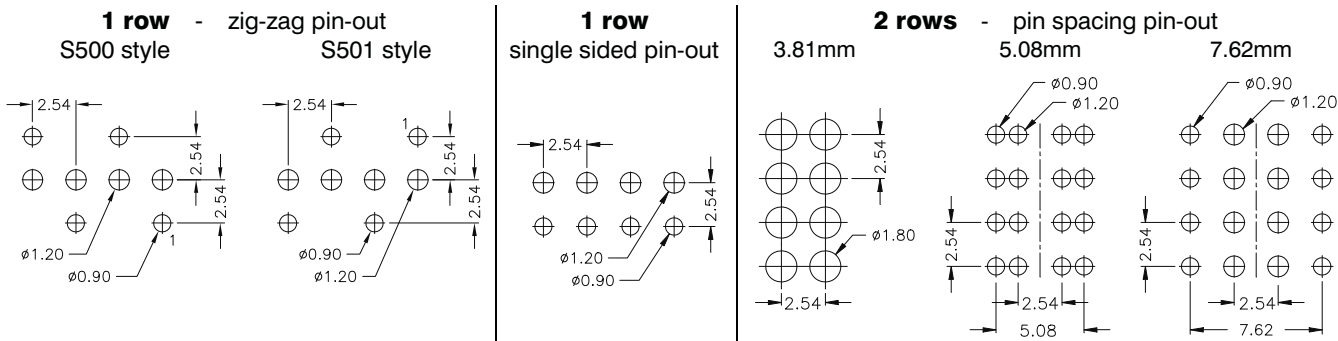
BB x - x xx - B850 - 55



2.54mm pitch Female Header
 - THT - dual entry type low profile



PCB Hole Layout



APPLICATION AND FEATURES

- Hi-rel dual beam contact assures reliable PCB connections
- Dual entry design for board stacking
- Accepts 0.64mm square pins
- Stand-off's facilitate post solder cleaning

SPECIFICATIONS

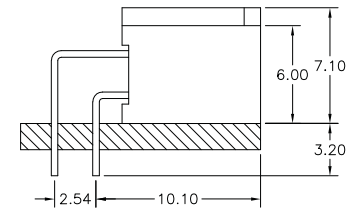
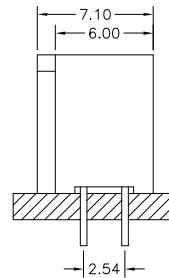
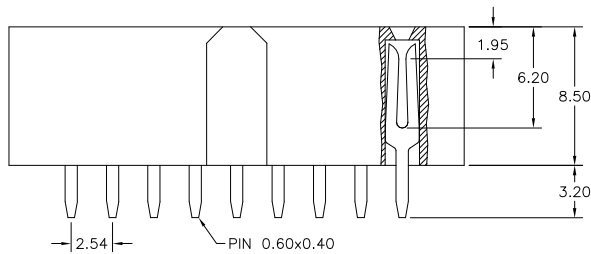
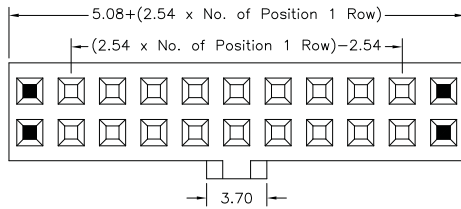
Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	P.B.T. UL 94 V-0

How to order

BB x - x xx - S xxx - 55

Rows	Pin spacing	Nbr of contacts	Foot Style	Plating
1 = single row	1 = single side only 5 = 5.08mm zig-zag	single row 02 to 40	single row 500 & 501 Pls. choose 500 style if odd pin count.	55 = gold
2 = dual row	3 = 3.81 mm 5 = 5.08 mm 7 = 7.62 mm	dual row 04 to 80	dual row 500	

2.54mm pitch Female Header
 - THT - for "Box Header" mating



APPLICATION AND FEATURES

Mating with box (shrouded) header 2.54mm pitch

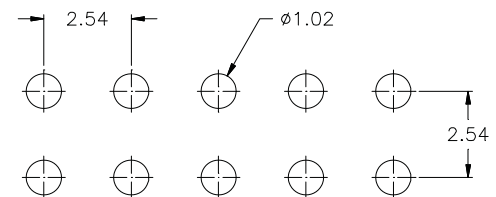
SLS-xxx-S920-xx, SLS-xxx-R920-xx, SLS-xxx-Dxxx-xx & SLS-xxx-H885-xx/X

Standard with polarization bump.

SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to + 105°C
Contact material	Brass
Insulator Material	P.B.T. UL 94 V-0

PCB Hole Layout



How to order

BW 2 - xxx - X 850 - 55 / P

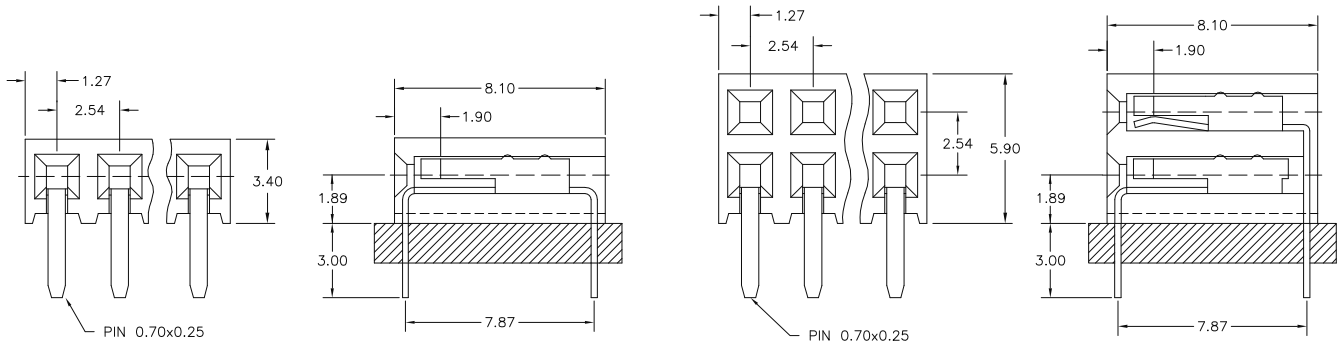
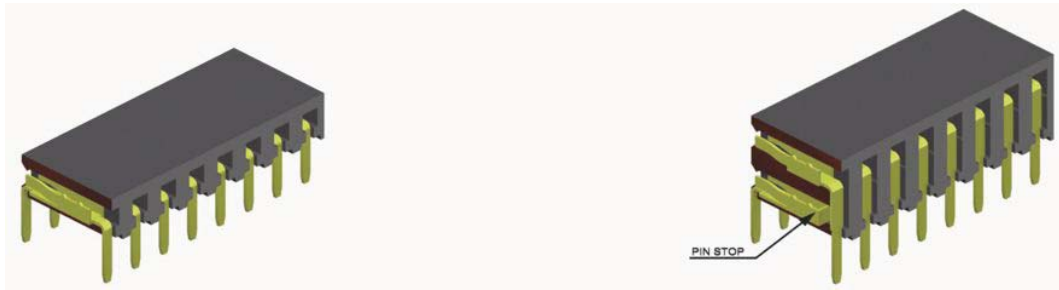
Nbr of contacts
006; 008; 010; 014
016; 020; 024; 026
030; 034; 040; 044
048; 050; 060; 064

Connector style
S = straight
R = right angle

Plating
55 = gold
Other platings on request

2.54mm pitch Female Header

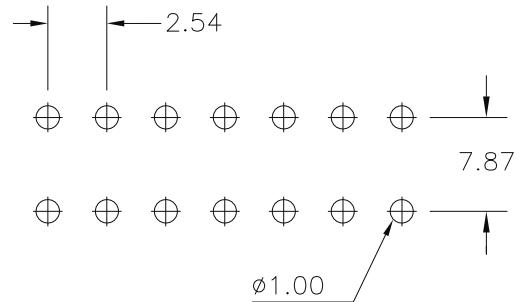
- THT - side entry type



APPLICATION AND FEATURES

- Hi-rel dual beam contact assures reliable PC-board connections
- Accepts 0.64mm square pins
- Stand-off's facilitate post solder cleaning
- 3.40mm and 5.90mm height above board

PCB Hole Layout



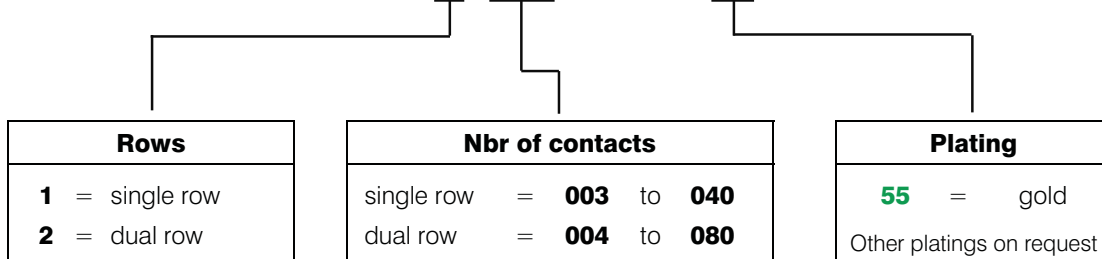
SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

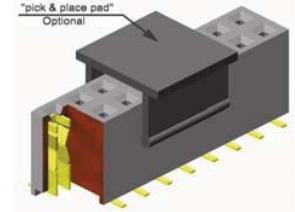
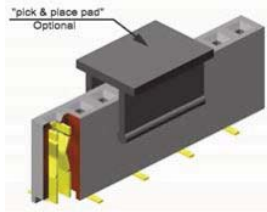
Operating temperature	- 40°C to + 105°C
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

How to order

BH **x** - **xxx** - R850 - **55**

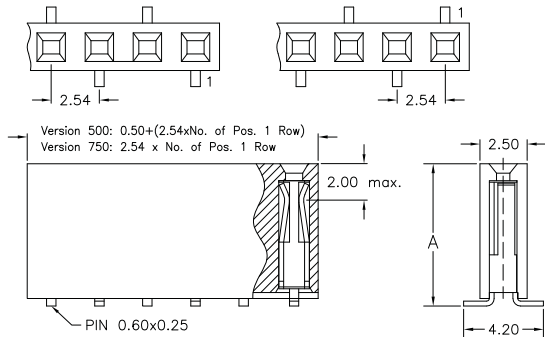


2.54mm pitch Female Header - SMT -
Top & Bottom Entry 7.50mm & 5.00mm profile

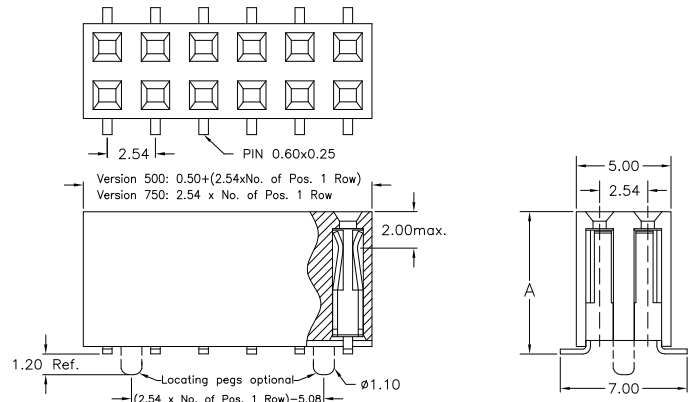


Version and Foot style

500 & 750



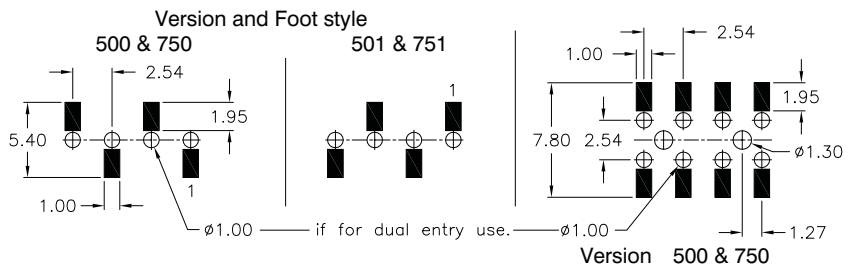
Version 500 & 750



APPLICATION AND FEATURES

- **Standard: tube packing and without "pick & place pad"**
- 5.00mm & 7.50mm height above board. Hi-rel dual beam contacts.
- Mating with 2.54mm pitch, 0.64mm sq. or round pin headers.

PCB Surface Mount & Hole Layout



SPECIFICATIONS

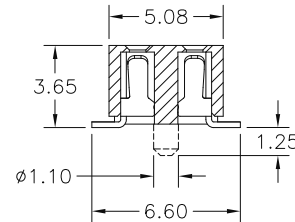
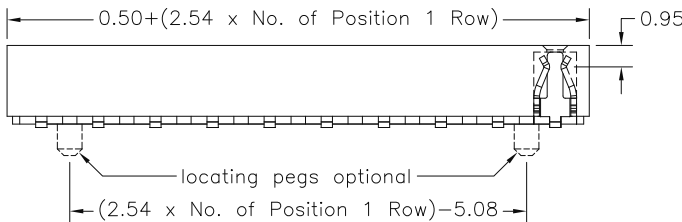
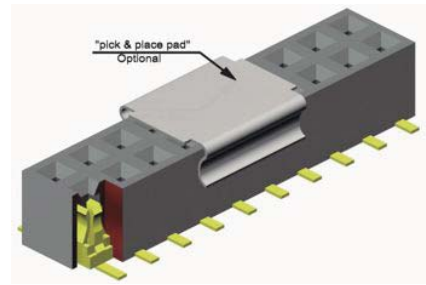
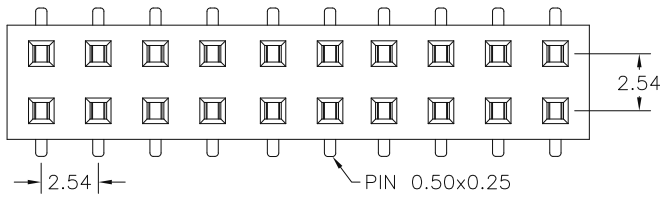
Current rating	3 A	Operating temperature	-40° C to +105° C
Insulator resistance	1000 MΩ min.	Processing temperature	+250° C +0/-5° C for 10sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	500 V AC	Insulator material	Nylon UL 94 V-0 (RoHS compliant)

How to order

BS x - xxx - H xxx - 55 / X

Rows	Nbr of contacts	Version & Foot style	Plating	Packing and "pick & place pad" Option
1 single row	002 to 040	500 DIM "A" = 5.00 mm 501 (optional foot layout) 750 DIM "A" = 7.50 mm 751 (optional foot layout) Pls. choose 500 or 750 style if odd pin count	55 = gold	A = tube packing; with pick & place pad B = reel packing; with pick & place pad
2 dual row	004 to 080	500 DIM "A" = 5.00 mm 750 DIM "A" = 7.50 mm	Other platings on request	without "locating pegs" A = tube packing; with pick & place pad B = reel packing; with pick & place pad with "locating pegs" C = tube packing; without pick & place pad D = tube packing; with pick & place pad E = reel packing; with pick & place pad

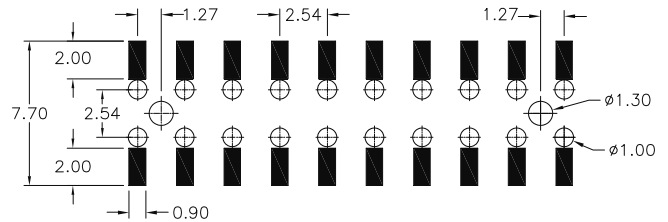
2.54mm pitch Female Header - SMT -
Top & Bottom Entry 3.65mm profile



APPLICATION AND FEATURES

- **Standard:**
tube packing and without "pick & place pad"
- 3.65mm height above board.
- Hi-rel dual beam contacts
- Designed for board to board small spacing interconnection
- Mating with 2.54mm pitch, 0.64mm square pin headers

PCB Surface Mount & Hole Layout



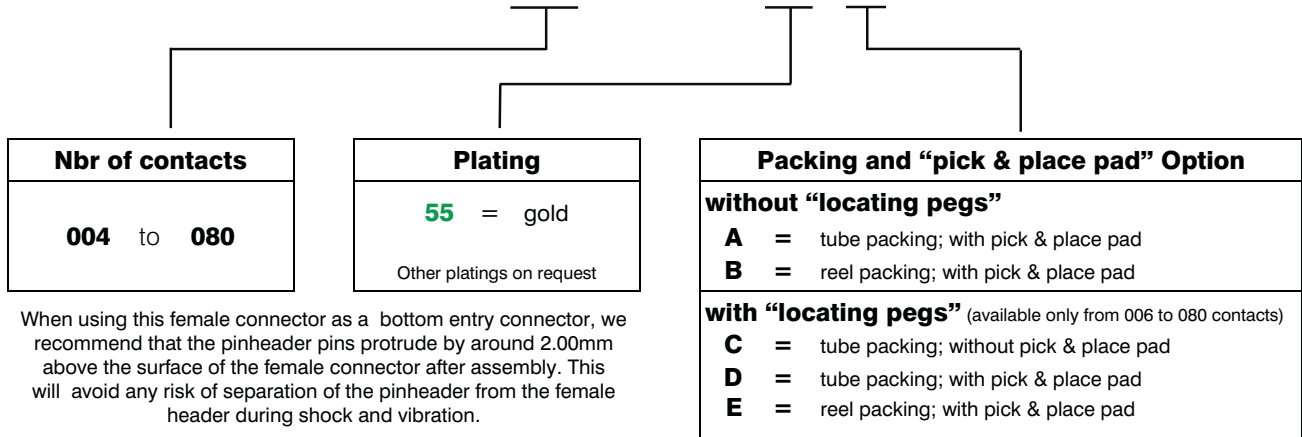
SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 M Ω min.
Contact resistance	20 m Ω max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Processing temperature	+250°C +0/-5°C for 10sec.
Contact material	(RoHS compliant) Phosphor Bronze
Insulator material	(RoHS compliant) Nylon UL 94 V-0

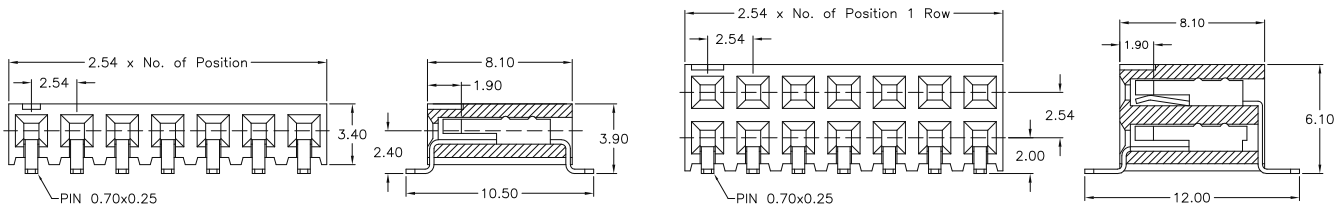
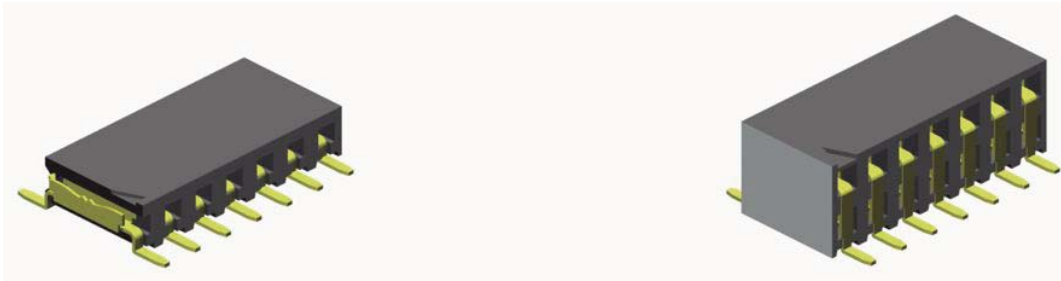
How to order

BS2 - xxx - TB 365 - 55 / X

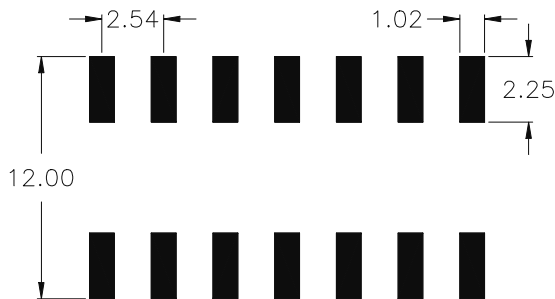


When using this female connector as a bottom entry connector, we recommend that the pinheader pins protrude by around 2.00mm above the surface of the female connector after assembly. This will avoid any risk of separation of the pinheader from the female header during shock and vibration.

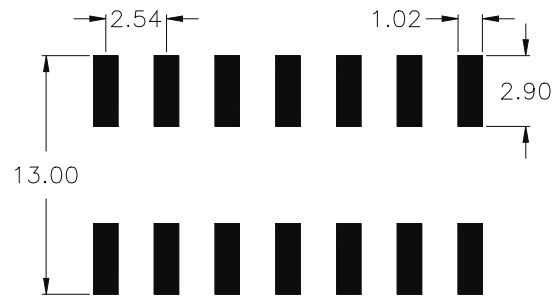
2.54mm pitch Female Header
 - SMT - side entry single & dual row



PCB Surface Mount Layout -single row-



PCB Surface Mount Layout -dual row-



APPLICATION AND FEATURES

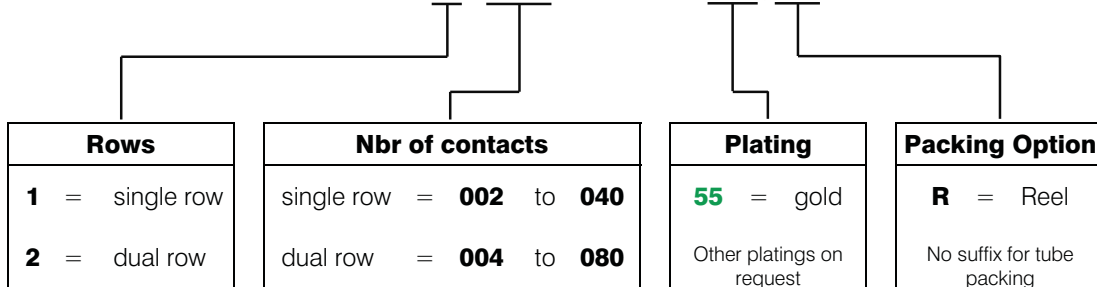
- **Standard: tube packing**
- Hi-rel dual beam contact assures reliable PC-board connections
- Accepts 0.64mm square pins
- Stand-off's facilitate post solder cleaning
- Lowest possible profile
- Automatic assembly to PCB possible

SPECIFICATIONS

Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Processing temperature	+250°C +0/-5°C for 10sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	500 V AC	Insulator material	Nylon (RoHS compliant) UL 94 V-0

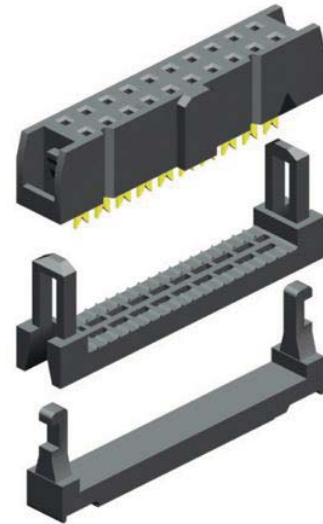
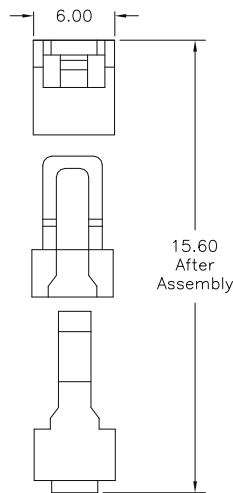
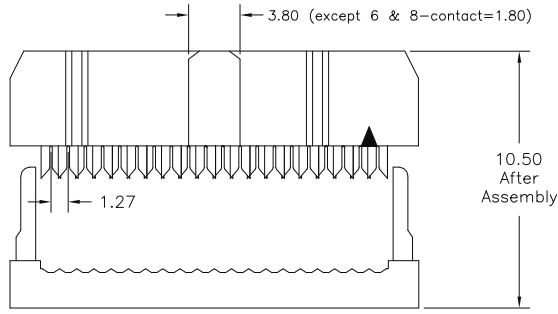
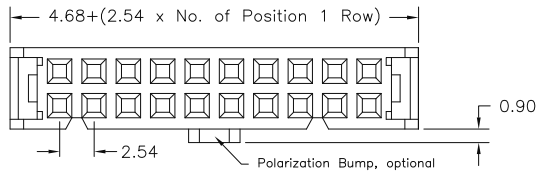
How to order

BS x - xxx - R390 - 55 / X



2.54mm pitch

IDC – Female Connector



SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material <i>(RoHS compliant)</i>	Brass
Contact resistance	30 mΩ max.	Plating	Nickel; Gold on mating area
Withstanding voltage	500 V AC	Insulator material <i>(RoHS compliant)</i>	P.B.T. black UL 94 V-0 (grey colour on request)

APPLICATION AND FEATURES

Designed to mate with 0.64mm square pins box (shrouded) header

High Quality contacts

Accepts 1.27mm pitch flat ribbon cable AWG 28 (0.20mm) or AWG 30 (0.17mm).

How to order

IDS - xxx - X 100 - N5 (/ P)

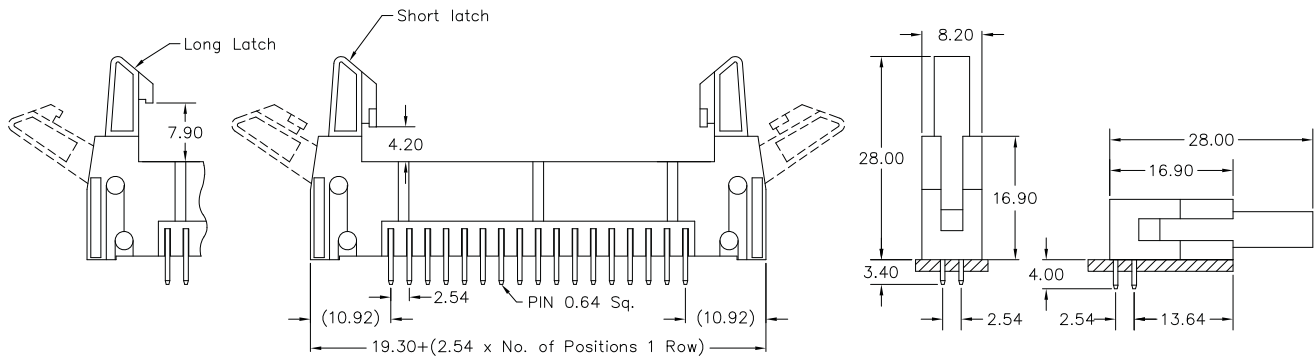
Nbr of contacts
006; 008; 010; 012
014; 016; 018; 020
024; 026; 030; 034
036; 040; 050; 060
064

Strain relief
S = With
W = Without

Option
P
if Polarization bump is requested

2.54mm pitch

DIN Header (DIN 41651)



APPLICATION AND FEATURES

Provides fast connection / disconnection of IDC connectors.

Assures reliable flat cable to PC - board assembly.

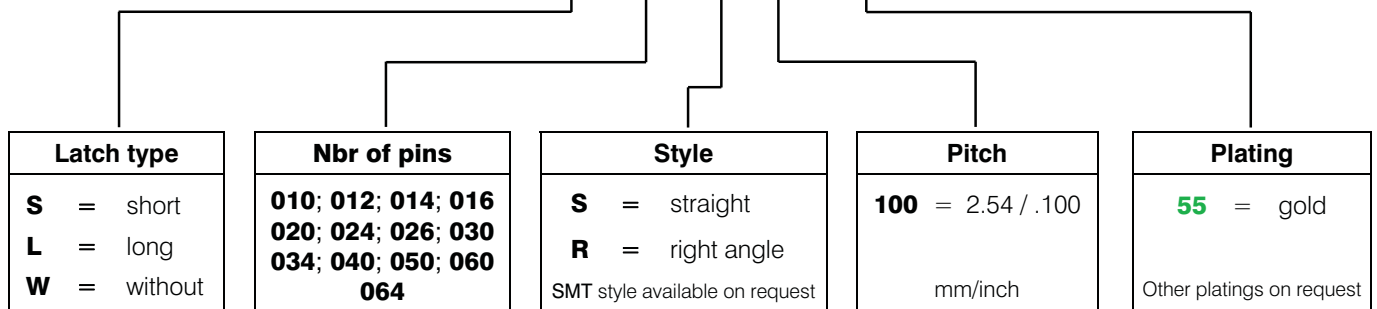
Optional latching features available.

SPECIFICATIONS

Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material (RoHS compliant)	Brass
Withstanding voltage	500 V AC	Insulator material (RoHS compliant)	P.B.T. UL 94 V-0 black colour

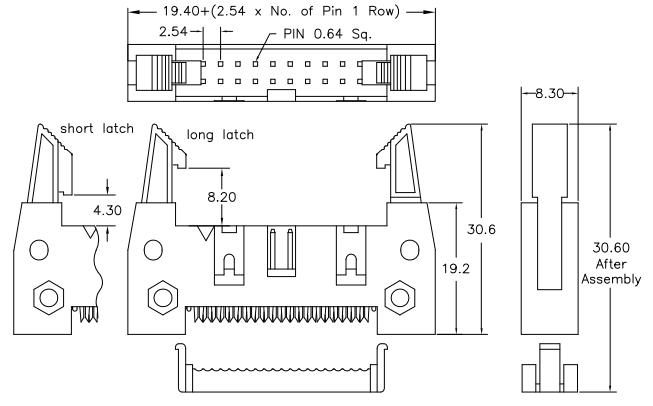
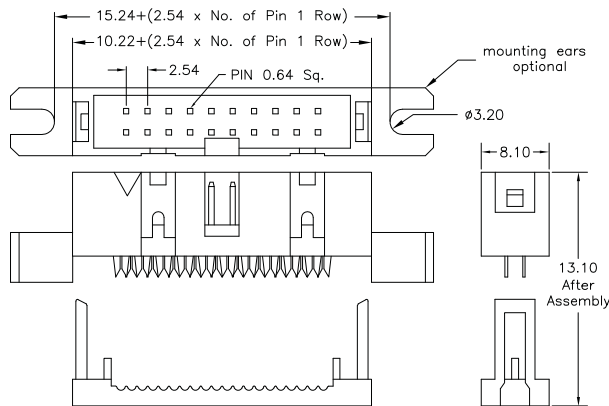
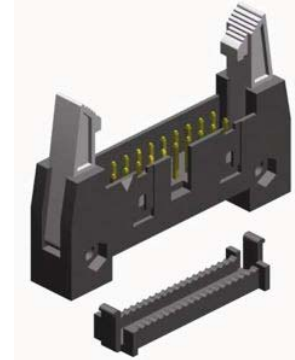
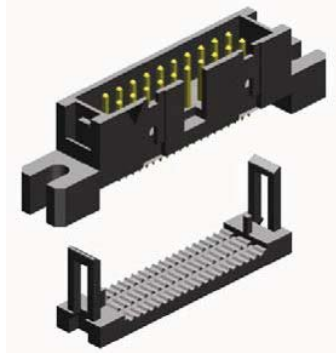
How to order

DH X - xxx - X 100 - 55



2.54mm pitch

IDC Shrouded Header



IDH Type

IDD Type

SPECIFICATIONS

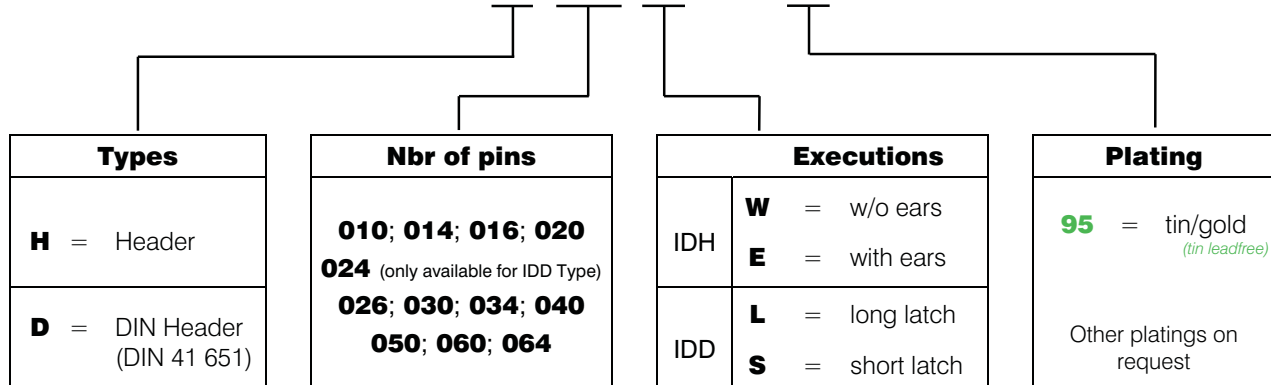
Current rating	3 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material	(RoHS compliant) Phosphor bronze
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) P.B.T. gray UL 94 V-0

APPLICATION AND FEATURES

Designed to mate with 2.54mm IDC female headers.
 Header type is available with or without mounting ears.
 DIN Header type is available with long & short eject latches.
 Standard Insulator colour gray, other colours on request

How to order

ID X - xxx - X 100 - 95



Mini – Jumpers

1.27mm, 2.00mm, 2.54mm & 5.08mm



1.27mm & 2.00 mm Mini - Jumpers			
<p>JPC – type - top closed -</p> <p>Order Code: JPC – 127 – BL – 55</p>	<p>JPE – type - top open -</p> <p>Order Code: JPE – 200 – BL – 55 Other colours: RD, BU, YL</p>	<p>JPC – type - top closed -</p> <p>Order Code: JPC – 200 – BL – 55</p>	<p>JPH – type - with handle -</p> <p>Order Code: JPH – 200 – BL – 55 Other colours: RD, BU, YL & WH</p>

2.54 mm & 5.08 mm Mini - Jumpers			
<p>JPE – type top open - commercial type -</p> <p>Order Code: JPE – 254 – BL – 55 Other colours: GR, RD, BU, YL & WH</p>	<p>JPC – type top closed</p> <p>Order Code: JPC – 254 – BL – 55 Other colours: GR, RD, BU, YL & WH</p>	<p>JPH – type with handle</p> <p>Order Code: JPH – 254 – BL – 55 Other colours: GR, RD, BU, YL & WH</p>	<p>JPC – type top closed</p> <p>Order Code: JPC – 508 – BL – 55</p>

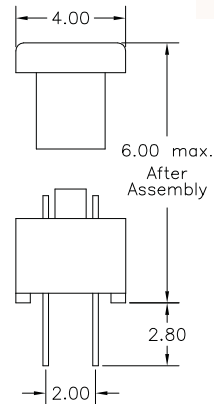
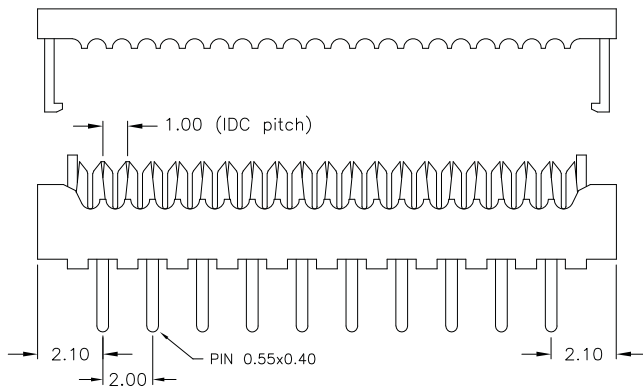
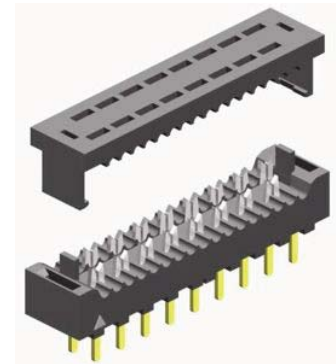
2.00 mm Multi - Jumper	2.54 mm Multi - Jumper
<p>Order Code: JPM – xx – 200 – BL – 55 No. of Jumper : 02 to 11</p>	<p>Order Code: JPM – xx – 254 – BL – 55 No. of Jumper : 02 to 10</p>

Non Insulated Wire Shorting Links			
<p>JPW – type 254</p> <p>Order Code: JPW – 254 – 55</p>	<p>JPW – type 508</p> <p>Order Code: JPW – 508 – 55</p>	<p>JPW – type 762</p> <p>Order Code: JPW – 762 – 55</p>	<p>JPW – type 102</p> <p>Order Code: JPW – 102 – 55</p>

Specifications	
<p>Max. current rating 1.27 & 2.00mm pitch : 1 A 2.54 & 5.08mm pitch : 3 A</p> <p>Insulator resistance 1000 MΩ min. Contact resistance 20 mΩ max. Withstanding voltage 500 V AC Operating temperature - 40°C to +105°C</p>	<p>Contact material JPC, JPE, JPH & JPM: Phosphor Bronze JPW: Brass; Ø 0.51 +0.25/-0.00</p> <p>Plating Jumper & Wire Shorting Links Au plated</p> <p>Insulator material P.B.T. UL 94 V-0 (RoHS compliant)</p> <p>Colour attributes BL = black for Jumpers <i>Standard</i> RD = red BU = blue GR = green WH = white YL = yellow <i>Other colours on request</i></p>

IDC – DIP Plug 2.00mm x 2.00mm

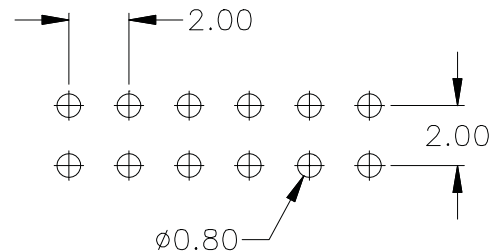
IDC pitch 1.00mm



APPLICATION AND FEATURES

- A perfect solution for attaching a 1.00mm pitch flat ribbon cable to a PC-board
- Low-profile, only 6.00mm above board
- Designed for plug into socket or direct soldering to a PC-board

PCB Hole Layout



SPECIFICATIONS

Current rating	1 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC

Operating temperature	- 40°C to +105°C
Contact material (RoHS compliant)	Phosphor Bronze
Insulator material (RoHS compliant)	P.B.T. UL 94 V-0

How to order

IDP - xxx - S 200 - N5

Nbr of contacts

**006; 008; 010; 012; 014
016; 020; 022; 024; 026
030; 034; 040; 044; 050
060; 068**

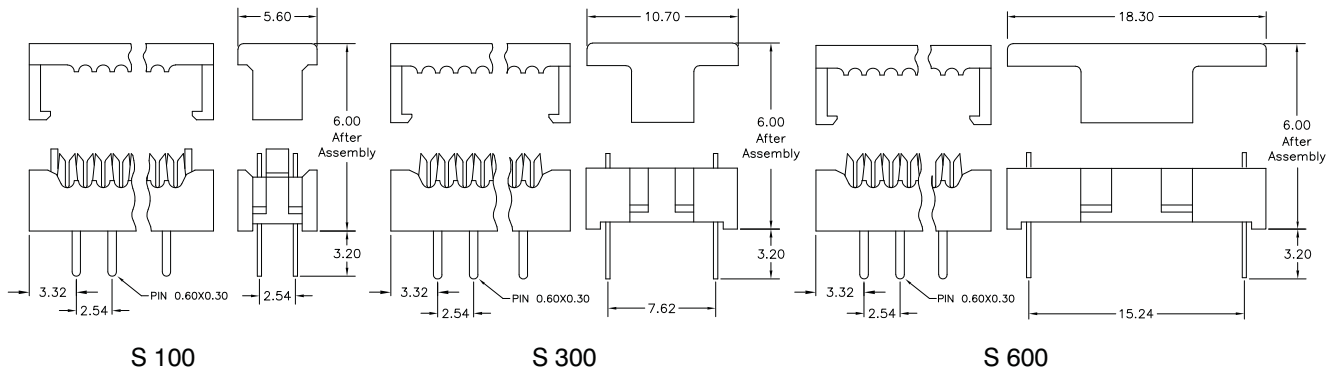
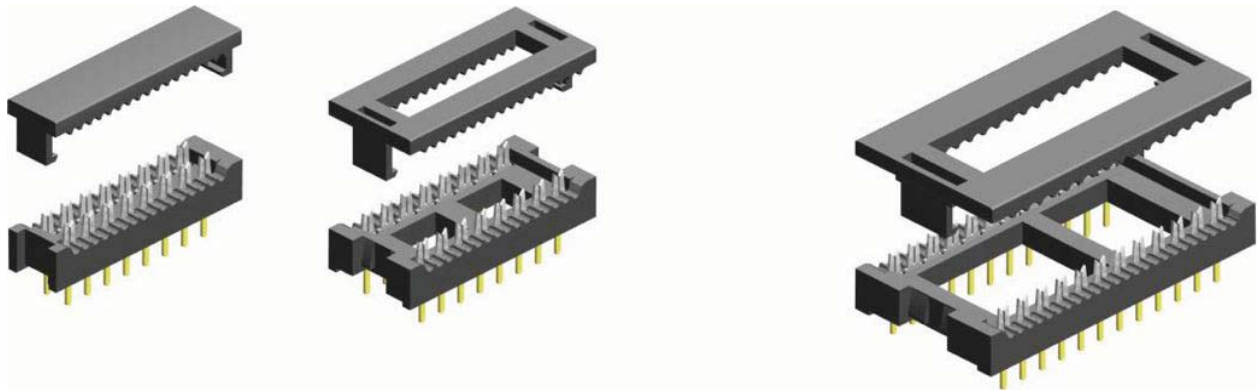
Plating

N5

Ni on IDC area / Au on solder tail

IDC – DIP Plugs 2.54mm

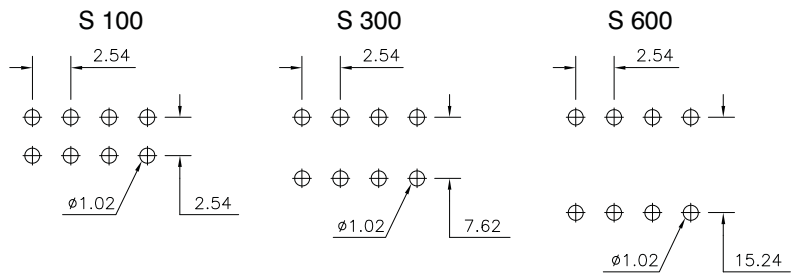
IDC pitch 1.27mm



APPLICATION AND FEATURES

- A perfect solution for attaching a 1.27mm flat ribbon cable to a PC-board
- Low-profile, only 6.00mm above board
- Designed for direct soldering to a PC-board

PCB Hole Layout



SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material (RoHS compliant)	Phosphor Bronze
Contact resistance	30 mΩ max.	Insulator material (RoHS compliant)	P.B.T. UL 94 V-0
Withstanding voltage	500 V AC		

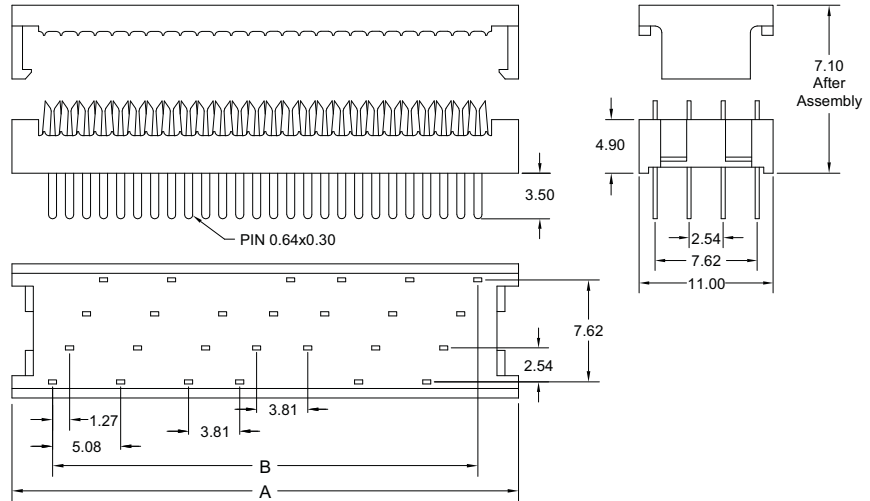
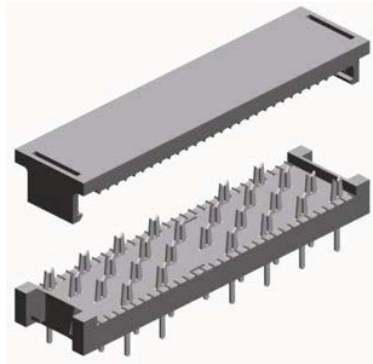
How to order

IDP - xxx - S xxx - **N5**

Nbr of contacts			DIP Plug style		Plating
S 100 Style	S 300 Style	S 600 Style	Code	Pitch (mm/inch)	
006; 008; 010; 012	008; 010; 014	010; 014; 016	S 100	2.54 / .100	N5 Ni on IDC area/Au on solder tail
014; 016; 020; 024	016; 018; 020	018; 020; 024	S 300	7.62 / .300	
026; 030; 034; 040	024; 026; 028	026; 028; 032	S 600	15.24 / .600	
050; 060; 064	034; 040	034; 036; 040			

IDC Transition Connector - THT -

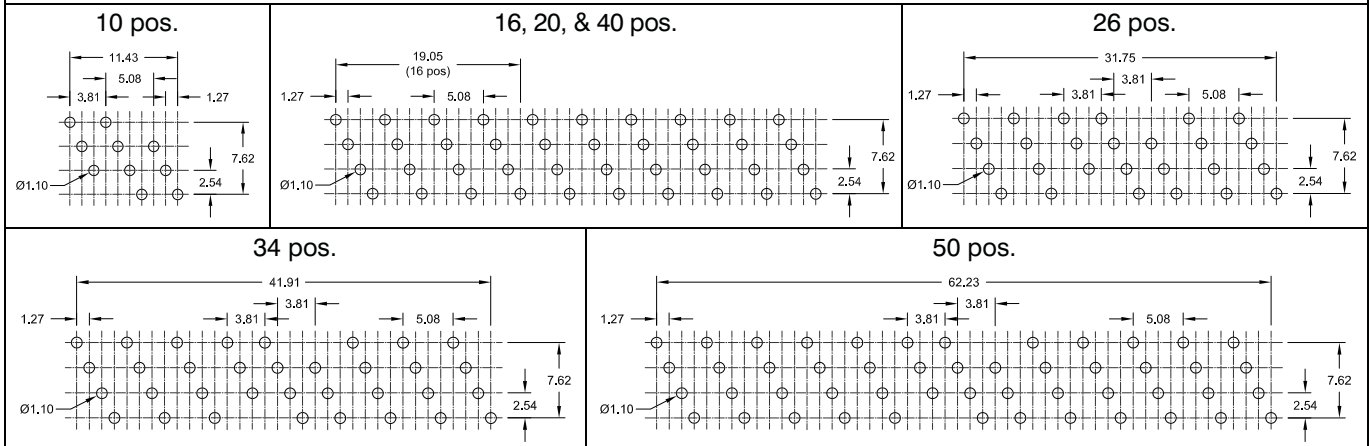
IDC pitch 1.27mm



DIMENSIONS (mm/inch)

DIM	10 pos.	16 pos.	20 pos.	26 pos.	34 pos.	40 pos.	50 pos.
A	18.17 / .715	25.79 / 1.015	30.87 / 1.215	38.49 / 1.515	48.65 / 1.915	56.27 / 2.215	68.97 / 2.715
B	11.43 / .450	19.05 / .750	24.13 / .950	31.75 / 1.250	41.91 / 1.650	49.53 / 1.950	62.23 / 2.450

PCB HOLE LAYOUTS



APPLICATION AND FEATURES

Designed for 1.27mm (.050") centre flat ribbon cable.
 Low profile with only 5.80mm above board after assembly.
 Designed for direct soldering to PCB.

SPECIFICATIONS

Current rating	1 A	Operating temperature	- 40°C to +105°C
Insulator resistance	1000 MΩ min.	Contact material (RoHS compliant)	Phosphor Bronze
Contact resistance	30 mΩ max.	Insulator material (RoHS compliant)	P.B.T. UL 94 V-0
Withstanding voltage	500 V AC		

How to order

IDP - xxx - T050 - 99

Nbr of contacts

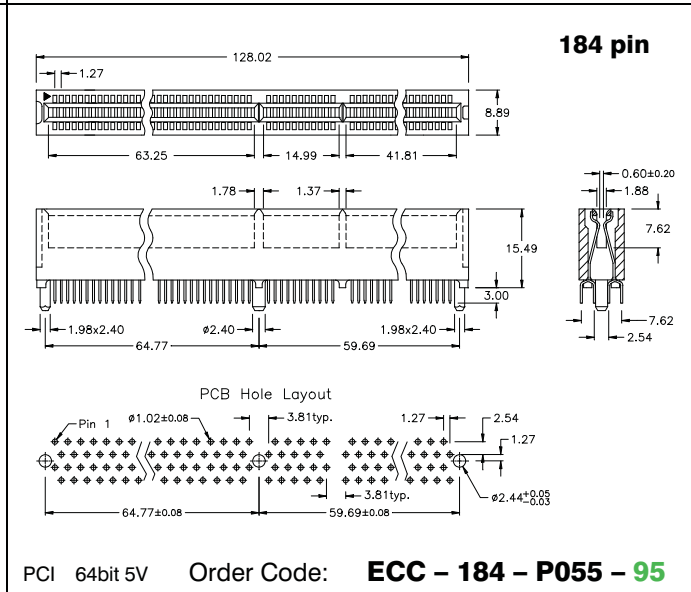
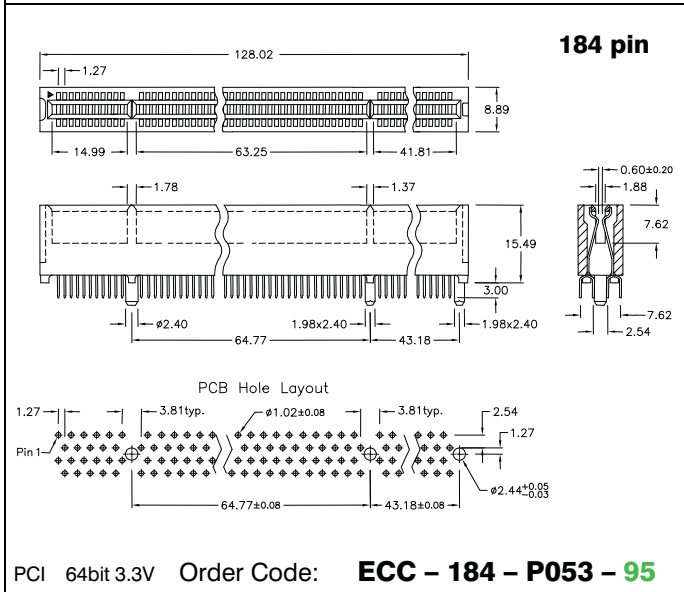
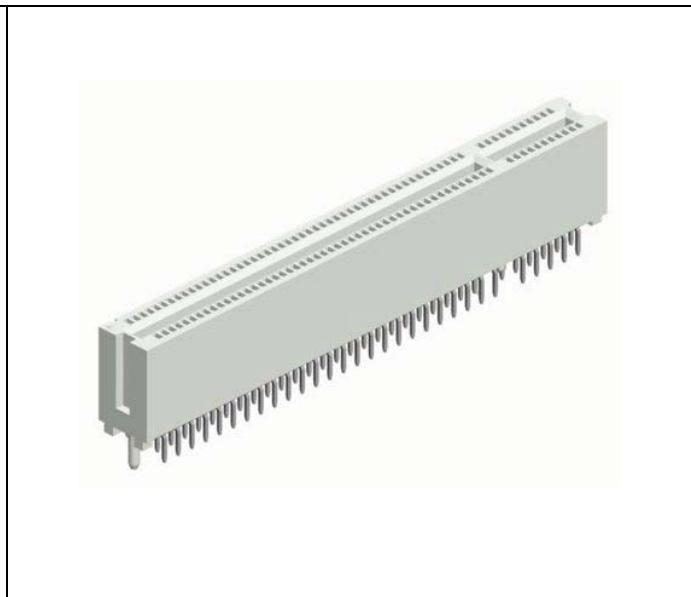
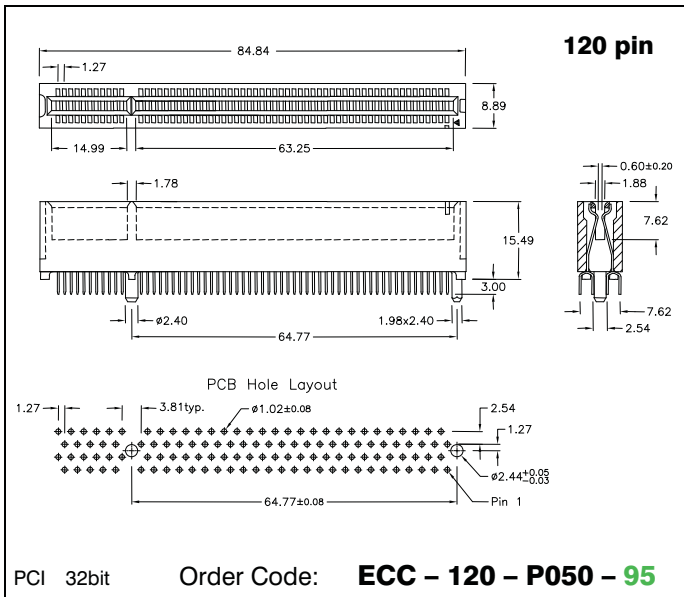
010; 016; 020; 026
034; 040; 050

Plating

99 = tin (leadfree)
 Other platings on request

PCI Card Edge Connector - THT -

1.27mm pitch

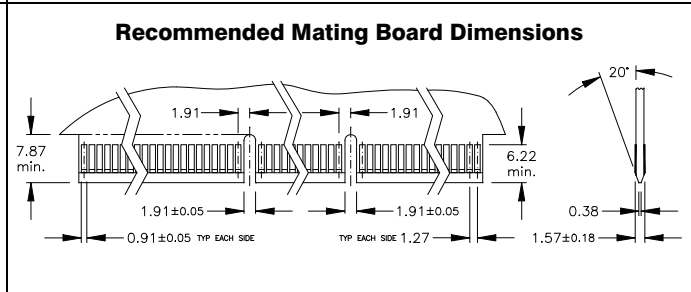


APPLICATION AND FEATURES

1.27mm contact centre pitch.

Hi-rel dual beam contact assures reliable PC Board connections.

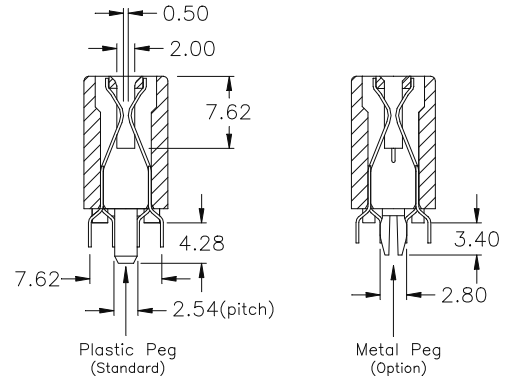
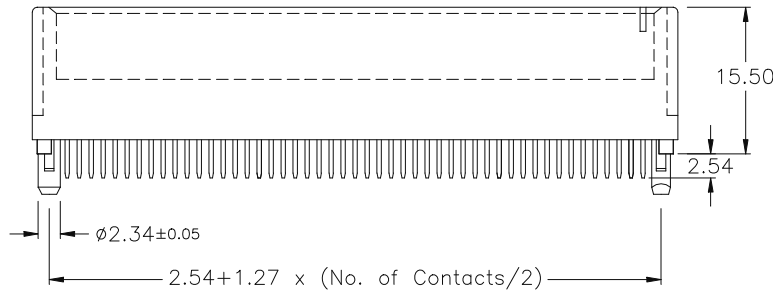
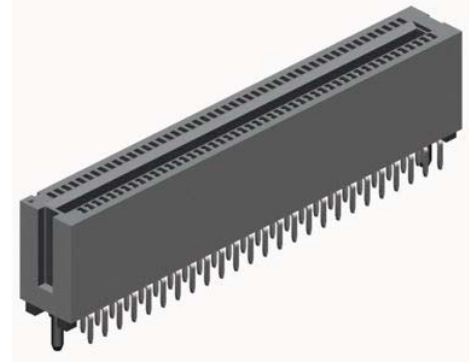
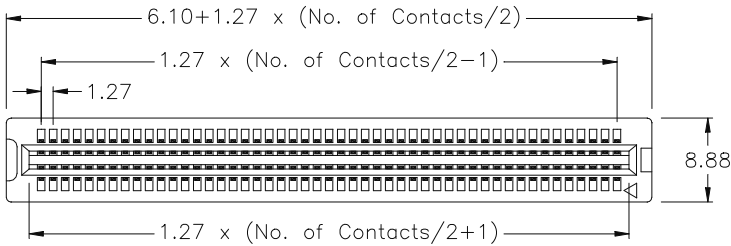
Accepts PCB thickness of 1.57mm ± 0.18



SPECIFICATIONS	
Current rating	1 A
Insulation resistance	1000 M Ω min.
Contact resistance	30 m Ω max.
Withstanding voltage	500 V AC rms. 60Hz for 1 Minute
Capacitance	2pF max.
Voltage	250 V AC rms.
Operating temperature	- 55°C to +85°C
Solder temperature	260°C +/-5°C for 10Sec.
Contact material	Copper alloy (RoHS compliant)
Plating	Contact area - Au over Ni Solder tail area - Sn over Ni (tin leadfree)
Insulator material (white colour)	Nylon 66 UL 94 V-0 (RoHS compliant)
Contact retention	460g min. per contact
Insertion force	230g max. per contact pair
Withdrawal force	15g min. per contact pair

Card Edge Connector - THT -

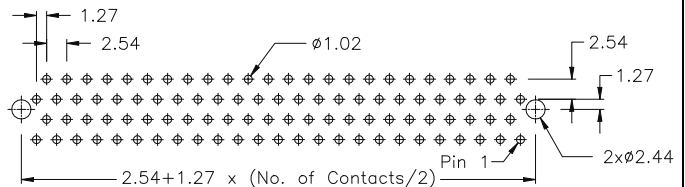
1.27mm pitch



APPLICATION AND FEATURES

Hi-rel dual beam contact assures reliable PC Board connections.
 Accepts PCB thickness of 1.57mm ±0.18
 1.27mm contact centre pitch.

PCB Hole Layout



SPECIFICATIONS

Current rating	1 A
Insulation resistance	1000 MΩ min.
Contact resistance	30 mΩ max.
Withstanding voltage	500 V AC
Capacitance	2pF max.
Voltage	250 V

Operating temperature	-55°C to +85°C
Contact material	Copper alloy (RoHS compliant)
Plating	Contact area - Au over Ni Solder tail area - Sn over Ni (tin leadfree)
Insulator material (black colour)	Nylon 66 UL 94 V-0 (RoHS compliant)
Insertion force	230g max. per contact pair
Retention force	460g min. per contact pair

How to order

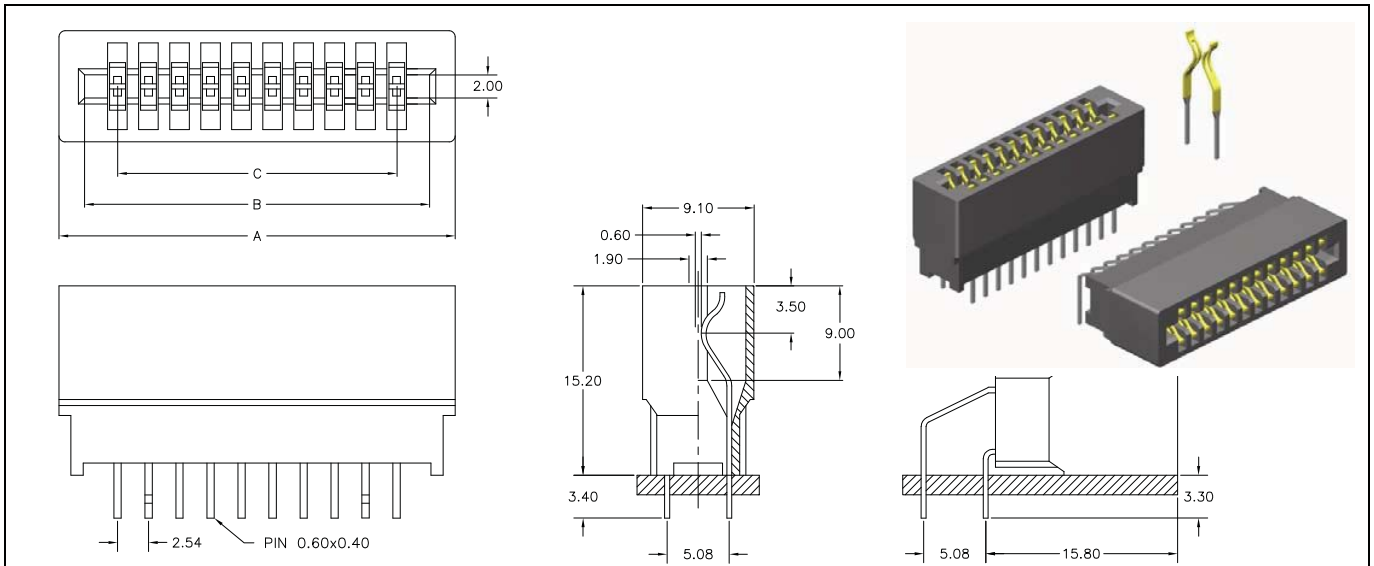
ECC - xxx - S050 - 95/ X

Nbr of contacts
004; 006; 008; 010; 012; 014; 016; 018; 020
022; 024; 026; 028; 030; 032; 034; 036; 038
040; 042; 044; 046; 048; 050; 052; 054; 056
058; 060; 068; 080; 100; 120; 124; 128
Other contacts on request

Plating
95 = tin/gold (tin leadfree)
Other platings on request

Peg Option
N = metal peg
plastic peg is standard; no Option suffix

Card Edge Connector - THT - 2.54mm pitch "X" Contact Style



APPLICATION AND FEATURES

Hi-rel dual beam contact assures reliable PC-board connection.
Accepts PC Board thickness of 1.37mm to 1.78mm.
26, 36, 60, 62 and 120 contact type will be delivered with some kinked legs

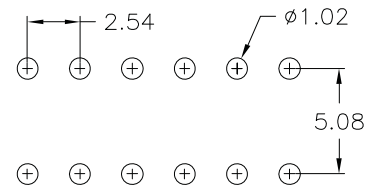
Connectors with mounting ears or solder eyes are also available.

Please contact your nearest sales office for more details.

"X" Contact Style



PCB Hole Layout



Important:

*The PCB Layout is not identical for all pincount's
Individual datasheets are available on request.*

SPECIFICATIONS

Current rating 3 A
Insulator resistance 1000 MΩ min.
Contact resistance 20 mΩ max.
Withstanding voltage 500 V AC

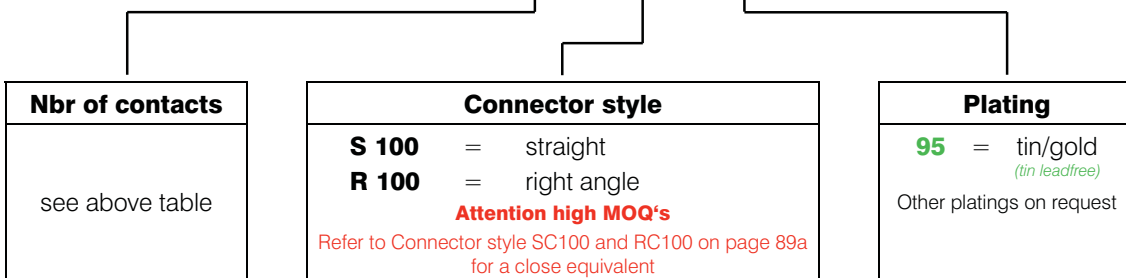
Operating temperature -40°C to +105°C
Contact material (RoHS compliant) Brass
Insulator material (RoHS compliant) P.B.T. UL 94 V-0
Insertion force 340g max. / pair
Withdrawal force 28g min. / pair

DIMENSIONS (mm)

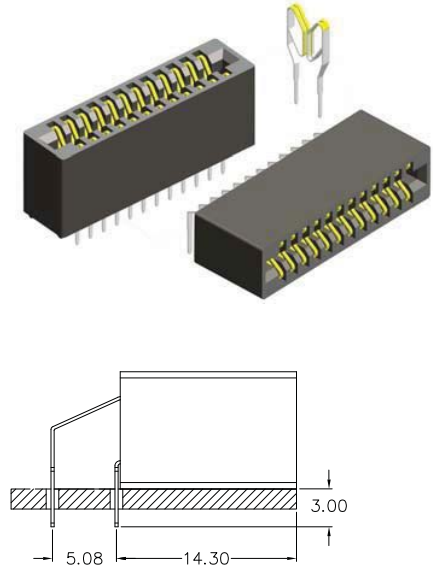
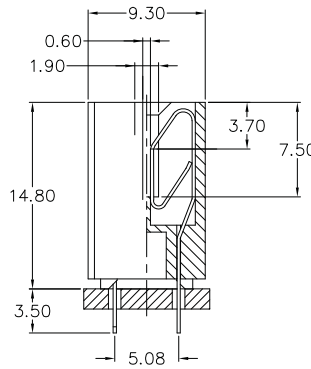
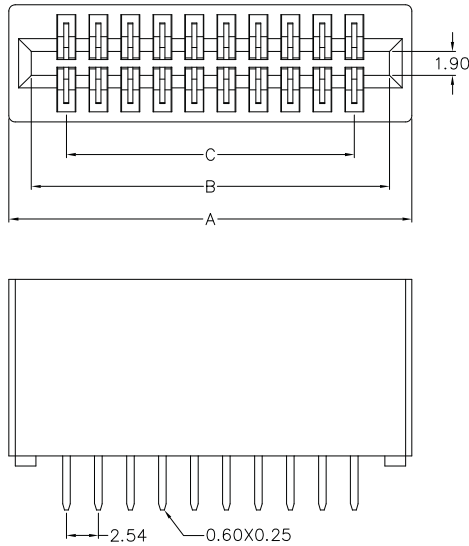
Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"	Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"	Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"
S & R	006	14.22	10.16	5.08	S & R	034	49.78	45.72	40.64	S & R	062	85.34	81.28	76.20
S & R	008	16.76	12.70	7.62	S & R	036	52.32	48.26	43.18	S & R	064	87.88	83.82	78.74
S & R	010	19.30	15.24	10.16	S & R	038	54.86	50.80	45.72	S & R	068	92.96	88.90	83.82
S & R	012	21.84	17.78	12.70	S & R	040	57.40	53.34	48.26	S & R	070	95.50	91.44	86.36
S & R	014	24.38	20.32	15.24	S & R	042	59.94	55.88	50.80	S & R	072	98.04	93.98	88.90
S & R	016	26.92	22.86	17.78	S & R	044	62.48	58.42	53.34	S & R	080	108.20	104.14	99.06
S & R	018	29.46	25.40	20.32	S & R	046	65.02	60.96	55.88	S & R	086	115.82	111.76	106.68
S & R	020	32.00	27.94	22.86	S & R	048	67.56	63.50	58.42	S & R	092	123.44	119.38	114.30
S & R	022	34.54	30.48	25.40	S & R	050	70.10	66.04	60.96	S & R	098	131.06	127.00	121.92
S & R	024	37.08	33.02	27.94	S & R	052	72.64	68.58	63.50	S & R	100	133.60	129.54	124.46
S & R	026	39.62	35.56	30.48	S & R	054	75.18	71.12	66.04	S & R	104	138.68	134.62	129.54
S & R	028	42.16	38.10	33.02	S & R	056	77.72	73.66	68.58	S	110	146.30	142.24	137.16
S & R	030	44.70	40.64	35.56	S & R	058	80.26	76.20	71.12	S	120	159.00	154.94	149.86
S & R	032	47.24	43.18	38.10	S & R	060	82.80	78.74	73.66					

How to order

ECC - xxx - X100 - 95



Card Edge Connector - THT - 2.54mm pitch "M" Contact Style



APPLICATION AND FEATURES

Hi-rel dual beam contact assures reliable PC-board connection.
Accepts PC Board thickness of 1.00mm to 1.60mm.

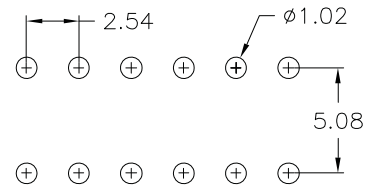
Connectors with mounting ears or solder eyes are also available.

Please contact your nearest sales office for more details.

"M" Contact Style



PCB Hole Layout



Important:

The PCB Layout is not identical for all pincount's
Individual datasheets are available on request.

SPECIFICATIONS

Current rating 3 A
Insulator resistance 1000 M Ω min.
Contact resistance 20 m Ω max.
Withstanding voltage 1000 V AC

Operating temperature -55°C to +85°C
Contact material (RoHS compliant) Brass
Insulator material (RoHS compliant) P.B.T. UL 94 V-0
Insertion force 340g max. / pair
Withdrawal force 28g min. / pair

DIMENSIONS (mm)

Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"	Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"	Style	No. of Contacts	DIM "A"	DIM "B"	DIM "C"
S & R	006	14.22	10.66	5.08	S & R	034	49.78	46.22	40.64	S & R	062	85.34	81.78	76.20
S & R	008	16.76	13.20	7.62	S & R	036	52.32	48.76	43.18	S & R	064	87.88	84.32	78.74
S & R	010	19.30	15.74	10.16	S & R	038	54.86	51.30	45.72	S & R	066	90.42	86.86	81.28
S & R	012	21.84	18.28	12.70	S & R	040	57.40	53.84	48.26	S & R	068	92.96	89.40	83.82
S & R	014	24.38	20.82	15.24	S & R	042	59.94	56.38	50.80	S & R	070	95.50	91.94	86.36
S & R	016	26.92	23.36	17.78	S & R	044	62.48	58.92	53.34	S & R	072	98.04	94.48	88.90
S & R	018	29.46	25.90	20.32	S & R	046	65.02	61.46	55.88	S & R	080	108.20	104.64	99.06
S & R	020	32.00	28.44	22.86	S & R	048	67.56	64.00	58.42	S & R	086	115.82	111.76	106.68
S & R	022	34.54	30.98	25.40	S & R	050	70.10	66.54	60.96	S & R	100	133.60	130.04	124.46
S & R	024	37.08	33.52	27.94	S & R	052	72.64	69.08	63.50	S & R	120	159.00	155.44	149.86
S & R	026	39.62	36.06	30.48	S & R	054	75.18	71.62	66.04					
S & R	028	42.16	38.60	33.02	S & R	056	77.72	74.16	68.58					
S & R	030	44.70	41.14	35.56	S & R	058	80.26	76.70	71.12					
S & R	032	47.24	43.68	38.10	S & R	060	82.80	79.24	73.66					

How to order

ECC - xxx - XC100 - 95

Nbr of contacts

see above table

Connector style

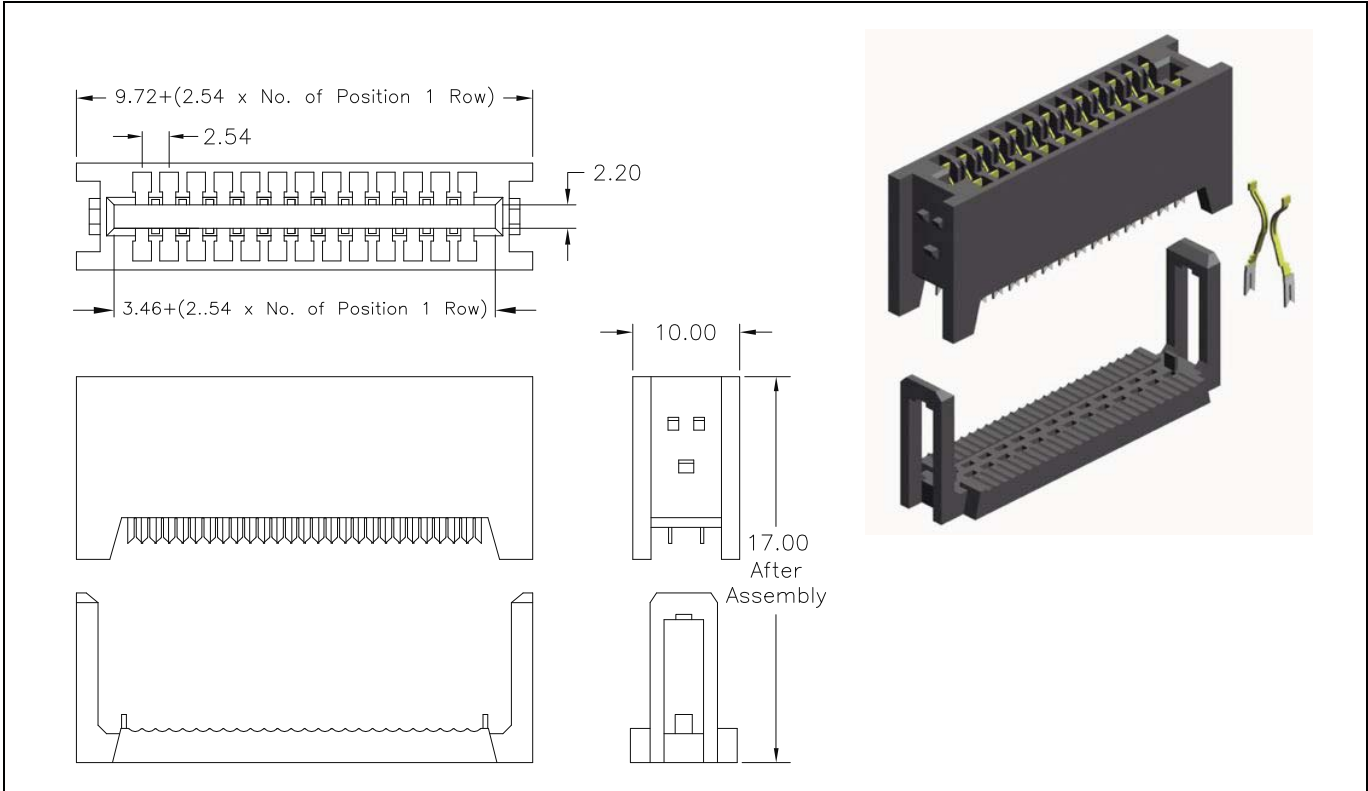
SC 100 = straight
RC 100 = right angle

Plating

95 = tin/gold
(tin leadfree)
Other platings on request

IDC – Card Edge Connector

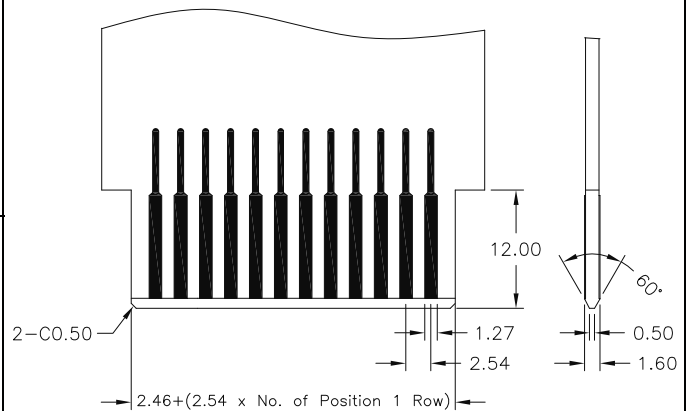
2.54mm pitch



SPECIFICATIONS

Current rating	3 A
Insulator resistance	1000 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC
Operating temperature	- 40°C to +105°C
Contact material	(RoHS compliant) Copper alloy
Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

Recommended PCB dimensions



APPLICATION AND FEATURES

Hi-rel dual beam contact for reliable PCB connections.
 Accepts PCB thickness of 1.37 to 1.78mm.
 Insulation displacement termination for 1.27mm flat cable.

How to order

IDC - xxx - W100 - N5

Nbr of contacts

010; 020; 026
034; 040; 050

Plating

N5
 Nickel in crimp & gold in contact area

Other platings on request

FPC/FFC Connector ZIF Type

- SMT - 0.50mm pitch vertical



Optional:
Connector with Pick up pad and reel packing

PCB Surface Mount Layout

Recommended FPC/FFC dimensions

thickness 0.30mm±0.05

Please ask your sales office for details on reel dimension.

SPECIFICATIONS

Current rating 0.4 A max.
 Insulator resistance 50 MΩ min.
 Contact resistance 30 mΩ max.
 Withstanding voltage 250 V AC/1 Min.

Operating temperature -55°C to +85°C
 Processing temperature +250°C +0/-5°C for 3sec.
 Contact material (RoHS compliant) Phosphor Bronze
 Contact plating Tin (leadfree)
 Insulator material (RoHS compliant) Nylon UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	6.00	2.60	016	12.00	8.60	028	18.00	14.60	040	24.00	20.60
005	6.50	3.10	017	12.50	9.10	029	18.50	15.10	041	24.50	21.10
006	7.00	3.60	018	13.00	9.60	030	19.00	15.60	042	25.00	21.60
007	7.50	4.10	019	13.50	10.10	031	19.50	16.10	043	25.50	22.10
008	8.00	4.60	020	14.00	10.60	032	20.00	16.60	044	26.00	22.60
009	8.50	5.10	021	14.50	11.10	033	20.50	17.10	045	26.50	23.10
010	9.00	5.60	022	15.00	11.60	034	21.00	17.60	046	27.00	23.60
011	9.50	6.10	023	15.50	12.10	035	21.50	18.10	047	27.50	24.10
012	10.00	6.60	024	16.00	12.60	036	22.00	18.60	048	28.00	24.60
013	10.50	7.10	025	16.50	13.10	037	22.50	19.10	049	28.50	25.10
014	11.00	7.60	026	17.00	13.60	038	23.00	19.60	050	29.00	25.60
015	11.50	8.10	027	17.50	14.10	039	23.50	20.10			

How to order

FCZ - xxx - V 050 - 99 /XX

Nbr of contacts

004 to 050

Plating

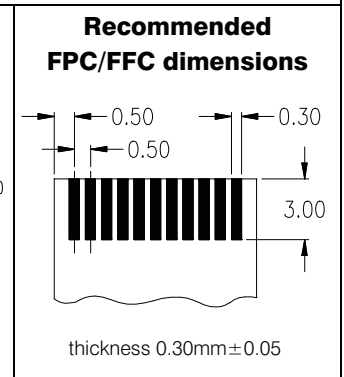
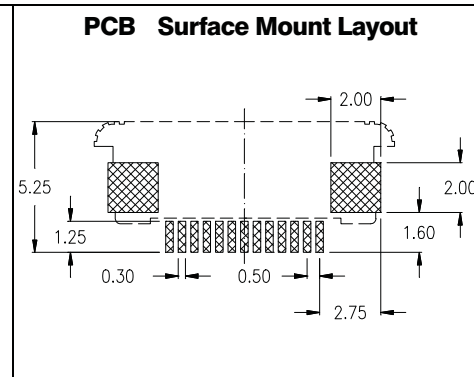
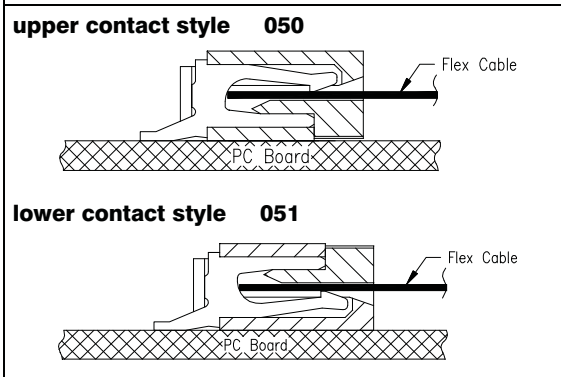
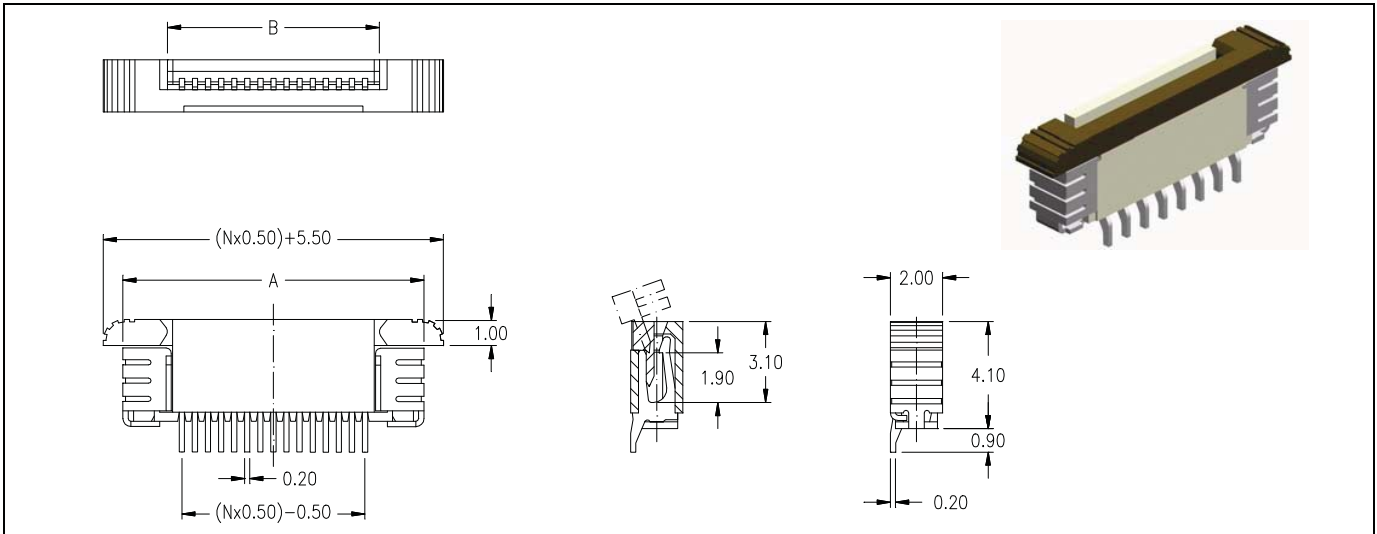
99 = tin
(leadfree)

Option

RP
If connector with "pick up pad"
and reel packing.
(reel packing QTY. on request)

FPC/FFC Connector ZIF Type

- SMT - 0.50mm pitch horizontal

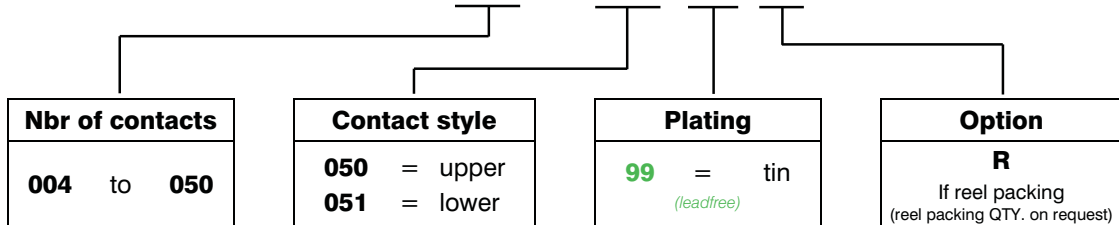


SPECIFICATIONS			
Current rating	0.4 A max.	Operating temperature	-55°C to +85°C
Insulator resistance	50 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	30 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	250 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (RoHS compliant) UL 94 V-0

Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	6.00	2.60	016	12.00	8.60	028	18.00	14.60	040	24.00	20.60
005	6.50	3.10	017	12.50	9.10	029	18.50	15.10	041	24.50	21.10
006	7.00	3.60	018	13.00	9.60	030	19.00	15.60	042	25.00	21.60
007	7.50	4.10	019	13.50	10.10	031	19.50	16.10	043	25.50	22.10
008	8.00	4.60	020	14.00	10.60	032	20.00	16.60	044	26.00	22.60
009	8.50	5.10	021	14.50	11.10	033	20.50	17.10	045	26.50	23.10
010	9.00	5.60	022	15.00	11.60	034	21.00	17.60	046	27.00	23.60
011	9.50	6.10	023	15.50	12.10	035	21.50	18.10	047	27.50	24.10
012	10.00	6.60	024	16.00	12.60	036	22.00	18.60	048	28.00	24.60
013	10.50	7.10	025	16.50	13.10	037	22.50	19.10	049	28.50	25.10
014	11.00	7.60	026	17.00	13.60	038	23.00	19.60	050	29.00	25.60
015	11.50	8.10	027	17.50	14.10	039	23.50	20.10			

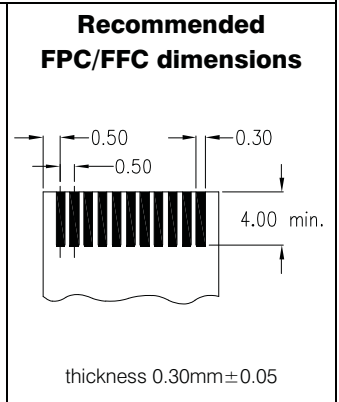
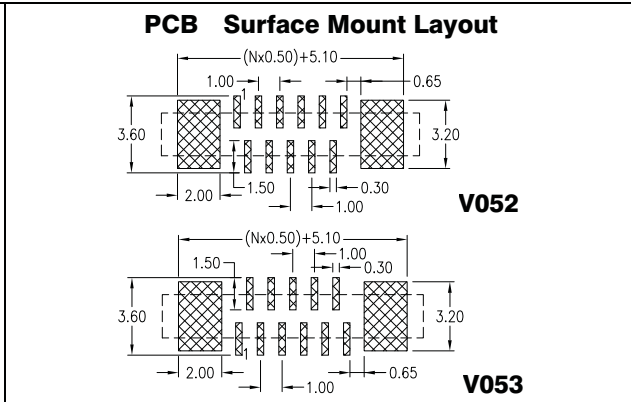
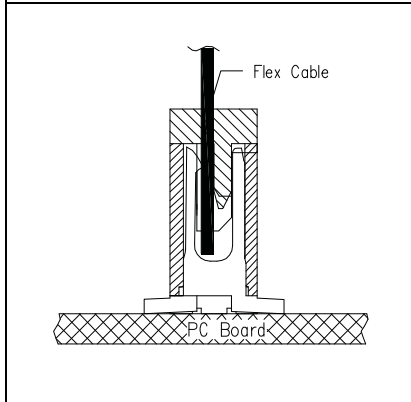
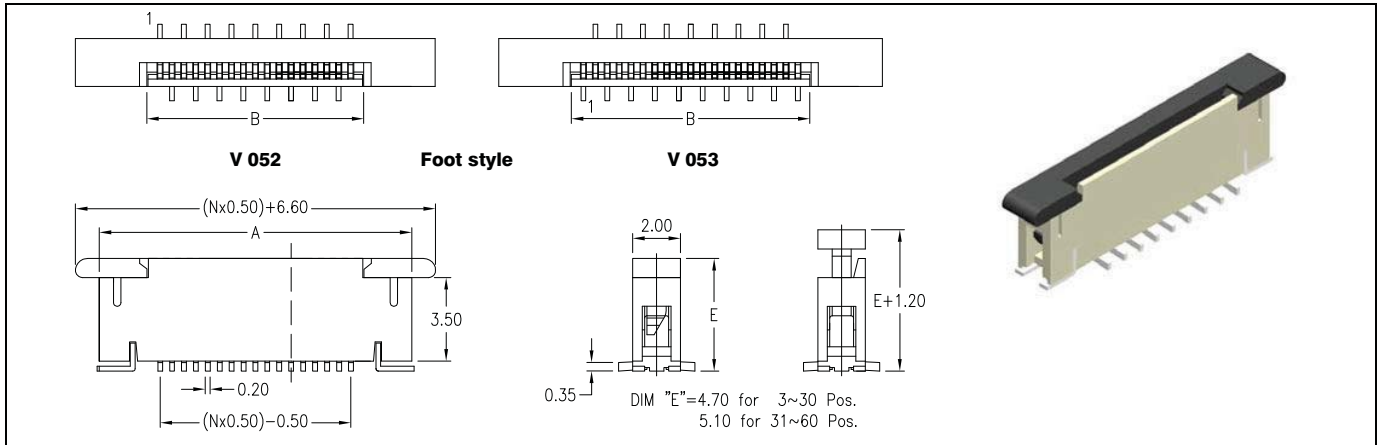
How to order

FCZ - xxx - H xxx - 99 / X



FPC/FFC Connector ZIF Type

- SMT - 0.50mm pitch vertical



SPECIFICATIONS

Current rating 0.4 A max.
 Insulator resistance 50 MΩ min.
 Contact resistance 30 mΩ max.
 Withstanding voltage 250 V AC/1 Min.

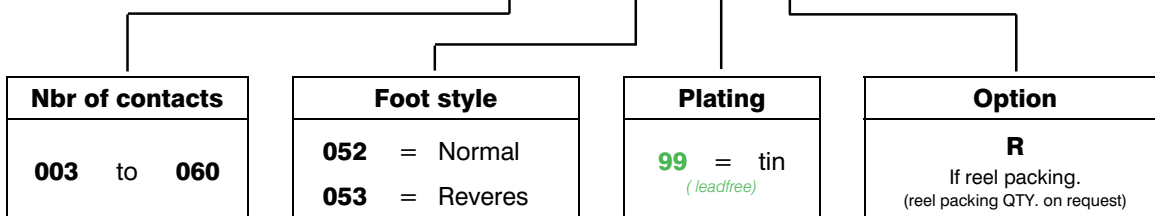
Operating temperature -20°C to +85°C
 Processing temperature +250°C +0/-5°C for 3sec.
 Contact material (RoHS compliant) Phosphor Bronze
 Contact plating Tin (leadfree)
 Insulator material (RoHS compliant) LCP UL 94 V-0
 Actuator material (RoHS compliant) PPA UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	8.10	2.10	018	15.60	9.60	033	23.10	17.10	048	30.60	24.60
004	8.60	2.60	019	16.10	10.10	034	23.60	17.60	049	31.10	25.10
005	9.10	3.10	020	16.60	10.60	035	24.10	18.10	050	31.60	25.60
006	9.60	3.60	021	17.10	11.10	036	24.60	18.60	051	32.10	26.10
007	10.10	4.10	022	17.60	11.60	037	25.10	19.10	052	32.60	26.60
008	10.60	4.60	023	18.10	12.10	038	25.60	19.60	053	33.10	27.10
009	11.10	5.10	024	18.60	12.60	039	26.10	20.10	054	33.60	27.60
010	11.60	5.60	025	19.10	13.10	040	26.60	20.60	055	34.10	28.10
011	12.10	6.10	026	19.60	13.60	041	27.10	21.10	056	34.60	28.60
012	12.60	6.60	027	20.10	14.10	042	27.60	21.60	057	35.10	29.10
013	13.10	7.10	028	20.60	14.60	043	28.10	22.10	058	35.60	29.60
014	13.60	7.60	029	21.10	15.10	044	28.60	22.60	059	36.10	30.10
015	14.10	8.10	030	21.60	15.60	045	29.10	23.10	060	36.60	30.60
016	14.60	8.60	031	22.10	16.10	046	29.60	23.60			
017	15.10	9.10	032	22.60	16.60	047	30.10	24.10			

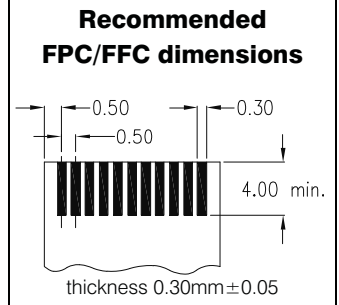
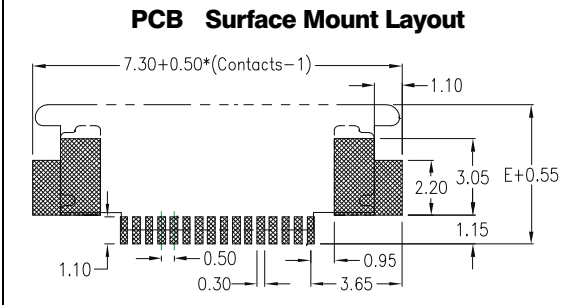
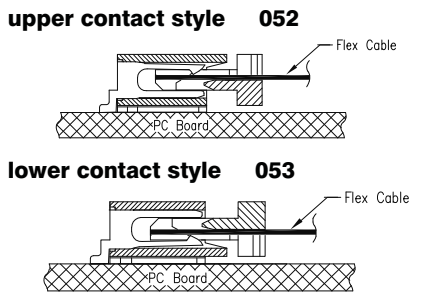
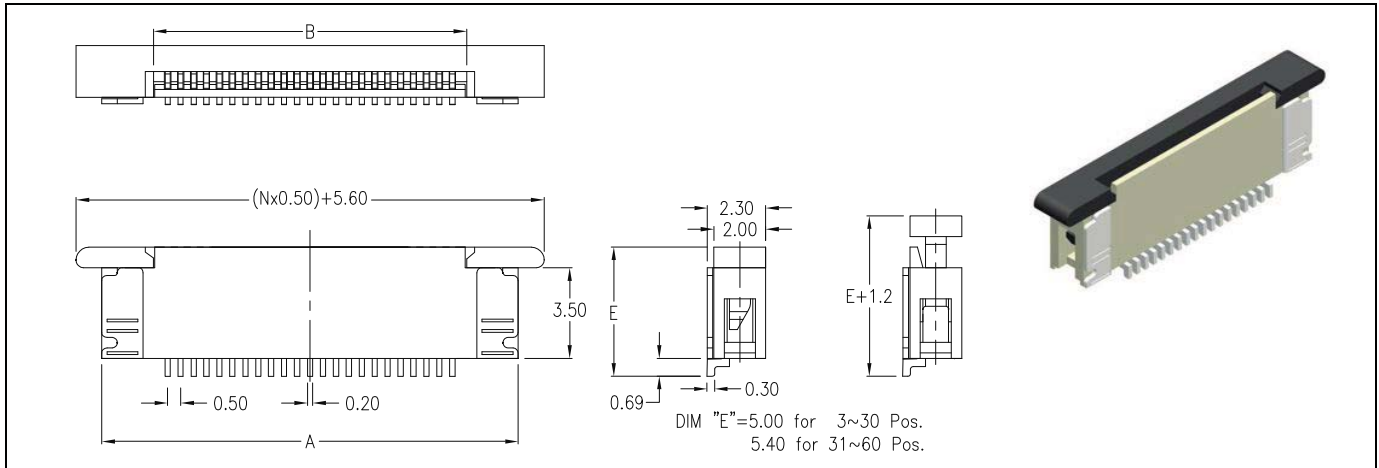
How to order

FCZ - xxx - V xxx - 99 / X



FPC/FFC Connector ZIF Type

- SMT - 0.50mm pitch horizontal

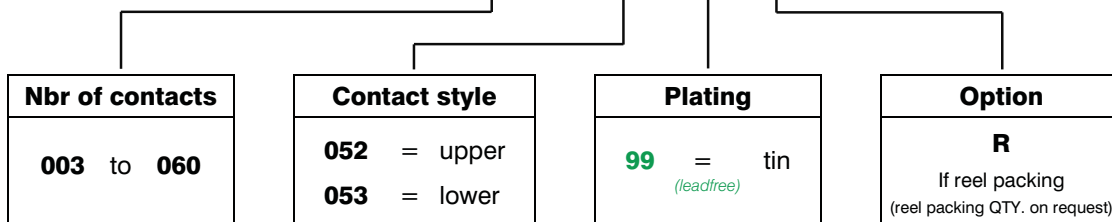


SPECIFICATIONS			
Current rating	0.4 A max.	Operating temperature	- 20°C to +85°C
Insulator resistance	50 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	30 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	250 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	LCP UL 94 V-0 (RoHS compliant)
		Actuator material	PPA UL 94 V-0 (RoHS compliant)

Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	6.10	2.10	018	13.60	9.60	033	21.10	17.10	048	28.60	24.60
004	6.60	2.60	019	14.10	10.10	034	21.60	17.60	049	29.10	25.10
005	7.10	3.10	020	14.60	10.60	035	22.10	18.10	050	29.60	25.60
006	7.60	3.60	021	15.10	11.10	036	22.60	18.60	051	30.10	26.10
007	8.10	4.10	022	15.60	11.60	037	23.10	19.10	052	30.60	26.60
008	8.60	4.60	023	16.10	12.10	038	23.60	19.60	053	31.10	27.10
009	9.10	5.10	024	16.60	12.60	039	24.10	20.10	054	31.60	27.60
010	9.60	5.60	025	17.10	13.10	040	24.60	20.60	055	32.10	28.10
011	10.10	6.10	026	17.60	13.60	041	25.10	21.10	056	32.60	28.60
012	10.60	6.60	027	18.10	14.10	042	25.60	21.60	057	33.10	29.10
013	11.10	7.10	028	18.60	14.60	043	26.10	22.10	058	33.60	29.60
014	11.60	7.60	029	19.10	15.10	044	26.60	22.60	059	34.10	30.10
015	12.10	8.10	030	19.60	15.60	045	27.10	23.10	060	34.60	30.60
016	12.60	8.60	031	20.10	16.10	046	27.60	23.60			
017	13.10	9.10	032	20.60	16.60	047	28.10	24.10			

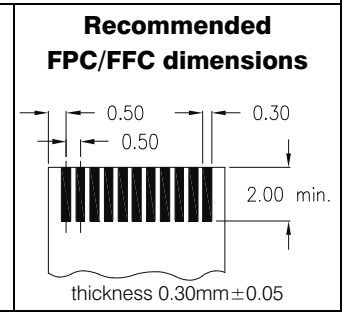
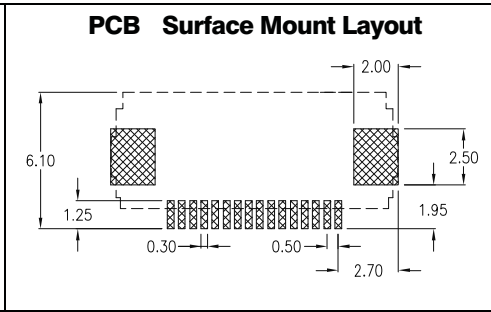
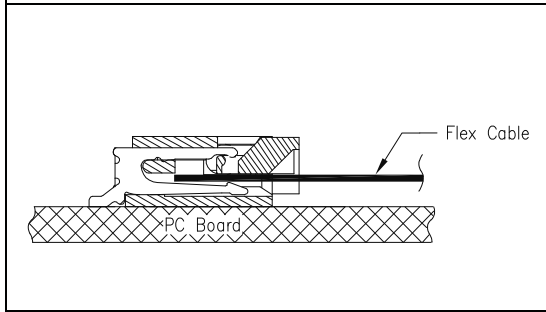
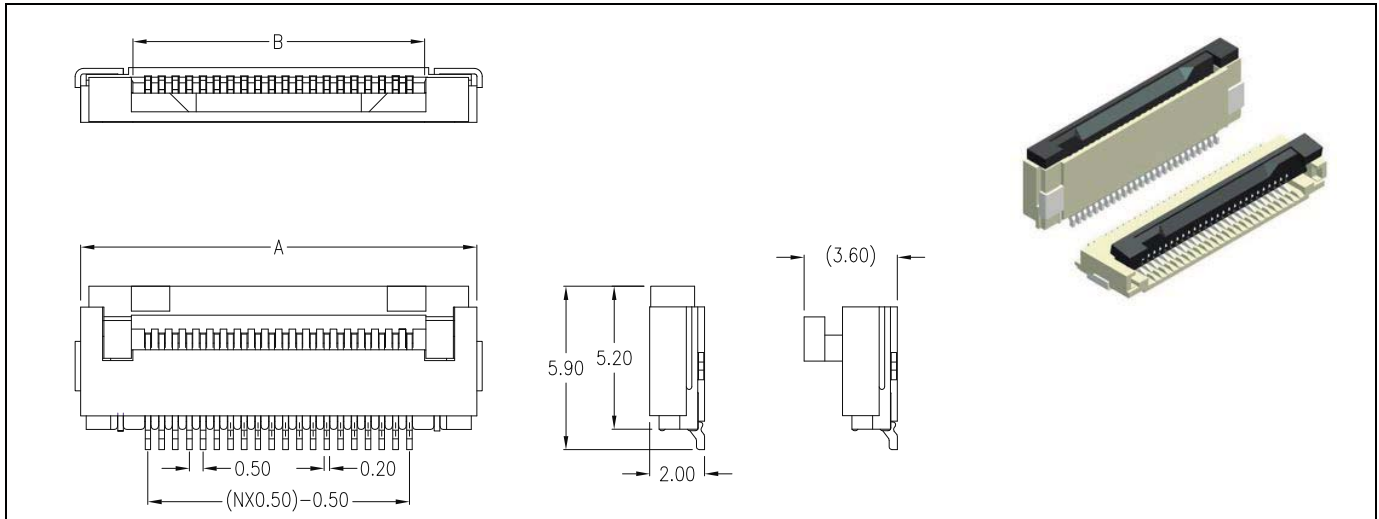
How to order

FCZ - xxx - H xxx - 99 / X



FPC/FFC Connector ZIF "Easy-on" Type

- SMT - 0.50mm pitch horizontal



SPECIFICATIONS

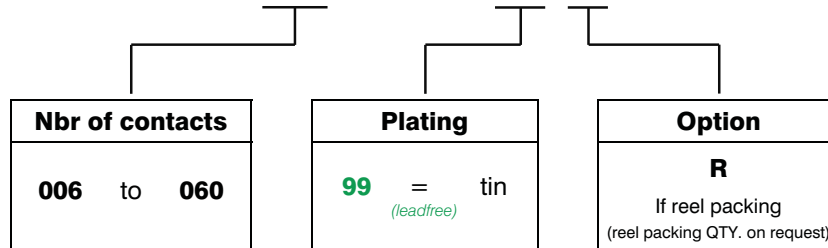
Current rating	0.4 A max.	Operating temperature	- 20°C to +85°C
Insulator resistance	50 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	30 mΩ max.	Contact material	(RoHS compliant) Phosphor Bronze
Withstanding voltage	250 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	(RoHS compliant) LCP UL 94 V-0
		Actuator material	(RoHS compliant) PPA UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
006	7.40	3.60	020	14.40	10.60	034	21.40	17.60	048	28.40	24.60
007	7.90	4.10	021	14.90	11.10	035	21.90	18.10	049	28.90	25.10
008	8.40	4.60	022	15.40	11.60	036	22.40	18.60	050	29.40	25.60
009	8.90	5.10	023	15.90	12.10	037	22.90	19.10	051	29.90	26.10
010	9.40	5.60	024	16.40	12.60	038	23.40	19.60	052	30.40	26.60
011	9.90	6.10	025	16.90	13.10	039	23.90	20.10	053	30.90	27.10
012	10.40	6.60	026	17.40	13.60	040	24.40	20.60	054	31.40	27.60
013	10.90	7.10	027	17.90	14.10	041	24.90	21.10	055	31.90	28.10
014	11.40	7.60	028	18.40	14.60	042	25.40	21.60	056	32.40	28.60
015	11.90	8.10	029	18.90	15.10	043	25.90	22.10	057	32.90	29.10
016	12.40	8.60	030	19.40	15.60	044	26.40	22.60	058	33.40	29.60
017	12.90	9.10	031	19.90	16.10	045	26.90	23.10	059	33.90	30.10
018	13.40	9.60	032	20.40	16.60	046	27.40	23.60	060	34.40	30.60
019	13.90	10.10	033	20.90	17.10	047	27.90	24.10			

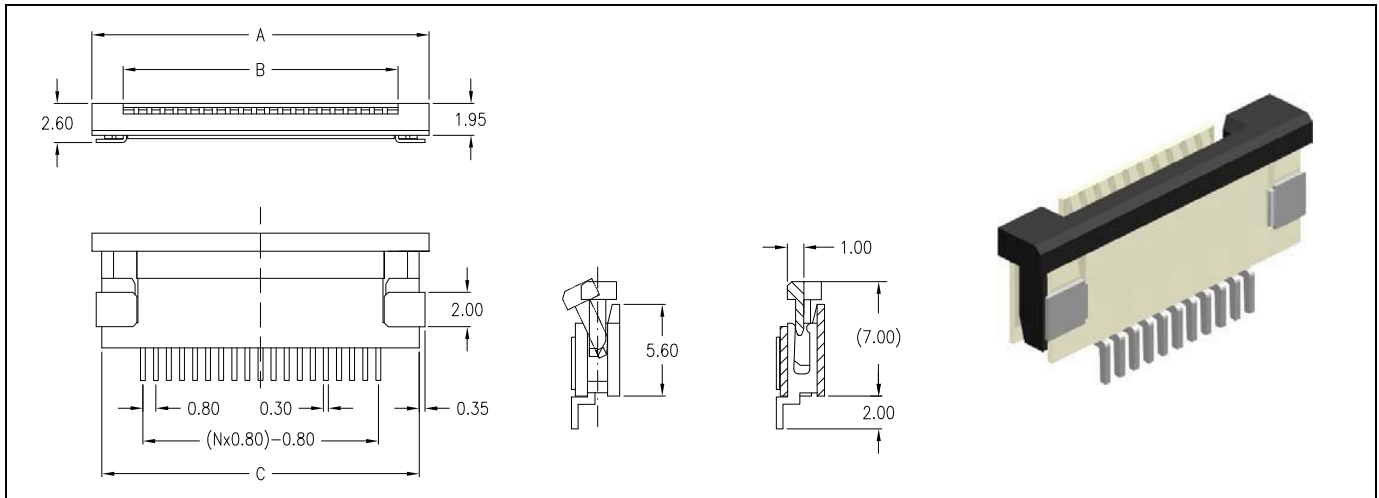
How to order

FCZ - xxx - H 058 - 99 / X



FPC/FFC Connector ZIF Type

- SMT - 0.80mm pitch horizontal



upper contact style 080

lower contact style 081

PCB surface mount layout

Recommended FPC/FFC dimensions

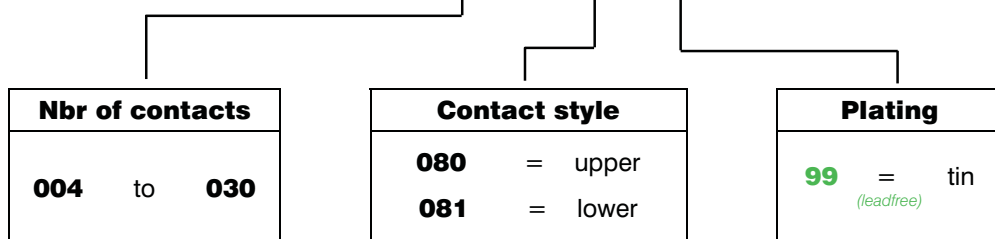
thickness 0.30mm±0.05

SPECIFICATIONS			
Current rating	0.5 A max.	Operating temperature	- 20°C to +105°C
Insulator resistance	100 MΩ min.	Processing temperature	+250°C +0/-5°C for 3 sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze
Withstanding voltage	500 V AC/1 Min.	Contact plating	Tin (<i>leadfree</i>)
		Insulator material	LCP UL 94 V-0
		Actuator material	PPA UL 94 V-0

Dimensions (mm)															
Contacts	DIM"A"	DIM"B"	DIM"C"	Contacts	DIM"A"	DIM"B"	DIM"C"	Contacts	DIM"A"	DIM"B"	DIM"C"	Contacts	DIM"A"	DIM"B"	DIM"C"
004	9.50	4.25	8.20	011	15.10	9.85	13.80	018	20.70	15.45	19.40	025	26.30	21.05	25.00
005	10.30	5.05	9.00	012	15.90	10.65	14.60	019	21.50	16.25	20.20	026	27.10	21.85	25.80
006	11.10	5.85	9.80	013	16.70	11.45	15.40	020	22.30	17.05	21.00	027	27.90	22.65	26.60
007	11.90	6.65	10.60	014	17.50	12.25	16.20	021	23.10	17.85	21.80	028	28.70	23.45	27.40
008	12.70	7.45	11.40	015	18.30	13.05	17.00	022	23.90	18.65	22.60	029	29.50	24.25	28.20
009	13.50	8.25	12.20	016	19.10	13.85	17.80	023	24.70	19.45	23.40	030	30.30	25.05	29.00
010	14.30	9.05	13.00	017	19.90	14.65	18.60	024	25.50	20.25	24.20				

How to order

FCZ - xxx - H xxx - 99



FPC/FFC Connector ZIF Type

- SMT - 1.00mm pitch vertical



Optional:
Connector with Pick up pad and reel packing

PCB Surface Mount Layout

Recommended FPC/FFC dimensions

thickness 0.30mm±0.05

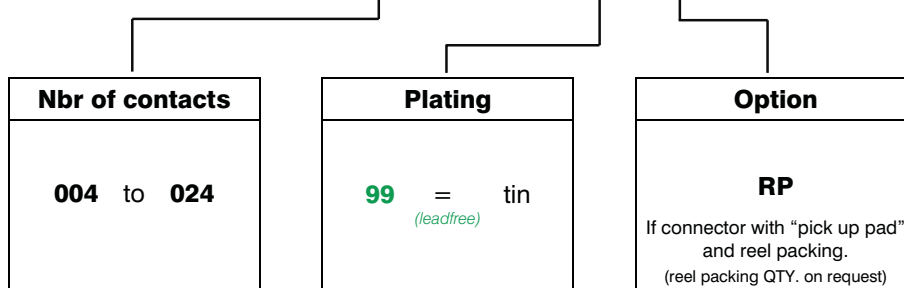
Please ask your sales office for details on reel dimension.

SPECIFICATIONS			
Current rating	0.4 A max.	Operating temperature	- 55°C to +85°C
Insulator resistance	50 MΩ min.	Processing temperature	+250°C +0/-5°C for 3 sec.
Contact resistance	30 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	250 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (RoHS compliant) UL 94 V-0

Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	8.50	5.10	010	14.50	11.10	016	20.50	17.10	022	26.50	23.10
005	9.50	6.10	011	15.50	12.10	017	21.50	18.10	023	27.50	24.10
006	10.50	7.10	012	16.50	13.10	018	22.50	19.10	024	28.50	25.10
007	11.50	8.10	013	17.50	14.10	019	23.50	20.10			
008	12.50	9.10	014	18.50	15.10	020	24.50	21.10			
009	13.50	10.10	015	19.50	16.10	021	25.50	22.10			

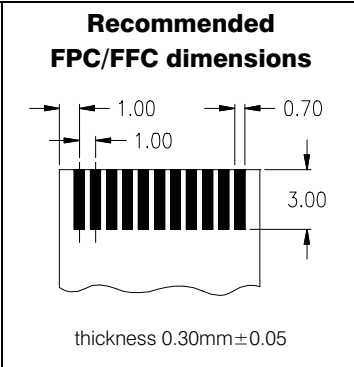
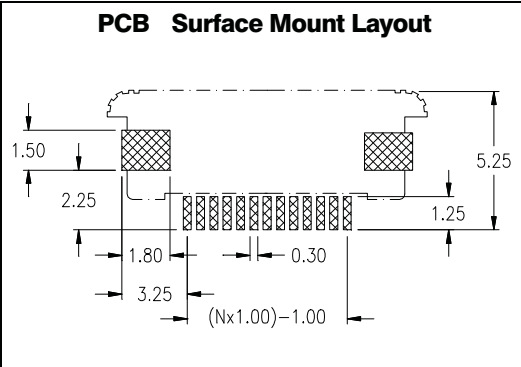
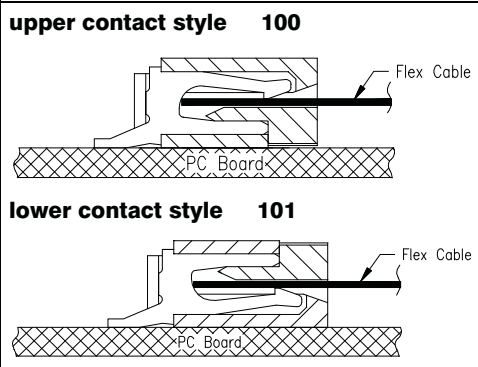
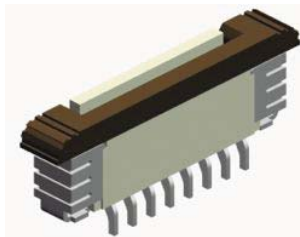
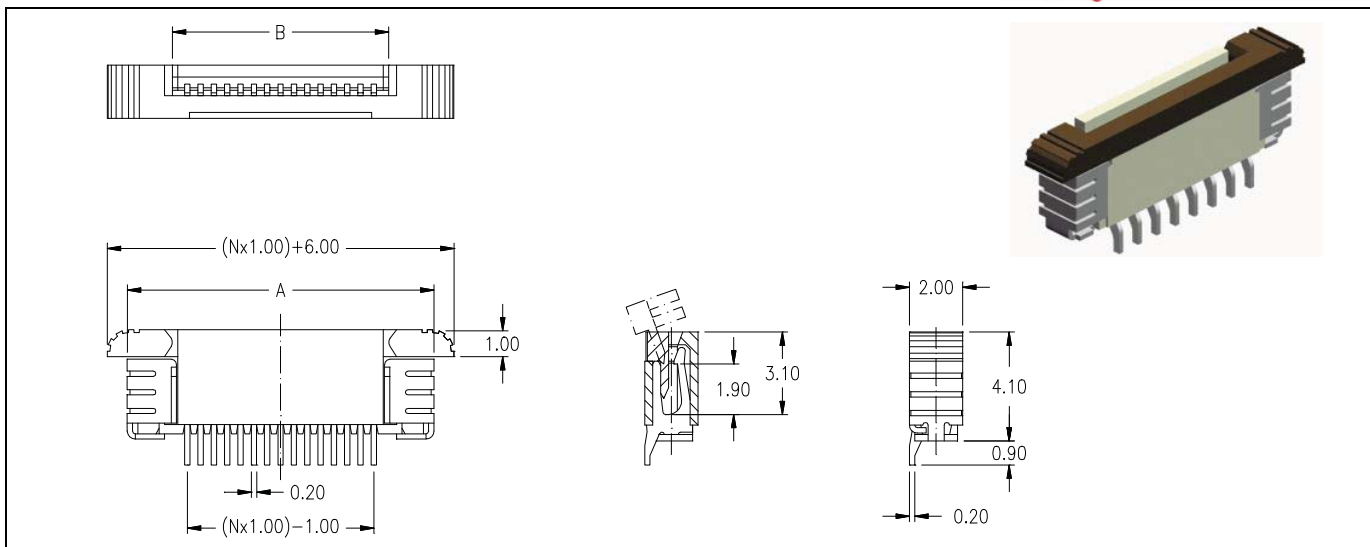
How to order

FCZ - xxx - V 100 - 99 / XX



FPC/FFC Connector ZIF Type

- SMT - 1.00mm pitch horizontal

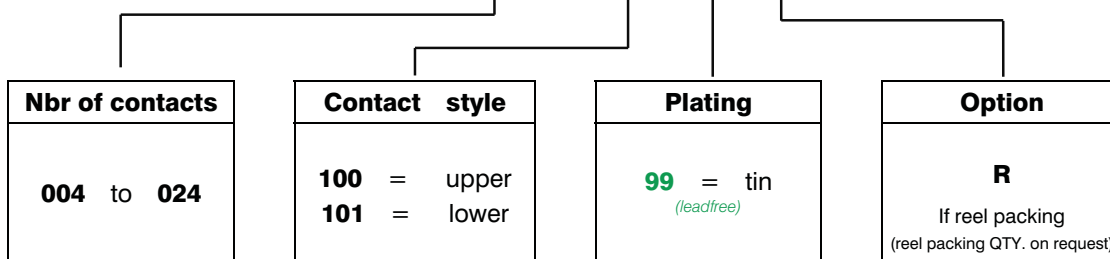


SPECIFICATIONS			
Current rating	0.4 A max.	Operating temperature	-55°C to +85°C
Insulator resistance	50 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	30 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	250 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (RoHS compliant) UL 94 V-0

Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	8.50	5.10	010	14.50	11.10	016	20.50	17.10	022	26.50	23.10
005	9.50	6.10	011	15.50	12.10	017	21.50	18.10	023	27.50	24.10
006	10.50	7.10	012	16.50	13.10	018	22.50	19.10	024	28.50	25.10
007	11.50	8.10	013	17.50	14.10	019	23.50	20.10			
008	12.50	9.10	014	18.50	15.10	020	24.50	21.10			
009	13.50	10.10	015	19.50	16.10	021	25.50	22.10			

How to order

FCZ - xxx - H xxx - 99 / X



FPC/FFC Connector ZIF Type

- SMT - 1.00mm pitch vertical



Optional:
Connector with Pick up pad and reel packing

PCB Surface Mount Layout

Recommended FPC/FFC dimensions

Please ask your sales office for details on reel dimension.

SPECIFICATIONS

Current rating 0.5 A max.
 Insulator resistance 100 MΩ min.
 Contact resistance 20 mΩ max.
 Withstanding voltage 500 V AC/1 Min.

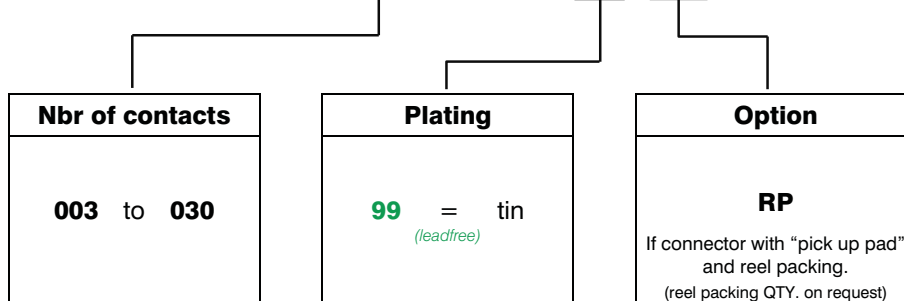
Operating temperature -40°C to +105°C
 Processing temperature +250°C +0/-5°C for 3 sec.
 Contact material Phosphor Bronze (RoHS compliant)
 Contact plating Tin (leadfree)
 Insulator material LCP (RoHS compliant)
 Actuator material PPA (RoHS compliant) UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	8.00	4.20	010	15.00	11.20	017	22.00	18.20	024	29.00	25.20
004	9.00	5.20	011	16.00	12.20	018	23.00	19.20	025	30.00	26.20
005	10.00	6.20	012	17.00	13.20	019	24.00	20.20	026	31.00	27.20
006	11.00	7.20	013	18.00	14.20	020	25.00	21.20	027	32.00	28.20
007	12.00	8.20	014	19.00	15.20	021	26.00	22.20	028	33.00	29.20
008	13.00	9.20	015	20.00	16.20	022	27.00	23.20	029	34.00	30.20
009	14.00	10.20	016	21.00	17.20	023	28.00	24.20	030	35.00	31.20

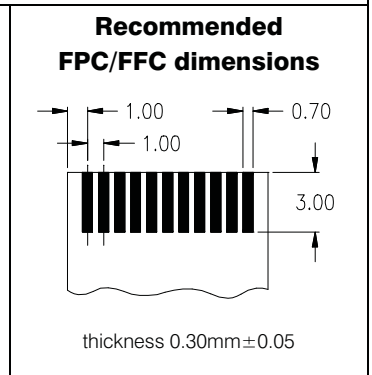
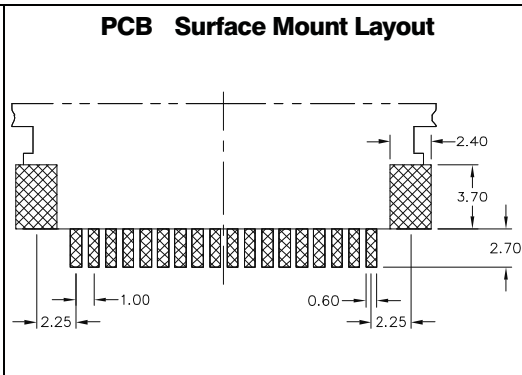
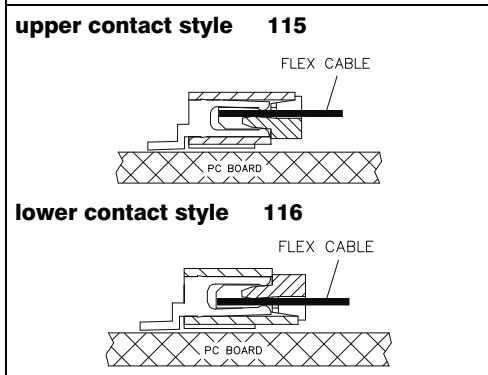
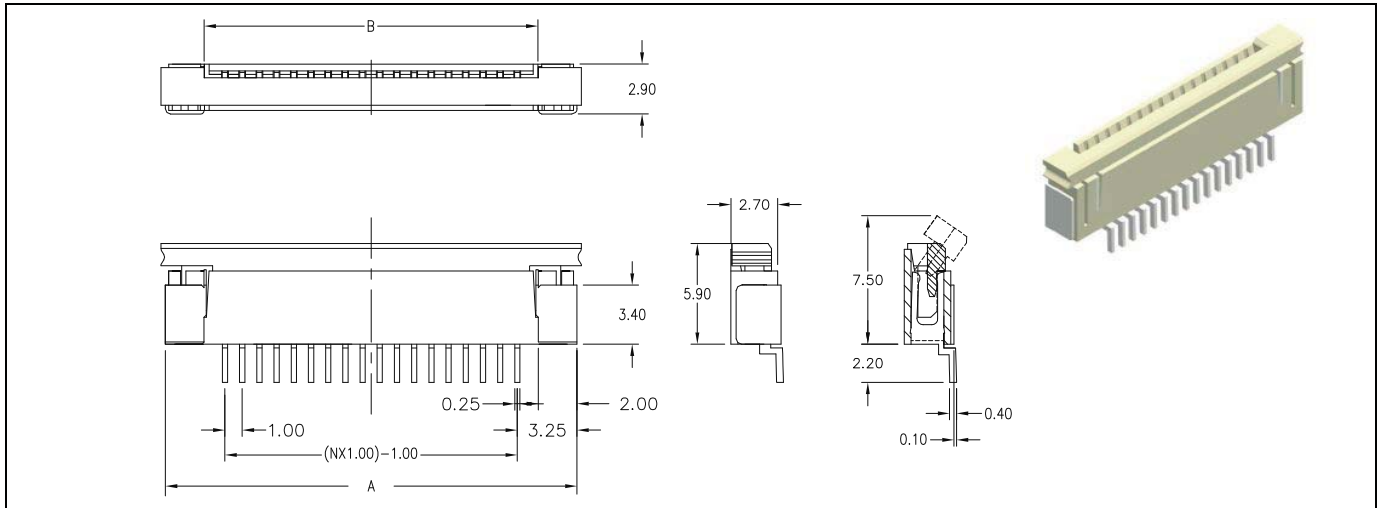
How to order

FCZ - xxx - V 115 - 99 / XX



FPC/FFC Connector ZIF Type

- SMT - 1.00mm pitch horizontal

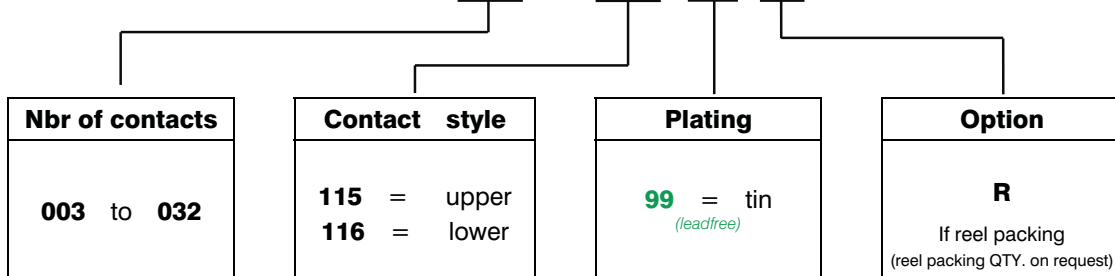


SPECIFICATIONS			
Current rating	0.5 A max.	Operating temperature	- 40°C to +105°C.
Insulator resistance	100 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	20 mΩ max.	Contact material	(RoHS compliant) Phosphor Bronze
Withstanding voltage	500 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	LCP UL 94 V-0
		Actuator material	(RoHS compliant) PPA UL 94 V-0

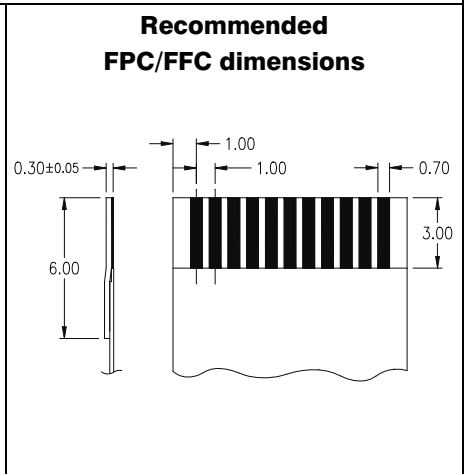
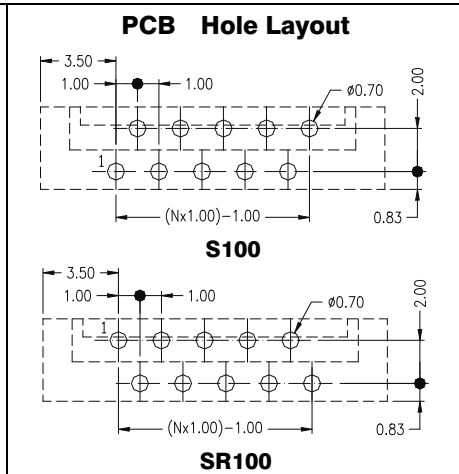
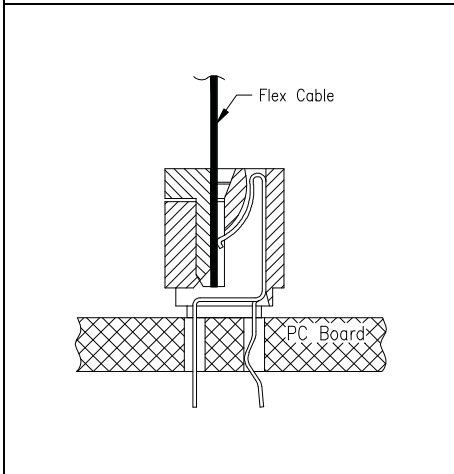
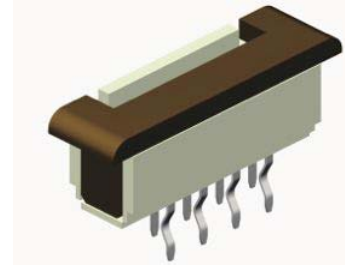
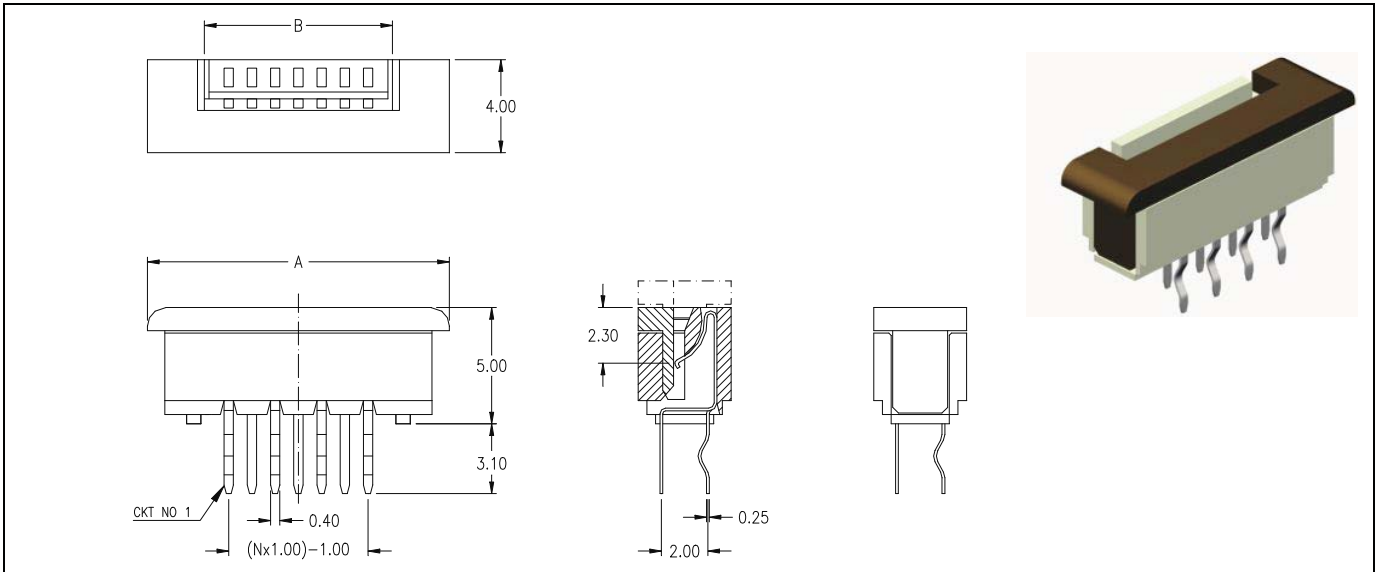
Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	8.50	4.20	011	16.50	12.20	019	24.50	20.20	027	32.50	28.20
004	9.50	5.20	012	17.50	13.20	020	25.50	21.20	028	33.50	29.20
005	10.50	6.20	013	18.50	14.20	021	26.50	22.20	029	34.50	30.20
006	11.50	7.20	014	19.50	15.20	022	27.50	23.20	030	35.50	31.20
007	12.50	8.20	015	20.50	16.20	023	28.50	24.20	031	36.50	32.20
008	13.50	9.20	016	21.50	17.20	024	29.50	25.20	032	37.50	33.20
009	14.50	10.20	017	22.50	18.20	025	30.50	26.20			
010	15.50	11.20	018	23.50	19.20	026	31.50	27.20			

How to order

FCZ - xxx - H xxx - 99 / X



FPC/FFC Connector ZIF Type
 - THT - 1.00mm pitch vertical



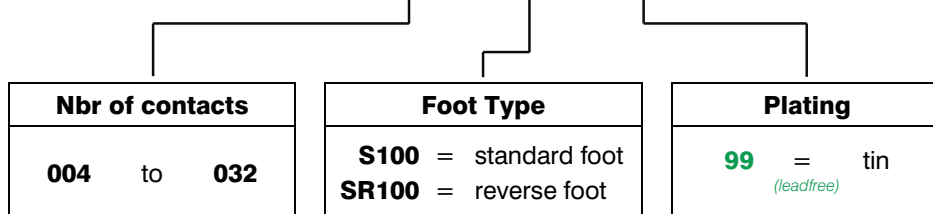
SPECIFICATIONS

Current rating	0.4 A max.	Operating temperature	- 55°C to +85°C
Insulator resistance	50 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	30 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	250 V AC/1 Min.	Insulator material	(RoHS compliant) Nylon UL 94 V-0

Dimensions (mm)

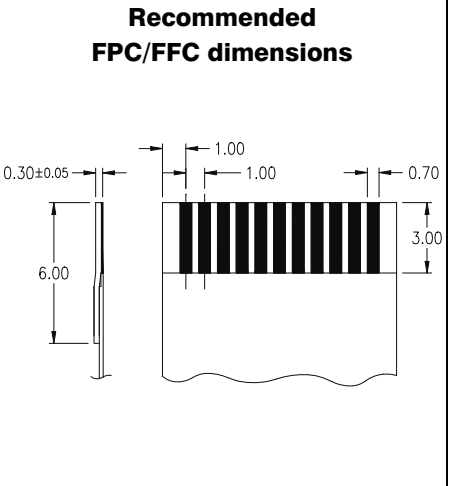
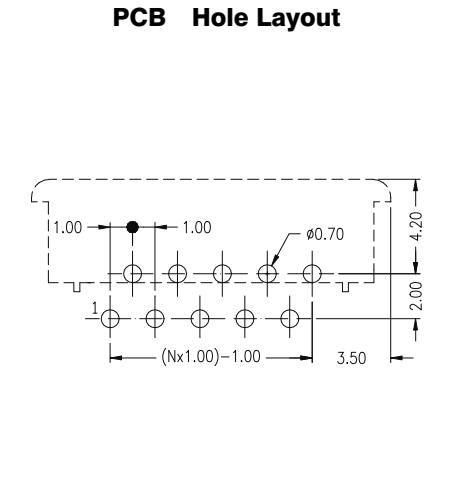
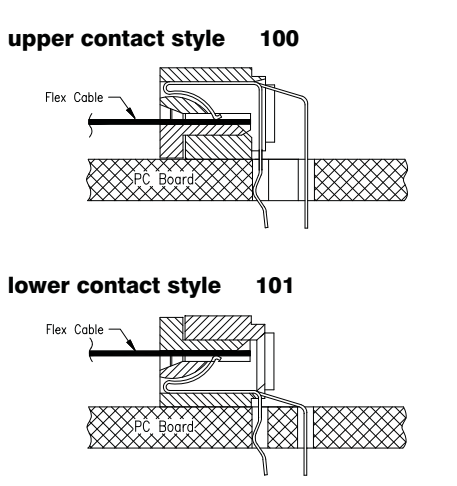
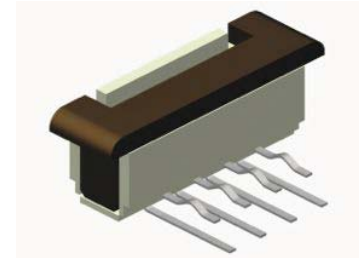
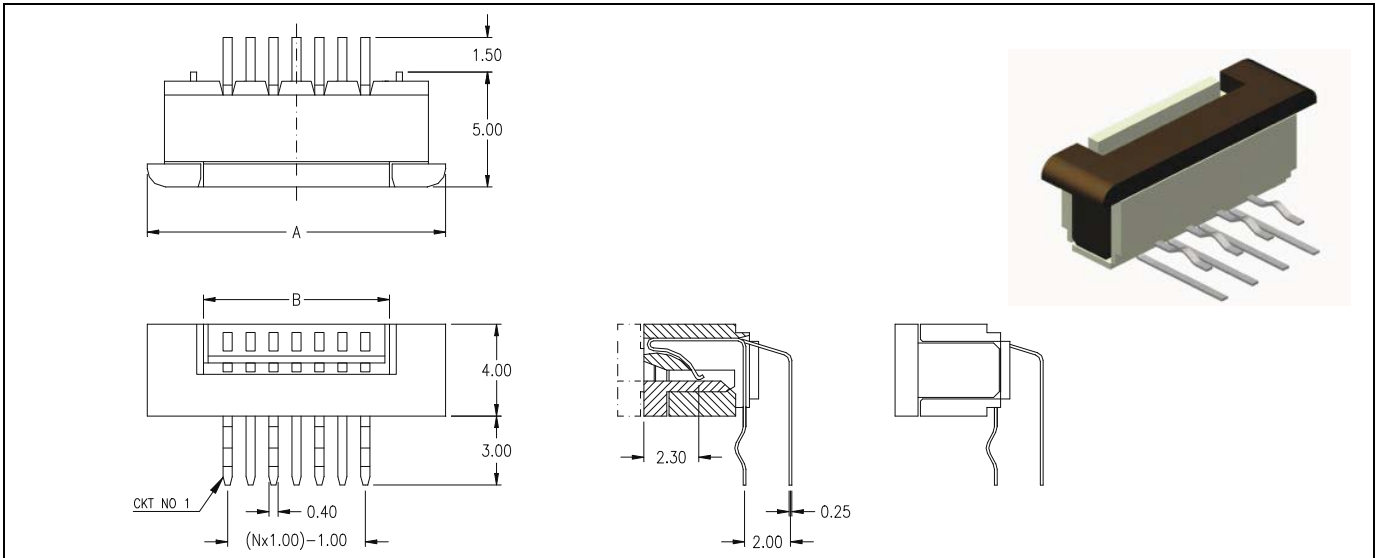
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	10.00	5.20	012	18.00	13.20	020	26.00	21.20	028	34.00	29.20
005	11.00	6.20	013	19.00	14.20	021	27.00	22.20	029	35.00	30.20
006	12.00	7.20	014	20.00	15.20	022	28.00	23.20	030	36.00	31.20
007	13.00	8.20	015	21.00	16.20	023	29.00	24.20	031	37.00	32.20
008	14.00	9.20	016	22.00	17.20	024	30.00	25.20	032	38.00	33.20
009	15.00	10.20	017	23.00	18.20	025	31.00	26.20			
010	16.00	11.20	018	24.00	19.20	026	32.00	27.20			
011	17.00	12.20	019	25.00	20.20	027	33.00	28.20			

How to order
FCZ - xxx - SX100 - 99



FPC/FFC Connector ZIF Type

- THT - 1.00mm pitch right angle



SPECIFICATIONS			
Current rating	0.4 A max.	Operating temperature	- 55°C to +85°C
Insulator resistance	50 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	30 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	250 V AC/1 Min.	Insulator material	(RoHS compliant) Nylon UL 94 V-0

Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	10.00	5.20	012	18.00	13.20	020	26.00	21.20	028	34.00	29.20
005	11.00	6.20	013	19.00	14.20	021	27.00	22.20	029	35.00	30.20
006	12.00	7.20	014	20.00	15.20	022	28.00	23.20	030	36.00	31.20
007	13.00	8.20	015	21.00	16.20	023	29.00	24.20	031	37.00	32.20
008	14.00	9.20	016	22.00	17.20	024	30.00	25.20	032	38.00	33.20
009	15.00	10.20	017	23.00	18.20	025	31.00	26.20			
010	16.00	11.20	018	24.00	19.20	026	32.00	27.20			
011	17.00	12.20	019	25.00	20.20	027	33.00	28.20			

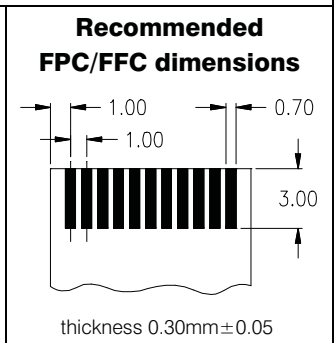
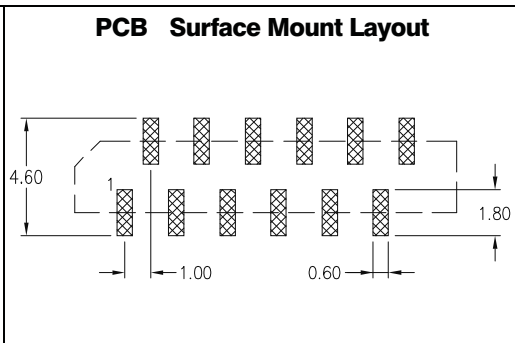
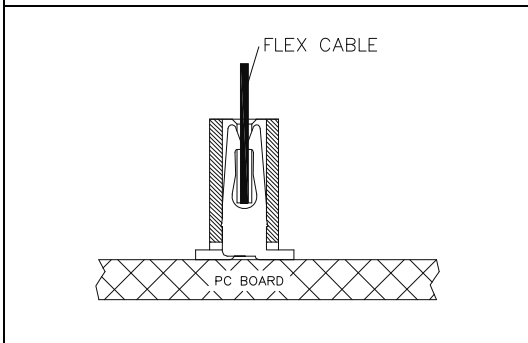
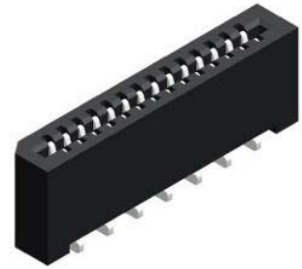
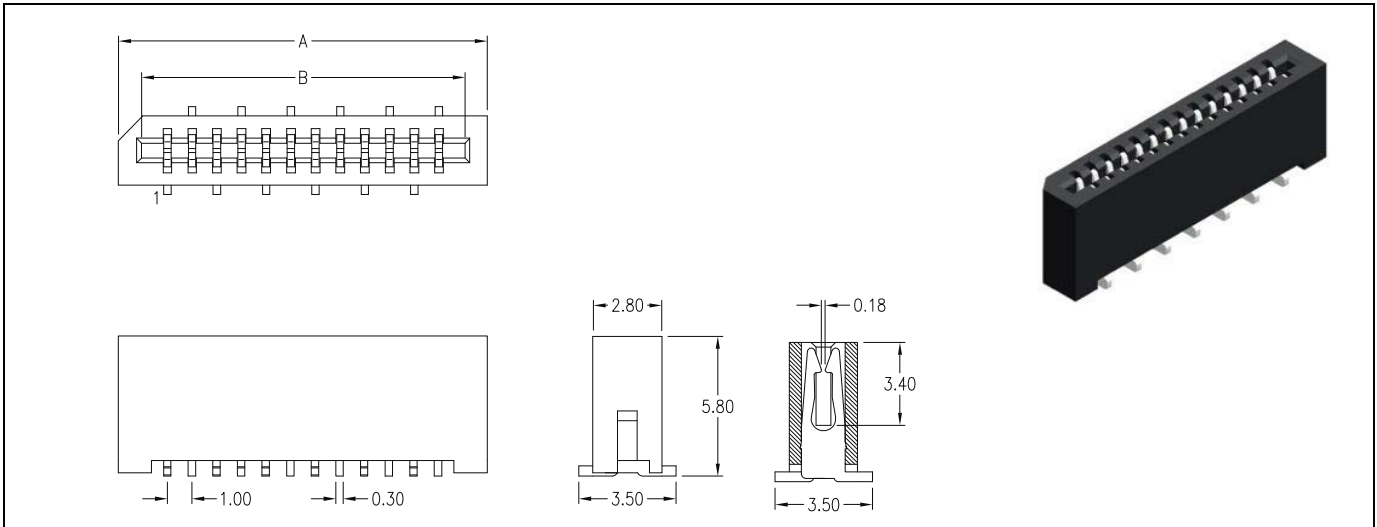
How to order
FCZ - xxx - R xxx - 99

Nbr of contacts
 004 to 032

Contact style
 100 = upper
 101 = lower

Plating
 99 = tin
 (leadfree)

FPC/FFC Connector LIF Type
 - SMT - 1.00mm pitch vertical

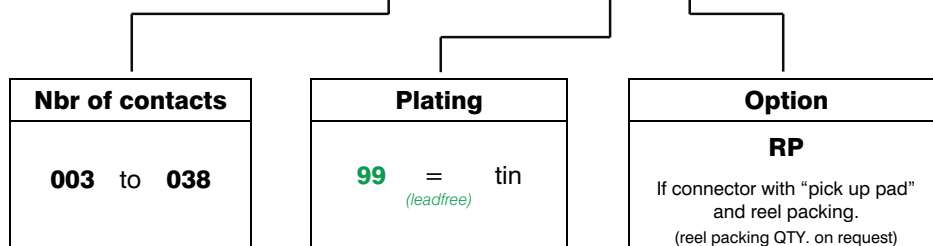


SPECIFICATIONS			
Current rating	0.5 A max.	Operating temperature	- 40°C to +105°C
Insulator resistance	100 MΩ min.	Processing temperature	+250°C +0/-5°C for 3 sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	500 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (black) UL 94 V-0 (RoHS compliant)

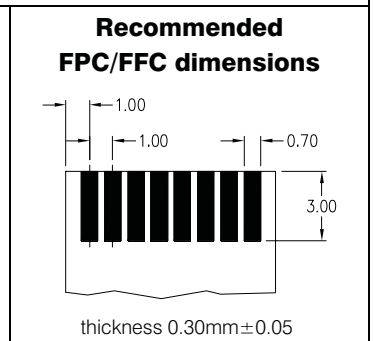
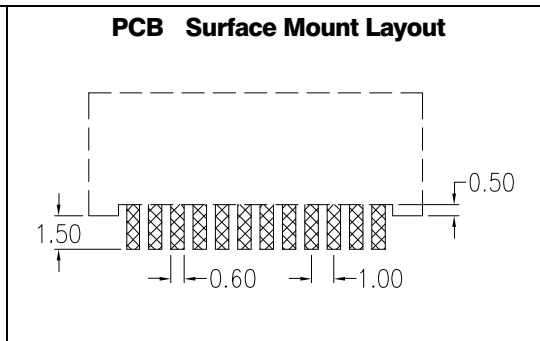
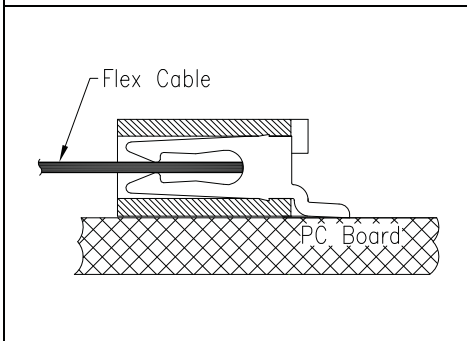
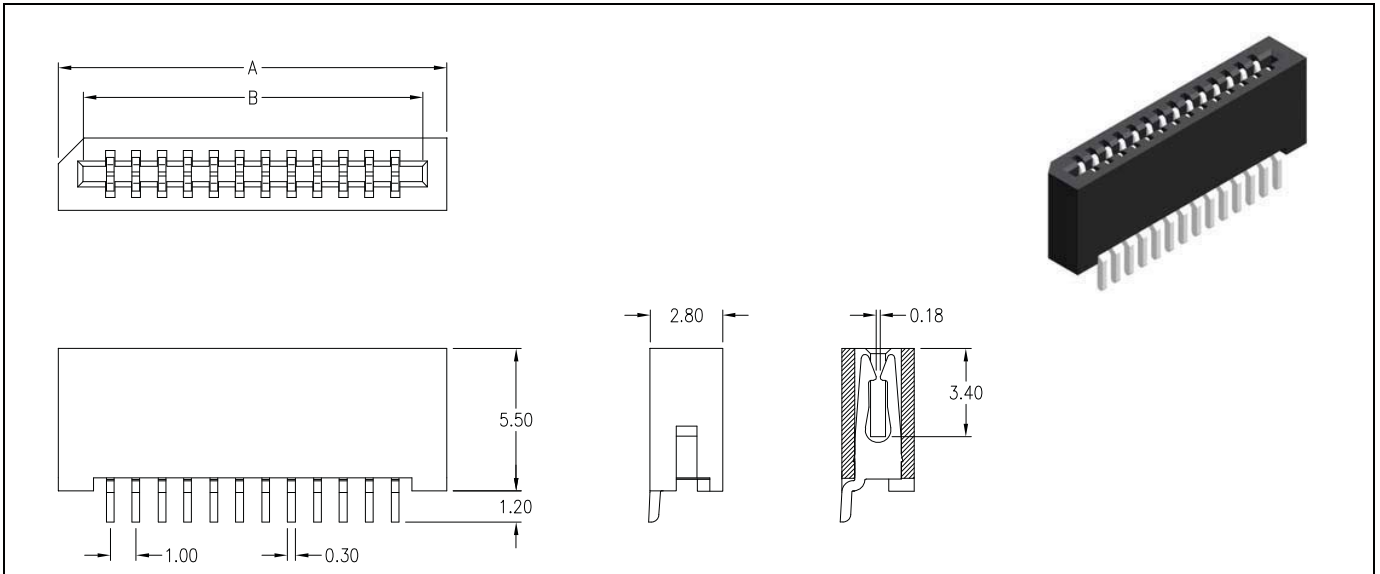
Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	6.00	4.10	012	15.00	13.10	021	24.00	22.10	030	33.00	31.10
004	7.00	5.10	013	16.00	14.10	022	25.00	23.10	031	34.00	32.10
005	8.00	6.10	014	17.00	15.10	023	26.00	24.10	032	35.00	33.10
006	9.00	7.10	015	18.00	16.10	024	27.00	25.10	033	36.00	34.10
007	10.00	8.10	016	19.00	17.10	025	28.00	26.10	034	37.00	35.10
008	11.00	9.10	017	20.00	18.10	026	29.00	27.10	035	38.00	36.10
009	12.00	10.10	018	21.00	19.10	027	30.00	28.10	036	39.00	37.10
010	13.00	11.10	019	22.00	20.10	028	31.00	29.10	037	40.00	38.10
011	14.00	12.10	020	23.00	21.10	029	32.00	30.10	038	41.00	39.10

How to order

FCL - xxx - V 100 - 99 / XX



FPC/FFC Connector LIF Type
 - SMT - 1.00mm pitch horizontal



SPECIFICATIONS

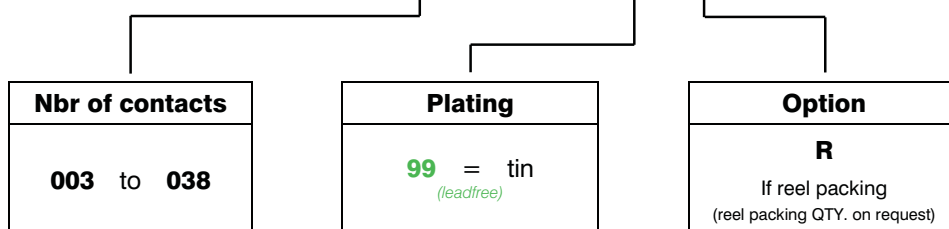
Current rating	0.5 A max.	Operating temperature	- 40°C to +105°C
Insulator resistance	100 MΩ min.	Processing temperature	+250°C +0/-5°C for 3 sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	500 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (black) UL 94 V-0 (RoHS compliant)

Dimensions (mm)

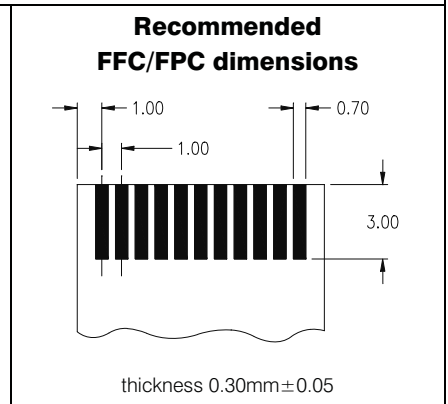
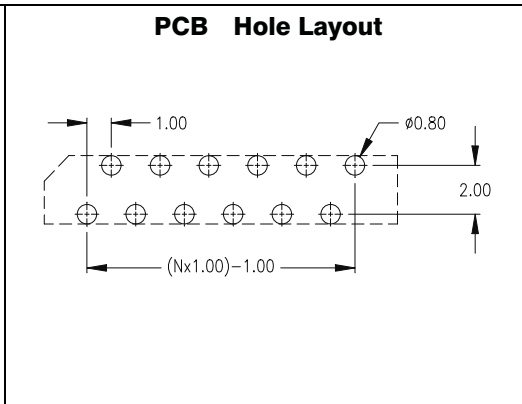
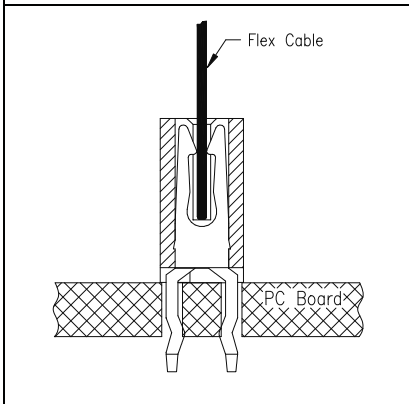
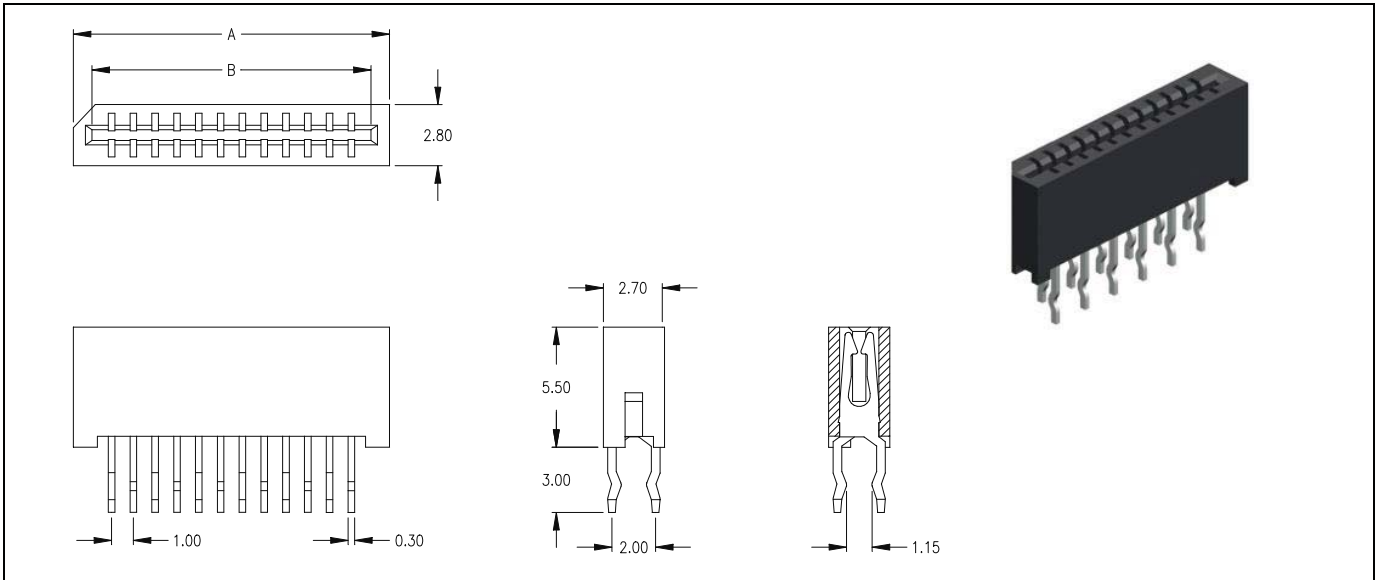
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	6.00	4.10	012	15.00	13.10	021	24.00	22.10	030	33.00	31.10
004	7.00	5.10	013	16.00	14.10	022	25.00	23.10	031	34.00	32.10
005	8.00	6.10	014	17.00	15.10	023	26.00	24.10	032	35.00	33.10
006	9.00	7.10	015	18.00	16.10	024	27.00	25.10	033	36.00	34.10
007	10.00	8.10	016	19.00	17.10	025	28.00	26.10	034	37.00	35.10
008	11.00	9.10	017	20.00	18.10	026	29.00	27.10	035	38.00	36.10
009	12.00	10.10	018	21.00	19.10	027	30.00	28.10	036	39.00	37.10
010	13.00	11.10	019	22.00	20.10	028	31.00	29.10	037	40.00	38.10
011	14.00	12.10	020	23.00	21.10	029	32.00	30.10	038	41.00	39.10

How to order

FCL - xxx - H100 - 99 / X



FFC/FPC Connector LIF Type
 - THT - 1.00mm pitch vertical



SPECIFICATIONS

Current rating	0.5 A max.	Operating temperature	- 40°C to +105°C
Insulator resistance	100 MΩ min.	Contact material	Phosphor Bronze (RoHS compliant)
Contact resistance	20 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC/1 Min.	Insulator material	P.B.T. UL 94 V-0 (RoHS compliant)

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	6.50	5.20	012	14.50	13.20	020	22.50	21.20	028	30.50	29.20
005	7.50	6.20	013	15.50	14.20	021	23.50	22.20	029	31.50	30.20
006	8.50	7.20	014	16.50	15.20	022	24.50	23.20	030	32.50	31.20
007	9.50	8.20	015	17.50	16.20	023	25.50	24.20	031	33.50	32.20
008	10.50	9.20	016	18.50	17.20	024	26.50	25.20	032	34.50	33.20
009	11.50	10.20	017	19.50	18.20	025	27.50	26.20			
010	12.50	11.20	018	20.50	19.20	026	28.50	27.20			
011	13.50	12.20	019	21.50	20.20	027	29.50	28.20			

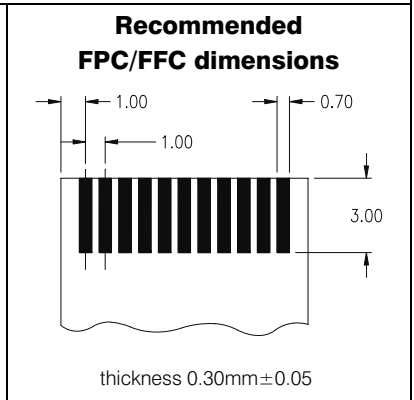
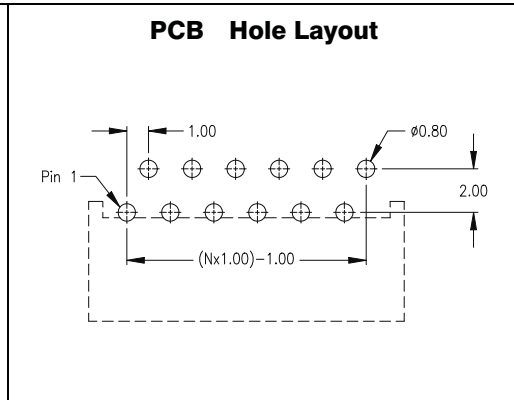
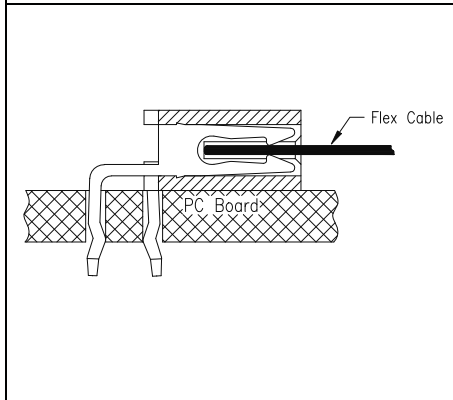
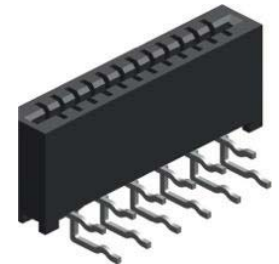
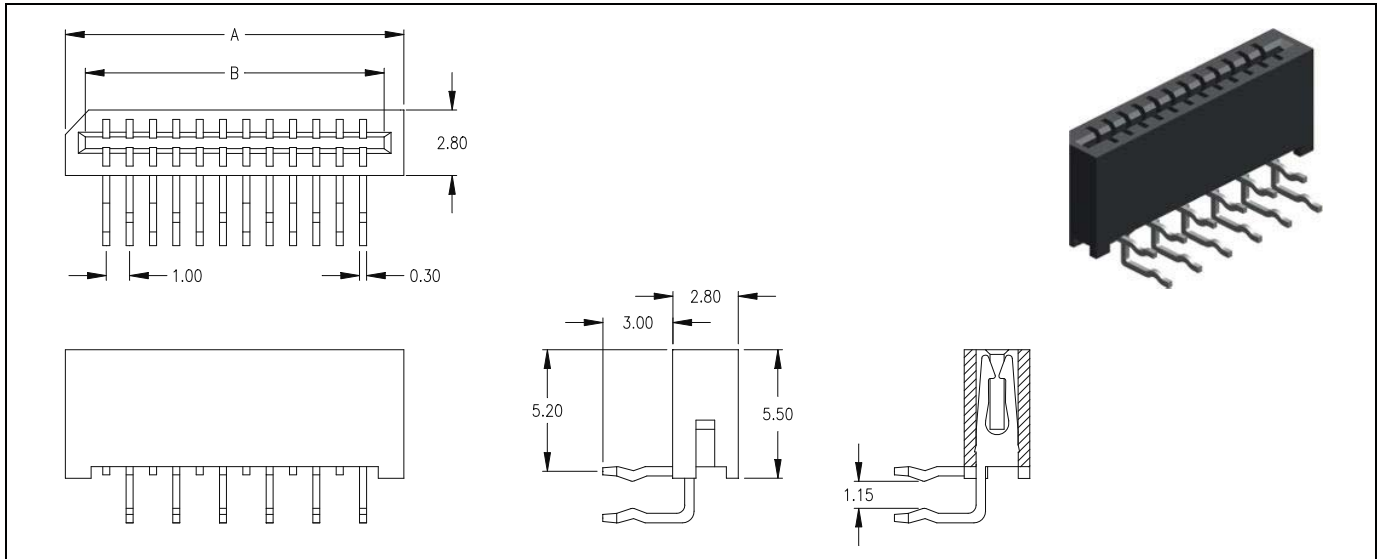
How to order

FCL - xxx - S100 - 99

Nbr of contacts
 004 to 032

Plating
 99 = tin
 (leadfree)

FPC/FFC Connector LIF Type
 - THT - 1.00mm pitch right angle



SPECIFICATIONS

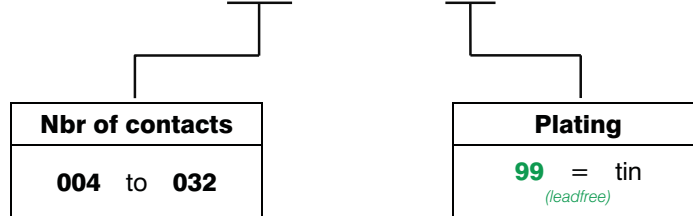
Current rating	0.5 A max.	Operating temperature	- 40°C to +105°C
Insulator resistance	100 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	20 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC/1 Min.	Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

Dimensions (mm)

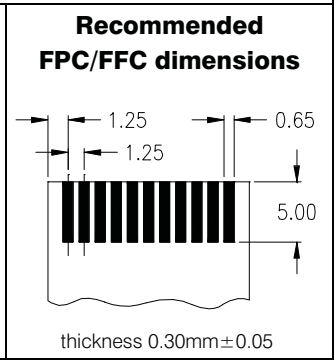
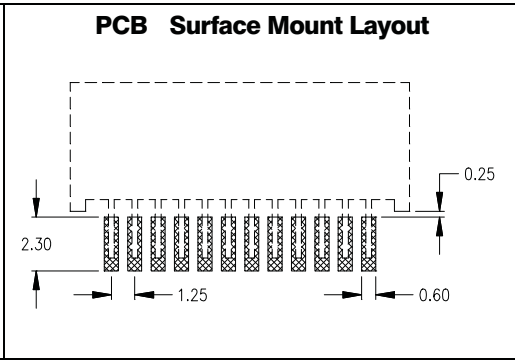
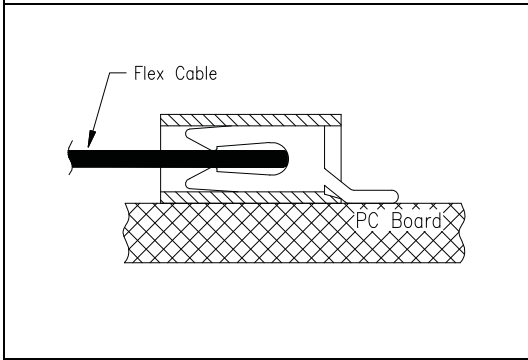
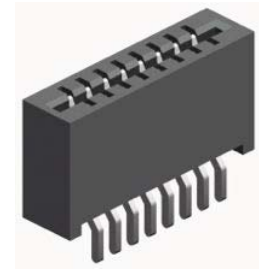
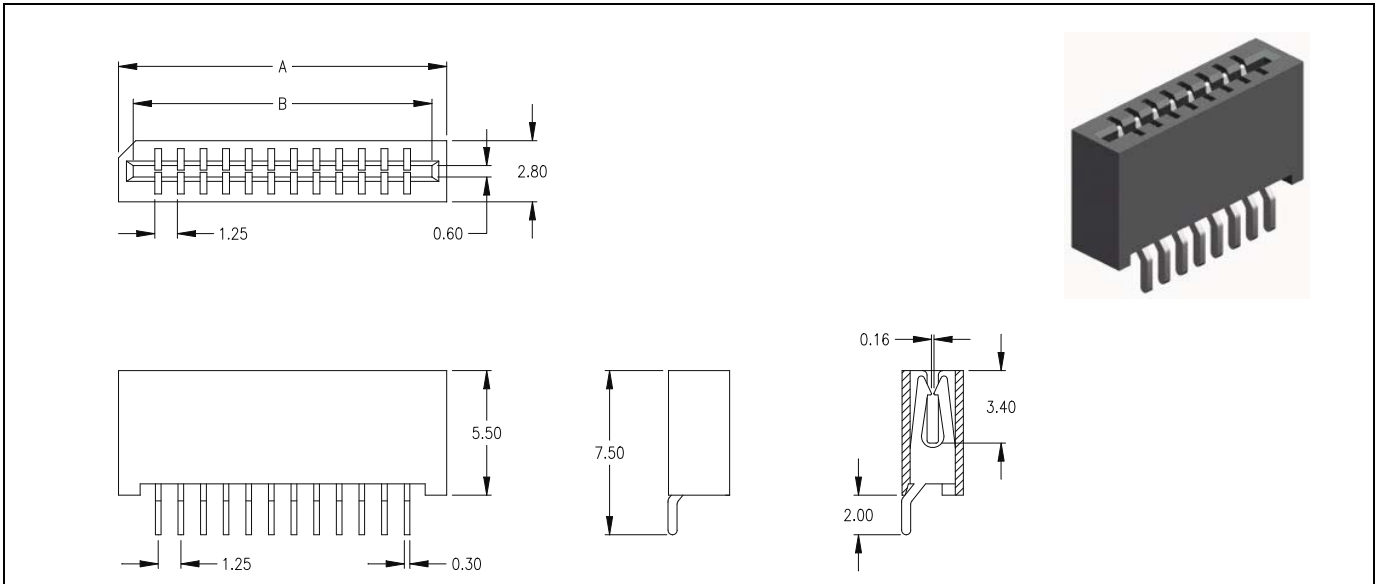
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	6.50	5.20	012	14.50	13.20	020	22.50	21.20	028	30.50	29.20
005	7.50	6.20	013	15.50	14.20	021	23.50	22.20	029	31.50	30.20
006	8.50	7.20	014	16.50	15.20	022	24.50	23.20	030	32.50	31.20
007	9.50	8.20	015	17.50	16.20	023	25.50	24.20	031	33.50	32.20
008	10.50	9.20	016	18.50	17.20	024	26.50	25.20	032	34.50	33.20
009	11.50	10.20	017	19.50	18.20	025	27.50	26.20			
010	12.50	11.20	018	20.50	19.20	026	28.50	27.20			
011	13.50	12.20	019	21.50	20.20	027	29.50	28.20			

How to order

FCL - xxx - R100 - 99



FPC/FFC Connector LIF Type
 - SMT - 1.25mm pitch horizontal

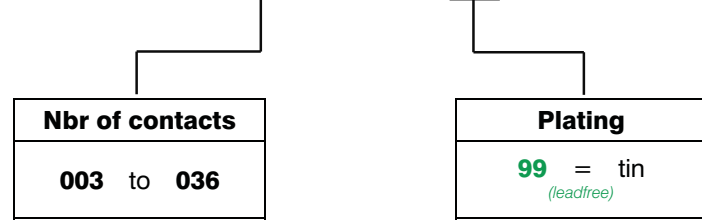


SPECIFICATIONS			
Current rating	1 A max.	Operating temperature	- 40°C to +105°C
Insulator resistance	500 MΩ min.	Processing temperature	+250°C +0/-5°C for 3sec.
Contact resistance	20 mΩ max.	Contact material	Phosphor Bronze (RoHS compliant)
Withstanding voltage	500 V AC/1 Min.	Contact plating	Tin (leadfree)
		Insulator material	Nylon (black) UL 94 V-0 (RoHS compliant)

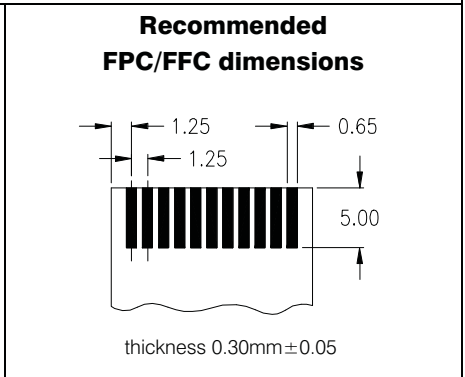
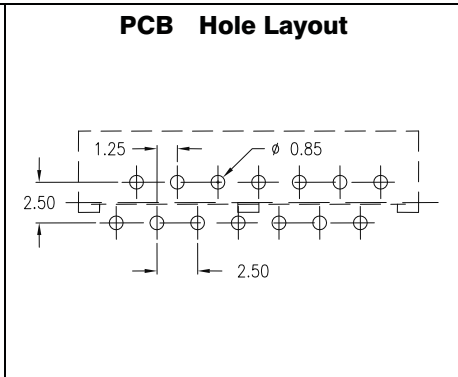
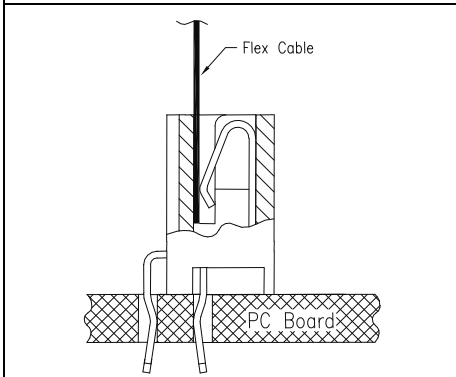
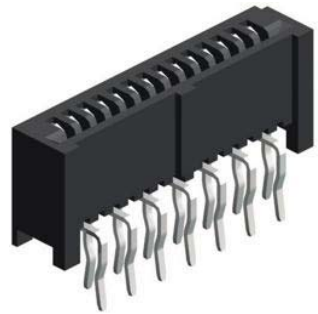
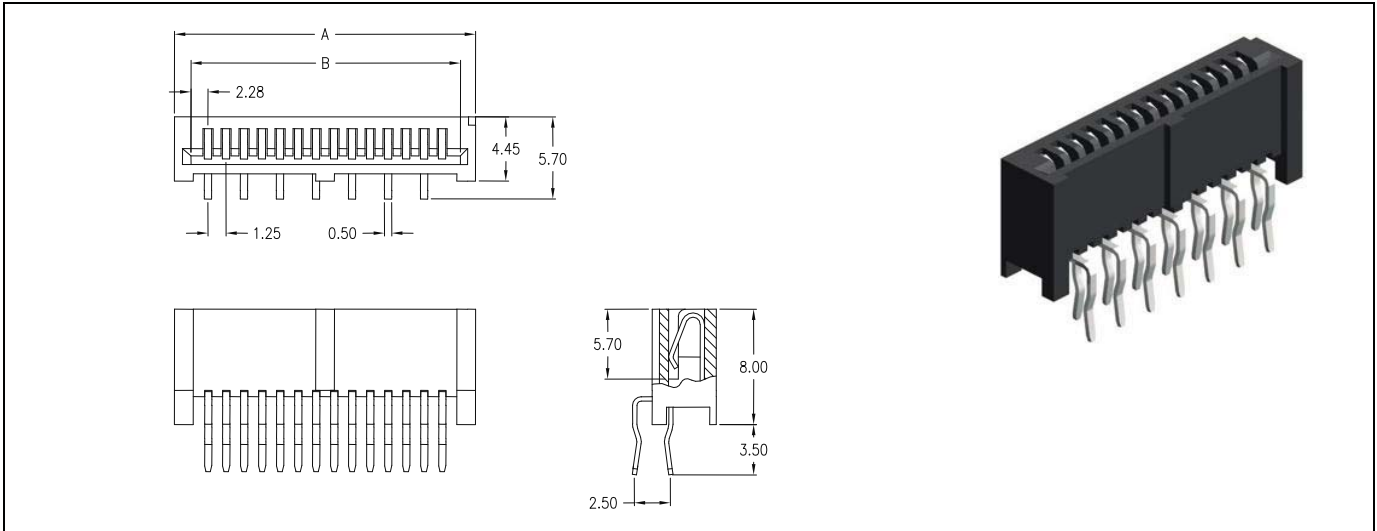
Dimensions (mm)											
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	7.15	5.05	012	18.40	16.30	021	29.65	27.55	030	40.90	38.80
004	8.40	6.30	013	19.65	17.55	022	30.90	28.80	031	42.15	40.05
005	9.65	7.55	014	20.90	18.80	023	32.15	30.05	032	43.40	41.30
006	10.90	8.80	015	22.15	20.05	024	33.40	31.30	033	44.65	42.55
007	12.15	10.05	016	23.40	21.30	025	34.65	32.55	034	45.90	43.80
008	13.40	11.30	017	24.65	22.55	026	35.90	33.80	035	47.15	45.05
009	14.65	12.55	018	25.90	23.80	027	37.15	35.05	036	48.40	46.30
010	15.90	13.80	019	27.15	25.05	028	38.40	36.30			
011	17.50	15.05	020	28.40	26.30	029	39.65	37.55			

How to order

FCL - xxx - H125 - 99



FPC/FFC Connector LIF Type
 - THT - 1.25mm pitch vertical



SPECIFICATIONS

Current rating	1 A max.	Operating temperature	- 40° to +105°C
Insulator resistance	500 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	20 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC/1 Min.	Insulator material	(RoHS compliant) Nylon (black) UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	7.15	5.10	011	17.15	15.10	019	27.15	25.10	027	37.15	35.10
004	8.40	6.35	012	18.40	16.35	020	28.40	26.35	028	38.40	36.35
005	9.65	7.60	013	19.65	17.60	021	29.65	27.60	029	39.65	37.60
006	10.90	8.85	014	20.90	18.85	022	30.90	28.85	030	40.90	38.85
007	12.15	10.10	015	22.15	20.10	023	32.15	30.10	031	42.15	40.10
008	13.40	11.35	016	23.40	21.35	024	33.40	31.35	032	43.40	41.35
009	14.65	12.60	017	24.65	22.60	025	34.65	32.60	033	44.65	42.60
010	15.90	13.85	018	25.90	23.85	026	35.90	33.85			

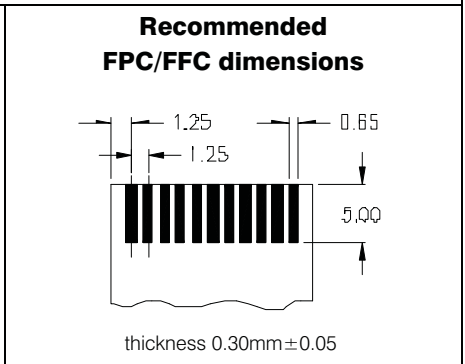
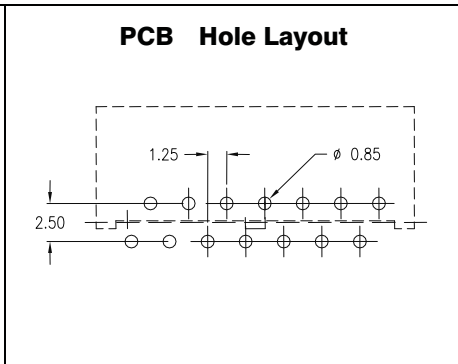
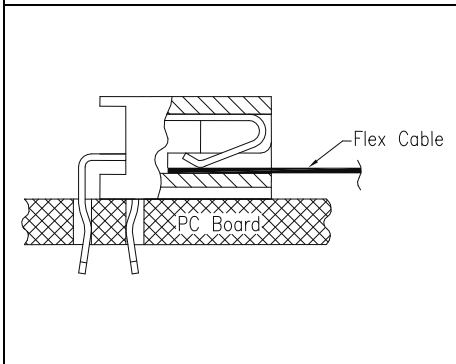
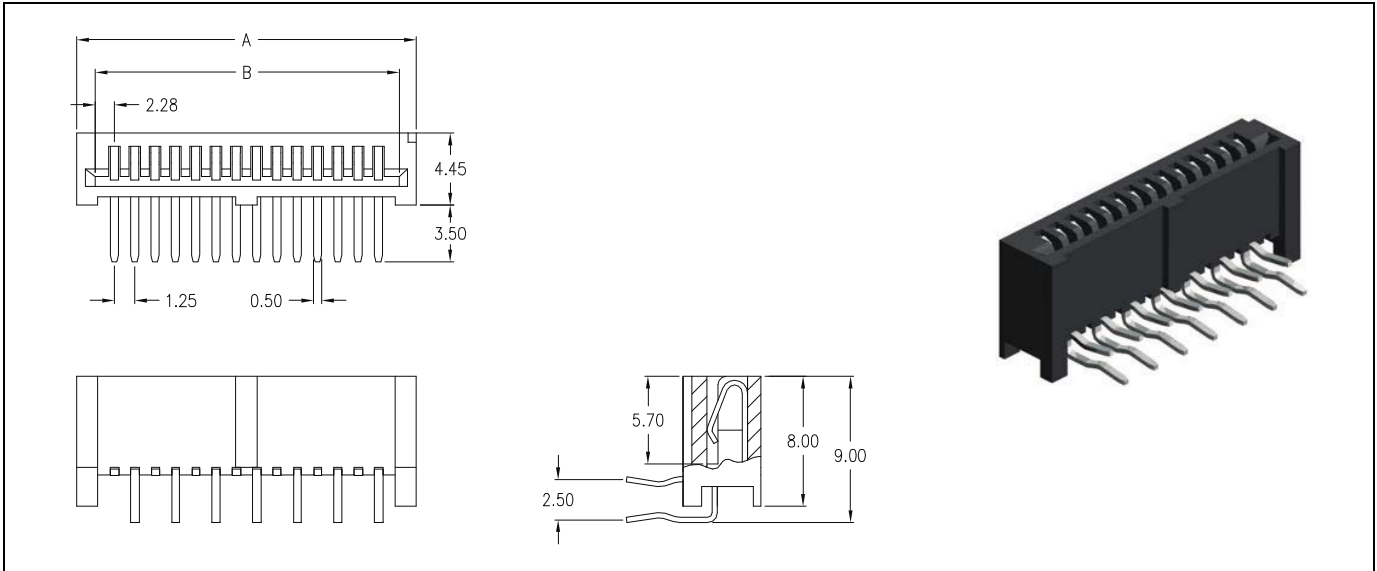
How to order

FCL - xxx - S125 - 99

Nbr of contacts
 003 to 033

Plating
 99 = tin
 (leadfree)

FPC/FFC Connector LIF Type
 - THT - 1.25mm pitch right angle



SPECIFICATIONS

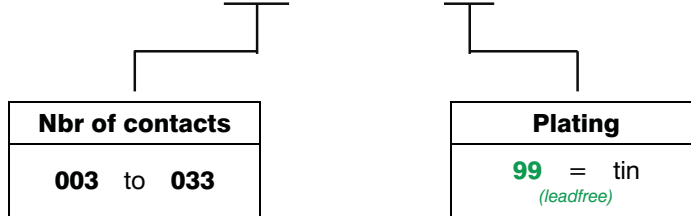
Current rating	1 A max.	Operating temperature	- 40° to +105°C
Insulator resistance	500 MΩ min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	20 mΩ max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC/1 Min.	Insulator material	(RoHS compliant) Nylon (black) UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	7.15	5.10	011	17.15	15.10	019	27.15	25.10	027	37.15	35.10
004	8.40	6.35	012	18.40	16.35	020	28.40	26.35	028	38.40	36.35
005	9.65	7.60	013	19.65	17.60	021	29.65	27.60	029	39.65	37.60
006	10.90	8.85	014	20.90	18.85	022	33.90	28.85	030	40.90	38.85
007	12.15	10.10	015	22.15	20.10	023	32.15	30.10	031	42.15	40.10
008	13.40	11.35	016	23.40	21.35	024	33.40	31.35	032	43.40	41.35
009	14.65	12.60	017	24.65	22.60	025	34.65	32.60	033	44.65	42.60
010	15.90	13.85	018	25.90	23.85	026	35.90	33.85			

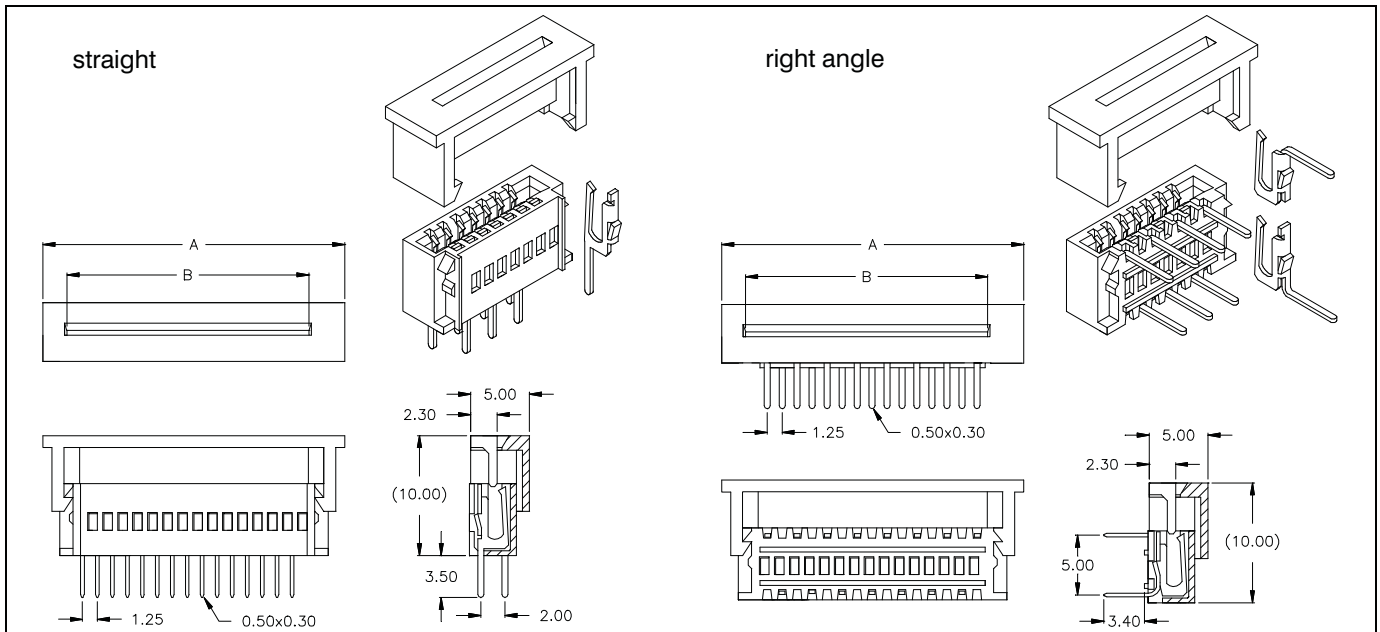
How to order

FCL - xxx - R125 - 99

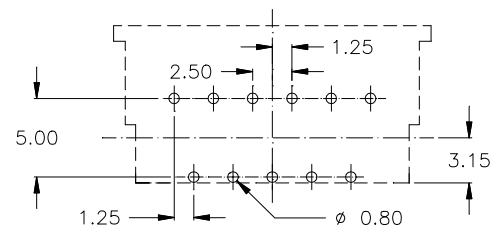
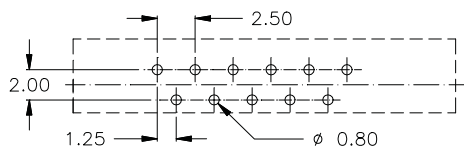


FPC/FFC Connector ZIF Type

- THT - 1.25mm pitch straight & right angle



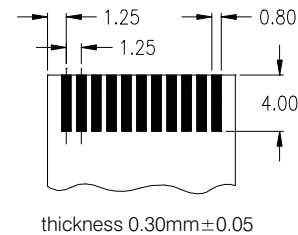
PCB Hole Layout



SPECIFICATIONS

Current rating	1 A max.
Insulator resistance	500 MΩ min.
Contact resistance	20 mΩ max.
Withstanding voltage	500 V AC/1 Min.
Operating temperature	-20°C to +85°C
Contact material	Phosphor Bronze (RoHS compliant)
Contact plating	Tin (leadfree)
Insulator material	P.B.T. UL 94 V-0 (RoHS compliant)

Recommended FPC/FFC dimensions

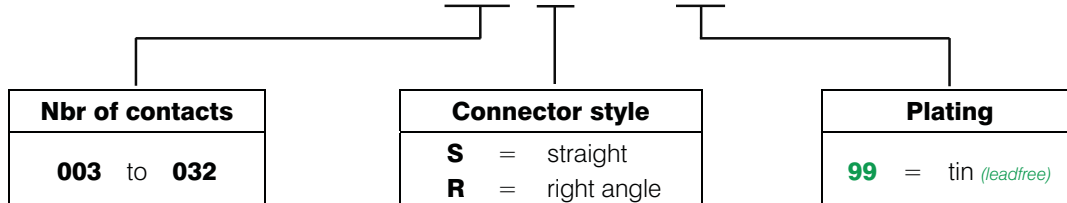


Dimensions (mm)

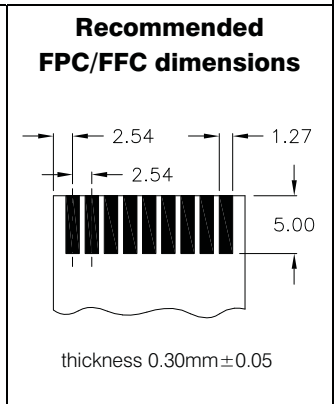
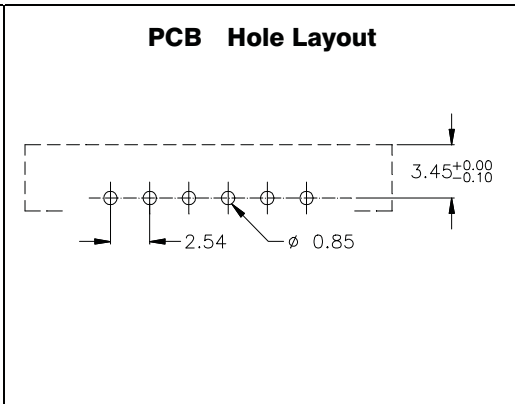
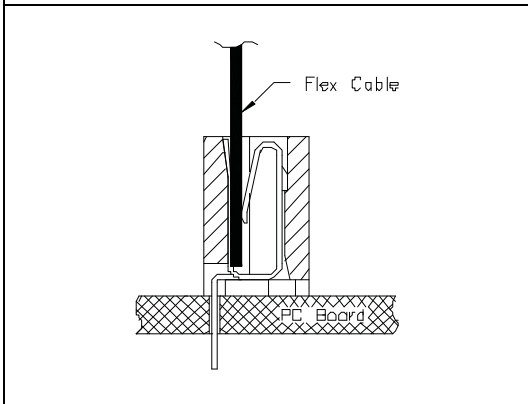
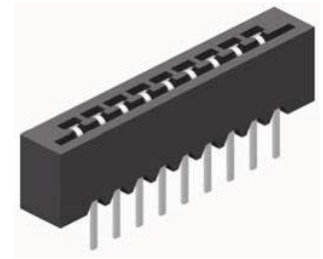
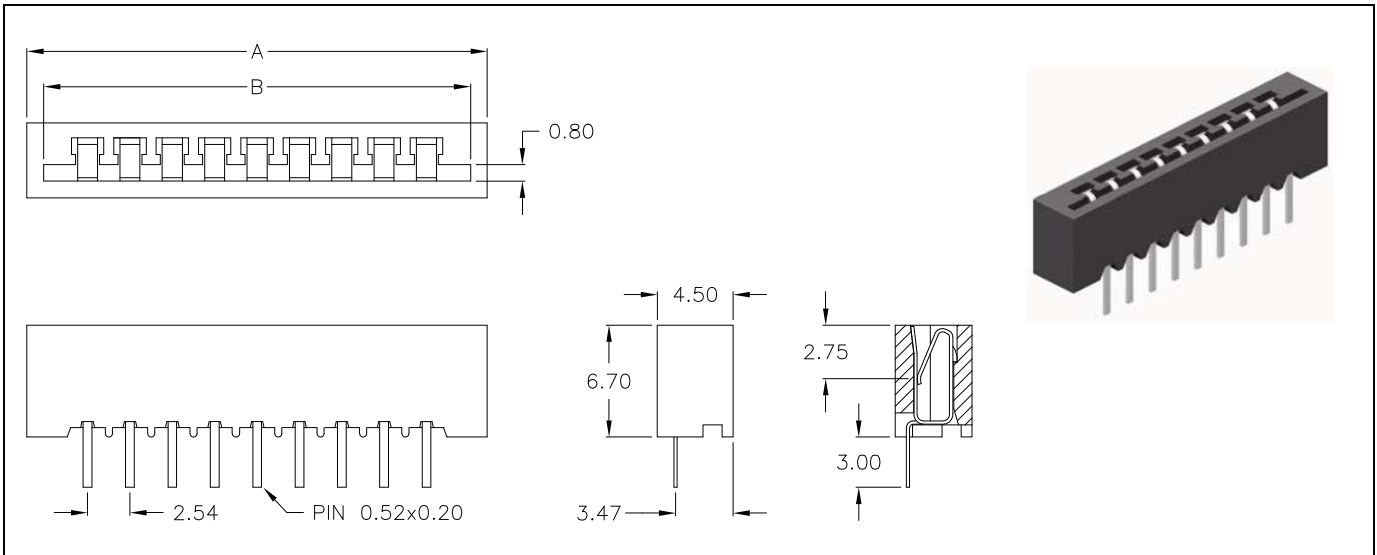
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
003	9.55	5.20	011	19.55	15.20	019	29.55	25.20	027	39.55	35.20
004	10.80	6.45	012	20.80	16.45	020	30.80	26.45	028	40.80	36.45
005	12.05	7.70	013	22.05	17.70	021	32.05	27.70	029	42.05	37.70
006	13.30	8.95	014	23.30	18.95	022	33.30	28.95	030	43.30	38.95
007	14.55	10.20	015	24.55	20.20	023	34.55	30.20	031	44.55	40.20
008	15.80	11.45	016	25.80	21.45	024	35.80	31.45	032	45.80	41.45
009	17.05	12.70	017	27.05	22.70	025	37.05	32.70			
010	18.30	13.95	018	28.30	23.95	026	38.30	33.95			

How to order

FCZ - xxx - X 125 - 99



FPC/FFC Connector LIF Type
 - THT - 2.54mm pitch vertical



SPECIFICATIONS

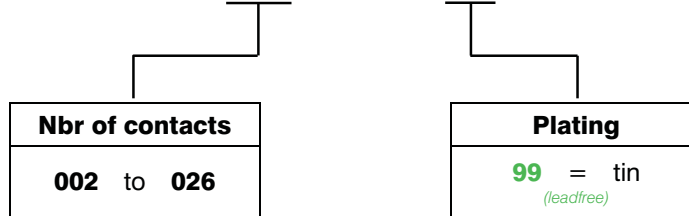
Current rating	1 A max.	Operating temperature	- 55°C to +85°C
Insulator resistance	1000 M Ω min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	25 m Ω max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

Dimensions (mm)

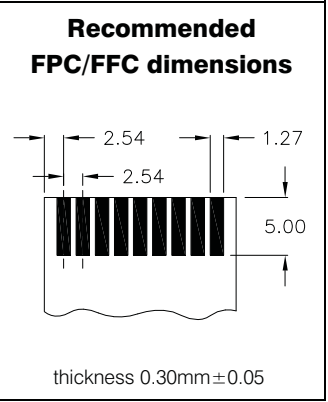
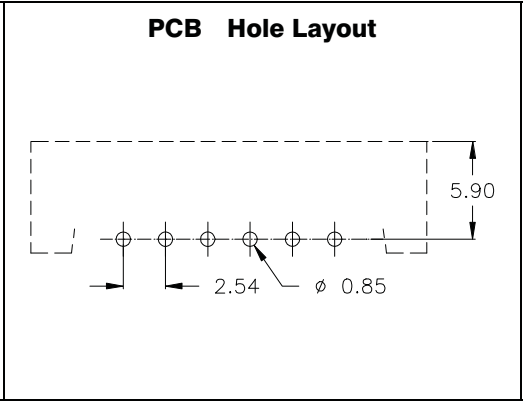
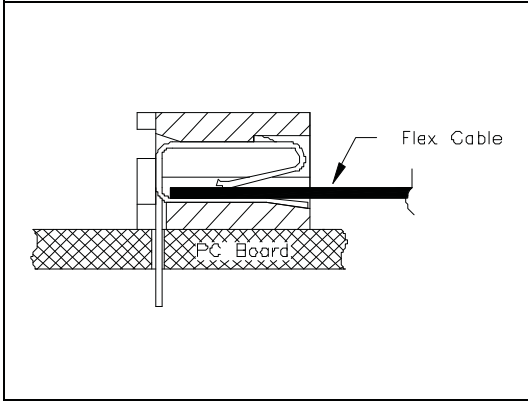
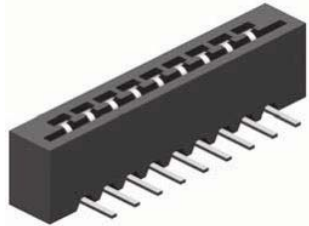
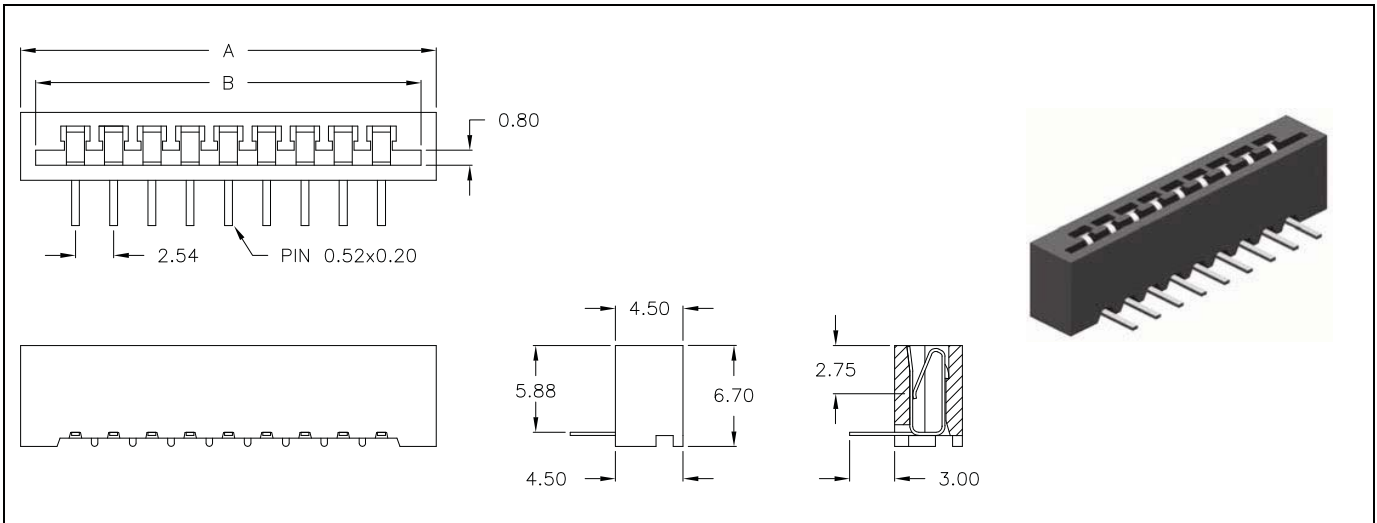
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
002	10.54	8.43	009	28.32	26.21	016	46.10	43.99	023	63.88	61.77
003	13.08	10.97	010	30.86	28.75	017	48.64	46.53	024	66.42	64.31
004	15.62	13.51	011	33.40	31.29	018	51.18	49.07	025	68.96	66.85
005	18.16	16.05	012	35.94	33.83	019	53.72	51.60	026	71.50	69.39
006	20.70	18.59	013	38.48	36.37	020	56.26	54.15			
007	23.24	21.13	014	41.02	38.91	021	58.80	56.69			
008	25.78	23.67	015	43.56	41.45	022	61.34	59.23			

How to order

FPC - xxx - S254 - 99



FPC/FFC Connector LIF Type
 - THT - 2.54mm pitch right angle



SPECIFICATIONS

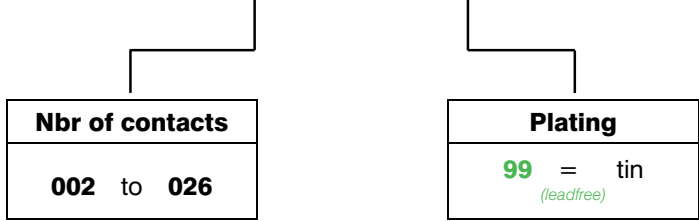
Current rating	1 A max.	Operating temperature	- 55°C to +85°C
Insulator resistance	1000 M Ω min.	Contact material	(RoHS compliant) Phosphor Bronze
Contact resistance	25 m Ω max.	Contact plating	Tin (leadfree)
Withstanding voltage	500 V AC	Insulator material	(RoHS compliant) P.B.T. UL 94 V-0

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
002	10.54	8.43	009	28.32	26.21	016	46.10	43.99	023	63.88	61.77
003	13.08	10.97	010	30.86	28.75	017	48.64	46.53	024	66.42	64.31
004	15.62	13.51	011	33.40	31.29	018	51.18	49.07	025	68.96	66.85
005	18.16	16.05	012	35.94	33.83	019	53.72	51.60	026	71.50	69.39
006	20.70	18.59	013	38.48	36.37	020	56.26	54.15			
007	23.24	21.13	014	41.02	38.91	021	58.80	56.69			
008	25.78	23.67	015	43.56	41.45	022	61.34	59.23			

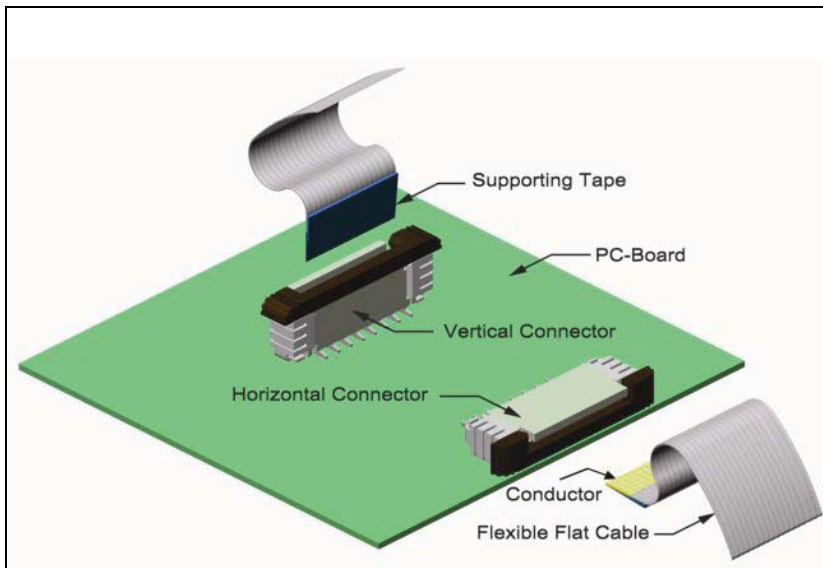
How to order

FPC - xxx - R254 - 99



Flex Cable

0.50mm to 2.54mm pitch



SPECIFICATIONS

Conductor resistance	according to JIS C-C3102 (@ 20°C)
Insulation resistance	> 1000 MΩ/m @ 500 V DC
Dielectric strength	500 V, 0.5Ma / 1 Minute
Operating temperature	-40°C to ~ +80°C
Flame Test	UL Sub, 758 VW-1

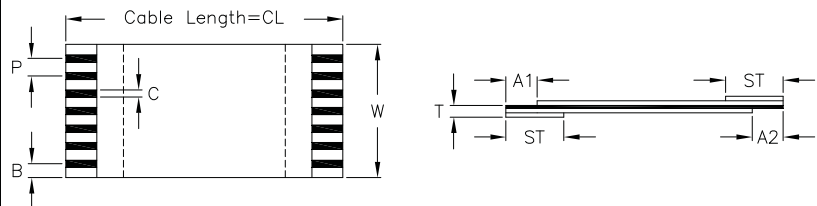
Flexing Test

- A) Bending angle: 180°, R=Cable thickness ≥ 20 cycles
- B) 10mmR, 70 cycle/Min., 25mm Reciprocate ≥ 100.000 cycles

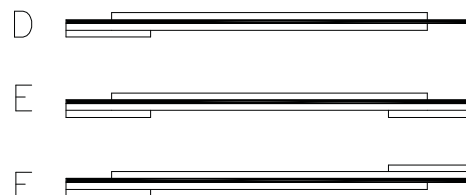
Abrasion Test

Ø5.0mm, 600g, 60 cycle/Min. ≥ 10.000 cycles

Dimensions



Cable Type

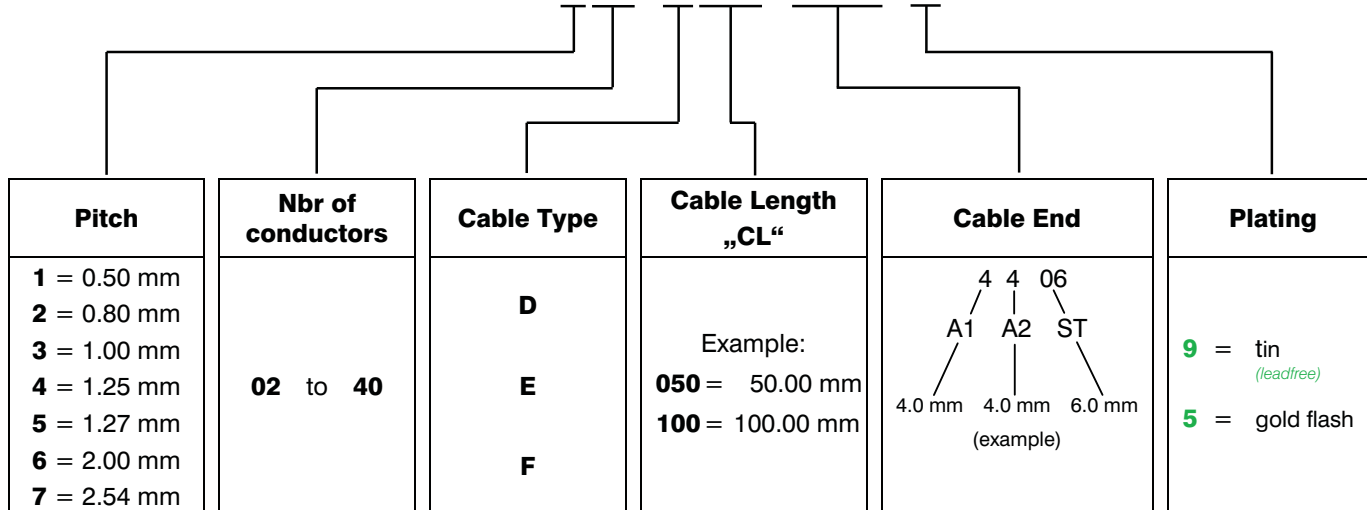


	"P" (Pitch)	"C"	"B"	"W"	"CL"	"T"	"A1"	"A2"	"ST"
Range	0.50 - 2.54	0.30 - 0.80	same as "P"	Px(n+1)	20.00 min.	0.30	3.00 - 6.00	3.00 - 6.00	6.00 - 15.00
Tolerance	±0.05	±0.05	±0.15	±0.10	see Note	±0.05	±1.00	±1.00	±2.00

Note : 20 - 100mm ±2.00mm 101 - 200mm ±3.00mm 201 - 300mm ±4.00mm 301mm ↑ ±5.00mm

How to order

FCA - x xx - X xxx - 4406 - X



ZIF Test Sockets for Flex Cable

0.50mm to 2.54mm pitch



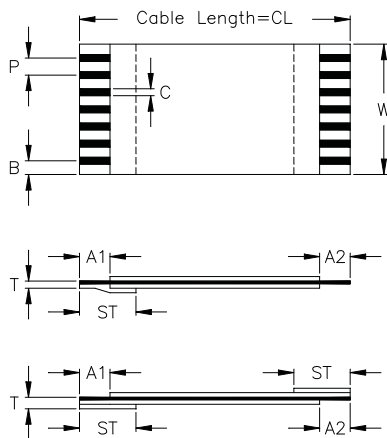
High cycle ZIF Test Sockets for any kind and pitch of Flex-Cable.

Handles up to 10K cycles with simple open/close ClamShell type retention frame.

Cable Dimensions

In order to be able to offer the correct socket for your cable, we need to know the type of cable you are using and the corresponding dimensions as shown below.

Please send the datasheet of your cable together with your socket request.



SPECIFICATIONS

Mechanical data

Contact life
Retention System life
Solderability
Individual contact force

10.000 cycles min.
10.000 cycles min.
as per IEC 60068-2-58
40 grams max.

Material

Insulator (RoHS compliant)
Terminal (RoHS compliant)
Spring (RoHS compliant)

High temp plastic or epoxy FR4
Brass
BeCu

Electrical data

Contact resistance
Current rating
Insulation resistance at 500V DC
Breakdown voltage at 60 Hz
Capacitance
Inductance

< 100 mΩ
500 mA max.
100 MΩ if 0.50 to 0.80mm pitch
500 MΩ 1.00mm pitch upwards
500V min.
< 1 pF
< 2 nH

Operating temperature

-55°C to +125°C

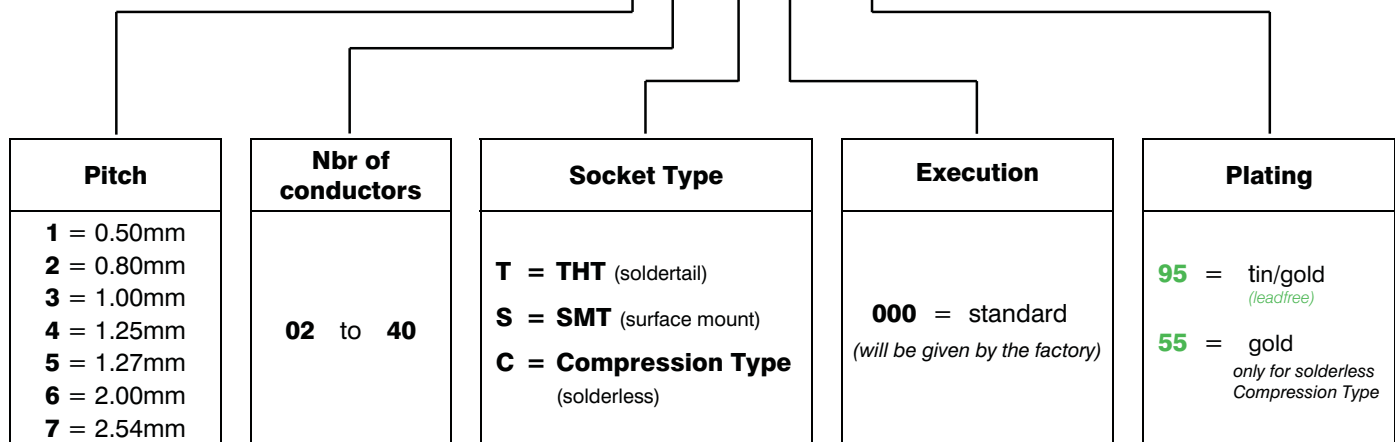
Processing temperature

260°C for 60sec.

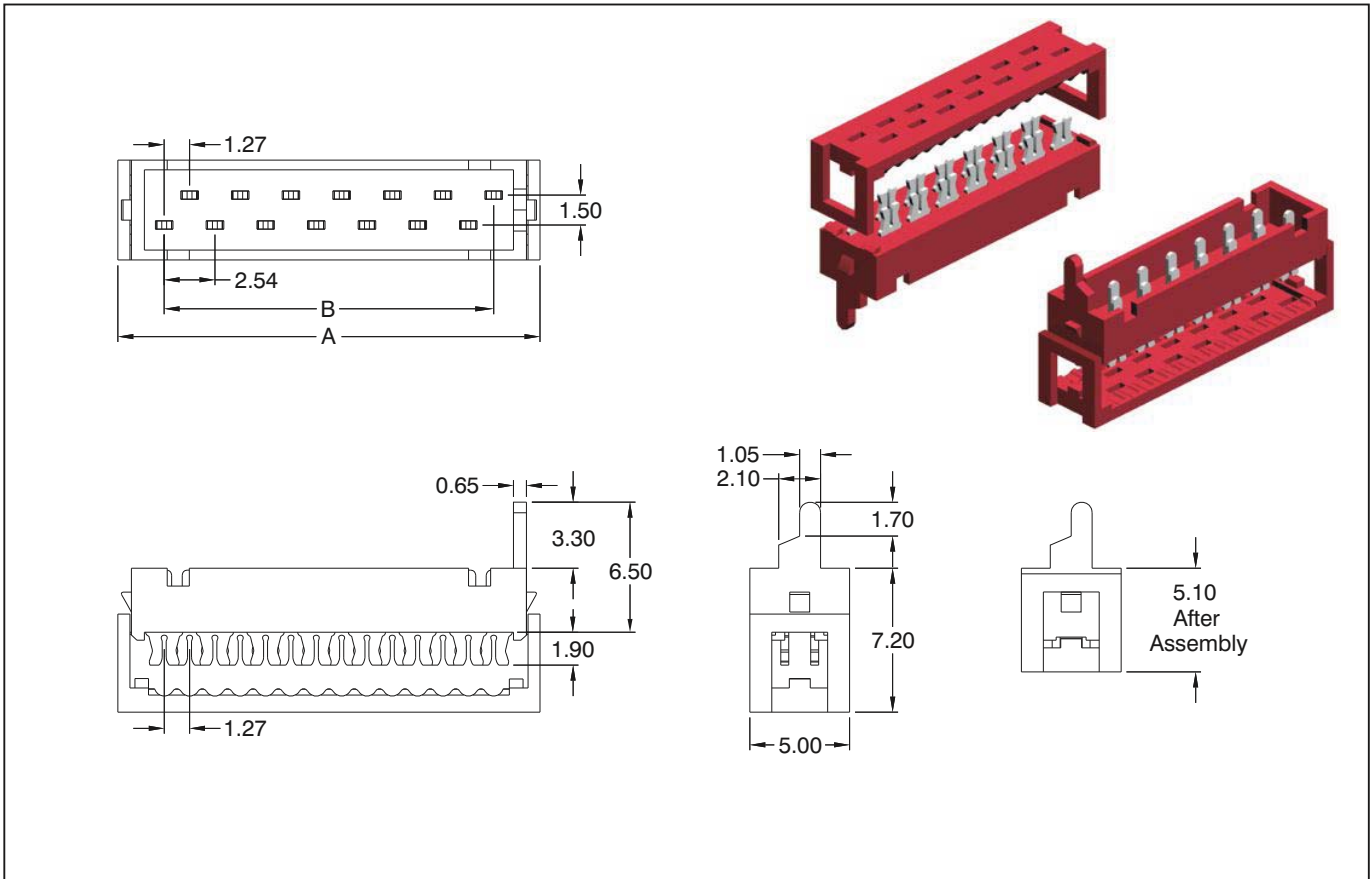
A detailed socket drawing with the required PCB layout dimensions will be submitted by E-tec for each project.

How to order

FCT - x xx - X xxx - xx



Mini – Flex Connector
 IDC pitch 1,27mm shrouded male



SPECIFICATIONS		RIBBON CABLE RECOMMENDATION	
Current rating	1.5 A	Cable Type	Ribbon UL Style 2651
Nominal rating	230 V	Spacing	1.27 mm
Contact resistance	10 mΩ max.	Wire range	stranded 0.08-0.09 mm ² AWG28
Insulator resistance	1000 MΩ min.	Insulation Diameter	solid Ø 0.30
Withstanding voltage	500 V AC		
Operating temperature	-40°C to +105°C		
Insulator material	P.B.T. (red) UL 94 V-0		
Contact material	Phosphor Bronze		

Dimensions (mm)								
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	8.45	3.81	012	18.61	13.97	020	28.77	24.13
006	10.99	6.35	014	21.15	16.51			
008	13.53	8.89	016	23.69	19.05			
010	16.07	11.43	018	26.23	21.59			

How to order

MFM - xxx - DC50 - 99

Nbr of contacts

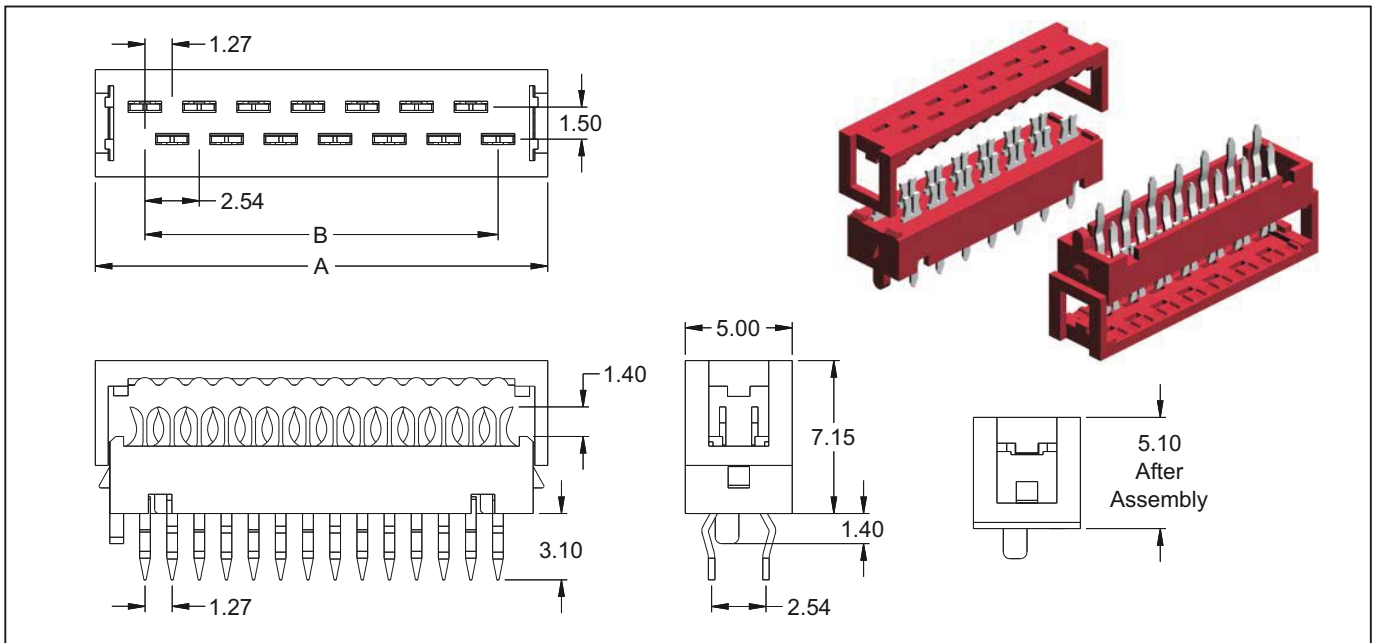
004; 006; 008; 010
 012; 014; 016; 018
 020

Plating

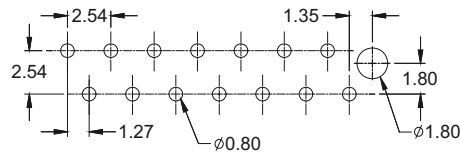
99 = Tin

Other platings on request

Mini – Flex Connector
 IDC pitch 1,27mm - THT - Plug



PCB Hole Layout



SPECIFICATIONS

Current rating	1.5 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Insulator material	P.B.T. (red) UL 94 V-0
Contact material	Phosphor Bronze

RIBBON CABLE RECOMMENDATION

Cable Type	Ribbon UL Style 2651
Spacing	1.27 mm
Wire range	stranded 0.08-0.09 mm ² AWG28 solid Ø 0.30
Insulation Diameter	0.90 mm

Dimensions (mm)

Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	8.45	3.81	012	18.61	13.97	020	28.77	24.13
006	10.99	6.35	014	21.15	16.51			
008	13.53	8.89	016	23.69	19.05			
010	16.07	11.43	018	26.23	21.59			

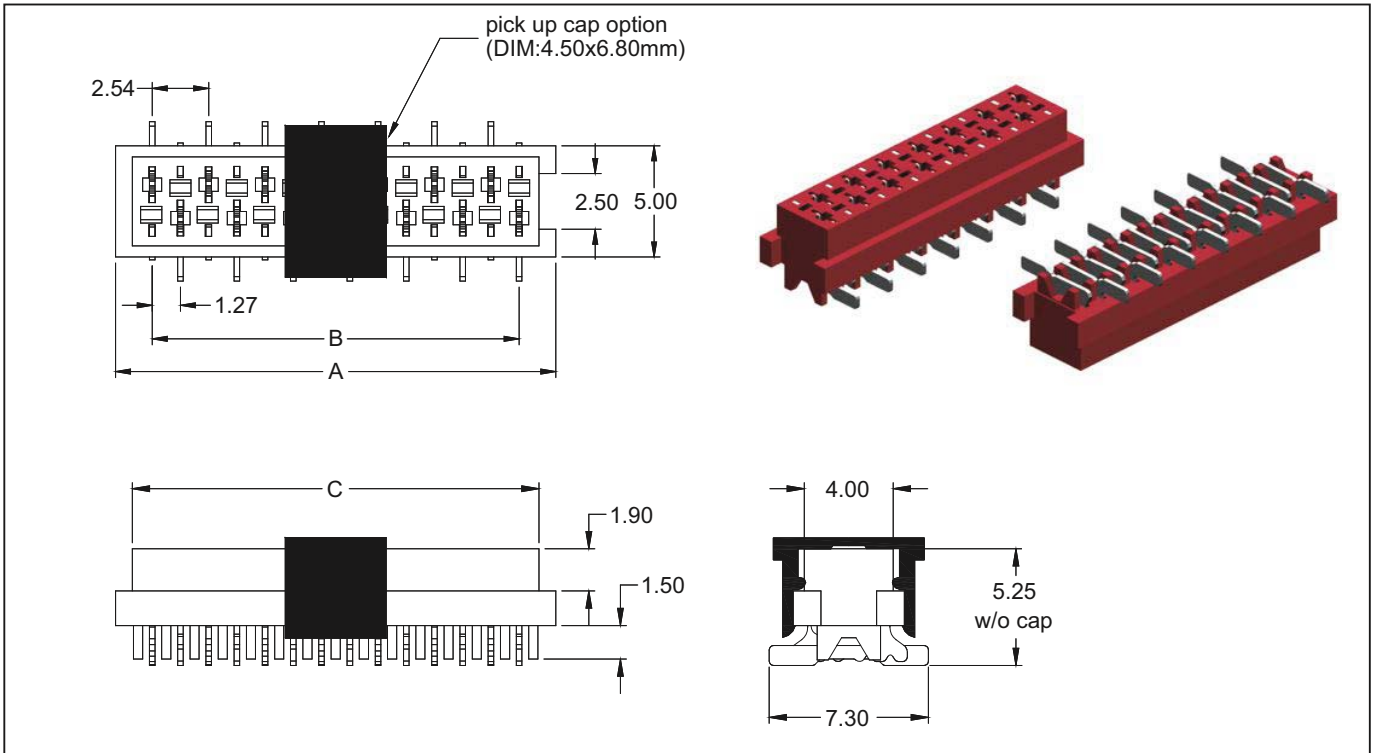
How to order

MFP - xxx - DC50 - 99

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request

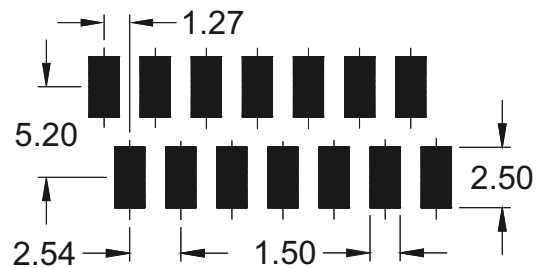
Mini – Mate Connector
 - SMT - female Block Shape



SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Processing temperature	+260°C +0/-5°C for 5sec.
Preheating	150°C±10°C/1~2 Min.
Insulator material	Nylon 46 (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Surface Mount Layout

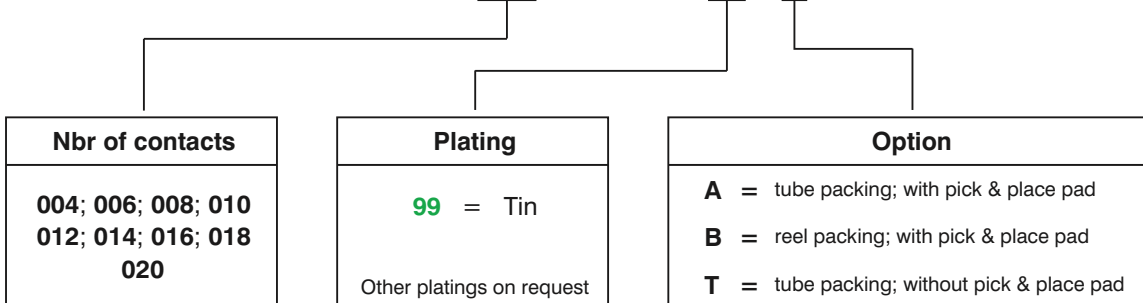


Dimensions (mm)

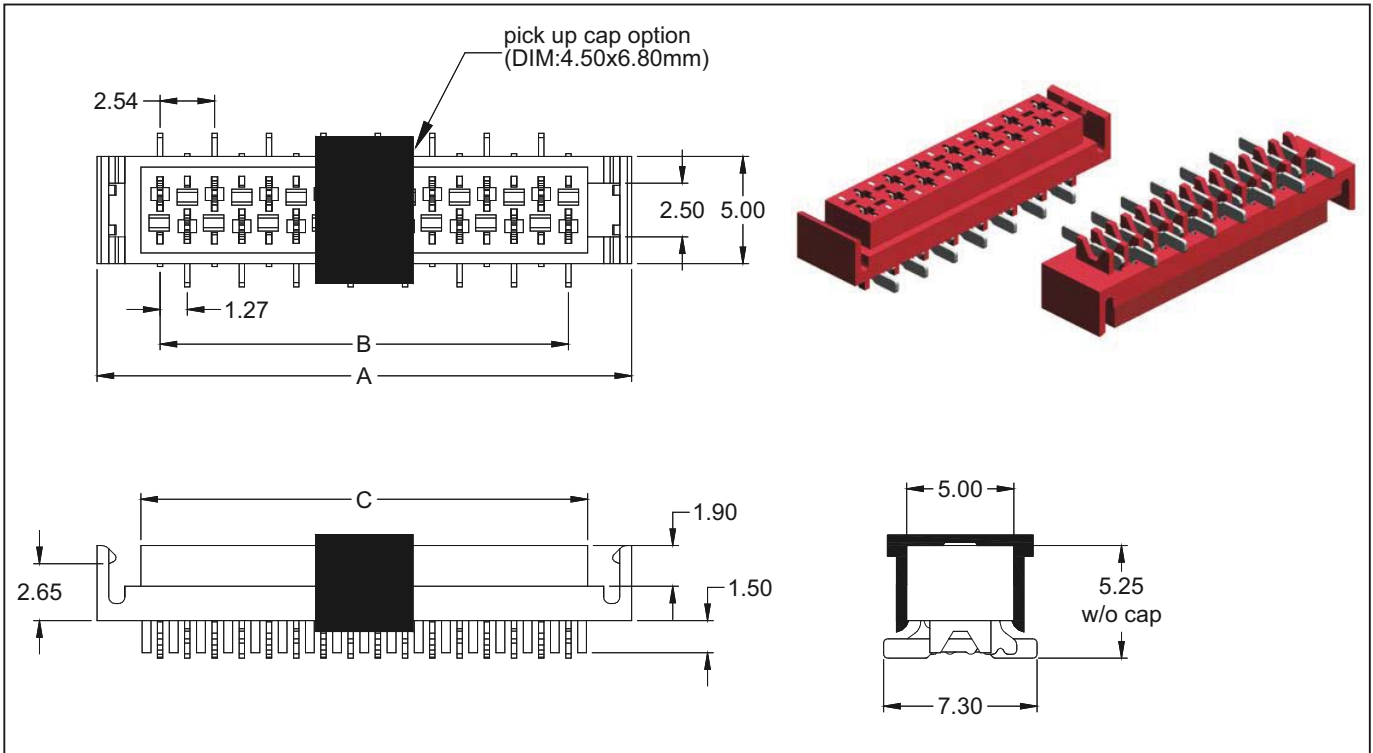
Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"
004	7.00	3.81	5.60	012	17.16	13.97	15.76	020	27.32	24.13	25.92
006	9.54	6.35	8.14	014	19.70	16.51	18.30				
008	12.08	8.89	10.68	016	22.24	19.05	20.84				
010	14.62	11.43	13.22	018	24.78	21.59	23.38				

How to order

MMF - xxx - HB50 - 99 / X



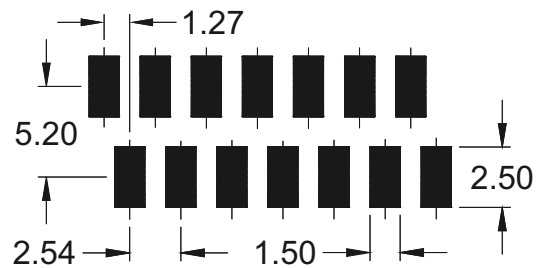
Mini – Mate Connector
 - SMT - female Latch Shape



SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Processing temperature	+260°C +0/-5°C for 5sec.
Preheating	150°C±10°C/1~2 Min.
Insulator material	Nylon 46 (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Surface Mount Layout



Dimensions (mm)

Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"
004	9.70	3.81	5.60	012	19.86	13.97	15.76	020	30.02	24.13	25.92
006	12.24	6.35	8.14	014	22.40	16.51	18.30				
008	14.78	8.89	10.68	016	24.94	19.05	20.84				
010	17.32	11.43	13.22	018	27.48	21.59	23.38				

How to order

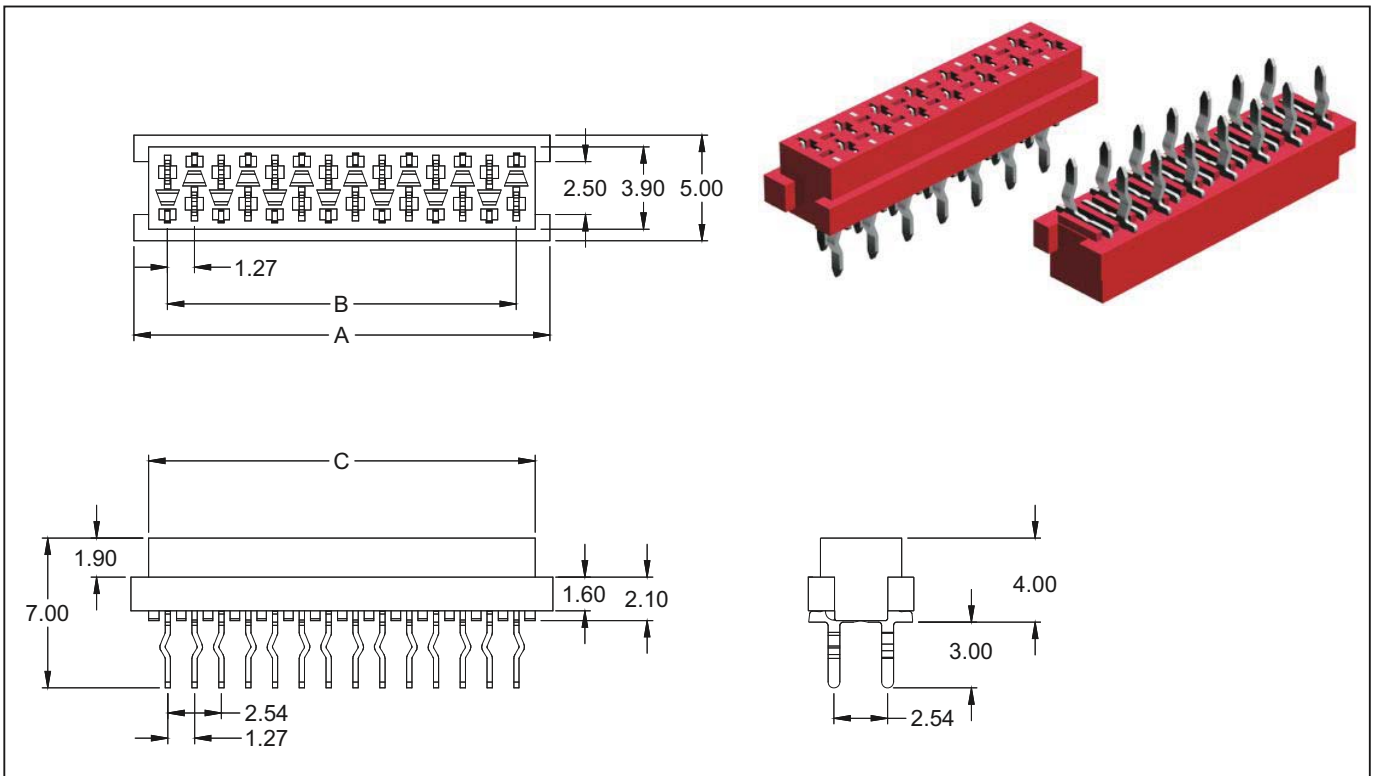
MMF - xxx - HL50 - 99 / X

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request

Option
A = tube packing; with pick & place pad
B = reel packing; with pick & place pad
T = tube packing; without pick & place pad

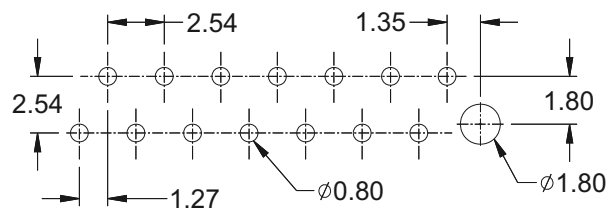
Mini - Mate Connector
 - THT - straight female Block Shape



SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Insulator material	Nylon 46 (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Hole Layout



Dimensions (mm)

Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"
004	7.00	3.81	5.60	012	17.16	13.97	15.76	020	27.32	24.13	25.92
006	9.54	6.35	8.14	014	19.70	16.51	18.30				
008	12.08	8.89	10.68	016	22.24	19.05	20.84				
010	14.62	11.43	13.22	018	24.78	21.59	23.38				

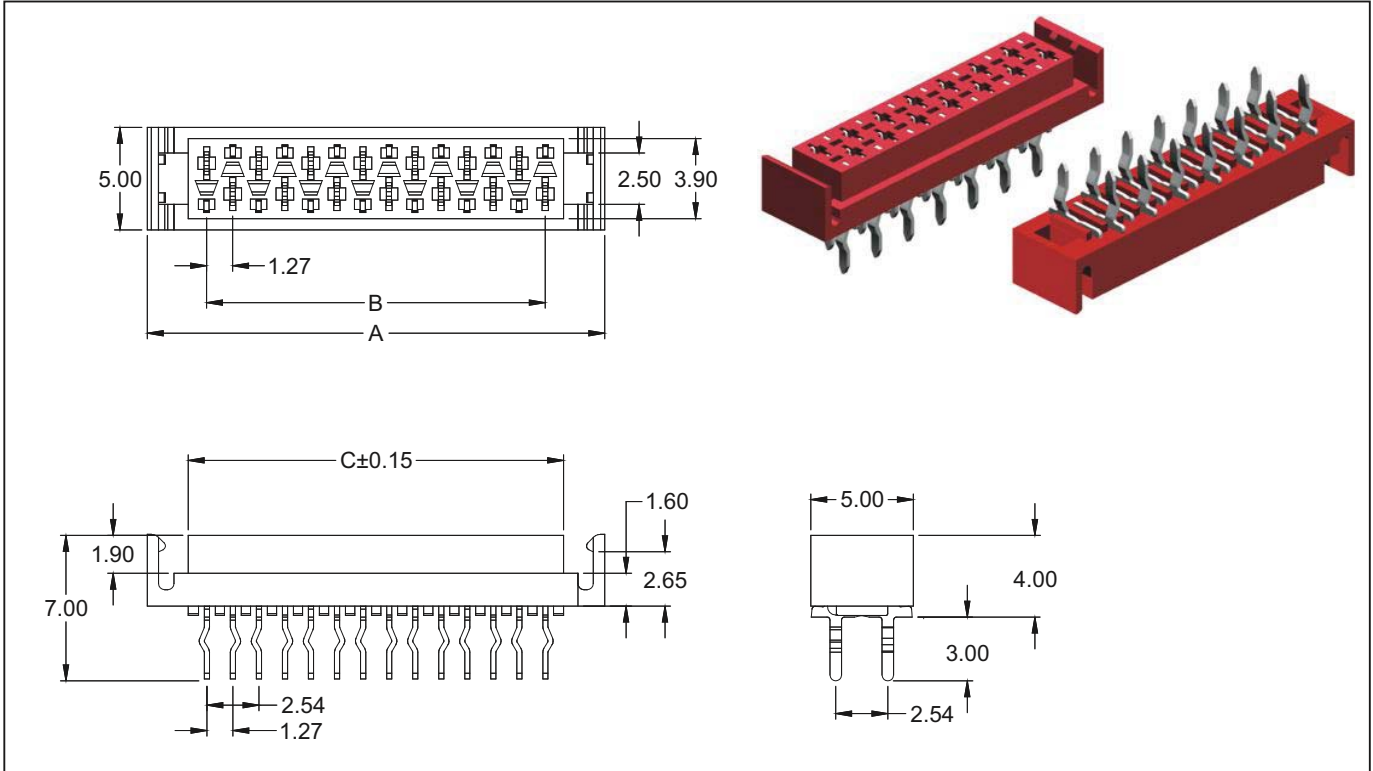
How to order

MMF - xxx - SB50 - 99

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request

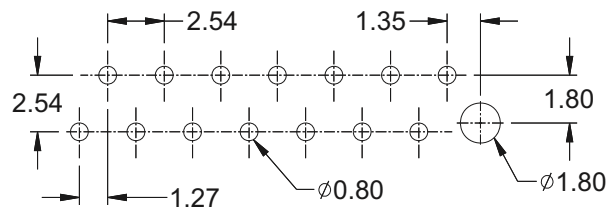
Mini – Mate Connector
 - THT - straight female Latch Shape



SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Insulator material	Nylon 46 (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Hole Layout



Dimensions (mm)

Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"
004	9.70	3.81	5.60	012	19.86	13.97	15.76	020	30.02	24.13	25.92
006	12.24	6.35	8.14	014	22.40	16.51	18.30				
008	14.78	8.89	10.68	016	24.94	19.05	20.84				
010	17.32	11.43	13.22	018	27.48	21.59	23.38				

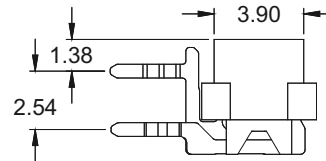
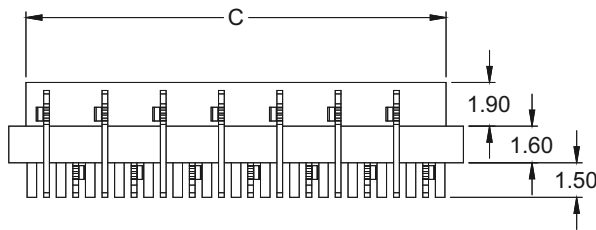
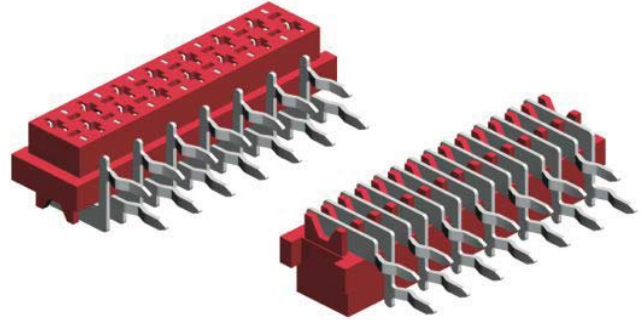
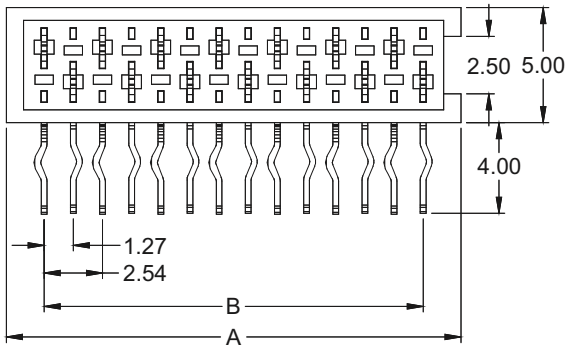
How to order

MMF - xxx - SL50 - 99

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request

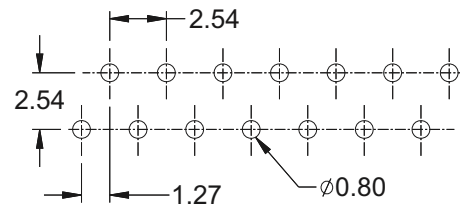
Mini – Mate Connector
 - THT - right angle female Block Shape



SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Insulator material	Nylon 46 (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Hole Layout



Dimensions (mm)

Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"	Contacts	DIM "A"	DIM "B"	DIM "C"
004	7.00	3.81	5.60	012	17.16	13.97	15.76	020	27.32	24.13	25.92
006	9.54	6.35	8.14	014	19.70	16.51	18.30				
008	12.08	8.89	10.68	016	22.24	19.05	20.84				
010	14.62	11.43	13.22	018	24.78	21.59	23.38				

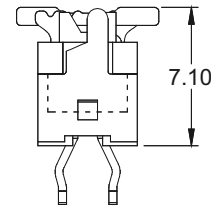
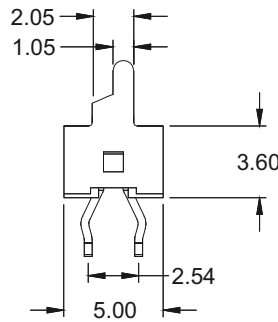
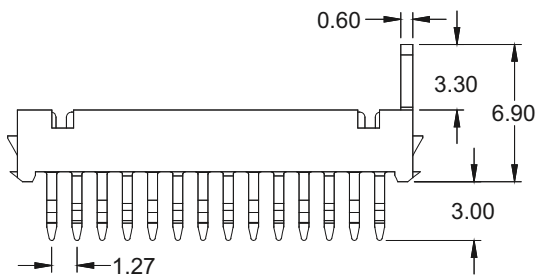
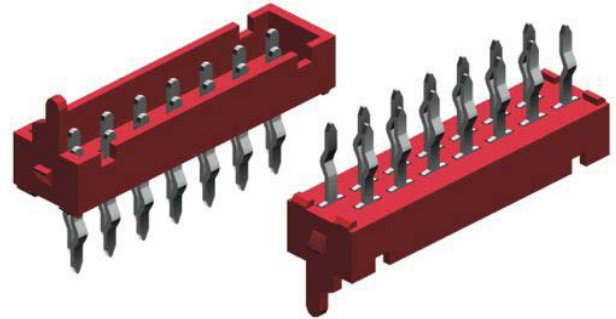
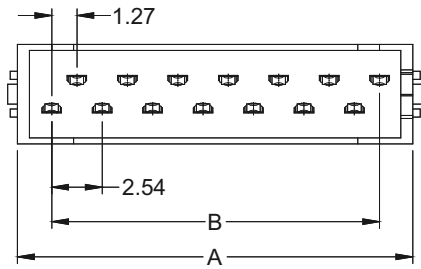
How to order

MMF - xxx - RB50 - 99

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request

Mini - Mate Connector
 - THT - straight male Shrouded

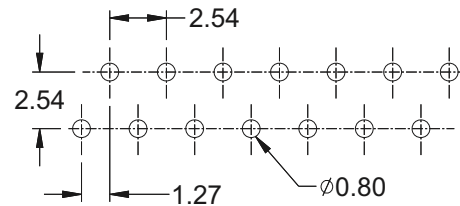


Mating height with HB50 & HL50 Type

SPECIFICATIONS

Current rating	1 A
Nominal rating	230 V
Contact resistance	10 mΩ max.
Insulator resistance	1000 MΩ min.
Withstanding voltage	500 V AC
Operating temperature	-40°C to +105°C
Insulator material	P.B.T. (red) UL 94 V-0
Contact material	Phosphor Bronze

PCB Hole Layout



Dimensions (mm)

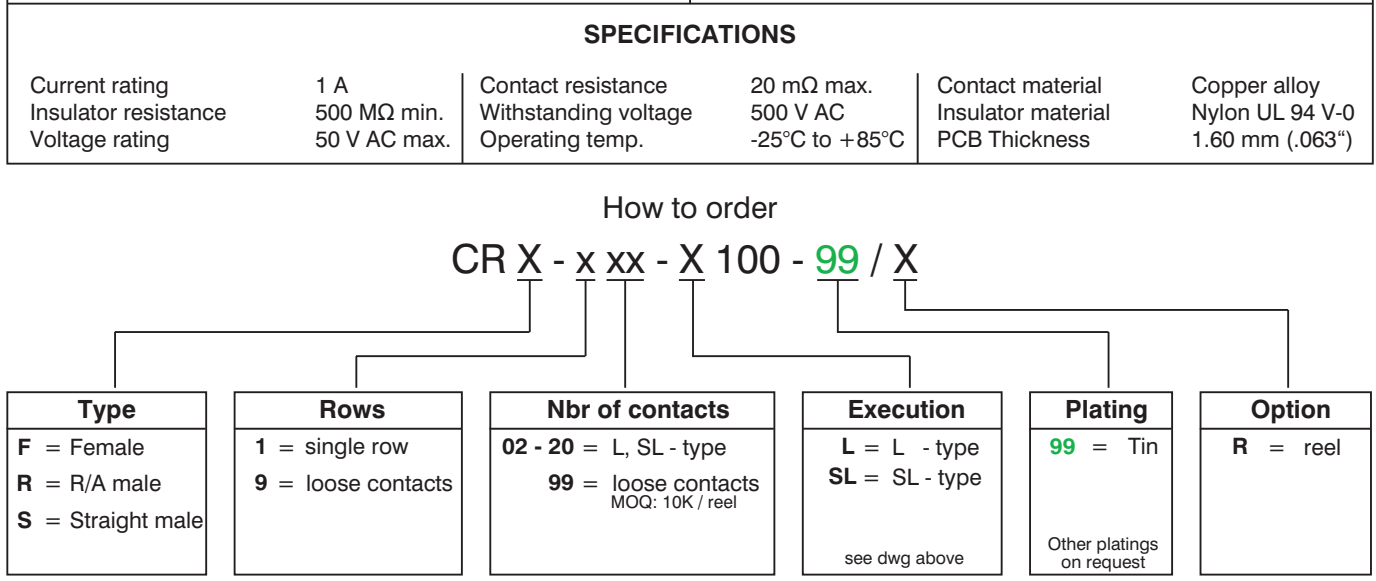
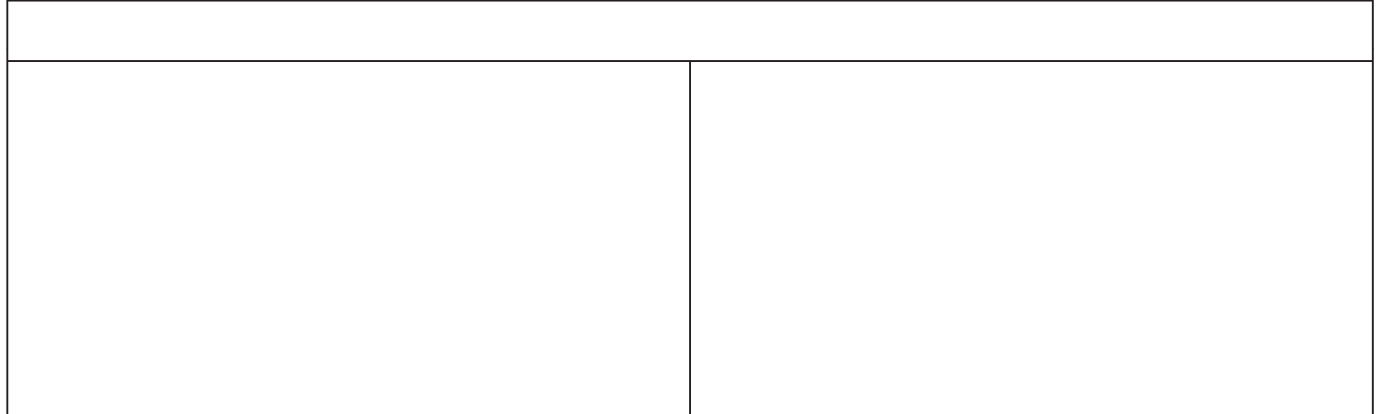
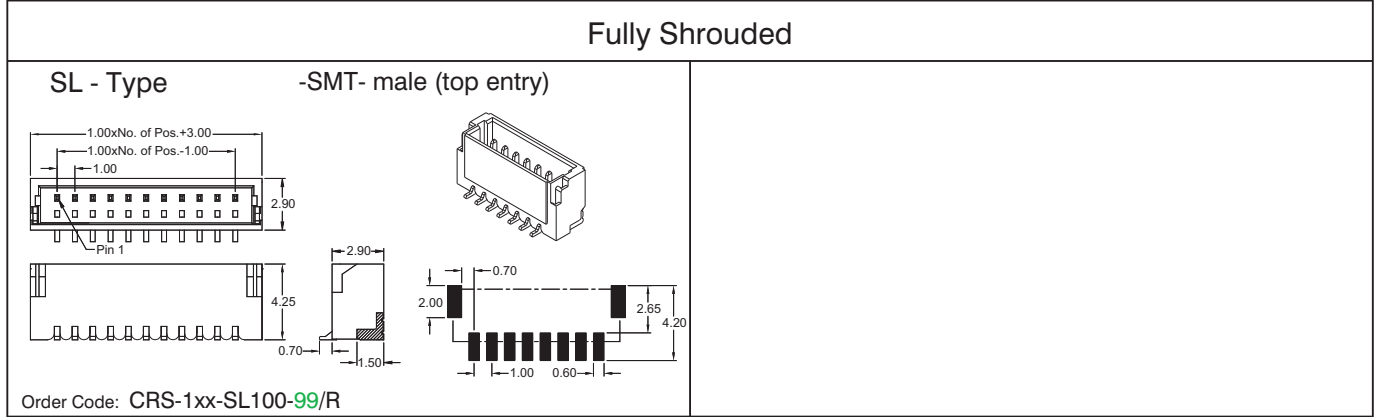
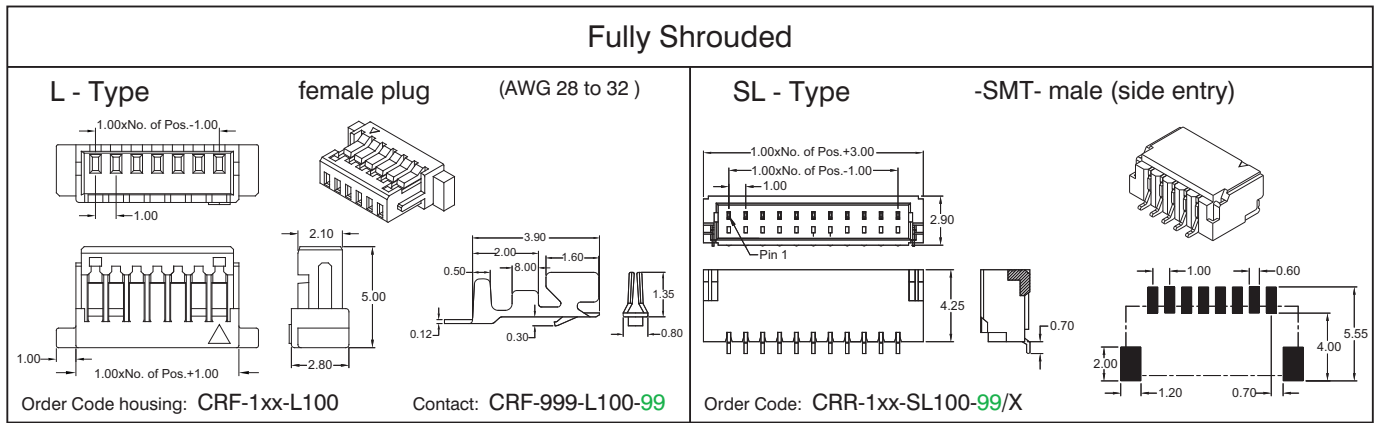
Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"	Contacts	DIM "A"	DIM "B"
004	7.20	3.81	012	17.36	13.97	020	27.52	24.13
006	9.74	6.35	014	19.90	16.51			
008	12.28	8.89	016	22.44	19.05			
010	14.82	11.43	018	24.98	21.59			

How to order

MMM - xxx - SS50 - 99

Nbr of contacts
004; 006; 008; 010 012; 014; 016; 018 020

Plating
99 = Tin
Other platings on request



Shrouded Type

<p>S - Type female plug (AWG 28 to 32)</p> <p>Order Code housing: CRF-1xx-S125 contact: CRF-999-S125-99</p>	<p>S - Type -THT- male</p> <p>Order Code straight: CRS-1xx-S125-99 right angle: CRR-1xx-S125-99</p>
---	---

Shrouded Type

<p>SS - Type -SMT- male (side entry)</p> <p>Order Code: CRR-1xx-SS125-99/R</p>	<p>SS - Type -SMT- male (top entry)</p> <p>Order Code: CRS-1xx-SS125-99/R</p>
---	--

Shrouded Type

<p>G - Type female plug (AWG 28 to 32)</p> <p>Order Code housing: CRF-1xx-G125 contact: CRF-999-G125-99</p>	<p>G - Type -THT- male</p> <p>Order Code straight: CRS-1xx-G125-99 right angle: CRR-1xx-G125-99</p>
---	---

SPECIFICATIONS

Current rating	1 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	500 MΩ min.	Withstanding voltage	500 V AC	Insulator material	Nylon UL 94 V-0
Voltage rating	50 V AC max.	Operating temp.	-25°C to +85°C	SS125 Type	LCP UL 94 V-0
				PCB Thickness	1.60 mm (.063")

How to order

CR X - x xx - X 125 - 99 / X

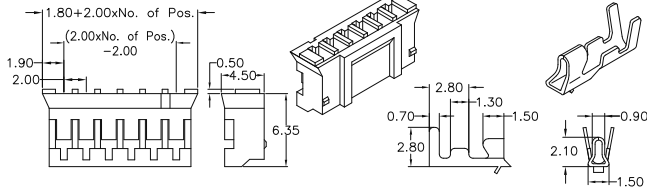
Type	Rows	Nbr of contacts	Execution	Plating	Option
F = Female	1 = single row	02 - 15 = S, SS, G - type	S = S - type	99 = tin <i>(leadfree)</i>	R = Reel
R = R/A male	9 = loose contacts	99 = loose contacts MOQ: 10K / reel	SS = SS - type SMT male	Other platings on request	
S = Straight male			G = G - type see dwg above		

Shrouded Type - front open plastic

O - Type

female plug

(AWG 26 to 30)

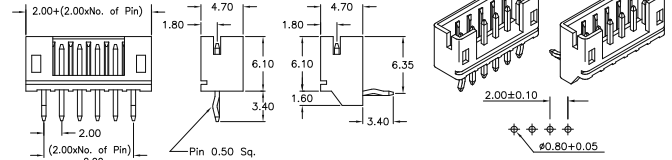


Order Code housing: CRF-1xx-O200

contact: CRF-999-O200-99

O - Type

-THT- male



Order Code straight: CRS-1xx-O200-99

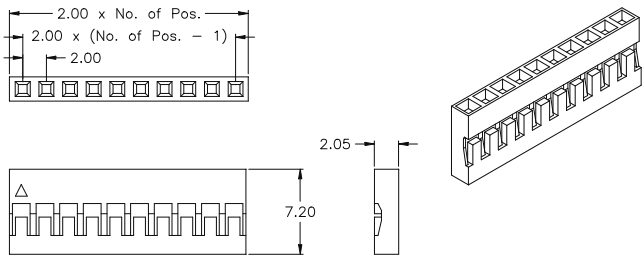
right angle: CRR-1xx-O200-99

Female Header Type

H - Type

single row

(AWG 26 to 30)

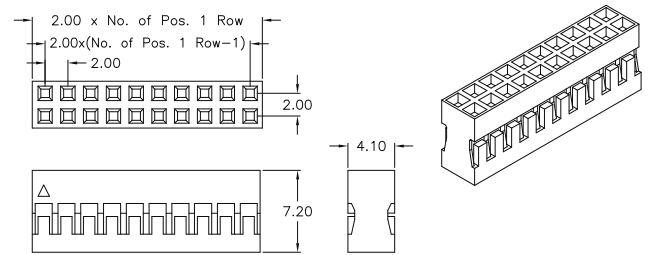


Order Code housing: CRF-1xx-H200

H - Type

dual row

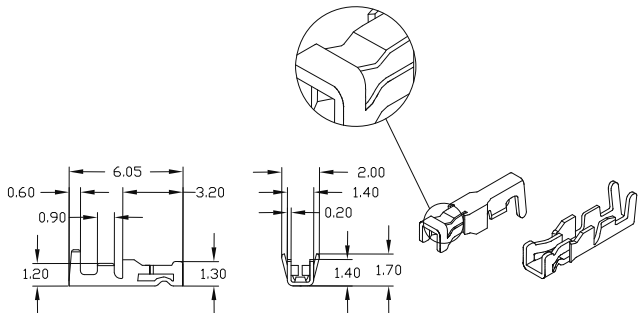
(AWG 26 to 30)



Order Code housing: CRF-2xx-H200

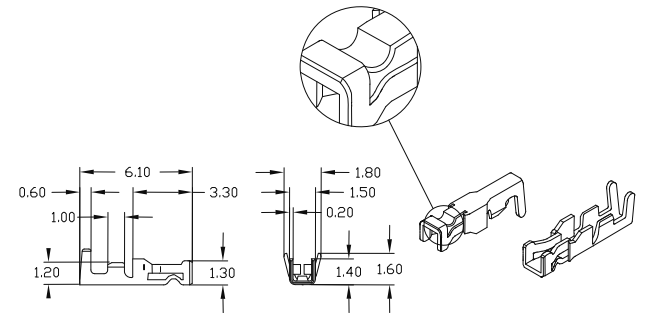
H - Type

female contact



if for single row 01-19 & dual row 04-18 contacts:

Order Code: CRF-999L-H200-55



if for single row 20-40 & dual row 20-80 contacts:

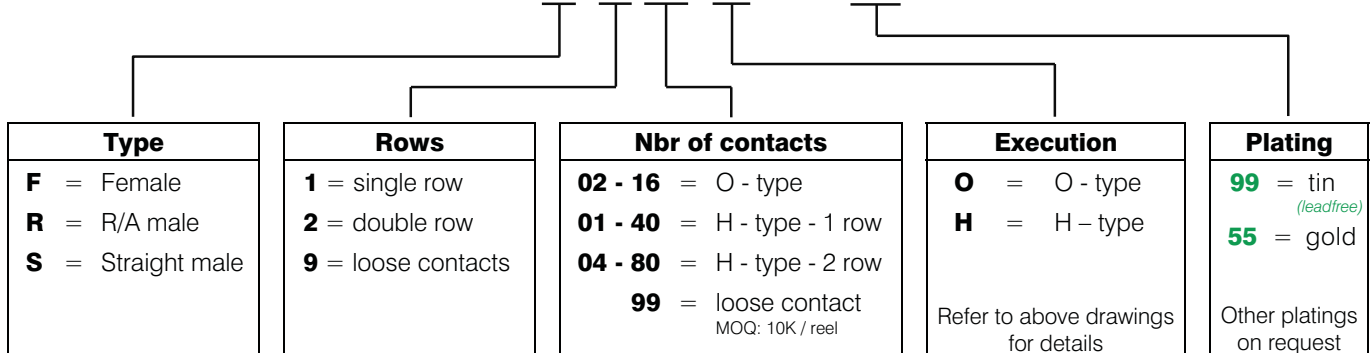
Order Code: CRF-999-H200-55

SPECIFICATIONS

Current rating	1 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	800 V AC	Insulator material	Nylon UL 94 V-0
Voltage rating	100 V AC max.	Operating temp.	-25°C to +90°C	PCB Thickness	1.60 mm (.063")

How to order

CR X - x xx - X 200 - 99



Fully Shrouded

<p>D - Type female plug (AWG 22 to 28)</p> <p>Order Code housing: CRF-2xx-D200 Contact: CRF-999-D200-99</p>	<p>D - Type -THT- male</p> <p>Order Code straight: CRS-2xx-D200-99 right angle : CRR-2xx-D200-99</p>
---	--

Single side shrouded

<p>C - Type female plug (AWG 22 to 26)</p> <p>Order Code housing: CRF-1xx-C200 Contact: CRF-999-C200-99</p>	<p>C - Type -THT- male</p> <p>Order Code straight: CRS-1xx-C200-99 right angle : CRR-1xx-C200-99</p>
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Single side shrouded

<p>SC - Type -SMT- male (top entry)</p> <p>Order Code: CRS-1xx-SC200-99/X</p>	
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SPECIFICATIONS

Current rating	2 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	800 V AC	Insulator material	Nylon UL 94 V-0
Voltage rating	100 V AC max.	Operating temp.	-25°C to +85°C	PCB Thickness	1.60 mm (.063")

How to order

CR X - x xx - X 200 - 99 / X

<p>Type</p> <p>F = Female R = R/A male S = Straight male</p>	<p>Rows</p> <p>1 = single row 2 = dual row 9 = loose contacts</p>	<p>Nbr of contacts</p> <p>04 - 40 = D - type 02 - 12 = C - type 03 - 06 = SC - type 99 = loose contacts MOQ: 10K / reel</p>	<p>Execution</p> <p>D = D - type C = C - type SC = SC - type</p> <p>see dwgs above</p>	<p>Plating</p> <p>99 = Tin</p> <p>Other platings on request</p>	<p>Option</p> <p>A = tube packing; with pick & place pad B = reel packing; with pick & place pad</p>
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Fully shrouded					
S - Type female plug (AWG 22 to 28) 			S - Type -THT- male 		
Order Code housing: CRF-1xx-S250			Order Code straight: CRS-1xx-S250-99 right angle: CRR-1xx-S250-99		
Fully shrouded with inside ribs					
I - Type female plug (AWG 24 to 28) 			I - Type -THT- male 		
Order Code housing: CRF-1xx-I250			Order Code straight: CRS-1xx-I250-99 right angle: CRR-1xx-I250-99		
Single side shrouded with inside ribs					
R - Type female plug (AWG 24 to 28) 			R - Type -THT- male 		
Order Code housing: CRF-1xx-R250			Order Code straight: CRS-1xx-R250-99 right angle: CRR-1xx-R250-99		
SPECIFICATIONS					
Current rating	3 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1000 V AC	Insulator material	Nylon UL 94 V-0
Voltage rating	250 V AC max.	Operating temp.	-25°C to +90°C	PCB Thickness	1.60 mm (.063")

How to order

CR X - x xx - X 250 - 99

Type	Rows	Nbr of contacts	Execution	Plating
F = Female R = R/A male S = Straight male	1 = single row 9 = loose contacts	02 - 20 = S - type 02 - 15 = I & R - types 99 = loose contacts MOQ: 10K / reel	S = S - type I = I - type R = R - type see dwgs above	99 = tin (leadfree) Other platings on request



Shrouded with polarization feature

<p>P - Type female plug (AWG 20 to 26)</p> <p>Order Code housing: CRF-104-P250 contact: CRF-999-P250-99</p>	<p>P - Type -THT- male</p> <p>Order Code straight: CRS-104-P250-99 right angle: CRR-104-P250-99</p>
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Friction Lock Header

<p>F - Type female plug (AWG 22 to 28)</p> <p>Order Code housing: CRF-1xx-F250 contact: CRF-999-F250-99</p>	<p>F - Type -THT- male</p> <p>Order Code straight: CRS-1xx-F250-99 right angle: CRR-1xx-F250-99</p>
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Board-lock Type

<p>B - Type male (AWG 22 to 28)</p> <p>Order Code housing: CRM-1xx-B250 contact: CRM-999-B250-99</p>	<p>PCB Hole Layout</p> <p>Dimensions: $.098 \pm .002$, 2.50 ± 0.05, $\phi .039 + .004$, $\phi 1.00 + 0.10$</p>
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SPECIFICATIONS

Current rating	3 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1000 V AC	Insulator material	Nylon UL 94 V-0
Voltage rating	250 V AC max.	Operating temp.	-25°C to +85°C	PCB Thickness	1.60 mm (.063")

How to order

CR X - x xx - X 250 - 99

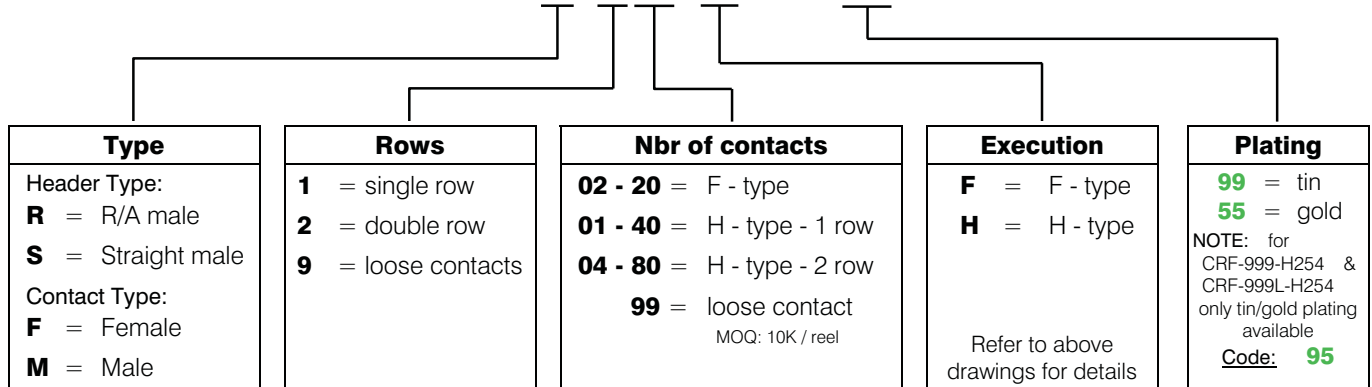
<p>Type</p> <p>F = Female R = R/A male S = Straight male M = male contact & header</p>	<p>Rows</p> <p>1 = single row 9 = loose contacts</p>	<p>Nbr of contacts</p> <p>04 = P - type 02 - 12 = F - type 02 - 16 = B - type (others on request) 99 = loose contacts MOQ: -P250- & -B250- type = 10K / reel -F250- type = 8K / reel</p>	<p>Execution</p> <p>P = P - type F = F - type B = B - type</p> <p>see dwgs above</p>	<p>Plating</p> <p>99 = tin (leadfree)</p> <p>Other platings on request</p>
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Friction Lock Type																						
<p>F - Type</p> <p>female plug (AWG 22 to 28)</p> <p>Order Code housing: CRF-1xx-F254 contact: CRF-999-F254-99</p>	<p>F - Type -THT- male</p> <p>Order Code straight: CRS-1xx-F254-99 right angle: CRR-1xx-F254-99</p>																					
Female Header Type																						
<p>H - Type female dual row (AWG 22 to 28) - without bump -</p> <p>Order Code housing: CRF-2xx-H254</p>	<p>H - Type female dual row (AWG 22 to 28) - with low bump -</p> <p>Order Code housing: CRF-2xx-H254/P</p>	<p>H - Type female dual row (AWG 22 to 28) - with high bump -</p> <p>Order Code housing: CRF-2xx-H254/HP</p>																				
<p>H - Type female single row (AWG 22 to 28) - without bump -</p> <p>Order Code housing: CRF-1xx-H254</p>	<p style="text-align: center;">H - Type female contact</p> <p>if for single row 01-19 & dual row 04-18 contacts: Order Code: CRF-999L-H254-95</p> <p>if for single row 20-40 & dual row 20-80 contacts: Order Code: CRF-999-H254-95</p>																					
<p>SPECIFICATIONS</p> <table border="1"> <tr> <td>Current rating</td> <td>3 A</td> <td>Operating temp.</td> <td>-25°C to +90°C</td> </tr> <tr> <td>Insulator resistance</td> <td>1000 MΩ min.</td> <td>Contact material</td> <td>Copper alloy</td> </tr> <tr> <td>Contact resistance</td> <td>20 mΩ max.</td> <td>Insulator material</td> <td>F-Type: Nylon UL 94 V-2 H-Type: P.B.T. UL 94 V-0</td> </tr> <tr> <td>Withstanding voltage</td> <td>1000 V AC</td> <td>PCB Thickness</td> <td>1.60 mm (.063")</td> </tr> <tr> <td>Voltage rating</td> <td>250 V AC max.</td> <td></td> <td></td> </tr> </table>		Current rating	3 A	Operating temp.	-25°C to +90°C	Insulator resistance	1000 MΩ min.	Contact material	Copper alloy	Contact resistance	20 mΩ max.	Insulator material	F-Type: Nylon UL 94 V-2 H-Type: P.B.T. UL 94 V-0	Withstanding voltage	1000 V AC	PCB Thickness	1.60 mm (.063")	Voltage rating	250 V AC max.			<p style="text-align: center;">H - Type male contact</p> <p>Order Code: CRM-999-H254-55</p>
Current rating	3 A	Operating temp.	-25°C to +90°C																			
Insulator resistance	1000 MΩ min.	Contact material	Copper alloy																			
Contact resistance	20 mΩ max.	Insulator material	F-Type: Nylon UL 94 V-2 H-Type: P.B.T. UL 94 V-0																			
Withstanding voltage	1000 V AC	PCB Thickness	1.60 mm (.063")																			
Voltage rating	250 V AC max.																					

How to order

CR X - x xx - X 254 - 99



Male Type Fully Shrouded

<p>W - Type -THT- straight</p> <p>Order Code: PCS-2xx-W300-99</p>	<p>W - Type -THT- right angle</p> <p>Order Code: PCR-2xx-W300-99</p>
<p>SW - Type -SMT- straight with solder tabs</p> <p>Order Code: PCS-2xx-SW300-99/X</p>	<p>SC - Type -SMT- straight with solder clips</p> <p>Order Code: PCS-2xx-SC300-99/X</p>

Female Type

<p>W - Type (AWG 20 to 24)</p> <p>Order Code housing: PCF-2xx-W300 Contact: PCF-999-W300-99</p>	
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SPECIFICATIONS

Current rating	5 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1500V AC	Insulator material	LCP UL 94 V-0(male) Nylon UL 94 V-2(female)
Voltage rating	250V AC max.	Operating temp.	-25°C to +85°C	PCB Thickness	1.60 mm (.063")

How to order

PC X - x xx - X 300 - 99 / X

<p>Type</p> <p>F = Female R = R/A male S = Straight male</p>	<p>Rows</p> <p>2 = dual row 9 = loose contacts</p>	<p>Nbr of contacts</p> <p>02 - 24 = W, SW, SC - type 99 = loose contacts MOQ: 10K / reel</p>	<p>Execution</p> <p>W = W - type SW = SW - type SC = SC - type</p> <p>see dwgs above</p>	<p>Plating</p> <p>99 = Tin</p> <p>Other platings on request</p>	<p>Option</p> <p>A = tube packing; with pick & place pad B = reel packing; with pick & place pad</p>
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Friction lock

<p>F - Type female plug (AWG 18 to 24)</p> <p>Order Code housing: PCF-1xx-F396 contact: PCF-999-F396-99</p>	<p>F - Type -THT- male</p> <p>Order Code straight: PCS-1xx-F396-99 right angle: PCR-1xx-F396-99</p>
---	---

Latch lock

<p>L - Type female plug (AWG 18 to 24)</p> <p>Order Code housing: PCF-106-L396 contact: PCF-999-L396-99</p>	<p>L - Type -THT- male</p> <p>Order Code straight: PCS-106-L396-99 with locating pin: PCS-106-L396-99/L</p>
---	---

Quick lock

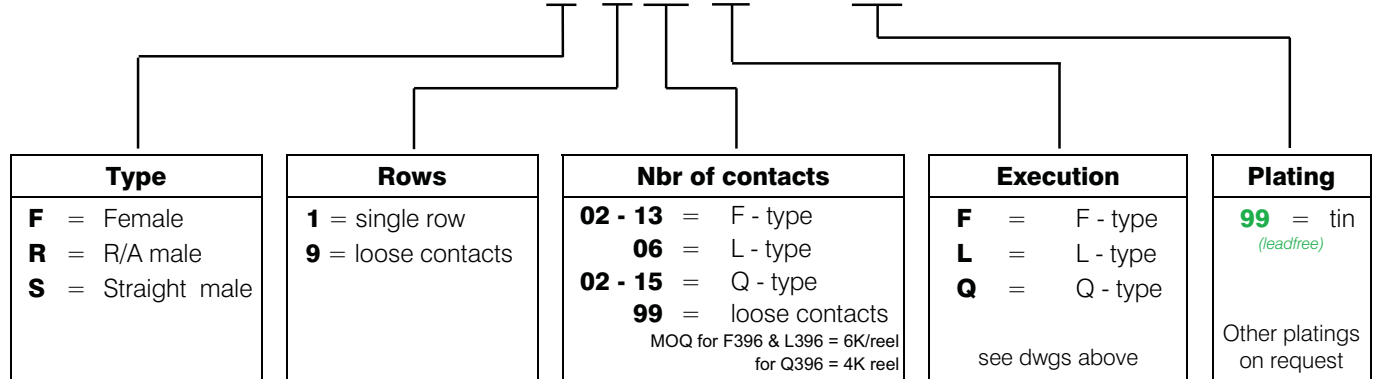
<p>Q - Type female plug (AWG 18 to 22)</p> <p>Order Code housing: PCF-1xx-Q396 contact: PCF-999-Q396-99</p>	<p>Q - Type -THT- male</p> <p>Order Code straight: PCS-1xx-Q396-99 right angle: PCR-1xx-Q396-99</p>
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SPECIFICATIONS

Current rating	5 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1500 V AC	Insulator material	Nylon UL 94 V-2
Voltage rating	250 V AC max.	Operating temp.	-25°C to +105°C		Nylon UL 94 V-0 (Q-Type)
				PCB thickness	1.60 mm (.063")

How to order

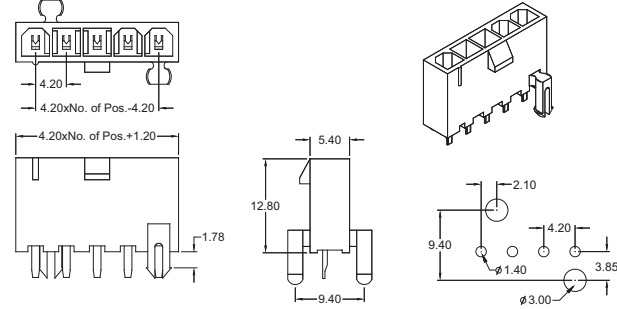
PC X - x xx - X 396 - 99



Male Type Fully Shrouded

P - Type

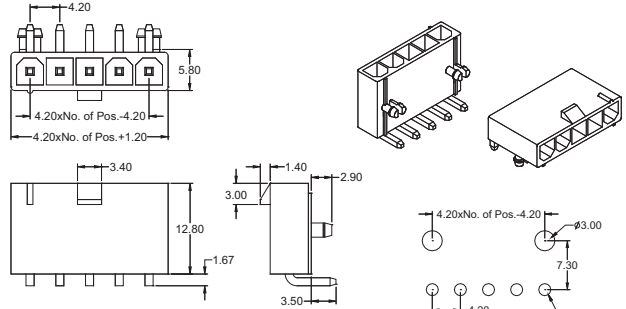
-THT- straight



Order Code: PCS-1xx-P420-99

P - Type

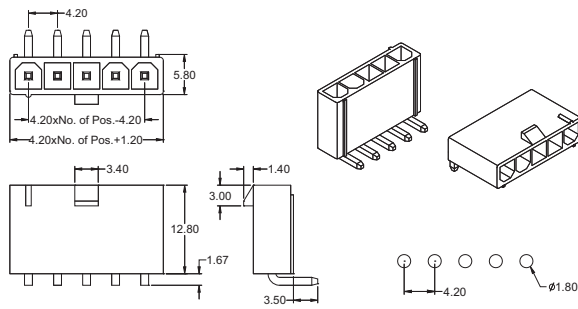
-THT- right angle (with board lock clips)



Order Code: PCR-1xx-P420-99

A - Type

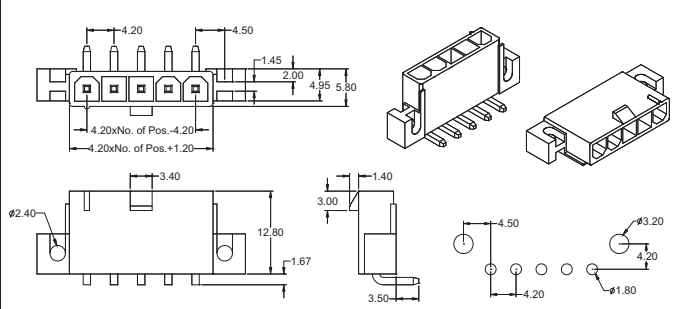
-THT- right angle



Order Code: PCR-1xx-A420-99

W - Type

-THT- right angle (with mounting ears)

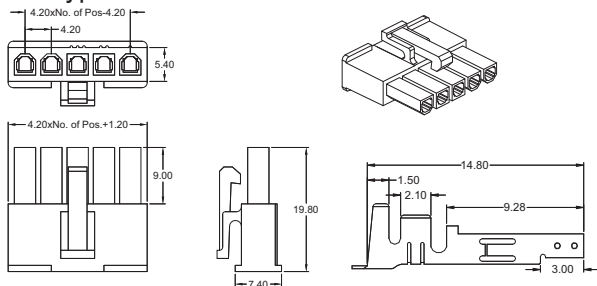


Order Code: PCR-1xx-W420-99

Female Type

P - Type

(AWG 16 to 24)



Order Code housing: PCF-1xx-P420

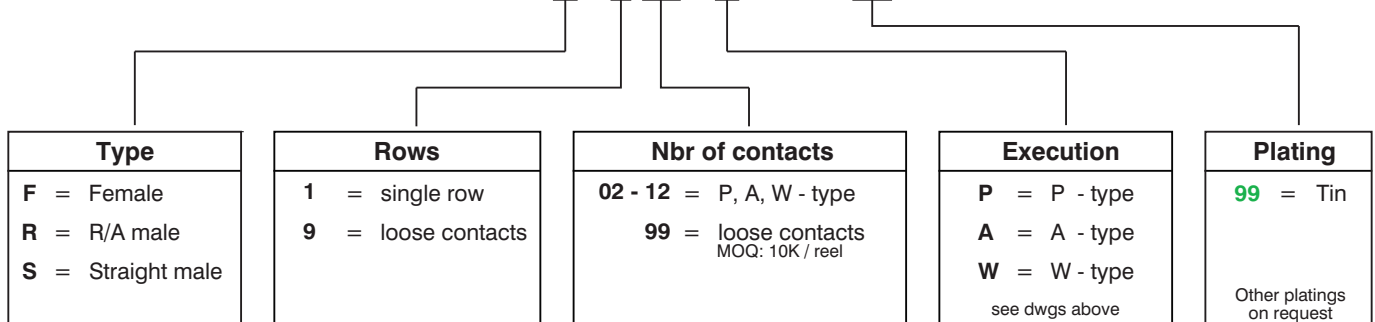
Contact: PCF-999-P420-99

SPECIFICATIONS

Current rating	7 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1500 V AC	Insulator material	Nylon UL 94 V-2
Voltage rating	600 V AC max.	Operating temp.	-25°C to +85°C	PCB Thickness	1.60 mm (.063")

How to order

PC X - x xx - X 420 - 99





Friction lock

F - Type female plug (AWG 18 to 24)

Order Code housing: **PCF-1xx-F508** contact: **PCF-999-F508-99**

F - Type -THT- male

Order Code straight: **PCS-1xx-F508-99** right angle: **PCR-1xx-F508-99**

4 Contact Female Types

P - Type polarized insulator (AWG 18 to 20)

Order Code housing: **PCF-104-P508** contact: **PCF-999-P508-99**

I - Type IDC - Connector (AWG 18 to 20)

Order Code: with standard Cover **PCF-104-I508-99** add /C if type "C" Cover

4 Contact Crimp "shrouded" Male Type

C - Type (AWG 18 to 22)

Order Code housing: **PCM-104-C508** contact: **PCM-999-C508-99**

SPECIFICATIONS

Current rating	7 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1500 V AC	Insulator material	Nylon UL 94 V-2
Voltage rating	250 V AC max.	Operating temp.	-25°C to +85°C	PCB Thickness	1.60 mm (.063")

How to order

PC X - x xx - X 508 - 99

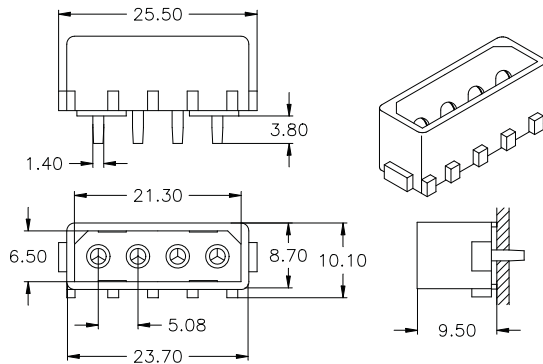
Type	Rows	Nbr of contacts	Execution	Plating
F = Female R = R/A male S = Straight male M = male contact & header	1 = single row 9 = if contact	02 - 12 = F - type 04 = P, I, C - types 99 = loose contacts MOQ: -F508- type = 6K / reel -P508- type = 7K / reel -C508- type = 7K / reel	F = F - type P = P - type I = I - type C = C - type see drawings above	99 = tin (leadfree) Other platings on request

5.08mm Power Connectors Disk Drive Power Connection System



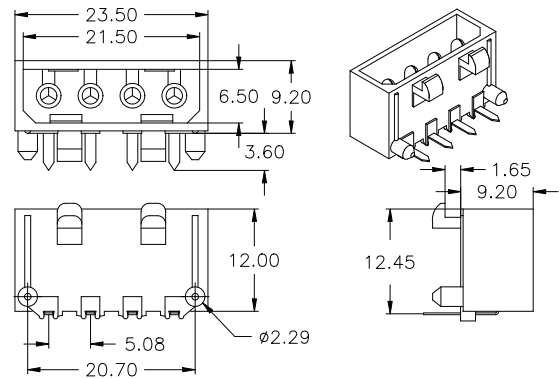
4 Contact Male - Through Board Solder Types

Straight "T" type

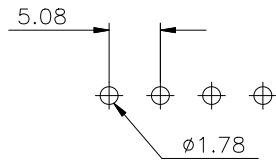


Order Code: **PCS-104-T508-99**

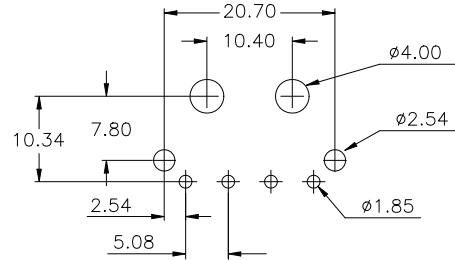
Right angle "T" type



Order Code: **PCR-104-T508-99**



PCB Hole Layout



PCB Hole Layout

SPECIFICATIONS

Current rating	7 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1500 V AC	Insulator material	Nylon UL 94 V-2
Voltage rating	250 V AC max.	Operating temp.	-25°C to +90°C	PCB Thickness	1.60 mm (.063")

How to order

PC X - 104 - T 508 - 99

Type

R = right angle type
S = straight type

Plating

99 = tin
(leadfree)

Quick Lock					
P - Type female <p>Order Code housing: PCF-1xx-P635/X</p>		PM - Type Clutch <p>Order Code housing: PCC-1xx-PM635/X</p>			
P - Type female contact (AWG 16 to 20) <p>Order Code contact: PCF-999-P635-99</p>		P - Type male contact (AWG 16 to 20) <p>Order Code contact: PCM-999-P635-99</p>			
Fully Shrouded					
P - Type -THT- male & female straight <p>Option Contact Type Order Code</p> <p>male PCS-1xx-PM635-99</p> <p>female PCS-1xx-PF635-99</p>			PW - Type -THT- male & female right angle (with mounting ears) <p>Option Contact Type Order Code</p> <p>male PCR-1xx-PWM635-99</p> <p>female PCR-1xx-PWF635-99</p>		
SPECIFICATIONS					
Current rating	13 A	Contact resistance	20 mΩ max.	Contact material	Copper alloy
Insulator resistance	1000 MΩ min.	Withstanding voltage	1000 V AC	Insulator material	Nylon
Voltage rating	600 V AC max.	Operating temp.	-55°C to +105°C	PCB Thickness	1.60mm (.063")

How to order

PC X - x xx - X 635 - 99 / X

Type	Rows	Nbr of contacts	Execution	Plating	Option
C = Clutch F = Female M = Male S = Straight R = Right angle	1 = single row 9 = loose contacts	02 - 10 = P, PM, PF, PWM PWF - type 99 = loose contacts MOQ: 10K / reel	P = P-type PM = P-type male PF = P-type female PWM = PW-type male PWF = PW-type female see dwgs above	99 = tin (leadfree) Other platings on request	N = nature colour (UL 94 V-2) W = white colour (UL 94 V-0)

Other products from E-tec

Please contact your closest sales office for further information.



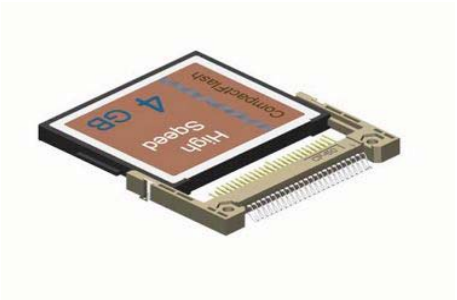
Insertion-Extraction Tools



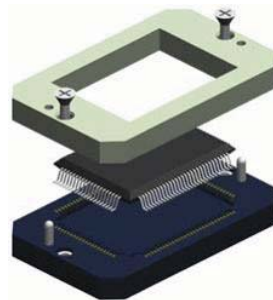
DIMM Sockets



DIP Switch



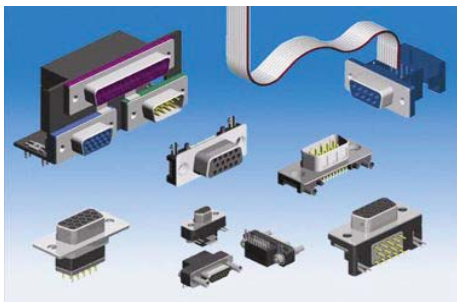
Compact Flash Connector



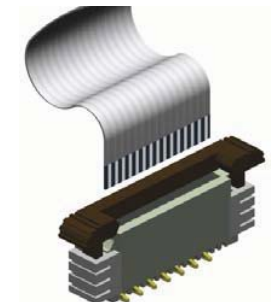
Gullwing Chip Sockets



USB & IEEE 1394 Connectors



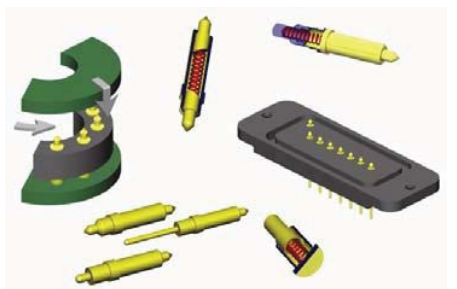
D-Sub Connectors



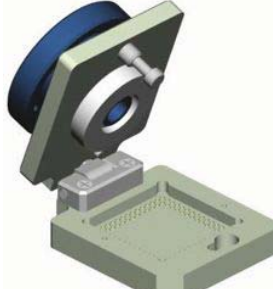
Flex Cable Connectors



HDMI Connectors



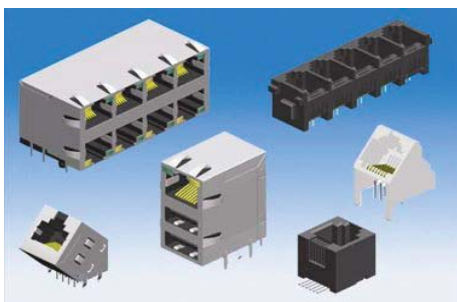
Probe Pin & Probe Pin Connectors



Ball / Land Grid Array Sockets



Multi Media Card Connectors



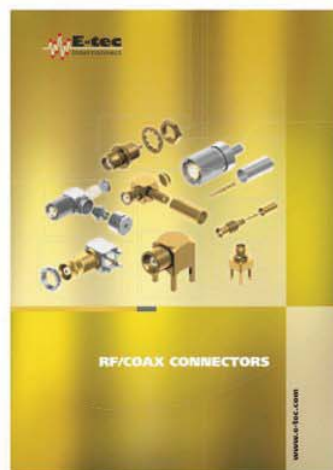
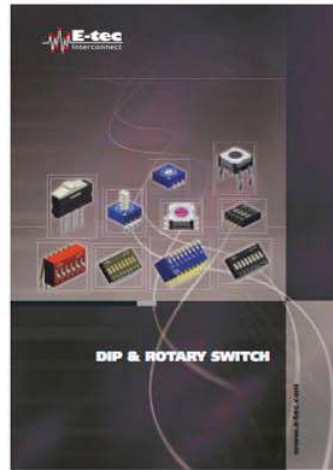
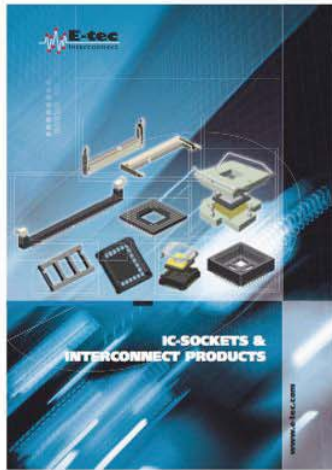
Modular Plugs & Jacks



Phono - & DC - Power Connectors



RF - Connectors



International Sales Headquarters

Switzerland E-tec Interconnect Ltd.
 Schweiz Zone Industrielle C
 Suisse CH-1072 Forel (Lavaux)
 Phone: +41/21/78108 10
 Fax: +41/21/78108 11
 e-mail: info@e-tec.com
 www.e-tec.com

Related Sales Headquarters

Deutschland EMC electro mechanical components
 Germany Vertriebs GmbH
 Allemagne PF. 1160
 D-65501 Idstein
 Phone: +49/6126/9395-0
 Fax: +49/6126/9395-72
 e-mail: info@emc-connectors.com
 www.emc-connectors.com

France Silfox SA
 Frankreich PA des Petits Carreaux
 2 bis avenue des Coquelicots
 F-94385 BONNEUIL
 SUR MARNE CEDEX
 Phone: +33/1/49560468
 Fax: +33/1/49560287
 e-mail: info@silfox.fr
 www.silfox.fr

England E-tec Interconnect (UK) Ltd.
 Angleterre Units A5 & A6 Decimus Park
 Kingstanding Way
 Tunbridge Wells
 Kent TN2 3GP
 Phone: +44/1892/530260
 Fax: +44/1892/515560
 e-mail: info@e-tec.co.uk
 www.e-tec.co.uk

Factories

Switzerland HAPP AG / E-tec AG
 Schweiz Friedhofstrasse 1
 Suisse CH-2543 Lengnau b. Biel
 Phone: +41/32/6541550
 Fax: +41/32/6522693
 e-mail: info-ch@e-tec.com
 www.e-tec.com

Taiwan HAPP & E-tec Taiwan Ltd.
 10-2F, No. 379, Zhong Shan Road
 San Chong City, Taipei Hsien
 TAIWAN
 Phone: +886/2/2999-2726
 Fax: +886/2/2999-5255
 e-mail: info@happetec.com.tw
 www.happetec.com.tw

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