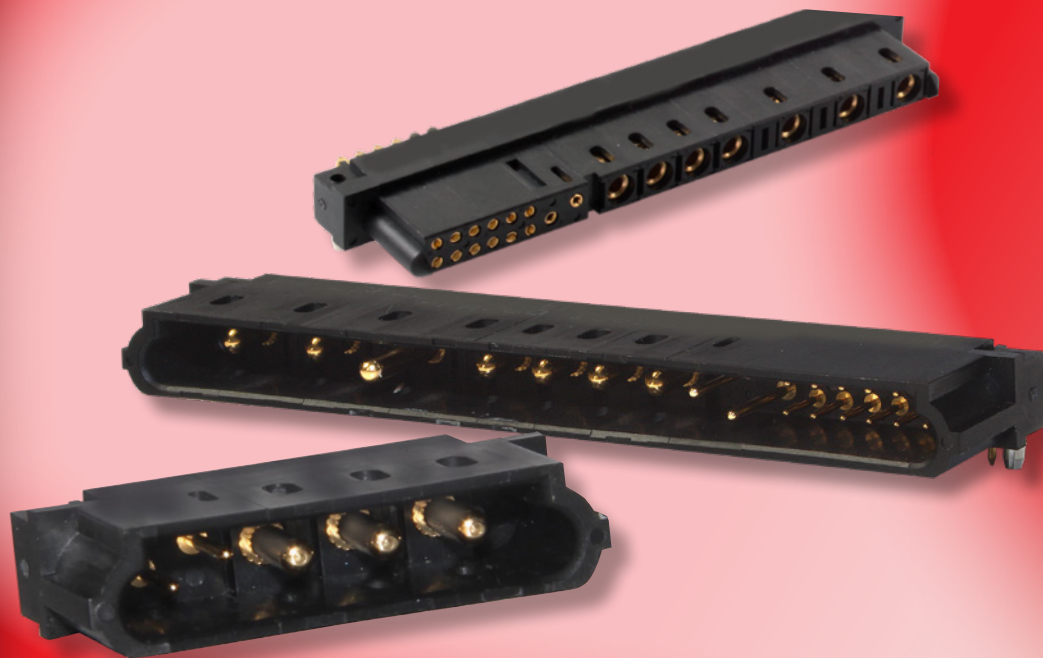


LOW PROFILE SCORPION

Slim Modular Power & Signal Contact Connectors



- Four power contact options: 55 amps, 38 amps, 12 amps and 3 amps versions plus high density signal lines.
- Blind mating, float mount, panel mount and cable connector options with unique locking system.
- Ventilation option to offer increased air cooling.



Positronic®
an Amphenol company

Catalog A-014 Rev-NC



Materials and Finishes:

Insulators:	Glass-filled polyester, UL 94V-0. Black color (Blue optional).
Contacts:	Precision machined copper alloy with gold flash over nickel plate. Other finishes available upon request.
Mounting Brackets:	Brass with tin plate.
Push-on Fasteners:	Copper alloy with tin plate.
Float Mount Bushings:	Steel with zinc plate.

Electrical Characteristics:

Contact Current Rating (See Page 5 for Power Contact Details)

Standard Conductivity Contacts:

Size 12 Contacts:	38 amperes, continuous.
Size 20 Contacts:	12 amperes, continuous.
Size 22 Contacts:	3 amperes, nominal.

High Conductivity Contacts:

Size 12 Contacts:	55 amperes, continuous.
--------------------------	-------------------------

Initial Contact Resistance (Standard Conductivity Contacts) per IEC 512-2, Test 2b:

Size 12 Contacts:	0.001 ohms, maximum.
Size 20 Contacts:	0.005 ohms, maximum.
Size 22 Contacts:	0.005 ohms, maximum.

Initial Contact Resistance (High Conductivity Contacts) per IEC 512-2, Test 2b:

Size 12 Contacts:	0.0007 ohms, maximum.
--------------------------	-----------------------

Insulation Resistance per IEC 512-2, Test 3a, Method A: 5 G ohms.

Voltage Proof per IEC 512-2, Test 4a, Method C:

Size 12 and size 20 contacts, 2200 V r.m.s.
Size 22 contacts, 1800 V r.m.s.

Working Voltage, Clearance and Creepage Distances:

Consult sales for information about your specific connector choice.

Hot Pluggable [50 Couplings per UL 1977, paragraph 15]:

Size 12 Contacts:	Contact sales for availability.
--------------------------	---------------------------------

Climatic Characteristic:

Working Temperature: -55°C to +125°C.

Mechanical Characteristics:

Blind Mating System: Integral guide feature allows for misalignment up to 2.00 mm [0.079 inch].

Locking Latch System: Design of connector body provides locking system for cable to cable, cable to printed board and cable to panel mount applications.

Polarization: Design of connector body provides polarization features.

Removable Crimp Contacts: Size 12, 20 and 22 female contacts feature closed entry design for highest reliability. Install contacts from rear of insulator. To remove contacts, release from front of insulator with extraction tool and remove from rear of insulator.

Removable Contact Retention in Connector Body per IEC 512-8, Test 15a:

Size 12 Contacts: 67N [15 lbs.] minimum.

Size 20 and

Size 22 Contacts: 27N [6 lbs.] minimum.

Non Removable

Crimp Contacts (Size 22 only): Size 22 female contacts feature closed entry design for highest reliability. Insert contact from rear of insulator.

Non Removable Crimp Contact Retention in Connector Body per IEC 512-8, Test 15a:

Size 22 Contacts: 27N [6 lbs.] minimum.

Fixed Contacts: Printed board terminations, both straight and right angle. Size 12 female contacts feature closed entry design for highest reliability. Size 20 and 22 female contact has open entry design.

Fixed Contact Retention in Connector Body per IEC 512-8, Test 15a:

Size 12 Contacts: 45N [10 lbs.] minimum.

Size 20 Contacts: 45N [10 lbs.] minimum.

Size 22 Contacts: 27N [6 lbs.] minimum.

Sequential Contact Mating System:

Size 12 Contacts: Two levels.

Size 20 Contacts: One level.
(Two levels for Printed Board mount connectors.)

Size 22 Contacts: One level.
(Two levels for Printed Board mount connectors.)

Printed Board and Panel Mounting Holes:

Mounting holes provided in connector body for both printed board and panel mounting. Self-tapping screws or push-on fastener options are available.

Mechanical Operations

per IEC 512-5: 1000 cycles minimum.

Recognized:

UL and TÜV: Consult sales.

All dimensional tolerances are ± 0.38 [0.015], unless otherwise specified. Dimensions are in millimeter [inches]. All dimensions are subject to change. Product pictures may not be identical in appearance to actual production parts.

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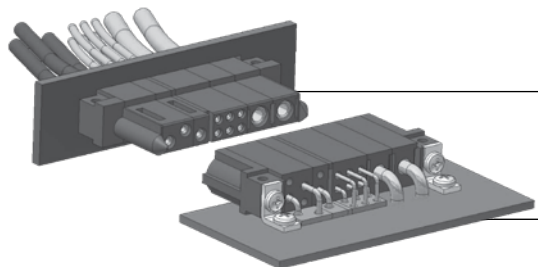
The following trademarks are owned by Positronic Industries, Inc.: Positronic Industries, Inc.®, Positronic®, Connector Excellence®, P+ logo®, PosiBand®, PosiShop® and Optik-D™. The color blue as it appears on various connectors is a trademark of Positronic Industries, Inc., Registered in U.S. Patent and Trademark Office.

Products described within this catalog may be protected by one or more of the following US patents:

#4,900,261 #5,255,580 #5,329,697
#7,115,002 #8,944,697 #9,304,263

*Patented in Canada, 1992 Other patents pending





Board to Panel with Blind Mating System

Female Panel Mount Connector

Typical part number:

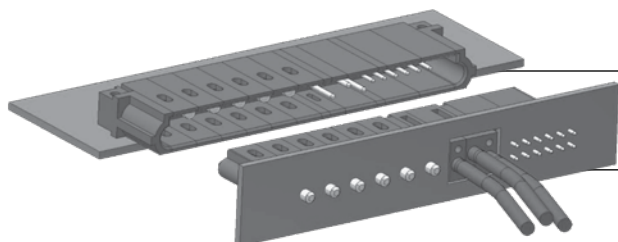
LSP2YKNRS1F0001

(Contacts ordered separately)

Male Right Angle PCB Mount Connector

Typical part number:

LSP2YKNRS4M0B0A1



Board to Board with Crimp Contacts Pass-through

Male Right Angle (90°) PCB Connector

Typical part number:

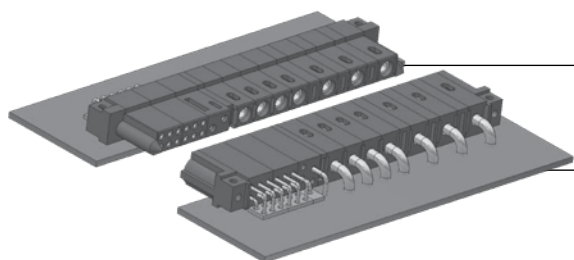
LSP2YGN2UN2T4M009A1

Female Straight PCB Connector

Typical part number:

LSP2YGN2UN2T3F009A1-PAxxx

(Crimp contacts ordered separately)



Board to Board with Blind Mating System

Female Right Angle(90°) PCB Connector

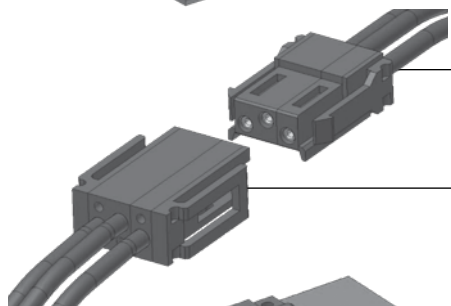
Typical part number:

LSP2EN3EN3EN3GN2ST4F009A1

Male Right Angle(90°) PCB Connector

Typical part number:

LSP2EN3EN3EN3GN2ST4M009A1



Cable to Cable with Locking Latch System

Female Cable Connector

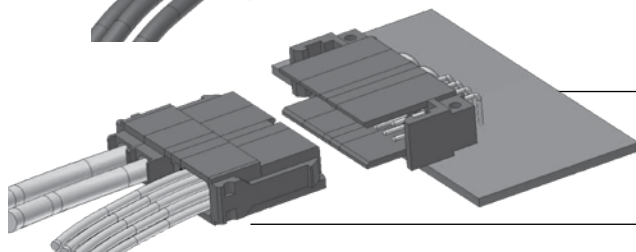
Typical part number: LSP3U1F0001

(Contacts ordered separately)

Male Cable Connector

Typical part number: LSP3U1M0001

(Contacts ordered separately)



Cable to Board with Locking Latch System

Male Right Angle PCB Mount Connector

Typical part number: LSP5YN2HK4M000A1

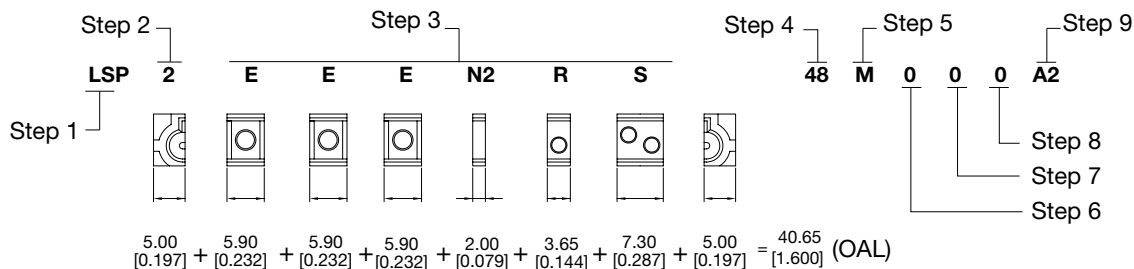
Female Cable Connector

Typical part number: LSP5YN2HK1F0001

(Contacts ordered separately)

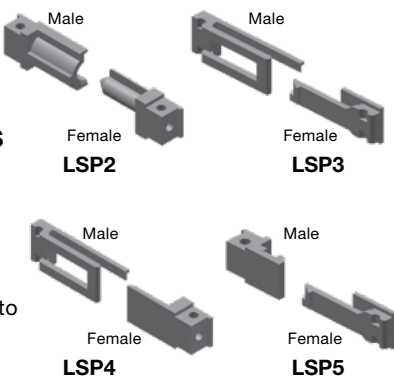
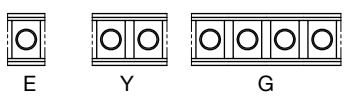
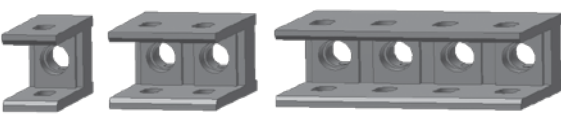
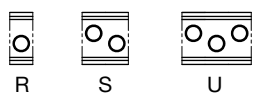
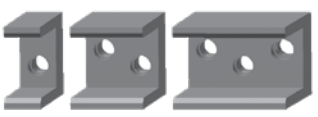
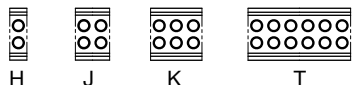
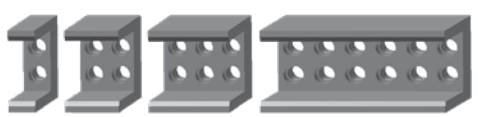


How to calculate Over All Length (OAL) of a Low Profile Scorpion connector:

Overall Length (OAL) of a connector is the sum of all the modules length. Refer to example below for OAL calculation. See page 5 and 7 for individual module dimensions.



Ordering Information - Code Numbering System

Specify complete connector by selecting an option from step 1 through 9
(Consult sales for connectors' length exceeding 101mm or part numbers using more than 30 characters)

STEP	1	2	3	4	5
Example	LSP	2	YKNRS	4	M
STEP 1: BASIC SERIES LSP : Low Profile Scorpion Series.					
STEP 2: GUIDE AND LOCKING OPTIONS 2 : Blind Mating System. 3 : Locking Latch System, for cable to cable connectors only. 4 : Locking Latch System, for male cable to female panel/board connectors only. 5 : Locking Latch System, for female cable to male panel/board connectors only.		STEP 3: CONNECTOR VARIANTS Size 12 power contact module, E or Y or G   Size 20 power contact module, R or S or U   Size 22 signal contact module, H or J or K or T   Blank module, N or N2 or N3 or N4   Consult sales for availability of other modules. It is recommended signal contacts are positioned at the center of connector.			
STEP 4: CONTACT TERMINATION TYPE 1 : Crimp contacts, order separately. 3 : Solder, straight PCB mount. 38 : Solder, straight PCB mount. High conductivity power contacts. 4 : Solder, right angle (90°) PCB mount. 48 : Solder, right angle (90°) PCB mount. High conductivity power contacts. *93 : Press-fit compliant terminations, straight PCB mount, for use with PCB not thinner than 2.29[0.090]. *938 : Press-fit compliant terminations, straight PCB mount, for use with PCB not thinner than 2.29[0.090]. High conductivity power contacts. * Consult sales for availability of press-fit compliant terminations or mixed contact termination type.					
STEP 5: CONNECTOR GENDER M : Male F : Female - Standard contacts. S : Female - Posiband contacts					



Notes:

- 1 A Low Profile Scorpion part number can be a maximum of 30 characters. If the connector configuration exceeds this number, please consult sales for a special part number for your unique requirement.
- 2 Consult sales for connector length exceeding 101.00 mm [3.976 inch].
- 3 Alignment bar is only available for size 20 and size 22 right angle (90°) contacts.

6	7	8	9	10		11
0	N	9	A1	/AA	-	XXX

STEP 11: SPECIAL OPTIONS
Consult sales for Special Options

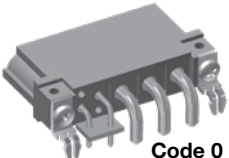
STEP 10: ENVIRONMENTAL COMPLIANCE OPTIONS
/AA : Compliant per EU Directive 2002/95/EC (RoHS)
Example: LSP5YN2HK4M000A1/AA
Note: This step will not be used if compliance to environmental legislation is not required.
Example: LSP5YN2HK4M000A1

STEP 9: CONTACT PLATING
1 : Crimp contacts ordered separately.
A1 : Gold flash over nickel on mating end termination end.
A2 : Gold flash over nickel on mating end and 0.005[0.0002] tin-lead solder coat on termination end. Not available with code 93, 938 in step 4.
C1 : 0.00076[0.000030] gold over nickel on mating end and termination end.
C2 : 0.00076[0.000030] gold over nickel on mating end and 0.005[0.0002] tin-lead solder coat on termination end. Not available with code 93, 938 in step 4.
D1 : 0.00127[0.000050] gold over nickel on mating end and termination end.
D2 : 0.00127[0.000050] gold over nickel on mating end and 0.005[0.0002] tin-lead solder coat on termination end. Not available with code 93, 938 in step 4.
Consult sales for availability of silver plating.

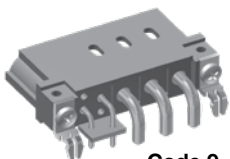
STEP 8: VENT OPTIONS (For power contacts)
0 : Connector body is not vented.
9 : Connector body vented for air cooling.

STEP 7: MOUNTING STYLE
0 : Not applicable / No additional accessories.
B : 90° metal mounting bracket (through hole), for right angle PCB mounted connectors use code 4 or 48, see step 4.
LN : 90° metal mounting bracket (board lock), for right angle PCB mounted connectors use code 4 or 48, see step 4.
N : Push-on fastener for PCB mounted connectors use code 3, 38, 4 or 48, see step 4.

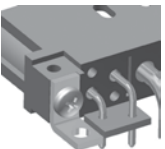
STEP 6: PANEL MOUNT
0 : Not applicable / No added accessories.
6 : Easy release mounting clip for 1.50 mm [0.059 inch] thick panel, for male panel mount connector only.
82 : Float mount for 1.50 mm [0.059 inch] thick panel.
83 : Float mount for 2.30 mm [0.091 inch] thick panel.



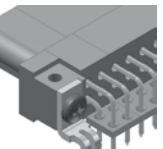
Code 0




Code 9




Code B




Code LN



Code N



Code 6



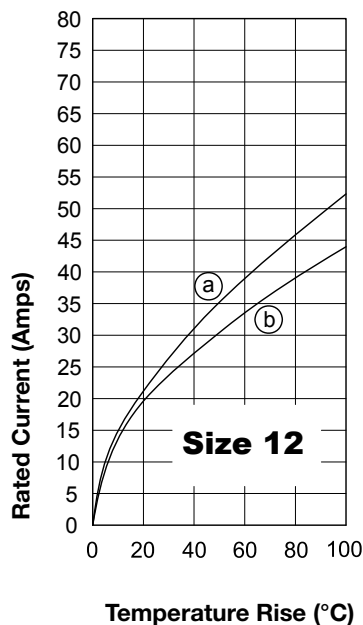
Code 82 or 83



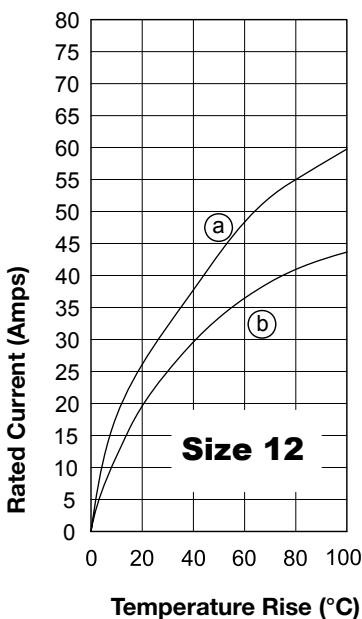


Temperature Rise Curves

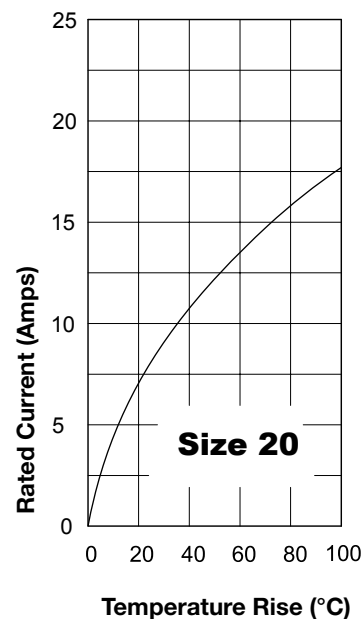
Tested per IEC Publication 512-3, Test 5a



- (a) Developed with 3 size 12 high conductivity contact seated in code EEE module.
- (b) Developed with 3 size 12 standard conductivity contact seated in code EEE module.



- (a) Developed with 7 size 12 high conductivity contacts seated in code EN3EN3EN3EEEE module.
- (b) Developed with 7 size 12 standard conductivity contacts seated in code EN3EN3EN3EEEE module.



- (a) Developed with 2 size 20 standard conductivity contacts seated in code S module.

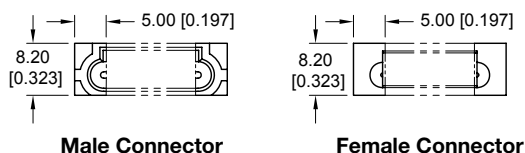
Contact sales if additional testings and current ratings are required.

Guide Systems and Locking Options

See Step 2 of Ordering Information

Blind Mating Guide System

Specify Code 2 in Step 2



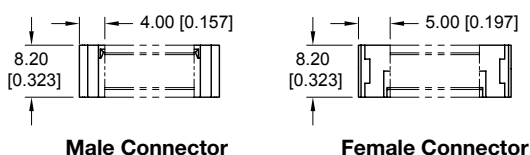
Cable to Cable Locking Latch System

Specify Code 3 in Step 2



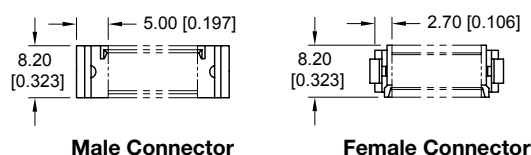
Male Cable to Female Panel/Board Locking Latch System

Specify Code 4 in Step 2



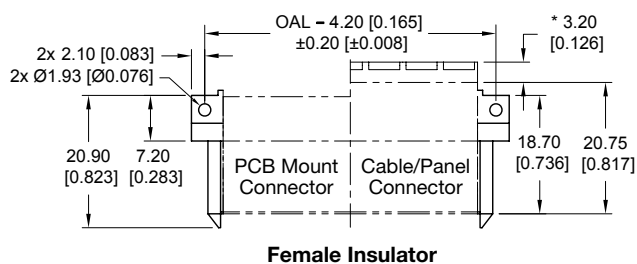
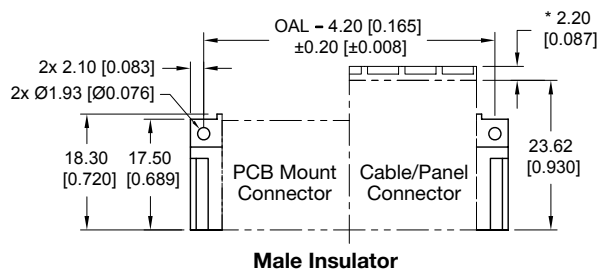
Female Cable to Male Panel/Board Locking Latch System

Specify Code 5 in Step 2



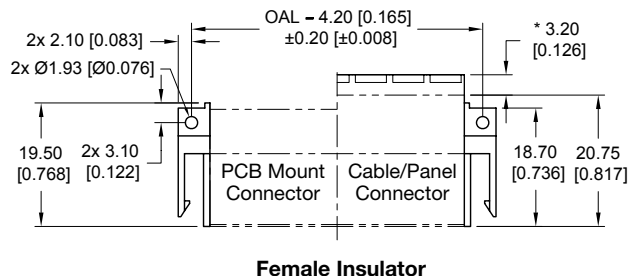
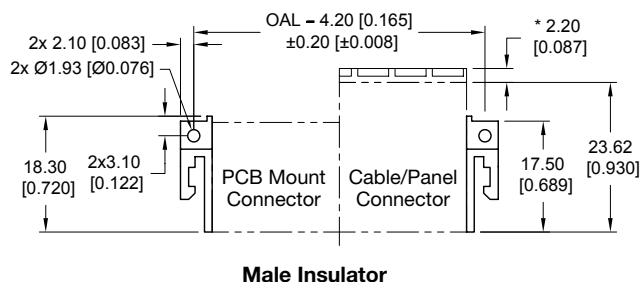
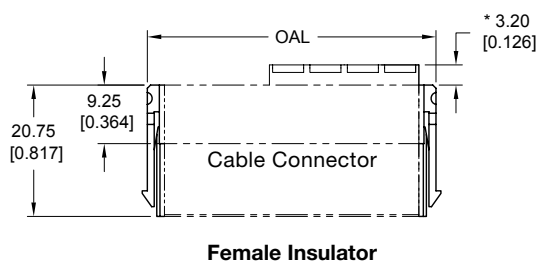
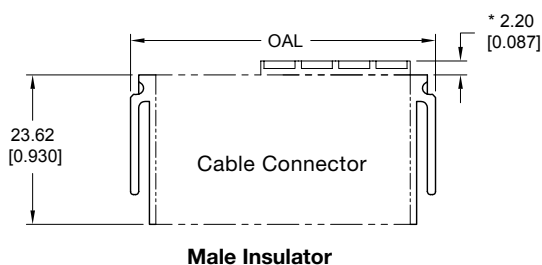


Insulator Dimensions when using Blind Mating System



* Dimension applicable for Size 12 power contact module only.

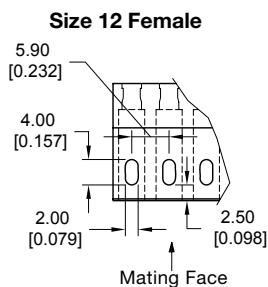
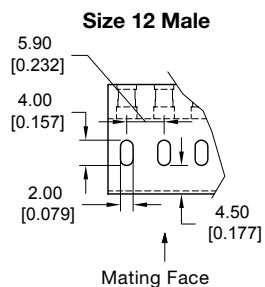
Insulator Dimensions when using Locking Latch System



* Dimension applicable for Size 12 power contact module only.

Venting Features

Specify Code 9 in Step 8 of Ordering Information



Venting feature is an outlet hole enabling air cooling onto a power contact.

In compliance with UL 1977 safety standard, section 10.2 Accessibility of live parts.



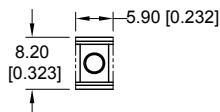


Module Options

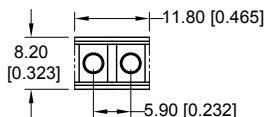
See Step 3 of Ordering information

Size 12 Power Contact Modules

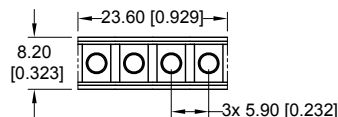
Module E



Module Y

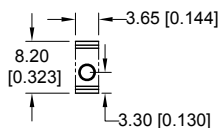


Module G

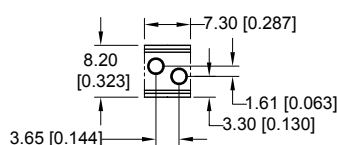


Size 20 Power / Signal Contact Modules

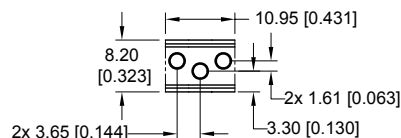
Module R



Module S

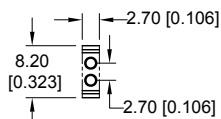


Module U

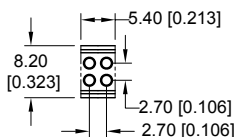


Size 22 Signal Contact Modules

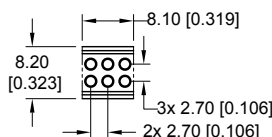
Module H



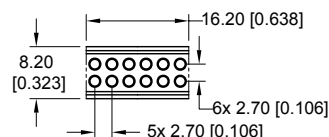
Module J



Module K

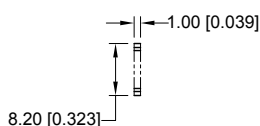


Module T

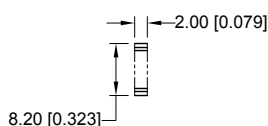


Blank Modules

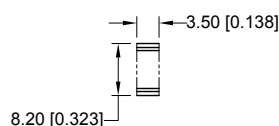
Module N



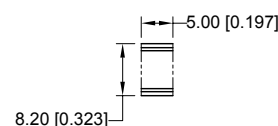
Module N2



Module N3



Module N4



All modules shown above are male modules.

Available in female straight and right angle (90°) PCB mount. Consult sales for availability of other modules.

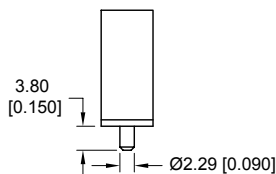
Contact Termination Dimensions

See Step 4 of Ordering information

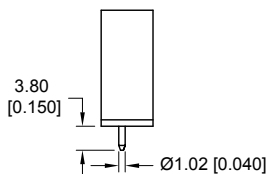
Straight PCB Mount Connectors

Specify Code 3 or 38 in Step 4

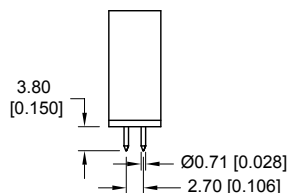
Size 12 contacts



Size 20 contacts



Size 22 contacts

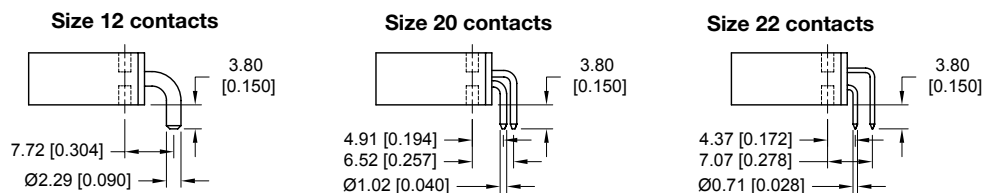


Code 3 is standard conductive material contact and code 38 is high conductivity material power contact.



Right Angle (90°) PCB Mount Connectors

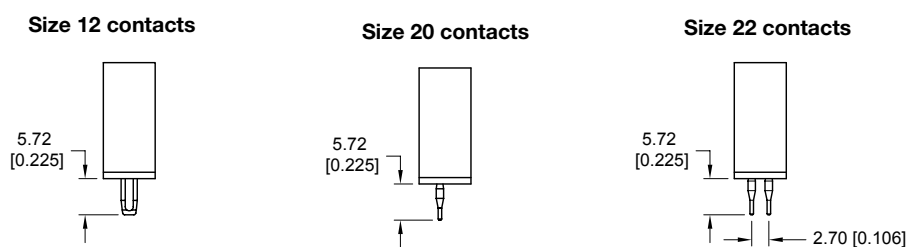
Specify Code 4 or 48 in Step 4



Code 4 is standard conductive material contact and code 48 is high conductivity material power contact.

Press-Fit Straight PCB Mount Connectors

Specify Code 93 or 938 in Step 4



Code 93 is standard conductive material contact and code 938 is high conductivity material power contact.

Male connector shown for reference. Dimensions also apply to female connector.

Note: Outline dimensions for Press-Fit Connectors are the same as those of Straight PCB Mount Versions. For Suggested Straight Mount PCB Holes Sizes of Compliant Press-Fit Connectors, please refer to SK6370 or consult sales for more informations.

Press-Fit User Information

Connectors-to-PCB installation instructions:

1. Insert the connector into the PCB or backplane and seat connector fully with seating/ support tool.
2. Secure the connector to the PCB or backplane using two self-tapping screws for plastic.
3. Consult factory for appropriate installation tools.

Mounting Screw

Material Options	Part Number	Thread Length	P.C.B Thickness
Steel	4546-7-1-16	6.35±0.76 [0.250±0.030]	2.36 [0.093]
Steel	4546-7-2-16	7.93±0.76 [0.312±0.030]	3.18 [0.125]
Steel	4546-7-3-16	9.53±0.76 [0.375±0.030]	4.45 [0.175]
Stainless Steel	4546-7-6-4	6.35±0.76 [0.250±0.030]	2.36 [0.093]
Stainless Steel	4546-7-7-4	7.93±0.76 [0.312±0.030]	3.18 [0.125]
Stainless Steel	4546-7-8-4	9.53±0.76 [0.375±0.030]	4.45 [0.175]



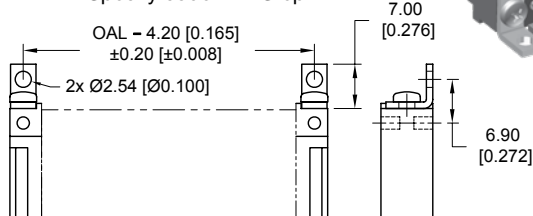


Accessories for PCB Mount

See Step 7 of Ordering Information

90° Through Hole Brackets

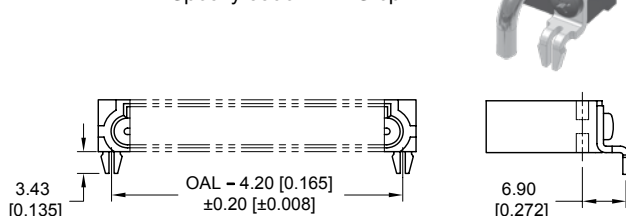
Specify code B in Step 7



Material and Finish: Brass with tin plate.

90° Boardlock Brackets

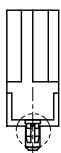
Specify code LN in Step 7



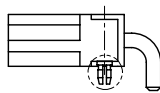
Material and Finish: Brass with tin plate.

Push-on Fasteners

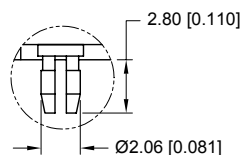
Specify code N in Step 7



Straight PCB Mount Connector



Right Angle (90°) PCB Mount Connector



Material and Finish:
Copper alloy with tin plate.

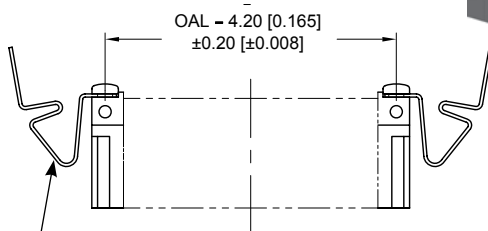
Male connector shown for reference only. Consult sales for mounting screw information.

Accessories for Panel Mount

See Step 6 of Ordering Information

Easy Release Mounting Clips

Specify code 6 in Step 6

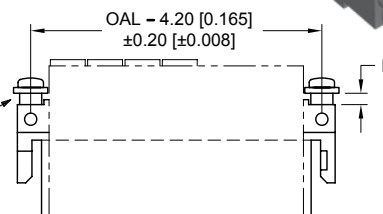


Material and Finish:
Beryllium copper with nickel plate.
For male connector only.

Float Mount Bushings

Specify Code 82 or 83 in Step 6

Material and Finish:
Steel with zinc plate.

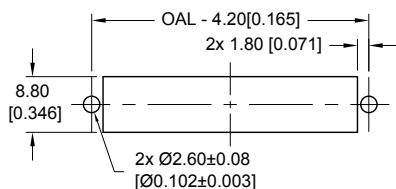


Code	Panel Thickness	Dimension F
82	1.50 [0.059]	1.80 [0.071]
83	2.30 [0.091]	2.60 [0.102]

Panel Cutout Dimensions

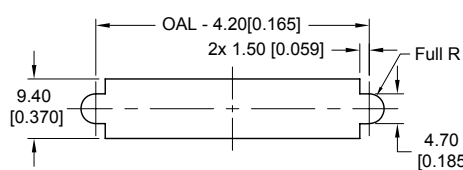
For Mounting Screws

Specify code 0 in Step 6



For Float Mounting

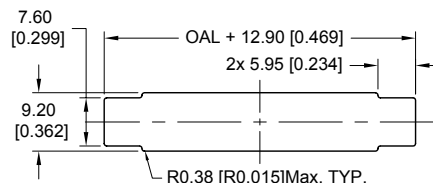
Specify code 82 or 83 in Step 6



For Quick Release Mounting Clip

Specify code 6 in Step 6

(Maximum panel thickness: 1.60 [0.063] nominal)



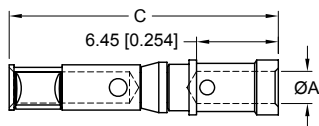
General tolerance for panel cutout dimensions is ± 0.13 [± 0.005].

To calculate OAL of connector. See example at bottom of page 4 **Typical LSP Modular Connectors**

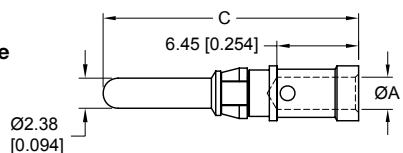


Size 12 Removable Crimp Contacts

Female



Male

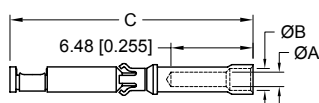


Part Number (Standard Conductivity Contacts)	Part Number (High Conductivity Contacts)	Wire Size AWG [mm²]	ØA	Sequential Mate	C
Female Contacts					
FC1210P2	FC1210P2S	10 [6.0]	3.10 [0.122]	N/A	21.25 [0.837]
FC1212P2	FC1212P2S	12 [4.0]	2.54 [0.100]		
Male Contacts					
MC1210N-PA563	MC1210NS-PA563	10 [6.0]	3.10 [0.122]	First	23.18 [0.912]
MC1210N	MC1210NS			Standard	20.18 [0.794]
MC1212N-PA563	MC1212NS-PA563	12 [4.0]	2.54 [0.100]	First	23.18 [0.912]
MC1212N	MC1212NS			Standard	20.18 [0.794]

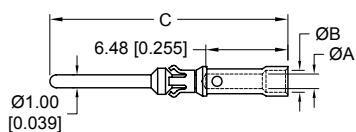
N/A - Not Applicable

Size 20 Removable Crimp Contacts

Female



Male

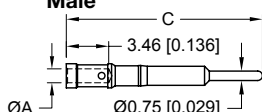


Part Number (Standard Conductivity Contacts)	Wire Size AWG [mm²]	ØA	ØB	Sequential Mate	C
Female Contacts					
FC718P3	18 [1.0]	1.40 [0.055]	N/A	N/A	19.19 [0.756]
FC720P3	20-22-24 [0.5-0.3-0.25]	1.14 [0.045]	1.73 [0.068]		
Male Contacts					
MC718N	18 [1.0]	1.40 [0.055]	N/A	Standard	18.80 [0.740]
MC720N	20-22-24 [0.5-0.3-0.25]	1.14 [0.045]	1.73 [0.068]		

N/A - Not Applicable

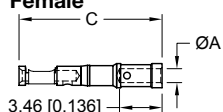
Size 22 Non Removable Crimp Contacts

Male



MC422T-PA908

Female

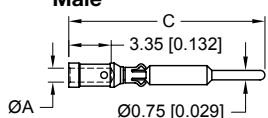


FC422T-PA908

Removable Contact	Non Removable Contact	Wire Size AWG [mm ²]	ØA	C
Female Contacts				
FC422P9	FC422T-PA908	22 - 26 [0.30] - [0.12]	0.89 [0.035]	11.41 [0.449]
Male Contacts				
MC422N9	MC422T-PA908	22 - 26 [0.30] - [0.12]	0.89 [0.035]	15.49 [0.610]

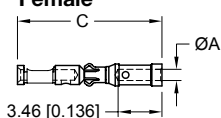
Size 22 Removable Crimp Contacts

Male



MC422N9

Female



FC422P9

Materials and Finishes:

Precision machined copper alloy with gold flash over nickel.

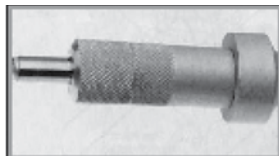
Consult sales for other contact sizes, materials, finishes, termination styles and more details.





Recommended Tools for Crimp Contacts

Contact Extraction Tool



Contact Insertion Tool



Cycle-Controlled Step
Adjustable Hand Crimp Tool



Contact Size	Contact Extraction Tool	Contact Insertion Tool	Hand Crimp Tool
Size 12	2711-0-0	9099-3-0	9509-6-1 with 9509-6-2 positioner (*C1210** contacts) 9501-0 with 9502-38-0 positioner (MC1212** contacts) 9501-0 with 9502-37-0 positioner (FC1212** contacts)
Size 20	9081-2-0	9099-4-0	9507-0 with 9502-21 positioner (male contacts) 9507-0 with 9502-22 positioner (female contacts)
Size 22	^ 9081-3-0	9099-7-0	9507-0 with 9502-12-0 positioner (male contacts) 9507-0 with 9502-13-0 positioner (female contacts)

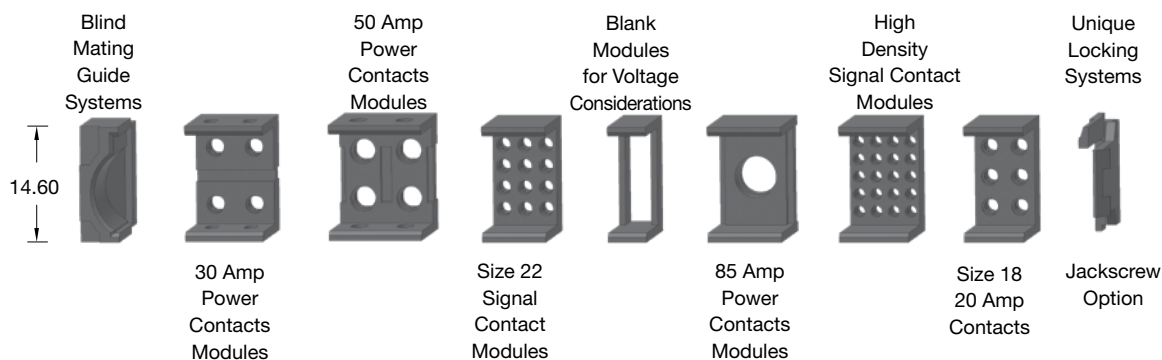
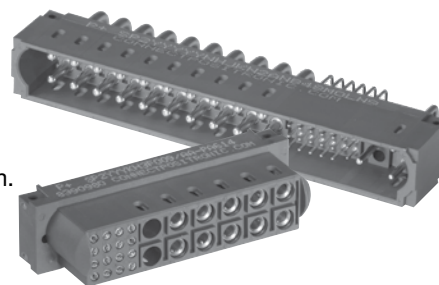
^ Not Applicable for Size 22 non-removable crimp contacts.
Consult sales for additional crimping tools and crimping information.

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