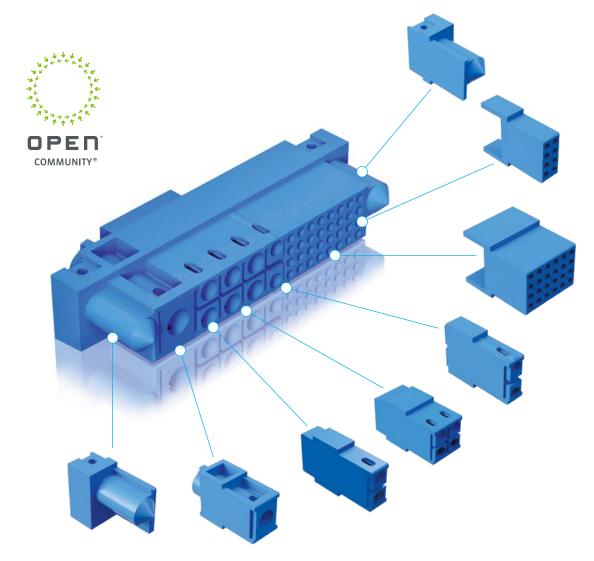
SCORPION



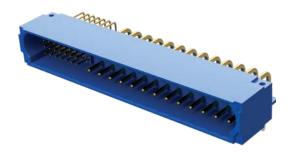
MODULAR POWER, SIGNAL CONNECTORS _____

- The most versatile modular power/signal connector on the planet
- Rated up to 100 amperes per contact plus ability to add signal contacts and a variety of accessories
- Venting options for improved air cooling
- Blank modules for greater creepage and clearance for higher voltage needs
- Unique locking systems for blind mating, float mount and cable connector options





Scorpion General Information





Scorpion brings a unique approach to modular connector design that is only available from Positronic. **Scorpion** provides the flexibility to configure the connector to meet your specifications. The difference is how Positronic builds the final connector, using our innovative tooling and injection molding process. The result is a **Scorpion** with solid body and machined contacts, ready to perform.

Trust the **Scorpion** to deliver **The Science of Certainty**

TECH SPECS

GENERAL	
Part Number Prefix	SP
Performance Level	Industrial Mil/aero
Qualifications	UL #E49351*1
	*1 Partial UL certification only. Contact Technical Sales for specific connector qualifications and for UL status of Hyperboloid contacts.

MATERIAL	
Insulator Material	Polyester
Insulator Color	Blue
Flammability Rating	UL94 V-0
Contact Material	Copper alloy
Contact Plating	Gold flash 0.76µm Au (min) 1.27µm Au (min)

ELECTRICAL		
Working Voltage (rms)	100 V to 100	0 V
Initial Contact Resistance	Power Signal	0.2 m Ω^{*1} 5 m Ω
Contact Current Rating*2	Power Signal	Up to 100A*1 3A*3
	*2 See page 9-10 fo	d using high conductivity alloy or temperature rise curves tacts 0.60 [0.0236] rated

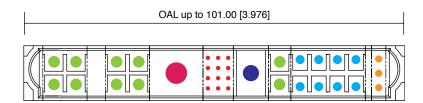
MECHANICAL	
Contact Style	Fixed Removable
Female Contact Design	Open entry Closed entry
Mating Cycles*1	Up to 1000
	*1 Hyperboloid contacts up to 100,000

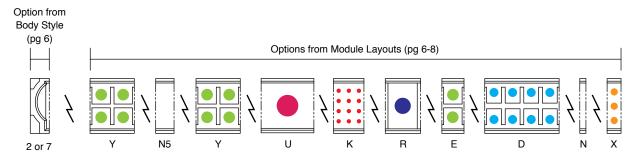
ENVIRONMENTAL	
Operating Temperature	-55 to 125°C

OVERALL LENGTH (OAL)

HOW TO CALCULATE OAL

Overall Length (OAL) of a connector is the sum of all the modules' length. Refer to example below for OAL maximum calculation. See page 6-8 for individual module dimensions.





- Option will be provided according to 1st Body Style chosen
- 7
- A Scorpion part number can be a maximum of 30 characters. If the connector configuration exceeds this number, please contact Technical Sales for a special part number for your unique requirement.
- Pinout sequence may not be continuous. Contact Technical Sales for more information.
- Contact Technical Sales for connector length exceeding 101.00 [3.976].
- For connectors offering both fixed solder and crimp contacts, contact Technical Sales.
- Alignment bar is only available for size 16, size 18, size 22, and hyperboloid Ø0.60 [0.0236] right angle contacts.
- PosiBand contacts available for size 12, 16, 18 and 22.
- If there are more than 36 signal pins in one connector, customer will need to take note of the tolerances and alignment issues.



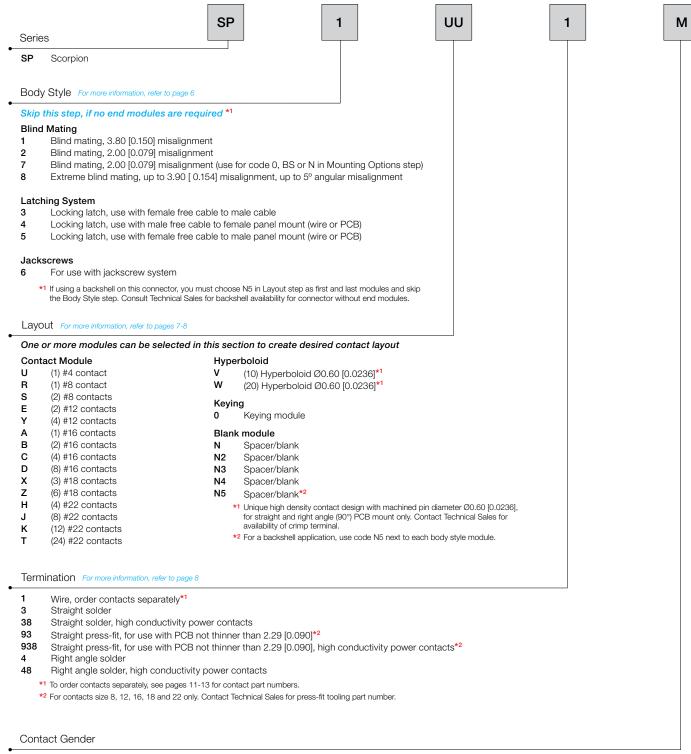


PICMG® logo is a registered trademark of the PCI Industrial Computers Manufacturers Group.

Positronic is proud to participate in PICMG 3.8. The Scorpion series was chosen as the PICMG 3.8 power connector.

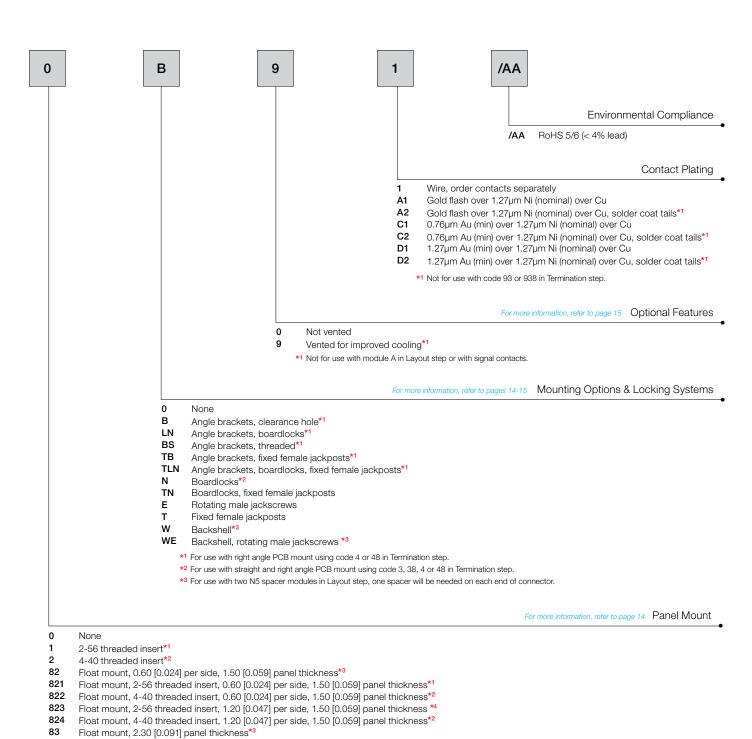
CREATE A PART

Mating connector part numbers will have the same letters in the same order. Female connector modules are placed right to left; Male modules are placed left to right when viewed from their mating faces.



- M Male pin
- **F** Female socket, open and closed entry signal contacts
- **S** Female socket, PosiBand closed entry signal contacts

CREATE A PART



- 831
- Float mount, 2-56 threaded insert, 0.60 [0.024] per side, 2.30 [0.091] panel thickness*1
- Float mount, 4-40 threaded insert, 0.60 [0.024] per side, 2.30 [0.091] panel thickness*2
- 833 Float mount, 2-56 threaded insert, 1.20 [0.047] per side, 2.30 [0.091] panel thickness*4
- Float mount, 4-40 threaded insert, 1.20 [0.047] per side, 2.30 [0.091] panel thickness*2
 - *1 For use with code 1 or 2 in Body Style step.
 - *2 For use with code 8 in Body Style step.
 - *3 For use with code 1, 2, 4 or 5 in Body Style step, contact Technical Sales for more floating options.
 - *4 For use with code 1 in Body Style step, contact Technical Sales for more floating options.

BODY STYLE

For the sake of brevity, only the left side of the end module face view is shown.

Scale 1:1

MALE	FEMALE	CODE	GENDER	А	В	FEATURE	Images below are shown for reference only, not shown at 1:1 scale.
B	B	1	Male	14.60 [0.575]	8.26 [0.325]* ¹	Blind mating	S. Car
A	A		Female	14.60 [0.575]	8.26 [0.325]* ¹	Blind mating	18
<u>→</u> B →	→ B →	2	Male	14.60 [0.575]	5.00 [0.197]* ¹	Blind mating	
A	A	2	Female	14.60 [0.575]	5.00 [0.197]* ¹	Blind mating	
<u>►</u> + B +-	B +	7	Male	14.60 [0.575]	4.50 [0.177]* ¹	Blind mating	
<u> </u>	A	,	Female	14.60 [0.575]	4.50 [0.177]* ¹	Blind mating	
B	→ B →	8	Male	14.60 [0.575]	9.50 [0.374]* ¹	Blind mating	
A	A	8	Female	14.60 [0.575]	9.50 [0.374]* ¹	Blind mating	
<u>-</u> -├В - -	<u> B </u>	3	Male	14.60 [0.575]	4.00 [0.157]* ¹	Latching system	
<u> </u>	A]	ŭ	Female	14.60 [0.575]	2.80 [0.110]* ¹	Latching system	
►+B+- ↑ ₁	-+ B +-	4	Male	14.60 [0.575]	4.76 [0.157]	Latching system	
A B	<u> </u>	·	Female	14.60 [0.575]	5.00 [0.197]* ¹	Latching system	
<u>→</u> B →	<u></u> B	5	Male	14.60 [0.575]	5.00 [0.197]* ¹	Latching system	
<u>A</u>	<u>A</u>	3	Female	14.60 [0.575]	2.80 [0.110]* ¹	Latching system	
B -	► B →	6	Male	14.60 [0.575]	9.20 [0.362]*1	Jackscrew	
A	A	ŭ	Female	14.60 [0.575]	9.20 [0.362]*1	Jackscrew	

^{*1} Double dimension for OAL. Dimension shown is only for one module, but connector will be provided with two modules, one left and one right.

MODULE LAYOUTS" _____

*1 All modules shown are male modules. Contact Technical Sales for availability of other modules.

Scale 1:1

CONTACT MODULES	CODE	SIZE	А	В
B A	U	#4	14.60 [0.575]	14.20 [0.559]
A B	R	#8	14.60 [0.575]	9.40 [0.370]
B A	S	#8	14.60 [0.575]	18.80 [0.740]
B A	E	#12	14.60 [0.575]	5.90 [0.232]
B A	Y	#12	14.60 [0.575]	11.80 [0.465]
A	A	#16	14.60 [0.575]	4.96 [0.195]
B A	В	#16	14.60 [0.575]	4.96 [0.195]
B	С	#16	14.60 [0.575]	9.92 [0.391]
B	D	#16	14.60 [0.575]	19.84 [0.781]

CONTACT MODULES	CODE	SIZE	A	В
A O	x	#18	14.60 [0.575]	3.80 [0.150]
A O	Z	#18	14.60 [0.575]	7.60 [0.299]
B A	н	#22	14.60 [0.575]	2.70 [0.106]
A A	J	#22	14.60 [0.575]	5.40 [0.213]
B A	к	#22	14.60 [0.575]	8.10 [0.319]
B A	Т	#22	14.60 [0.575]	16.20 [0.638]

	Contact Size Chart								
#4 #8 #12 #16 #18 #22 0.60mr									
			•	•	•	•			

All Positronic products utilize solid, machined contacts.

MODULE LAYOUTS

Scale 1:1

HYPERBOLOID MODULES 0.60 [0.0236]	CODE	А	В	
A · ·	v	14.60 [0.575]	4.40 [0.173]	
A	w	14.60 [0.575]	8.80 [0.346]	

KEYING MODULE	CODE	A	В
B A A	0	14.60 [0.575]	11.80 [0.465]

	Contact Size Chart							
#4	#8 #12 #16 #18 #22 0.60mm							
			•	•	•	•		

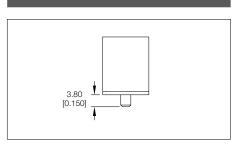
All Positronic products utilize solid, machined contacts.

BLANK MODULES	CODE	Α	В
► - B	N	14.60 [0.575]	1.62 [0.064]
► B A	N2	14.60 [0.575]	2.00 [0.079]
A A	N3	14.60 [0.575]	3.46 [0.136]
B - B - A A A	N4	14.60 [0.575]	4.88 [0.192]
A A	N5	14.60 [0.575]	5.60 [0.220]

CONTACT TERMINATIONS DIMENSIONS

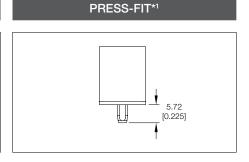
For the sake of brevity, only the Male single row size 8 contact modules are shown. Dimension shown apply for all contacts regardless of size and gender.

STRAIGHT SOLDER



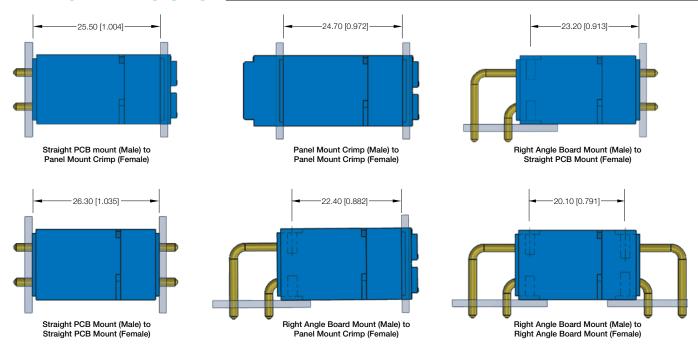
3.80 [0.150]

RIGHT ANGLE SOLDER



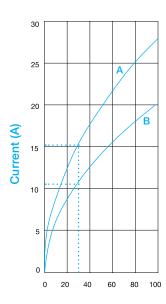
 $[\]textcolor{red}{\star 1} \text{ For information of suggested straight mount PCB hole sizes, please visit our website to } \underline{\text{download SK 6370}}.$

MATING DIMENSIONS



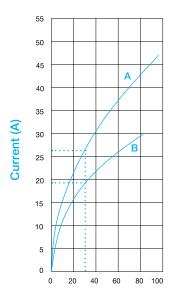
TEMPERATURE RISE CURVES

Tested per IEC Publication 60512-3, Test 5a



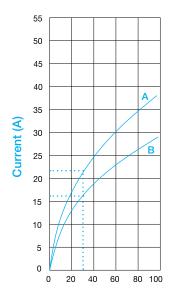
Size 18 Temperature rise (°C)

- A Developed with (6) #18 high conductivity contacts seated in code Z modules.
- B Developed with (6) #18 standard conductivity contacts seated in code Z modules.



Size 16 Temperature rise (°C)

- A Developed with (2) #16 high conductivity contacts seated in code B modules.
- B Developed with (2) #16 standard conductivity contacts seated in code B modules.

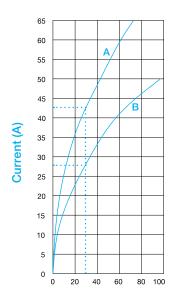


Size 16 Temperature rise (°C)

- A Developed with (8) #16 high conductivity contacts seated in code CC modules.
- Developed with (8) #16 standard conductivity contacts seated in code CC modules.

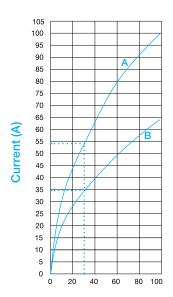
TEMPERATURE RISE CURVES

Tested per IEC Publication 60512-3, Test 5a



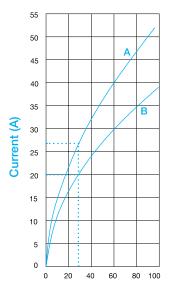
Size 12 Temperature rise (°C)

- A Developed with (2) #12 high conductivity contacts seated in code E modules.
- B Developed with (2) #12 standard conductivity contacts seated in code E modules.



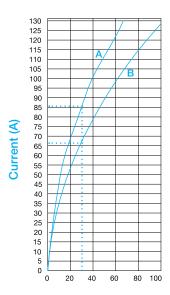
Size 8 Temperature rise (°C)

- A Developed with (2) #8 high conductivity contacts seated in code RR modules.
- B Developed with (2) #8 standard conductivity contacts seated in code RR modules.



Size 12 Temperature rise (°C)

- A Developed with (10) #12 high conductivity contacts seated in code EYY modules.
- B Developed with (10) #12 standard conductivity contacts seated in code EYY modules.



Size 4 Temperature rise (°C)

- A Developed with (2) #4 high conductivity contacts seated in code UU modules.
- B Developed with (2) #4 standard conductivity contacts seated in code UU modules.

CONTACTS*1

*1 Contact Technical Sales for more details on additional contact sizes, material, finishes, and termination styles.

SC

Standard conductivity contacts
High conductivity contacts

REMOVABLE CRIMP CONTACTS

PART NUMBER		Size	Gender	Female Contact Style	Stranded AWG [mm²]	Sequential Mat
FC0404N2	sc	#4	Female	Closed entry	#4 [25.0]	
FC0404N2S	нс	#4	Female	Closed entry	#4 [25.0]	
MC0404N	sc	#4	Male	n/a	#4 [25.0]	
MC0404NS	НС	#4	Male	n/a	#4 [25.0]	
FC4008DS	нс	#8	Female	Closed entry	#8 [10.0]	
FC4008DS-PA781	нс	#8	Female	Closed entry	#8 [10.0]	First
FC4010D	sc	#8	Female	Closed entry	#10 [5.3]	
FC4010D-PA781	sc	#8	Female	Closed entry	#10 [5.3]	First
FC4010DS	нс	#8	Female	Closed entry	#10 [5.3]	
FC4010DS-PA781	нс	#8	Female	Closed entry	#10 [5.3]	First
FC4012D	sc	#8	Female	Closed entry	#12 [4.0]	
FC4012D-PA781	sc	#8	Female	Closed entry	#12 [4.0]	First
FC4012DS	НС	#8	Female	Closed entry	#12 [4.0]	
FC4012DS-PA781	НС	#8	Female	Closed entry	#12 [4.0]	First
FC4016D	sc	#8	Female	Closed entry	#16 [1.5]	
FC4016D-PA781	sc	#8	Female	Closed entry	#16 [1.5]	First
FC4016DS	НС	#8	Female	Closed entry	#16 [1.5]	
FC4016DS-PA781	нс	#8	Female	Closed entry	#16 [1.5]	First
MC4008DS	нс	#8	Male	n/a	#8 [10.0]	
MC4008DS-PA781	HC	#8	Male	n/a	#8 [10.0]	First
MC4010D	sc	#8	Male	n/a	#10 [5.3]	11100
MC4010D-PA781	sc	#8	Male	n/a	#10 [5.3]	First
MC4010DS	нс	#8	Male	n/a	#10 [5.3]	11131
MC4010DS-PA781	нс	#8	Male	n/a	#10 [5.3]	First
MC4012D	sc	#8	Male	n/a	#12 [4.0]	11130
	sc	#8	Male	n/a		First
MC4012D-PA781					#12 [4.0]	First
MC4012DS	HC	#8	Male	n/a	#12 [4.0]	
MC4012DS-PA781	HC	#8	Male	n/a	#12 [4.0]	First
MC4016D	SC	#8	Male	n/a	#16 [1.5]	_
MC4016D-PA781	SC	#8	Male	n/a	#16 [1.5]	First
MC4016DS	HC	#8	Male	n/a	#16 [1.5]	
MC4016DS-PA781	HC	#8	Male	n/a	#16 [1.5]	First
FC1210P2	SC	#12	Female	Closed entry	#10 [6.0]	
FC1210P2S	HC	#12	Female	Closed entry	#10 [6.0]	
FC1212P2	SC	#12	Female	Closed entry	#12 [4.0]	
FC1212P2S	HC	#12	Female	Closed entry	#12 [4.0]	
MC1210N-PA563	sc	#12	Male	n/a	#10 [6.0]	First
MC1210NS-PA563	HC	#12	Male	n/a	#10 [6.0]	First
MC1210N	sc	#12	Male	n/a	#10 [6.0]	
MC1210NS	HC	#12	Male	n/a	#10 [6.0]	
MC1212N-PA563	sc	#12	Male	n/a	#12 [4.0]	First
MC1212NS-PA563	HC	#12	Male	n/a	#12 [4.0]	First
MC1212N	sc	#12	Male	n/a	#12 [4.0]	
MC1212NS	HC	#12	Male	n/a	#12 [4.0]	

CONTACTS*1

*1 Contact Technical Sales for more details on additional contact sizes, material, finishes, and termination styles.

SC

Standard conductivity contacts
High conductivity contacts

REMOVABLE CRIMP CONTACTS

PART NUMBER		Size	Gender	Female Contact Style	Stranded AWG [mm²]	Sequential Mate
FC112P2-PA907	sc	#16	Female	Closed entry	#12 [4.0]	
FC112P2S-PA907	НС	#16	Female	Closed entry	#12 [4.0]	
FC114P2-PA907	sc	#16	Female	Closed entry	#14-16 [2.5-1.5]	
FC116P2-PA907	sc	#16	Female	Closed entry	#16-18-20 [1.5-1.0-0.5]	
FC120P2-PA907	sc	#16	Female	Closed entry	#20-22-24 [0.5-0.3-0.25]	
MC112N-133.5	sc	#16	Male	n/a	#12 [4.0]	First
MC112NS-133.5	НС	#16	Male	n/a	#12 [4.0]	First
MC112N	sc	#16	Male	n/a	#12 [4.0]	
MC112NS	НС	#16	Male	n/a	#12 [4.0]	
MC114N-133.5	sc	#16	Male	n/a	#14-16 [2.5-1.5]	First
MC114N	sc	#16	Male	n/a	#14-16 [2.5-1.5]	
MC116N-133.5	sc	#16	Male	n/a	#16-18-20 [1.5-1.0-0.5]	First
MC116N	sc	#16	Male	n/a	#16-18-20 [1.5-1.0-0.5]	
MC120N-133.5	sc	#16	Male	n/a	#20-22-24 [0.5-0.3-0.25]	First
MC120N	sc	#16	Male	n/a	#20-22-24 [0.5-0.3-0.25]	
FC1816P2	sc	#18	Female	Closed entry	#16-18 [1.5-1.0]	
FC1816P2S	НС	#18	Female	Closed entry	#16-18 [1.5-1.0]	
FC1820P2	sc	#18	Female	Closed entry	#20 [0.5]	
FC1820P2S	НС	#18	Female	Closed entry	#20 [0.5]	
MC1816N-PA561	sc	#18	Male	n/a	#16-18 [1.5-1.0]	First
MC1816NS-PA561	НС	#18	Male	n/a	#16-18 [1.5-1.0]	First
MC1816N	sc	#18	Male	n/a	#16-18 [1.5-1.0]	
MC1816NS	НС	#18	Male	n/a	#16-18 [1.5-1.0]	
MC1820N-PA561	sc	#18	Male	n/a	#20 [0.5]	First
MC1820NS-PA561	нс	#18	Male	n/a	#20 [0.5]	First
MC1820N	sc	#18	Male	n/a	#20 [0.5]	
MC1820NS	нс	#18	Male	n/a	#20 [0.5]	
FC422P9	sc	#22	Female	Closed entry	#22-26 [0.3-0.12]	
MC422N9	sc	#22	Male	n/a	#22-26 [0.3-0.12]	
MC422N9-PA1116*1	sc	#22	Male	n/a	#22-26 [0.3-0.12]	

^{*1} For use with alignment insert.

NON-REMOVABLE CRIMP CONTACTS

PART NUMBER		Size	Gender	Female Contact Style	Stranded AWG [mm²]
FC422T-PA908	sc	#22	Female	Closed entry	#22-26 [0.3-0.12]
MC422T-PA908	sc	#22	Male	n/a	#22-26 [0.3-0.12]

NON-REMOVABLE HYPERBOLOID CRIMP CONTACTS

PART NUMBER		Size	Gender	Female Contact Style	Stranded AWG [mm²]
FC3124T	sc	0.60 [0.0236]	Female	Closed entry	#24-28 [0.25-0.08]
MC3124T	sc	0.60 [0.0236]	Male	n/a	#24-28 [0.25-0.08]

CONTACTS*1

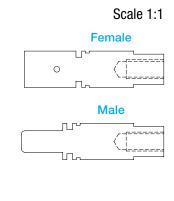
*1 Contact Technical Sales for more details on additional contact sizes, material, finishes, and termination styles.



Standard conductivity contacts
High conductivity contacts

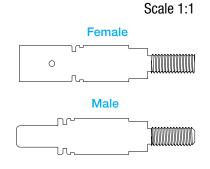
REMOVABLE CONTACTS, BUS BAR INTERNAL THREADS

PART NUMBER		Size	Gender	Female Contact Style	Thread
SPFIT04M	sc	#4	Female	Closed entry	M5 x 0.8
SPFIT04MS	НС	#4	Female	Closed entry	M5 x 0.8
SPFIT04S	sc	#4	Female	Closed entry	10-24 UNC 2B
SPFIT04SS	НС	#4	Female	Closed entry	10-24 UNC 2B
SPMIT04M	sc	#4	Male	n/a	M5 x 0.8
SPMIT04MS	НС	#4	Male	n/a	M5 x 0.8
SPMIT04S	sc	#4	Male	n/a	10-24 UNC 2B
SPMIT04SS	нс	#4	Male	n/a	10-24 UNC 2B



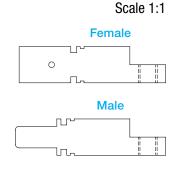
REMOVABLE CONTACTS, BUS BAR EXTERNAL THREADS

PART NUMBER		Size	Gender	Female Contact Style	Thread
SPFET04M	sc	#4	Female	Closed entry	M5 x 0.8
SPFET04MS	нс	#4	Female	Closed entry	M5 x 0.8
SPFET04S	sc	#4	Female	Closed entry	10-24 UNC 2A
SPFET04SS	нс	#4	Female	Closed entry	10-24 UNC 2A
SPMET04M	sc	#4	Male	n/a	M5 x 0.8
SPMET04MS	нс	#4	Male	n/a	M5 x 0.8
SPMET04S	sc	#4	Male	n/a	10-24 UNC 2A
SPMET04SS	НС	#4	Male	n/a	10-24 UNC 2A



REMOVABLE CONTACTS, RIGHT ANGLE THREAD FOR RING TERMINAL

PART NUMBER		Size	Gender	Female Contact Style	Thread	Stranded AWG [mm²]
SPFRA04M	sc	#4	Female	Closed entry	M5 x 0.8	#10 [5.3]
SPFRA04MS	нс	#4	Female	Closed entry	M5 x 0.8	#10 [5.3]
SPFRA04S	sc	#4	Female	Closed entry	10-24 UNC 2B	#10 [5.3]
SPFRA04SS	нс	#4	Female	Closed entry	10-24 UNC 2B	#10 [5.3]
SPMRA04M	sc	#4	Male	n/a	M5 x 0.8	#10 [5.3]
SPMRA04MS	нс	#4	Male	n/a	M5 x 0.8	#10 [5.3]
SPMRA04S	sc	#4	Male	n/a	10-24 UNC 2B	#10 [5.3]
SPMRA04SS	нс	#4	Male	n/a	10-24 UNC 2B	#10 [5.3]



ACCESSORIES

PCB MOUNT





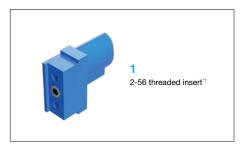




- *1 For use with right angle PCB mount using code 4 or 48 in Termination step.
- *2 For use with straight and right angle PCB mount using code 3, 38, 4 or 48 in Termination step.

CODE	MATERIALS
B, BS, LN	Brass with tin plate
N	Copper alloy with tin plate

PANEL MOUNT





821

Float mount, 2-56 threaded insert, 0.60 [0.024] per side, 1.50 [0.059] panel thickness

831

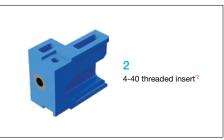
Float mount, 2-56 threaded insert, 0.60 [0.024] per side, 2.30 [0.091] panel thickness¹

823

Float mount, 2-56 threaded insert, 1.20 [0.047] per side, 1.50 [0.059] panel thickness '4

833

Float mount, 2-56 threaded insert, 1.20 [0.047] per side, 2.30 [0.091] panel thickness¹⁴





*1 For use with code 1 or 2 in Body Style step.*2 For use with code 8 in Body Style step.

822

Float mount, 4-40 threaded insert, 0.60 [0.024] per side, 1.50 [0.059] panel thickness²

832

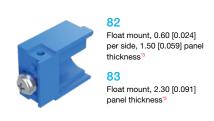
Float mount, 4-40 threaded insert, 0.60 [0.024] per side, 2.30 [0.091] panel thickness²

824

Float mount, 4-40 threaded insert, 1.20 [0.047] per side, 1.50 [0.059] panel thickness²

834

Float mount, 4-40 threaded insert, 1.20 [0.047] per side, 2.30 [0.091] panel thickness²

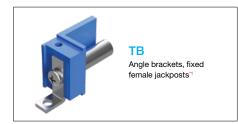


*3 For use with code 1, 2, 4 or 5 in Body Style step, contact Technical Sales for more floating options.
*4 For use with code 1 in Body Style step, contact Technical Sales for more floating options.

CODE	MATERIALS
1, 2	Brass
82, 83, 821, 822, 823, 824, 831, 832, 833, 834	Steel with zinc plate

ACCESSORIES _____

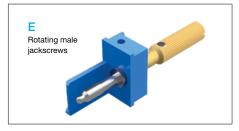
JACKPOST/JACKSCREW SYSTEMS







T Fixed female jackposts

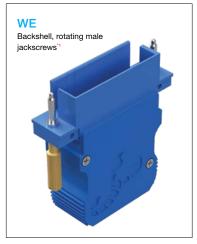


*1 For use with right angle PCB mount using code 4 or 48 in Termination step.

MATERIALS			
Screw Steel with zinc plate			
Jackpost, hex nut and lock washer	Stainless steel, passivated		
Knobs	Aluminum, yellow anodized		

BACKSHELL





*1 For use with two N5 spacer modules in Layout step, one spacer will be needed on each end of connector.

MATERIALS		
Backshell Glass-filled polyester, UL94 V-0, blue		
Screws	Steel, zinc plate with chromate seal	
Cable clamp	Steel with nickel plate	
Cable clamp screws	Brass, zinc plate with chromate seal	

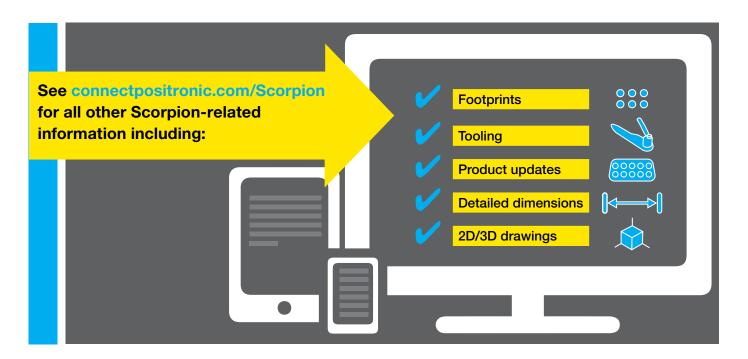
VENTING FEATURES

Venting feature is a outlet hole enabling air cooling onto a power contact. In compliance with UL 1977, section 10.2 accessibility of live parts.





*1 Not for use with module A in Layout step or with signal contacts.



All dimensional tolerances are \pm 0.38 [0.015], unless otherwise specified: \pm 0.03 mm [0.001 inches] for male contact mating diameters; \pm 0.08 mm [0.003 inches] for contact termination diameters; \pm 0.13 mm [0.005 inches] for all other diameters; \pm 0.38 mm [0.015 inches] for all other dimensions. 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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