

Ordering Information - Code Numbering System

Specify complete connector by selecting an option from step 1 through 9
(Consult sales for part numbers using more than 30 characters)

Coming soon:
Size 4 power
contact modules



Low Profile Scorpion Connectors:



Blind Mating System



Positronic is proud to have participated in PICMG 3.8. The Scorpion series was chosen as the PICMG 3.8 power connector. For more information on the PICMG 3.8 connectors, see pages 18-22.

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Step	1	2	3	4	5	6	7	8	9	10	11		
Example	SP	2	YNKNB	4	M	0	N	9	A2	/AA	-	XXX	
STEP 1: BASIC SERIES SP : Scorpion Series.													
STEP 2: GUIDE AND LOCKING OPTIONS 1 : Super Blind Mating System, up to 3.80 [0.150] misalignment. 2 : Blind Mating System, up to 2.00 [0.079] misalignment. 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. 6 : End Module, for Use with Jackscrew System. 7 : Blind mating system, 4.50 [0.177] width, up to 2.00 [0.079] misalignment. Use with connectors with code 0, BS, or N in step 7 only.		<p>Male Female Male Female Male Female Male Female</p> <p>SP1 SP2 SP3 SP4</p> <p>SP5 SP6 SP7</p>											
STEP 3: CONNECTOR VARIANTS Size 8 power contact module: Module R or S Size 12 power contact module: Module E or Y or G Size 16 power contact module: Module A or B or C or D Size 18 power contact module: Module X or Z Size 22 signal contact module: Module H or J or K or T Size 22 precision formed signal contact module: (For PCB mount only. Consult sales for availability of male straight PCB mount.) Module L or P or Q Hyperboloid 0.60mm [0.0236] Contact module: (Unique high density contact design with machined pin diameter Ø0.60 [0.0236], for straight and right angle (90°) PCB mount only. Consult sales for availability of crimp terminal.) Module V or W Blank module: Module N or N2 or N3 or N4 Consult sales for availability of size 4 and other modules. It is recommended signal contacts are positioned at the center of the connector.				<p>Module R Module S</p>	<p>Module E Module Y Module G</p>	<p>Module A Module B Module C Module D</p>	<p>Module X Module Z</p>	<p>Module H Module J Module K Module T</p>	<p>Module L Module P Module Q</p>	<p>Module V Module W</p>	<p>Module N Module N2 Module N3 Module N4</p>		
STEP 4: CONTACT TERMINATION TYPE 1 : Crimp contacts, order separately. 3 : Solder, straight PCB mount. Standard conductivity power contacts. 38 : Solder, straight PCB mount. High conductivity power contacts. 4 : Solder, right angle (90°) PCB mount. Standard conductivity power contacts. 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. * For contacts size 8, 12, 16, 18 and 22 only. Contact sales for press-fit tooling part number. Sequential mating options are available. Contact sales for availability of mixed contact termination type.													
STEP 5: CONNECTOR GENDER M : Male F : Female - Standard contacts S : Female - Posiband contacts													
STEP 6: PANEL MOUNT 0 : None. 6 : Easy release mounting clip for 1.50mm [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. *Float mount allows 0.60 [0.0236] floating per side. Consult sales for more floating options.													
STEP 7: MOUNTING STYLE AND JACKSCREW SYSTEM 0 : None. B : 90° metal mounting bracket (through hole), for right angle PCB mounted connectors using code 4 or 48, see step 4. LN : 90° metal mounting bracket (board lock), for right angle PCB mounted connectors using code 4 or 48, see step 4. BS : 90° metal mounting bracket (threaded), for right angle PCB mounted connectors using code 7 in step 2 only. N : Push-on fastener for PCB mounted connectors using code 3, or 38, or 4, or 48, see step 4.													
STEP 8: VENT OPTIONS (For power contacts only, except module A of step 3.) 0 : Connector body is not vented. 9 : Connector body vented for air cooling.													
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 10: ENVIRONMENTAL COMPLIANCE OPTIONS /AA : Compliant per EU Directive 2002/95/EC (RoHS). Example: SP2GNKNB4M0N9/AA Note: This step will not be used if compliance to environmental legislation is not required. Example: SP2GNKNB4M0N9													
STEP 11: SPECIAL OPTIONS, CONSULT SALES FOR SPECIAL OPTIONS.													
												<p>Code 0 Code 9</p>	
												<p>Code B Code LN Code BS Code N</p> <p>Code E Code T Code TB Code TLN Code TN</p>	
												<p>Code 3 or 38 Code 4 or 48 Code 93 or 938</p>	
												<p>Products described within this catalog may be protected by one or more of the following U.S. patents:</p> <p>#4,721,472 #4,900,261 #5,255,580 #5,329,697 #6,260,268</p> <p>Patented in Canada, 1992. Other Patents Pending.</p>	

