

Connectors

Positronic

passion.experience.reliability.



Essential criteria

As a long established and owner-operated company, we always act according to the features reliability and liability, honesty and transparency as well as flexibility and discretion. Customer satisfaction confidence and commercial added value are basis for successful cooperation.

Reliable and strong partnership

We put the strength in working together exclusively with well-respected and leading manufacturers and suppliers. We achieve confidence and consistency in the market for more than 65 years. We do implement your demand on product quality and availability.

All-over processes and significant quality

The certification according to DIN EN ISO 9001:2008 proves the continuous representation of our processes. All procedures and workflows are location and department-overall recorded. This guarantees you, as our valued customer a maximum of safety and transparency in the complete process chain.

High advisory skills and solution

We confirm the confidence of our customers by fulfilling and exceeding their expectations. Our competence of individual consulting and target-oriented solutions are reflected in our custom-fit products. Have a look by yourself!

Market knowledge from A to Z

Besides our specialized product portfolio we distinguish ourselves with profound branch knowledge. We use this know-how in order to give an optimum of product support. You can always rely on our extensive technical expertise from A like Acrich High Voltage Technology to Z like Zhaga LED modules. Our experts are always beyond one's nose and give you full support during your complete project realization and do also consider alternative solution approaches, if necessary.

SOLUTION
PARTNER



Moving ahead with thoughtful steps

For more than 65 years we have been one of the leading design-in distributors for electronic components and systems. Hardly any other company in the industry can draw on such depth of experience. Our core competence lies in optoelectronics. In the areas of electromechanics, power supply, Hi-Rel, alarm & acoustics as well as RFID and industrial storage solutions, we always find the perfect solution for your specific requirements.



Vision

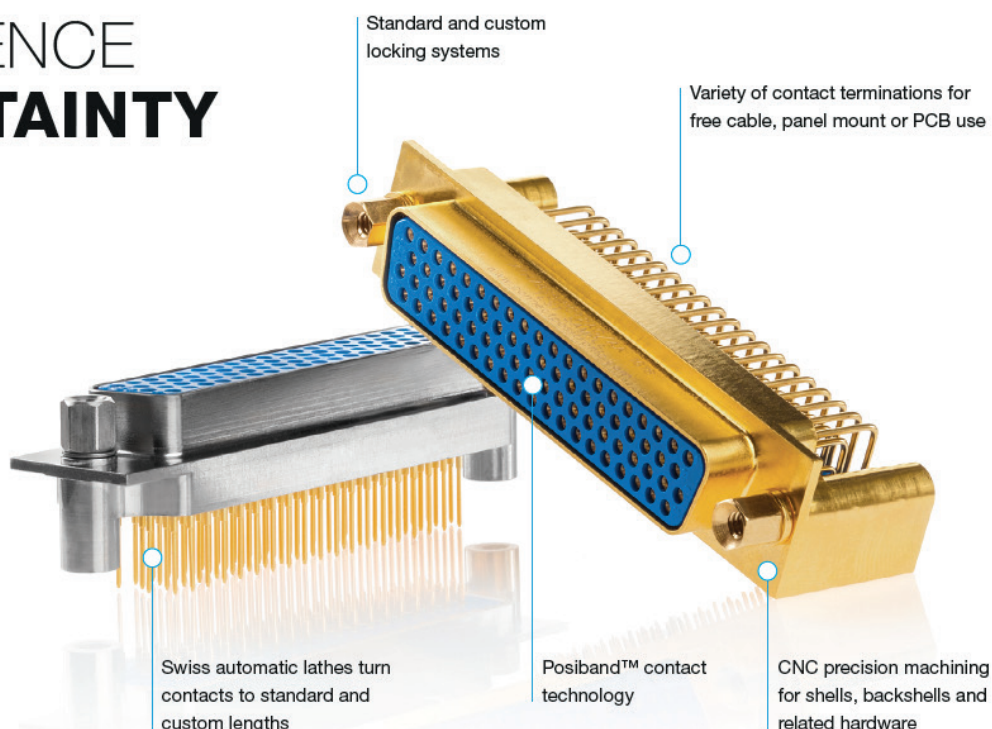
Positronic will be a global partner and world-class supplier of the best innovative solutions for demanding connector applications.

Company Overview







Positronic is a global manufacturer of highly reliable electronic connectors and printer cable assemblies for use in a variety of military, aerospace, civil aviation, medical, industrial, test and rail applications. Core competencies include solid low resistance/high conductivity machined contacts for use in standard and high speed custom connectors. The main products include high voltage, D-sub, rectangular, modular and circular connectors. Many parts are offered for immediate shipment from stock through the company's e-commerce partner, PosiShop.com. Features include mixed density, blind, optical, waterproof (IP67), hermetic, thermocouple, aerospace, mil-spec, solder/cable/press, and various accessories options. Connector types include free cable, PCB and panel mount options.

Although a large catalogue of standard products exists, custom solutions are also available. Positronic is known worldwide for its unique ability to quickly change existing products or create new products to meet the needs of the application. See www.connectpositronic.com for more details.









THE SCIENCE OF **CERTAINTY**



Portfolio Overview

													
FAMILY		SCORPION		LOW-PROFILE SCORPION		PANTHER		POWER CONNECTION SYSTEMS		GOLDFISH		GREAT GOLDEN	
PART NUMBER PREFIX		SP		LSP		PA		PLA, PLB, PLC		GFSH		GG	
CONTACT SIZE	CURRENT RATING (AMPS) *1	#4 #8 #12 #16 #18 #22	100 50 40 26 16 3	#12 #20 #22	38 12 3	#12	25	#8 #16 #20	40 18 7.5	#12 #16 #20 #22	35 20 5 3	#0 #8 #12 #16 #20	175 40 35 20 5
FEMALE CONTACT DESIGN		Open Entry PosiBand LSA		Open Entry PosiBand LSA		PosiBand		Open Entry LSA		Open Entry PosiBand LSA		LSA Crown	
CONTACT TERMINATION		Crimp Solder PCB Press-Fit PCB		Crimp Solder PCB Press-Fit PCB		Crimp Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB Press-Fit PCB		Crimp Solder PCB Press-Fit PCB		Crimp Ring Terminal Busbar	
INSULATOR MATERIAL		Polyester		Polyester		LCP		Polyester		Nylon		Nylon	
INSULATOR COLOR		Blue		Black		Black		Blue		Gold		Gold	
SHELL MATERIAL		--		--		--		--		--		--	
SHELL FINISH		--		--		--		--		--		--	
POLARIZATION		Insulator		Insulator		Insulator		Insulator		Insulator		Insulator	
BLIND MATING		Optional		Optional		--		Optional		Included		Included	
CONFIGURATIONS		> 1,000,000		> 100,000		3		16		6		625	
LOCKING SYSTEM		Integrated Latch Jackscrews		Integrated Latch		Jackscrews		Integrated Latch		Jackscrews		Jackscrew	
BACKSHELL		Plastic		--		Plastic		Plastic		Plastic		Metal	
MOUNTING		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable Panel	
TEMPERATURE RANGE (°C)		-55 to +125		-55 to +125		-55 to +200		-55 to +125		-55 to +125		-55 to +125	
SEQUENTIAL MATING LEVELS		2		2		2		3		3		2	
QUALIFICATIONS *4		UL		--		IP65/67 EN45545-2 HL3 NFF 16-101/102		CUL		UL		--	

All Positronic contacts are machined from solid copper alloy and plated gold for maximum performance. Gold plating thickness options include gold flash, 30 microinches and 50 microinches.
All insulators meet UL 94V-0 requirements.


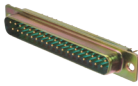
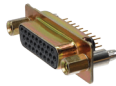



															
COMPACT POWER CONNECTOR		DRAGONFLY		INFINITY		AUTOSHUNT		POWER INPUT CONNECTOR		SAFETY SHROUD		WONDERSUN		VITA 41 (VXS)	
PCIH, PCIA, PCIB, PCIC, PCIM		DF		IP, MIP, MMIP		PLZ, DFS		PLB3W3		PLS		WS		VPX	
#16	40 ^{*2}	#16	20	#8	60	#16	15	#12	40	#12	40	#8	60	#20	24
#16	28 ^{*2}	#20	7.5	#12	40										
#20	5	#22	3	#16	20										
#22	3			#20	5										
Open Entry PosiBand LSA		Open Entry LSA		Open Entry LSA		LSA		LSA		LSA		LSA		Open Entry	
Crimp Solder PCB Press-Fit PCB		Crimp Solder PCB Press-Fit PCB		Crimp Solder PCB Press-Fit PCB		Crimp Solder PCB Screw Terminal		Crimp Solder PCB Press-Fit PCB Screw Terminal		Crimp Solder PCB		Crimp Busbar		Solder PCB Press-Fit PCB	
Polyester		Nylon		Polyester		Nylon Polyester		Polyester		Polyester		Nylon		Polyester	
Blue		Green Black		Blue		Green Blue		Blue		Blue		Black		Blue	
--		--		--		--		--		--		--		--	
--		--		--		--		--		--		--		--	
Insulator		Insulator		Insulator		Insulator		Insulator		Insulator		Insulator		Pin Layout	
--		--		Included		--		--		--		--		--	
12		5		16		2		1		2		1		1	
--		Integrated Latch		Jackscrew		Integrated Latch		Integrated Latch		Integrated Latch		Push/Pull		--	
--		Plastic		Plastic		Plastic		Plastic		--		--		--	
Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable Panel		PCB	
-55 to +125		-55 to +125		-55 to +125		-55 to +125		-55 to +125		-55 to +125		-55 to +125		-55 to +125	
3		--		3		--		2		2		--		3	
UL CSA		UL		UL CSA		--		--		--		--		--	









^{*1} High conductivity contacts are available for most product families. On average, the current rating will be improved by 20-50%.

^{*2} 28 amp rating applies to DC output and 40 amp rating applies to AC/DC input.

^{*3} 7.5 amp rating applies to GAP/GAPL series and 13 amp rating applies to GMCT series.

^{*4} The listed qualification may not apply to all products within the family. Safety agency certifications not listed here may have been pending at the time of printing. Consult sales for current status.

													
FAMILY		ADVANCEDTCA		STANDARD DENSITY		HIGH DENSITY		COMBO-D		SPACEFLIGHT		WATERPOOF	
PART NUMBER PREFIX		VPB		SD, MDX, RD, HDC, XAVAC, SAVAC, HIVAC		ODD, DD, PCDD, XAVAC, SAVAC, HIVAC		CBD, CBM, CBC, CBDD, CBCD, QB, XAVAC, SAVAC, HIVAC		SND, SDD, SCBC, SCBM, SCBCD, SCBDD		WD, WDD, EVD	
CONTACT SIZE	CURRENT RATING (AMPS) *1	#16 #22	30 2	#20	7.5	#22	5	#8 #16 #20 #22	40 16 7.5 5	#8 #16 #20 #22	40 16 7.5 5	#20 #22	7.5 5
FEMALE CONTACT DESIGN		Open Entry LSA		Open Entry PosiBand		Open Entry PosiBand		Open Entry PosiBand LSA		PosiBand LSA		Open Entry PosiBand	
CONTACT TERMINATION		Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB		Crimp Solder Cup Solder PCB Pre-Wired	
INSULATOR MATERIAL		Polyester		DAP Nylon Polyester		Polyester		Polyester		DAP Polyester		DAP Nylon Polyester	
INSULATOR COLOR		Blue		Green Black Blue		Blue Black		Blue		Green Blue		Green Black	
SHELL MATERIAL		- -		Steel Stainless Steel		Steel Stainless Steel		Steel Stainless Steel		Brass		Steel Stainless Steel	
SHELL FINISH		- -		Tin Zinc Cadmium		Tin Zinc Cadmium		Tin Zinc Cadmium		Gold		Tin Zinc Cadmium	
POLARIZATION		Insulator		Trapezoidal		Trapezoidal		Trapezoidal		Trapezoidal		Trapezoidal	
BLIND MATING		Included		Optional		Optional		Optional		- -		- -	
CONFIGURATIONS		1		5		6		29		37		10	
LOCKING SYSTEM		- -		Jackscrew Lock Lever		Jackscrew Lock Lever		Jackscrew Lock Lever		Jackscrew		Jackscrew	
BACKSHELL		- -		Metal Plastic		Metal Plastic		Metal Plastic		Metal		Metal Plastic	
MOUNTING		PCB		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel	
TEMPERATURE RANGE (°C)		-55 to +125		-55 to +125		-55 to +125		-55 to +125		-55 to +125		-25 to +85 -55 to +125 -40 to +125	
SEQUENTIAL MATING LEVELS		4		- -		- -		- -		- -		- -	
QUALIFICATIONS *4		UL CNR		UL CSA MIL-DTL-24308 SAE AS39029		UL CSA MIL-DTL-24308 SAE AS39029		UL CSA DESC 85039 SAE AS39029		MIL-DTL-24308 GSFC S-311		IP65/67 UL CSA SAE AS39029	

															
DUAL PORT (STACKED)		OPTIK-D		STANDARD DENSITY		HIGH DENSITY		UTILITY		CIRCLE HEX		FRONT RUNNER		KING COBRA	
DP, MDP, XD, DDA, DDB, DDC, CBDP		CBF		GMCT, GM, GAP, GAPL		SGM, SGMC, SMPL		GF, GFPL		GH, MGH		FR		KC, BKC	
#8 #20 #22	40 7.5 5	#8 #20 #22	40 7.5 5	#16 #16 #20	13 *3 7.5 *3 7.5	#22	5	#20	7.5	#20 #22	7.5 5	#12 #16 #20 #22	25 13 7.5 5	#16 #20 #22	20 7.5 3
Open Entry LSA		Open Entry PosiBand LSA		LSA		Open Entry PosiBand		Open Entry		Open Entry		Open Entry LSA		Open Entry LSA	
Solder PCB		Crimp Solder Cup Solder PCB Optical Cable		Crimp Solder Cup Solder PCB Press-Fit PCB		Crimp Solder Cup Solder PCB		Solder Cup Solder PCB		Solder Cup Solder PCB		Crimp Solder PCB		Crimp Solder Cup Solder PCB Screw Terminal	
Nylon Polyester		Polyester		DAP		DAP		DAP		DAP		DAP		Nylon	
Black Green		Blue		Gray		Green Gray		Gray		Green Gray		Black		Green Black	
Steel Stainless Steel		Steel Stainless Steel		Aluminum		Aluminum		- -		- -		- -		- -	
Tin Zinc Cadmium		Tin Zinc Cadmium		Black Anodize Yellow Anodize Yellow Chromate		Black Anodize Yellow Anodize Yellow Chromate		- -		- -		- -		- -	
Trapezoidal		Trapezoidal		Guide Pilots Jackscrews		Guide Pilots Jackscrews		Pin Layout		Pin Layout		Insulator		Insulator	
- -		- -		- -		- -		- -		- -		- -		- -	
Variable		8		16		14		2		6		16		5	
Jackscrew Locking Lever		Jackscrews		Jackscrews Lock Lever		Jackscrews Lock Lever		- -		Lock Spring		Coupling Nut		Coupling Nut	
- -		Metal Plastic		Metal		Metal		- -		Metal Plastic		Plastic		Plastic	
PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB		Free Cable PCB Panel		Free Cable PCB Panel		Free Cable PCB Panel	
-55 to +125		-55 to +125		-55 to +125 -65 to +150		-55 to +135		-55 to +125		-55 to +125		-55 to +125		-55 to +125	
- -		- -		- -		- -		- -		- -		2		- -	
UL CSA		ARINC 801 SAE AS39029		UL MIL-DTL-28748 SAE AS39029		UL MIL-DTL-28748 SAE AS39029		UL		UL		IP65/67		UL IP65	



Gewerbegebiet Ost 7
D-91085 Weisendorf

Tel.: +49 9135 73666-0
Fax: +49 9135 73666-60

E-Mail: info@neumueller.com
www.neumueller.com

Office North

Beimoorkamp 3
D-22926 Ahrensburg

Tel.: +49 4102 66601-0
Fax: +49 4102 66601-66

E-Mail: info@neumueller.com
www.neumueller.com