
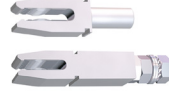











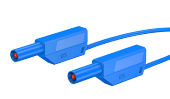




INDUSTRIAL / AEROSPACE AND DEFENSE


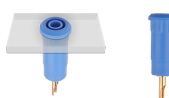






Product Sub-Category	Insulated Power Connector (Powerline)	Blind-mate Fork Style (Slide-Inline)	Blind-mate Connections (Slide-Inline)	Uninsulated Power Connectors (Powerline)	Miniature Connectors (MINI-line)	Multi-Couplings (Dockingline)	Electric Motor Connectors (Motor Line)	CombiTac (Modular, Mixed Use)
								
Application Examples	Shore Power, Mobile Power Generation, Off-shore power with harsh environments	Blind-Mate Busbar connection for power distribution, conversion, UPS, PDU, switching systems, and high-power test stands	Manual/rackable blind mate power and signal connection with float mount	Interconnects for LRU's - circuit breaker panels, power converters, grounding, energy storage systems	PCB connections, small spaces	Tool Changers, Multi-Couplings, Applications for extremely high mating cycles	Electric Motor Testing	Combines power, signals, data, fiberoptics, pneumatic and fluid connections in a single frame or housing
Number of Poles	Single	N/A	Modular, unlimited.	Single	Single	2 to 72	6 power + 2PE	Modular, unlimited
Contact Size	10mm to 21mm	Busbar 1/8" to 3/8" and metric sizes	2mm to 14mm	2mm to 120mm+	0.5mm to 2mm	1mm to 11mm	For bolts sized M4 to M10, other sizes upon request	0.6mm to 12mm signal and power request
Wire Gauge	6mm ² to 400mm ²	Custom crimp barrels	8AWG to 4AWG	4mm ² to 185mm ² Also inserts into larger host	1.2mm ² to 1.5mm ²	26AWG to 1/0 AWG	Application defined	26 AWG to 3/0 AWG
Termination	Crimp, threaded stud, and AxiClamp	Crimp or threaded	Screw or crimp	Crimp, threaded, press-fit, and AxiClamp	Solder, Crimp, or PCB	Crimp	Internal threaded bolts	Crimp, solder, PCB, screw
Continuous Current Rating	Up to 1kA	Up to 250A per linear inch	Up to 130A	Up to 6kA	Up to 25A	Up to 200A	Up to 90A	Up to 300A
Voltage Rating	1kV	600V	Up to 600V	Uninsulated	Uninsulated	Up to 830V	Up to 1kV	Up to 5kV
IP Rating	IP2X - Unmated IP65/67/68 - Mated	Uninsulated	IP2X - mated	Uninsulated	N/A	IP65-Unmated IP67-Mated IP2X- Socket unmated.	IP2X	Up to IP68/69K
Mating Cycles	1,000 to 5,000	1,000 to 5,000	1,000 to 5,000	1,000 to 5,000	1,000 to 5,000	Up to 1,000,000.	N/A	5,000 to 100,000
USPs	No-crimp termination (AxiClamp); Mechanical coding; Color-coding; Locking status indicator; Bayonet locking	Fully customizable; Vibration resistant; Backplane/blind-mate High-power density	Floating contacts; Blind-mate; Modularity	No-crimp termination (AxiClamp); High power density; Snap-lock option; Max design flexibility	Small, reliable connectors; PCB-PCB interfaces; Testing	High-reliability; Refined sliding forces; Extremely high; insertion cycles	User-friendly connection to attach testing leads to motor terminals; Wide range of terminal threads Screw or clamp connection	300A, 5kV, 10 Gbit Comm, 6 GHz data or A/V, fluids/ pneumatics all-in-one modular housing

TEST AND MEASUREMENT

Product Sub-Category	Touch-Protected Sockets	Fused Test Leads	Test Accessories Clips/Probe	Probes	Cable Line	T&M Leads-Jumpers	Flat Test Clip	High Frequency Accessories
								
Application Examples	Multimeters, Break-Out Boxes, Test Benches	Testing	Testing	All T&M Applications	Self-Assembly of T&M Systems	All T&M Applications	Busbar and Flat-Surface Testing	High Frequency measuring devices and Oscilloscopes
Number of Poles	Single	Single	Single	Single	Single	Single	Single	Modular, unlimited
Contact Size	1mm to 4mm	4mm	1mm to 4mm	4mm	N/A	1mm to 4mm	4mm socket, 12mm jaw opening.	BNC to probe, BNC to 4mm leads, BNC to 2mm leads.
Wire Gauge	30 AWG to 14 AWG	1.0mm ²	Accepts leads 1mm to 4mm	N/A	0.1mm ² to 95mm ²	0.127mm ² to 2.5mm ²	Accepts 4mm Leads	Coaxial, 0.50mm ² and 0.75mm ²
Termination	Crimp, solder, screw	4mm plug on each end	Accepts leads 1mm to 4mm	Accepts leads 2mm and 4mm	N/A	1mm to 4mm Plugs, Sockets	Accepts 4mm Leads	BNC, 4mm plugs and clips
Continuous Current Rating	Up to 40A	Up to 8A	Up to 40A	Up to 32A	Up to 290A	Up to 40A	Up to 32A	N/A
Voltage Rating	Up to 1kV, CAT IV	1kV	Up to 1kV	Up to 1kV, CATIV	Up to 30kV	Up to 1kV	1kV	Up to 3.54kV
IP Rating	IP2X	IP2X	N/A	N/A	N/A	IP2X	N/A	N/A
Mating Cycles	5,000 to 10,000	5,000 to 10,000	5,000 to 10,000	5,000 to 10,000	N/A	5,000 to 10,000	5,000 to 10,000	5,000
USPs	Touch-Protected; Industry-standard; Mounting Options; Au, Ni UL, IEC601010-031	System cost-savings, One fused lead used with standard clips/probes; PVC, Silicone UL, IEC601010-031	High-quality for durability; UL, IEC61010-031	Needle, Tapered; Spring-Tips; with Lead UL, IEC61010-031	Highly-Flexible; Insulation Materials: TPE, Silicone, PVC	Touch-Protected; Stackable; Retractable; Inline, Preassembled, Self-Assembly; Various terminations; 11 Colors	IEC61010-031 CATIV	500MHz, 10:1 / 100:1 Passive probe sets, adapters, clamps; BNC panel mount; Lead couplers; PCB Mount sockets; CATIII+IV

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LIFE SCIENCE / MEDICAL

Product Sub-Category	POAG Potential Equalization Connectors (Medicalline)	1.5mm / 2mm Panel Receptacles (Medicalline)	1.5mm / 2mm Connectors (Medicalline)	2mm Connector Leads (Medicalline)	MC4 Connectors	MC4 Panel Mount	MC4 Branch Connectors	Inline Fuse
								
Application Examples	Potential equalization in critical care facilities/operating rooms	Temporary Heart Pacing, Electrophysiology, Ablation Equipment	Temporary Heart Pacing, Electrophysiology, Ablation Equipment	ECG leads, Electrophysiology, Ablation Equipment	The original MC4 cable coupler	Bulkhead mounting	Used to combine two circuits in parallel. Comes in a socket/socket/plug or plug/plug/socket configuration	Used for System/String safety
Number of Poles	Single	Single	Single	Single	Single	Single	2 to 1	Single
Contact Size	6mm	1.5mm to 2mm	1.5mm to 2mm	2mm	4mm	4mm	4mm	4mm
Wire Gauge	4mm ² and 6mm ²	N/A	0.25mm ² to 0.5mm ²	0.5mm ²	14AWG to 8AWG (2.5mm ² to 6mm ²)	14AWG to 10AWG (2.5mm ² to 6mm ²)	MC4 interface on either end	10AWG / 6mm ²
Termination	Self-assembled or as premade leads	Round connecting pin ø 1.9mm, solder	Crimp, solder	Leads available; assembled or overmolded	Crimp	Crimp	MC4 interface on either end	MC4 interface on either end
Continuous Current Rating	DIN 42801 compliant	DIN 42802 compliant	DIN 42802 compliant	DIN 42802 compliant	Up to 70A	Up to 50A	Up to 50A	Up to 30A (Fuse/voltage dependent)
Voltage Rating	DIN 42801 compliant	DIN 42802 compliant	DIN 42802 compliant	DIN 42802 compliant	1.5kV (UL)	1.5kV (UL)	1.5kV (UL)	1kV or 1.5kV (UL)
IP Rating	DIN 42801 compliant	DIN 42802 compliant	DIN 42802 compliant	DIN 42802 compliant	IP68(1hr/1m)/IP2X(unmated)	IP68(1hr/1m)/IP2X(unmated)	IP68(1hr/1m)/IP2X(unmated)	IP68(1hr/1m)/IP2X(unmated)
Mating Cycles	DIN 42801 compliant	DIN 42802 compliant	DIN 42802 compliant	DIN 42802 compliant	100 (min)	100 (min)	100 (min)	100 (min)
USPs	Complete product range includes self-assembly connectors, leads, panel terminals, plugs and junction boxes; DIN 42801 compliant	Most connectors are steam and EtO sterilizable; DIN 42802 compliant	Most connectors are steam and EtO sterilizable; DIN 42802 compliant	Various colors and lengths available. Please also ask us for 1.5mm and cable options; Most connectors are steam and EtO sterilizable; DIN 42802 compliant	Industry-Leading PV connector system; Designed to outlast the lifetime of the overall system	More than 1 billion photovoltaic connectors in the Stäubli MC4 connector family have been successfully connected worldwide	Industry-Leading PV connector system; Designed to outlast the lifetime of the overall system	Robust and long-term reliable fused product with an outer enclosure design to survive the rigorous conditions of utility-scale PV applications



Stäubli Custom Engineering

- Engineering Design Support.
- Modifications of standard contact and connector designs.
- Testing capabilities: High-Voltage Testing, Pull-Force Testing, Insertion Cycle testing, Environmental Chamber Testing, Precision Microscopic Examination.
- Design teams in the USA, Germany, France and Switzerland. Local language, local talent, and local response.
- Rapid prototyping capability.
- Skilled at creating new designs based on customer-specific requirements.

Cable Assembly and Production Services

- Custom assembly and insertion of MULTILAM contact bands.
- Value-added assembly to standard and custom products.
- Cable harness assembly to Stäubli connectors and 3rd party terminations.
- BoM kitting available.

MULTILAM Contact Bands

- MULTILAM bands are torsion or leaf spring contact elements with unmatched electrical and mechanical properties. The design produces a large number of louvers, allowing contact to be made through a large number of defined contact points, substantially reducing the overall contact resistance.
- All Stäubli connectors are designed around the industry-leading MULTILAM Contact. The bands are not sold separately.
- Unparalleled reliability and quality.
- Extremely low contact resistance (very little heating).
- Optimally tuned contact forces.
- Optimally tuned sliding forces.
- High-mating cycles.
- Unlimited design options.
- Incredibly high power density (small form factor connectors).



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Product Selector Guide

Electrical Connectors



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