Power Connector Solutions

AMPERES | 10A up to 550A Safely Connect Power with Simplicity and Intelligence

- •Touch Safe
- •Blindmate
- •Latching
- •Hot Plug



- •Power, Signal & Ground
- •Enviromentally Sealed
- •Wire, PCB & Busbar
- Auxiliary Contacts



SPECIFICATIONS	POWERPOLE® & POWERPOLE® PAK	<u>SB®</u>	<u>SB® SMART</u>
Description	Four housing sizes that can be stacked together to create a custom connector from a single position into a multiple position connection. Powerpole PAK allow for a finished look to self-contain Powerpole housings	SB [®] Connectors are available from 50 up to 500 amps. The SB [®] connectors are genderless and are both color and mechanically keyed to prevent cross mating different voltages.	Two primary power positions and up to sixteen auxiliary power / signal circuits. Unique to the SB [®] Smart is it's selective keyed housings that allow only mating between select connector halves.
Sample Applications	 Modular Office LED Lighting Humidification Garden Tools Industrial Ovens Solar Chargers Electric Lawn Mower UPS Robotics 	 Electrical Testing Equipment Commercial Trucking Charger Automatic Guided Vehicles UPS Material Handling Motive Power Electric Vehicles 	 Industrial Process Controls Smart Storage Batteries Commercial Vehicles
Product Image (representaive photo only)			
Current Rating (Amperes)			
- Power Contacts (UL) ⁽¹⁾	Up to 350	Up to 500	Up to 230
- Auxiliary Contacts (UL) ⁽¹⁾			Up to 15
Voltage Rating (AC / DC)	Up to 600 UL	Up to 600 UL	Up to 600 UL
Contact Barrel Wire Size			
(AWG) - Power Contacts	20 to 3/0	12 to 350 mcm	10 to 1/0
- Auxiliary / Signal Contacts			24 to 12
(mm ²) - Power Contacts	0.52 to 85	2.5 to 185	5.3 to 53.5
- Auxiliary / Signal Contacts			0.5 to 2.5
Dielectric Withstanding Voltage (AC)	2,200	2,200	2,200
Mating Cycles- Assembled Part	5,000	5,000	(No load) 10,000
Mating Cycles- Power	1,500 to 10,000 ⁽⁴⁾	10,000	10,000
Mating Cycles- Signal			10,000
Operating Temperature (°C) ⁽²⁾	-20° to 105°	-20° to 105°	-20° to 105°
- Chemical Resistant	-40° to 105° (CR) ⁽⁶⁾	-40° to 105° (CR) ⁽⁶⁾	-40° to 105° (CR) ⁽⁶⁾
Operating Temperature (°F)	-4° to 221°	-4° to 221°	-4° to 221°
- Chemical Resistant	-40° to 221° (CR) ⁽⁶⁾	-40° to 221° (CR) ⁽⁶⁾	-40° to 221° (CR) ⁽⁶⁾
Housing Style	PCB - Wire - Busbar	PCB - Wire - Busbar	Wire to Wire / Wire to Busbar (power only)
Number of Poles - Power	1+	2 to 3	2
Number of Poles - Auxiliary			Up to 16
Ground	•		
Touch Safety	UL1977 Sec 10.2	IEC 60529	
Flame Resistance	•	•	•
Environmental Protection		•	-
Mechanically Keyed	• (8)	•	•
Latching	• (*)		
Blind Mate			
Hot Plug	(8)	•	•
Strain Relief	• (8)	•	
Handle		•	
Air Supply Notes: 1) UL rated for largest wire or cable siz 2) Contact factory for higher temperat		4) 10,000 based on using silver plated contacts 5) E Series is not UL rated	 = Available on select parts

Contact factory for higher temperature rated connectors
 Ratings using nickel plated tab

5) E Series is not UL rated6) On CR (Chemical Resistant) where available

SPECIFICATIONS	<u>SBS®</u>	<u>SBS®X-75A</u>	<u>SBE® / SBX®</u>
Description	An ergonomic housing offering power & signaling with protec- tion against accidental contact with live circuits where voltages can be health threatening.	SBS®X-75A sealed waterproof connectors offer up to 140A of power, 5,000 mating cycles and an IP68 rating makes it ideal for outdoor use.	Can integrate up to 8 auxiliary contacts for use in power / signal applications. SBE [®] connectors are IEC 60950 touch safe and resistant to chemical resistants. SBX [®] are IP20 rated and molded from a PC resin to resist impact.
Sample Applications	•Robotics •Roof Top Air Handlers • Electric Vehicles • Lawn/Garden • Electrical Testing Equipment • UPS • Motive Power	 Lawn & Garden Equipment Industrial/Commercial Power Equipment Marine Use Robotics 	 Material Handling Motor Controls Traction Batteries Transportation Robotics
Product Image (representaive photo only)			
Current Rating (Amperes)			
- Power Contacts (UL) ⁽¹⁾	Up to 110	Up to 140	Up to 550
- Auxiliary Contacts (UL) ⁽¹⁾	Up to 20	Up to 6	Up to 20
Voltage Rating (AC / DC)	Up to 600 UL	Up to 600 UL	Up to 600 UL
Contact Barrel Wire Size			
(AWG) - Power Contacts	12 to 6	10 to 4	16 to 350 mcm
- Auxiliary / Signal Contacts	24 to 12	24 to 14	24 to 10
(mm ²) - Power Contacts	2.5 to 16	6 to 25	1.5 to 185
- Auxiliary / Signal Contacts	0.5 to 2.5	0.5 to 1.5	0.25 to 5.3
Dielectric Withstanding Voltage (AC)	2,200	2,200	2,200
Mating Cycles- Assembled Part	5,000 / SBS Mini 200-8000	(No load) 5,000	
Mating Cycles- Power	1,500 - 10,000	10,000	10,000
Mating Cycles- Signal	10,000	10,000	1,500 - 10,000
Operating Temperature (°C) ⁽²⁾	-20° to 105°	-20° to 105°	(-20° to 105° SBX®)
- Chemical Resistant	-40° to 105° (CR) ⁽⁶⁾		(-40° to 105° SBE®)
Operating Temperature (°F)	-4° to 221°	-4° to 221°	-4° to 221°
- Chemical Resistant	-40° to 221° (CR) ⁽⁶⁾		-40° to 221° (CR) ⁽⁶⁾
Housing Style	PCB - Wire	Wire to Wire / Wire to Panel / Panel	Wire to Wire
Number of Poles - Power	2 - 3	to Panel 2	2
Number of Poles - Auxiliary	Up to 4	Up to 6	Up to 8
Ground	•	•	00100
Touch Safety	IEC 60950 - IEC 60529	UL 60950-1, UL 62368-1, IEC 605293	IEC 60529 IP20
Flame Resistance	•	•	•
Environmental Protection		IP68	•
Mechanically Keyed	•	•	•
Latching		•	
Blind Mate			
Hot Plug	•	•	•
Strain Relief	•	•	•
Handle	•		•
Air Supply			

Notes: 7) Solar SPEC Pak[®]latch complies with NEC 2008 (requires a tool to release) 8) When used with Powerpole[®] Pak accessories 9) Female side only

SPECIFICATIONS	EBC A & E Series are NOT Intermateable	POWER CLIP®	POWER DRAWER®
Description	 (E) Series connectors comply with DIN 0623-589 & meet UL1977. The design meets or exceeds all the requirements of EN1175:2020. (A) Series is rated up to 450A UL. All materials are RoHS compliant ensure years of reliability. 	An interconnection between two perpendicular power busbars. The design enables the connector to be blind mated in the deepest racks.	The 35A & 75A connectors are a mixed power and signal drawer connector. Pin con- tacts can be for First/Mate and Last/Mate connection. Guide pins correct misalign- ment during blind mating.
Sample Applications	 Forklift Trucks Reach Stacker Battery Chargers 	 N + 1 Rectifier Switching Power Power Supply 	 Rectifiers Mainframe Computers Telecommunications Network Equipment
Product Image (representaive photo only)			
Current Rating (Amperes)			
- Power Contacts (UL) ⁽¹⁾	UL up to 340 nominal (E)	300 (3)	Up to 75 per contact
	UL up to 450 (A)		
- Auxiliary Contacts (UL) ⁽¹⁾	20 (5)		5
Voltage Rating (AC / DC)	E & A Series - UL / CSA - 600V AC / DC E Series - EN1175-1 - 150V AC / DC	Up to 600 UL	Up to 600 UL
Contact Barrel Wire Size			
(AWG) - Power Contacts	8 to 4/0		24 to 12
- Auxiliary / Signal Contacts	18 to 10		
(mm ²) - Power Contacts	10 to 120		0.5 to 2.5
- Auxiliary / Signal Contacts	1.5 to 6		
Dielectric Withstanding Voltage (AC)	2,200	2,200	2,200
Mating Cycles- Assembled Part	E Series (No load) >5,000	(No load) 500	(No load) 250
Mating Cycles- Power	5,000	500	250
Mating Cycles- Signal	5,000		
Operating Temperature (°C) ⁽²⁾	-25° to 75° (E)	-40° to 105°	-40° to 125°
- Chemical Resistant	-25° to 105° (A)		
Operating Temperature (°F)	-13° to 167° (E)	-40° to 221°	-40° to 257°
- Chemical Resistant	-13° to 221° (A)		
Housing Style	Wire	Busbar	Wire
Number of Poles - Power	2	1	Up to 13
Number of Poles - Auxiliary	4		Up to 24
Ground			
Touch Safety	IP20 Female ⁽⁹⁾		
Flame Resistance	•	•	•
Environmental Protection			
Mechanically Keyed	•		•
Latching			
Blind Mate		•	•
Hot Plug		•	
Strain Relief	•		
Handle	•		
Air Supply	• (E only)		

 Notes: 1) UL rated for largest wire or cable size up to the maximum operating temperature4) 10,000 based on using silver plated contacts

 2) Contact factory for higher temperature rated connectors
 5) E Series is not UL rated

 3) Ratings using nickel plated tab
 6) On CR (Chemical Resistant) where available

• = Available on select parts

Description The Safe Schede Connector setter, offers the same panel (sotprints as in IEC 60320 Cas) or waterproof high power, similar from 2 rotating auto or rowaterproof high power, similar from 2 rotating auto or waterproof high power, similar form 2 rotating auto rowaterproof high power, similar form 2 rotating auto and 30.0. The MARC B VL (solar or Whind Power The MARC B VL stalking on the NARC B VL and ground interproof high power, similar form 2 rotating auto rowaterproof high power, similar form 2 rotating auto restrict a similar form 2 rotating form restrict a similar form re	SPECIFICATIONS	<u>SAF-D-GRID®</u>	SPEC PAK [®] Sealed Power For Environmental Connnections	MARC Multi Axial Rotational Connector
• If Rack Power Supply Units • Industrial Automation • Marine versupply Units • Personal Mobility • Product Image (representive photo only) Image Contacts Image Contacts Image Contacts • Product Image (representive photo only) Image Contacts Image Contacts Image Contacts • Product Image (representive photo only) Image Contacts Image Contacts Image Contacts • Prover Contacts Image Contacts Image Contacts Image Contacts Image Contacts • Auxiliary Contacts Image Contacts Image Contacts Image Contacts Image Contacts • Voltage Rating (AC/DC) 600 UL / 400 IEC Up to 600 UL Up to 600 UL Image Contacts • Auxiliary Contacts Image Contacts Image Contacts Image Contacts Image Contacts • Auxiliary Signal Contacts 0.75 to 4 0.75 to 16 Image Contacts Image Contacts • Auxiliary Signal Contacts 0.75 to 4 0.75 to 16 Image Contacts Image Contacts • Auxiliary Signal Contacts 0.75 to 100 Image Contacts Image Contacts Image Contacts Image Contacts • Auxiliary Signal Contacts 0.75 to 100 Image Contacts Image Contacts<	Description	series, offers the same panel footprint as an IEC 60320 C13/ C14. It's UL and IEC rated for both AC and DC for up to 400V	nectors, used anywhere a rugged or waterproof high power, signal and ground interconnect solu-	mating from 2 rotating axis or straight on. The MARC is UL listed and rated up to 10,000
(representative photo only)Image: Current Rating (Amperes)Image: Current Rating (Amperes)- Power Contacts (UL) ⁽¹⁾ 30 (IEC Rating 32)16 to 8029- Auxiliary Contacts (UL) ⁽¹⁾ 30 (IEC Rating 32)16 to 8029- Auxiliary Contacts (UL) ⁽¹⁾ 0Up to 600 ULUp to 600 ULContact Barrel Wire Size0Up to 600 ULUp to 600 UL(MXG) - Power Contacts18 to 1020 to 620 to 10- Auxiliary / Signal Contacts0.75 to 40.75 to 16.50 to 4- Auxiliary / Signal Contacts0.75 to 40.75 to 16.50 to 4- Auxiliary / Signal Contacts0.75 to 16.50 to 4.200- Auxiliary / Signal Contacts0.75 to 16.50 to 4.200- Auxiliary / Signal Contacts0.75 to 10.0008 eries Range 250 - 1500(No load) 10,000Mating Cycles - Signal10,000Series Range 250 - 1500(No load) 10,000 ^(h) Mating Cycles - Signal10,0000.200Operating Temperature (*f)-20* to 105*-40* to 105*.40* to 125*- Chemical ResistantImage: Contact Series Range 250 - 1500(No load) 10,000 ^(h) Mumber of Poles - Power2Up to 98Number of Poles - Power2Up to 98Number of Poles - AuxiliaryIEC 60950Flame ResistanceTouch SafetyIEC 60950Flame ResistanceInvironmental Protection- <td< th=""><th>Sample Applications</th><th>IT Rack Power Distribution</th><th> Industrial Automation Marine • Pumps </th><th></th></td<>	Sample Applications	IT Rack Power Distribution	 Industrial Automation Marine • Pumps 	
Power Contacts (UL) ⁽¹⁾ 30 (IEC Rating 32)16 to 8029- Auxiliary Contacts (UL) ⁽¹⁾ 0000Voltage Rating (AC/OC)600 UL / 400 IECUp to 600 ULUp to 600 ULContact Barrel Wire Size0000(AWG) - Power Contacts18 to 1020 to 620 to 10- Auxiliary / Signal Contacts0.75 to 40.75 to 15.50 to 4- Auxiliary / Signal Contacts0.75 to 40.75 to 16.50 to 4- Auxiliary / Signal Contacts0.75 to 40.75 to 16.50 to 4- Auxiliary / Signal Contacts0.75 to 40.75 to 15.50 to 4- Auxiliary / Signal Contacts0.75 to 40.75 to 15.50 to 4Delectric Withkanding Voltage (AC)2.2003.0002.200Mating Cycles - Power5.0001.500 to 1.000 ⁽¹⁾ 1.500 to 1.000 ⁽²⁾ Mating Cycles - Signal0000Operating Temperature (*C) ⁽¹⁾ -4" to 221"-40" to 105"-40" to 125"- Chemical Resistant00000Number of Poles - Power2Up to 988Ground00000Number of Poles - AuxiliaryIEC 60950000I housing StyleIEC 60950000Resistant00000I couch SafetyIEC 60950000I auto Belief0000I auto Beli				
- Auxillary Contacts (UL) ⁽¹⁾ Image: Contacts (UL) ⁽¹⁾ Voltage Rating (AC/OC) 600 UL / 400 IEC Up to 600 UL Contact Barrel Wire Size Image: Contacts 20 to 6 (AWG) - Power Contacts 18 to 10 20 to 6 20 to 10 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 Mating Cycles- Assembled Part (No load) 5,000 Series Range 250 - 1500 (No load) 10,000 Mating Cycles- Signal 10,000 Series Range 250 - 1500 (No load) 10,000 (4) Mating Cycles- Signal 10,000 Series Range 250 - 1500 (No load) 50,000 (4) Operating Temperature (°C) ¹⁰ -20° to 105" -40° to 125" -40° to 125" - Chemical Resistant Image: Contact	Current Rating (Amperes)			
Voltage Rating (AC/DC)600 UL / 400 IECUp to 600 ULUp to 600 ULContact Barrel Wire Size	- Power Contacts (UL) ⁽¹⁾	30 (IEC Rating 32)	16 to 80	29
Contact Barrel Wire SizeImage: Contact Size18 to 1020 to 620 to 10- Auxillary / Signal Contacts18 to 1024 to 12	- Auxiliary Contacts (UL) (1)			
Contact Barrel Wire SizeImage: Contact Size18 to 1020 to 620 to 10- Auxillary / Signal Contacts18 to 1024 to 12				
(AWG) - Power Contacts 18 to 10 20 to 6 20 to 10 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 - Auxillary / Signal Contacts 0.75 to 4 0.75 to 16 .50 to 4 - Auxillary / Signal Contacts 0.75 to 12.5 . . Dielectric Withstanding Voltage (AC) 2,200 3,000 2,200 Mating Cycles- Assembled Part (No load) 5,000 Series Range 250 - 1500 (No load) 10,000 Mating Cycles- Signal 10,000 1,500 to 10,000 (⁴⁰) 1,500 to 10,000 (⁴⁰) Mating Cycles- Signal 10,000 -40° to 105° -40° to 125° - Chemical Resistant - - - Operating Temperature (¹ C) (²¹) -20° to 105° -40° to 221° -40° to 257° - Chemical Resistant - - - - Housing Style Wire to Panel Wire Wire Number of Poles - Power 2 Up to 9 8 Ground - - - Touch Safety IEC 60950 - -	Voltage Rating (AC/DC)	600 UL / 400 IEC	Up to 600 UL	Up to 600 UL
- Auxiliary / Signal Contacts24 to 12(mm²) - Power Contacts0.75 to 40.75 to 16.50 to 4- Auxiliary / Signal Contacts0.50 to 2.5Dielectric Withstanding Voltage (AC)2,2003,0002,200Mating Cycles - Assembled Part(No load) 5,000Series Range 250 - 1500(No load) 10,000 (4)Mating Cycles - Signal10,0001,500 to 10,000 (4).Operating Temperature (*C) (*)-20* to 105*-40* to 105*-40* to 125*- Chemical Resistant10,000Operating Temperature (*F)-4* to 221*-40* to 221*-40* to 257*- Chemical ResistantNumber of Poles - Power2Up to 98.Number of Poles - Power2Up to 98.Number of Poles - Auxiliary.888GroundTouch SafetyIEE 60950Flame ResistanceIatchingBind MateHot PlugIatchingImage: State Contact C	Contact Barrel Wire Size			
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- Chemical Resistant-4° to 221°-40° to 221°-40° to 257°Operating Temperature (*F)-4° to 221°-40° to 221°-40° to 257°- Chemical ResistantWireWireWireHousing StyleWire to PanelWireWireNumber of Poles - Power2Up to 98Number of Poles - Auxiliary888Ground•••Touch SafetyIEC 60950••Flame Resistance•••Environmental Protection•••Mechanically Keyed•••Itatching•••Blind Mate•••Hot Plug•••Handle•••				
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Number of Poles - Auxiliary88Ground•••Touch SafetyIEC 60950••Flame Resistance•••Environmental Protection•••Mechanically Keyed•••Latching•••Blind Mate•••Hot Plug•••Strain Relief•••Hot Plug•••Handle•••	Housing Style	Wire to Panel	Wire	Wire
Ground•••Touch SafetyIEC 60950••Flame Resistance•••Environmental Protection•••Mechanically Keyed•••Latching•••Blind Mate•••Hot Plug•••Strain Relief•••Handle•••	Number of Poles - Power	2	Up to 9	8
Touch SafetyIEC 60950•Flame Resistance•••Environmental Protection•••Mechanically Keyed•••Latching•••Blind Mate•••Hot Plug•••Strain Relief•••Handle•••	Number of Poles - Auxiliary		8	8
Flame Resistance•••Environmental Protection•••Mechanically Keyed•••Latching•••Blind Mate•••Hot Plug•••Strain Relief•••Handle•••	Ground	•		•
Environmental Protection•Mechanically Keyed••Latching••Blind Mate••Hot Plug••Strain Relief••Handle••	Touch Safety	IEC 60950	•	
Mechanically Keyed••Latching••(7)Blind Mate••Hot Plug••Strain Relief••Handle••	Flame Resistance	•	•	•
Latching••Blind Mate••Hot Plug••Strain Relief••Handle••	Environmental Protection		•	
Blind Mate • Hot Plug • • Strain Relief • • Handle • •	Mechanically Keyed	•	•	
Hot Plug • • Strain Relief • • Handle • •	Latching	•	• (7)	
Strain Relief • Handle •	Blind Mate			•
Handle	Hot Plug	•	•	•
And the second	Strain Relief	•		
Air Supply	Handle			
Notes: 7) Solar SPEC Pak®latch complies with NEC 2008 (requires a tool to release)				

Notes: 7) Solar SPEC Pak®latch complies with NEC 2008 (requires a tool to release) 8) When used with Powerpole® Pak accessories
9) Female side only

WHY CHOOSE ANDERSON™

Anderson Power Products[®] is an international leader in the design and development of high quality, cost-effective power interconnect solutions for industries that include: Material Handling, Datacom, Construction, Argriculture, Lawn & Garden and Commercial Industries.

We serve our worldwide customer base from our manufacturing facilities in Sterling, MA, U.S.A., Warrington UK for European customers, as well as three Asia Pacific facilities: Shenzhen, China (manufacturing, sales, and distribution), Shatin N.T., Hong Kong, and Haryana, India (sales and distribution).

Your Best Connection™

THE CONNECTOR EXPERT

Over 100 years as a global leader in designing and manufacturing electrical power products. Anderson offers innovative, state of the art electrical power connector solutions, combined with a long-standing reputation for reliable and rugged connectors.

PARTNERSHIPS

Offering full-service support, ranging from concept sketches, 3D models and working prototypes to full production volumes. As a reliable and responsive partner, you will be guided in selecting the right connector based on your criteria. Engineering expertise, coupled with a safety agency certified team of lab technicians, provide clear and consistent communication and support for the customer's visions.

QUALITY

Exceptional knowledge in understanding safety standards to the markets and global geographic regions. Each region may have different standards & performance requirements for the same application and Anderson can offer advice in understanding which certifications are needed. Exceptionally trained and qualified associates, provide high quality products.

VALUE ADDED

Global customer service, distributors and sales representatives provide exceptional technical and ordering support. Multiple manufacturing and distributor locations allow for a shorter lead time from order placement to receipt of product and helps to control international shipping costs.

Custom Connectors

A leader in Developing and manufacturing high current custom connection systems, built to customer specifications and applications. Our expertise in multiple types of contact technology and molded plastic insulators, allows us to provide reliable and rugged power connectors, built to your needs. <u>Contact your local Sales Representative</u> or call: +1 978-422-3800.

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