

APP

ISO 9001

Anderson Power Products®

Quick Disconnect Power Connectors

"Your Best Connection"

ANPPS00010

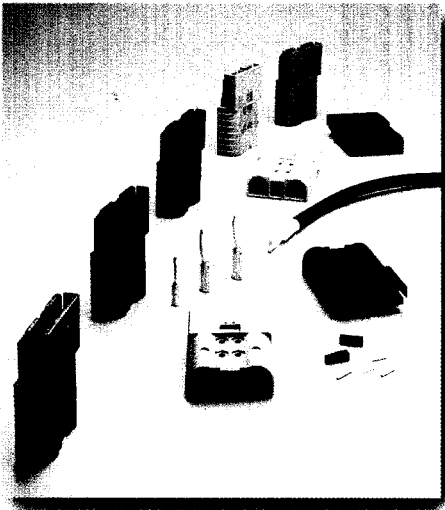
Multipole Connectors

SB® Connectors

SBE® Connectors

SBO™ Connectors

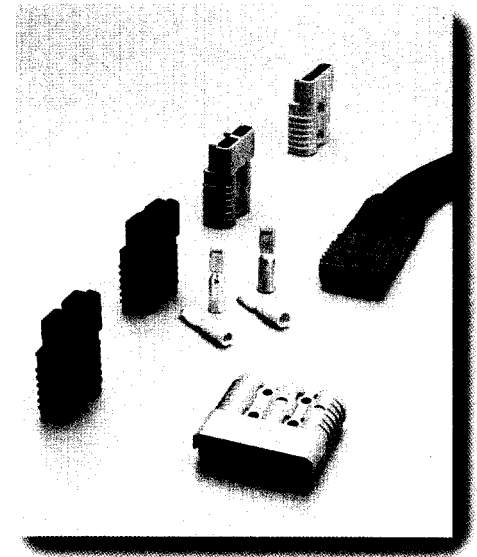
SBX® Connectors



Anderson Power Products® 2 pole connectors are available from 50 to

350 amp ratings for use to 600 Volts continuous AC or DC operation.

Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system. These genderless connectors were invented by Anderson Power Products®.



Applications: UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, EV Chargers and Power Electronics, etc.

- Single-piece housing and unitized construction for two pole connectors provide industrial quality and durability.
- Contoured contacts have self-wiping action.
- Individually replaceable contacts.
- Auxiliary contacts allow for secondary circuits.
- Air supply system (auxiliary connections) supplies air to battery during charge.
- Hot pluggable.

Voltage Key Color Code

Color	Voltage Recommended	Color	Voltage Recommended
Yellow	12V	Green	72V
Orange	18V	Black	80V
Red	24V	Brown	96V
Gray	36V	Purple	120V
Blue	48V		



UL Recognized



CSA Certified

Connector Model	SB50	SB175	SB175 3-Pole	SB350	SBX350	SBE80 SBO60	SBE160	SBE320 SBO320
UL Current Rating (Amperes)*	50*	175*	175*	350*	350*	SBE-80 SBO-60*	160*	320*
UL Voltage Rating (Volts)	600*	600*	600*	600*	600*	SBE-150* SBO-600*	150*	SBE-150* SBO-600*
Contact Barrel Wire Size Accommodation (AWG)*	6 to 16	1/0	1/0	2/0 to 4/0 300 mcm	2/0 to 4/0 300 mcm	SBE-35mm SBO-16mm ²	35 mm 1/0	2/0 to 4/0 2AWG/300mcm
AVG Contact Resistance* (microhms)	200	100	100	50	50	200	100	50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	2200	2200	2200	2200	2200	1300	1300
Maximum Wire Insulation Diameter (Inches)	0.44	0.75	0.75	1.10	1.10	0.44	0.75	1.10
Contact Retention Force (lbs)	50	300	300	500	500	50	300	500
Life								
a. No Load (Connect/Disconnect Cycles)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	50A	75A	75A	100A	100A	60A	75A	100A*
Avg. Connection/Disconnect (lbs)	15	25	35	30	30	15	25	30
Operating Temperature Range °C**	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°
Flammability Rating of Housing Material	UL 94V2 & UL94V0							

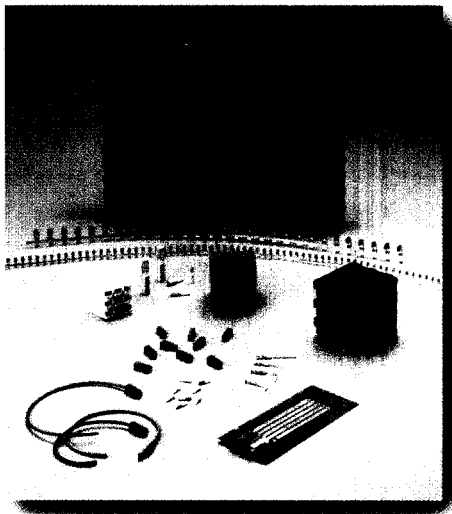
* UL Rated for 65°C rated wire or cable size

** Contact factory for higher temperature rated connectors

SB, SBE and SBX UL and CSA Reference – This equipment is an Underwriters Laboratories Inc.* recognized component. File E26226. It is also listed by the Canadian Standards Association as certified. Report LR25154. SBO Pending at Printing

Powerpole® Modular Connectors

The Anderson Powerpole® Modular Concept



Applications: Electronic, Telecommunications, Office Panels, UPS Systems, Electric Vehicles, Industrial and Much More.

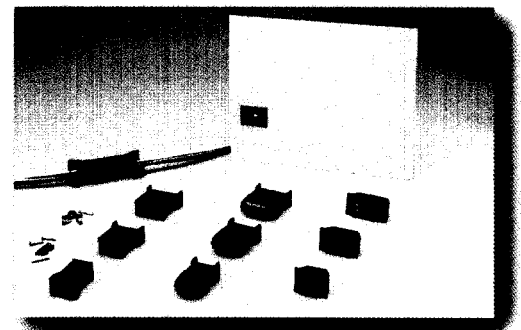
- Genderless Design
- Modular
- Molded in Dovetails
- Hot Pluggable
- Selfwiping Contacts

Invented by Anderson Power Products®, the innovative modular Powerpole® connectors provide cost-effective reliability, design flexibility and mistake-proof capability for your products' manufacture, installation and maintenance.

The housings are interchangeable, genderless interconnects. Insert crimped contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection. Low-detent contacts are also offered for low insertion/withdrawal force applications.

Powerpole® modular connectors are available in 10 to 180 amp maximum ratings for use through 600 Volts continuous, AC or DC operation. There are Powerpoles® for many applications and wire sizes, #20 to 1/0 AWG.

Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products. Powerpoles® are stackable and color-coded for easy customization into multipole blocks with or without mechanical keys and make first-break last contacts.



Powerpole Pak Housings

Outer shell to block our 10 to 45 amp Powerpole® connectors.

- Plugs with a latch
- Plugs without a latch
- Snap-in receptacles
- 2x2 to 2x4 construction



UL Recognized



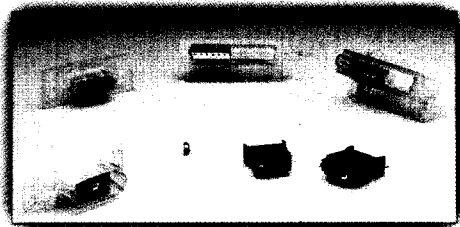
CSA Certified

Connector Model	PP10	PP15	PP30	PP45	PP60	PP75	PP120	PP180
UL Current Rating (Ampere)*	10*	15*	30*	45**	70**	75**	120*	180*
UL Voltage Rating (Volts)***	600*	600*	600*	600*	600*	600*	600*	600*
Contact Barrel Wire Size Accommodation (AWG)*	#14 to #16	#16 to #20	#12 to #16	#10 to #14	#6 to #12	#6 to #16	#2 to #8	1/0 to #10
AVG Contact Resistance* (microhms)	.002200	.000875	.000600	.000525	.000220	.000200	.000136	.000100
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	2200	2200	2200	2200	2200	2200	2200
Maximum Wire Insulation Diameter (Inches)	0.137	0.175	0.175	0.175	0.437	0.437	0.600	0.900
Contact Retention Force (lbs)	25	25	25	35	50	50	100	170
Life								
a. No Load (Connect/Disconnect Cycles)	10,000	10,000	10,000*	10,000	10,000	10,000	10,000	10,000
b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	1.5A	15A	30A	30A	35A	50A	60A	75A
Avg. Connection/Disconnect (lbs)	5	3	3	3	7	7	8	20
Operating Temperature Range °C****	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°
Flammability Rating of Housing Material	UL 94V2 & UL94V0							

* UL Rated for 65°C rated wire or cable size
*** Both AC & DC Voltage

** For 75°C rated wire or cable size
**** Contact factory for higher temperature rated connectors

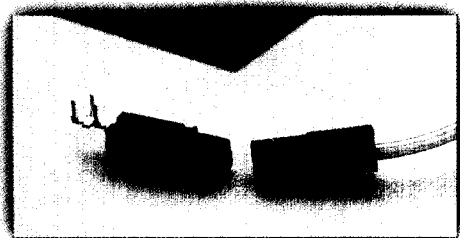
Custom Products



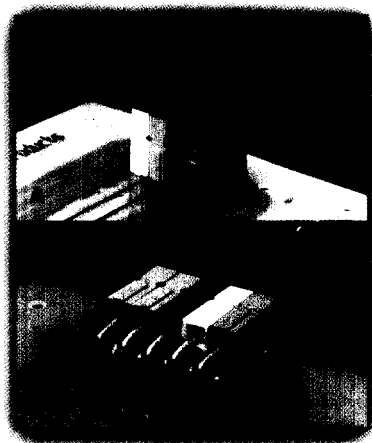
Blind-Mate Powerpole® Systems for Power Electronics

PCB Power Connectors

High-Current Wire-to-Board Powerpole® for power supply

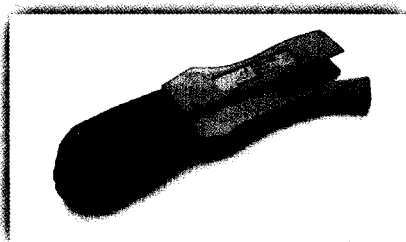


75 Amp



25 Amp
Photo A shows perpendicular mounting.
Photo B shows parallel mounting. Blocks shown are two rows high

Crimp Tooling



Crimp Tooling available for all connector types, loose piece contacts and reel contacts.

- Mechanical Hand Tool
- Hydraulic Heavy Duty
- Light Duty Pneumatic
- Heavy Duty Pneumatic
- Hand (Pictured Above)
- Semi-Automatic Press & Applicator (Pictured Below)

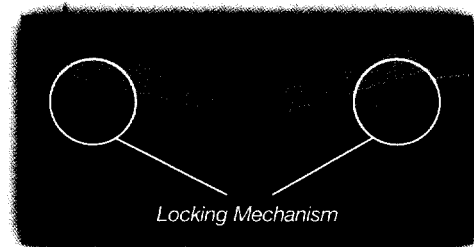


Telecommunication Electronic Applications

Anderson Power Products offers a wide range of products for Telecommunications. Options range from high-power PCB connectors to multipole cable-to-cable and cable-to-panel configurations.

Anderson offers the ability to customize a solution using our 100+ years of experience designing high-power connectors. Anderson's automated processes, coupled with our ISO approved facilities, makes us the perfect vendor to partner with when quality, performance, and delivery are critical.

Locking 75 Amp Powerpole Connector



Locking clips insure the connectors are attached to one another properly, providing a reliable, rugged interconnect.

USA EXECUTIVE OFFICES, SALES, ENGINEERING & MANUFACTURING

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ISO 9001 Certified

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ISO 9002 Certified

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Anderson Power Products®

Agents and Distribution
World Wide