

Anderson Power Products*

uick Disconnect Rower

"Your Best Connection"

ANPPS00010

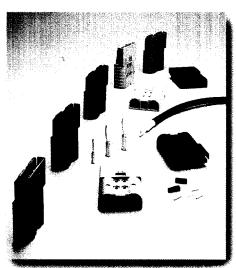
Multipole Connectors

SB[®] Connectors

SBE® Connectors

SBO™ Connectors

SBX® Connectors



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.

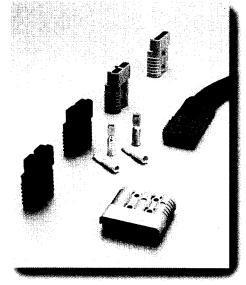
Anderson Power Products® 2 pole connectors are available from 50 to 350 amp ratings for use to 600 Volts continuous AC or DC operation.

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[®].

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) b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	10,000 50A	10,000 75A	10,000 75A	10,000 100A	10,000 100A	10,000 60A	10,000 75A	10,000 100 A*
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							

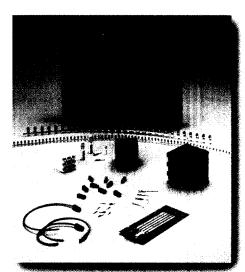
^{*} UL Rated for 65°C rated wire or cable size

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

^{**} Contact factory for higher temperature rated connectors

Powerpole[®] Modular Connectors

The Anderson Powerpole® Modular Concept



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

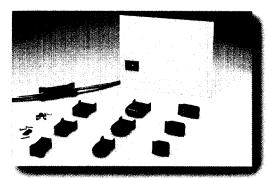
- Genderless Design
- Modular
- · Molded in Dovetails
- Hot Pluggable
- Selfwiping Contacts

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







CSA Certified

Connector Model	PP10	PP15	P RSO	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	.0008 75	,000600	.000525	.000220	.000200	,000136	.000100
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	2200	2 200	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) b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	10,000 1,5A	10,000 15A	10,000°	10,000 30A	10,000 35A	10,000 50A	1 0,00 0 60A	10,000 75A
Ava. 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 1 05°	-20° to 105°	-20° to 105°	-20° to 105°	-20° to 105°
Flammability Rating of Housing Material			Ų	L 94V2 & UL 94	do .			

^{*} 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 connector

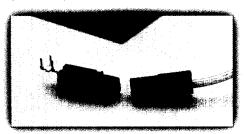
Custom Products



Blind-Mate Powerpole® Systems for Power **Electronics**

PCB Power Connectors

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



75 Amp

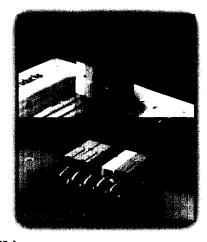
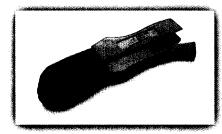


Photo A shows perpendicular mounting. Photo B shows parallel mounting. Blocks shown are two rows high

Crimp Tooling



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

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

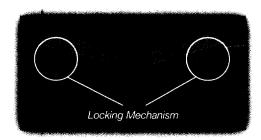


Telecommunication Electronic Applications

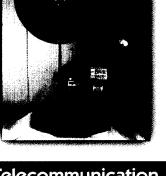
Anderson Power Products offers a wide range of products for Telecommunications. Options range from high-power PCB connectors to multipole cable-to-cable and cable-to-panel configurations.

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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