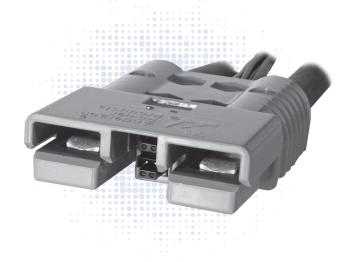
SBE®160 / SBX®175 Connectors - up to 175 Amps



SBX® and SBE® connectors can integrate up to 8 auxiliary power / signal contacts along with the two primary power circuits. SBE® connectors feature an IEC 60950 touch safe housing molded from a chemical resistant PBT/PC blend resin. SBX® are molded from a rugged PC resin and are rated IP20 per IEC 60529.

Touch Safe Interface

Minimizes potential contact with live circuits per IEC 60950 & IEC 60529

- Up to 8 Last Mate / First Break Auxiliaries
 Enables intelligent power switching, CAN and interlock loop circuitry, as well as power up to 20 amps per pole
- Color-coded Mechanical Voltage Keys
 Like all Multipole connectors, the SBE® and SBX® offer an
 easy way to identify circuits and protect against cross mating

| SBE®160 / SBX®175 ORDERING INFORMATION |

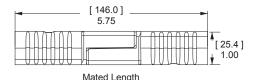
SBE®160 / SBX®175 Housings

The middle size of SBE®, X, O style housing. SBE® housings are molded from a chemical resistant PBT. SBX® housings are molded from PC. SBE®160 and SBX®175 housings of the same Voltage Color Code can be mated (except yellow) but is not recommended as it invalidates UL approvals. SBX®175 housings do not meet EN1175-1 requirements for industrial trucks.

Description	- SBE®160 P	art Numbers -	- SBX®175 P	art Numbers -
Minimum Quantity	100	25	100	25
Yellow	2-8170G4	E6383G1	2-7251G4	6383G1
Orange	2-8170G3	E6382G1	2-7251G3	6382G1
Red	2-8170G5	E6385G1	2-7251G5	6385G1
Gray	2-8170G1	E6380G1	2-7251G1	6380G1
Blue	2-8170G2	E6381G1	2-7251G2	6381G1
Green	2-8170G7	E6390G1	2-7251G7	6390G1
Black	2-8170G14	E6392G1	N/A	N/A

^{*} Yellow SBE®160 and SBX®175 housings are NOT intermateable.

Top View [28.6] [49.2] 1.94 [71.2] 2.80 [92.1] 3.63

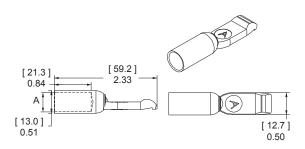


SBE®160 / SBX®175 Silver Plated Primary Power Wire Contacts

Use two silver plated contacts per housing for the best electrical performance and durability up to 10,000 mating cycles. See reducing bushings in accessory section for smaller wires.

				Dimen	sions
				- A	-
AWG	mm²	- Loose Piece	Part Numbers -	inches	mm
Minin	num Quantity	500	50		
1/0	50	6384G1-BK	6384G1 *	0.44	11.1
2	35	6384G2-BK	6384G2 *	0.38	9.7

^{*} Sold as pairs. 2 parts shipped for every 1 part ordered.



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| SBE®160 / SBX®175 CONNECTOR SPECIFICATIONS |

Electrical Current Rating Amperes ¹ SBX175 SBE160 Primary Power (1/0 AWG) 175 160 Powerpole® Auxiliary (12 AWG) 20 20 1x4 Auxiliary (12 AWG) 20 20 PPMX Auxiliary (20 AWG) 7 UL 5 CSA Voltage Rating AC/DC UL 1977 EN1175-1 Primary Power 600 150 ⁴ 150 ⁴ 150 ⁴ 200 Powerpole® Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A 1x4 Auxiliary 5A			
Primary Power (1/0 AWG) 175 160 Powerpole® Auxiliary (12 AWG) 20 20 1x4 Auxiliary (12 AWG) 20 20 PPMX Auxiliary (20 AWG) 7 UL 5 CSA Voltage Rating AC/DC Primary Power 600 150 4 Powerpole® Auxiliary 600 150 4 150 4 200 PPMX Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power Power 75A Powerpole® Auxiliary 30A	Electrical		
Powerpole® Auxiliary (12 AWG) 20 20 1x4 Auxiliary (12 AWG) 20 20 20 PPMX Auxiliary (20 AWG) 7 UL 5 CSA	Current Rating Amperes ¹	SBX175	SBE160
1x4 Auxiliary (12 AWG) 20 20 PPMX Auxiliary (20 AWG) 7 UL 5 CSA Voltage Rating AC/DC UL 1977 EN1175-1 Primary Power 600 150 ⁴ Powerpole® Auxiliary 200 150 ⁴ 1x4 Auxiliary 200 150 ⁴ PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Primary Power (1/0 AWG)	175	160
PPMX Auxiliary (20 AWG) 7 UL 5 CSA Voltage Rating AC/DC UL 1977 EN1175-1 Primary Power 600 150 ⁴ Powerpole® Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Powerpole® Auxiliary (12 AWG)	20	20
Voltage Rating AC/DC UL 1977 EN1175-1 Primary Power 600 150 ⁴ Powerpole® Auxiliary 600 150 ⁴ 1x4 Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	1x4 Auxiliary (12 AWG)	20	20
Primary Power 600 150 ⁴ Powerpole® Auxiliary 600 150 ⁴ 1x4 Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	PPMX Auxiliary (20 AWG)	7 UL	5 CSA
Powerpole® Auxiliary 600 150 4 1x4 Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 1 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Voltage Rating AC/DC	UL 1977	EN1175-1
1x4 Auxiliary 200 PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 1 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Primary Power	600	
PPMX Auxiliary 300 Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 1 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Powerpole® Auxiliary	600	150 ⁴
Dielectric Withstanding Voltage Primary Power Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 1 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A			
Volts AC 2,200 Avg. Mated Contact Resistance Milliohms 1 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	PPMX Auxiliary	300	
Avg. Mated Contact Resistance Milliohms ¹ 6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Dielectric Withstanding Voltage Primary Pov	wer	
6" of 1/0 AWG wire 0.100 UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Volts AC	2,200	
UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC Power 75A Powerpole® Auxiliary 30A	Avg. Mated Contact Resistance Milliohms ¹		
Power 75A Powerpole® Auxiliary 30A	6" of 1/0 AWG wire	0.100	
Powerpole® Auxiliary 30A	UL Hot Plug Current Rating Amperes - 250 c	ycles at 120V D	С
	Power	75A	
1x4 Auxiliary 5A	Powerpole® Auxiliary	30A	
	1x4 Auxiliary	5A	

1x4 Auxiliary	5A
Materials	
Housing SBX® and Powerpole® Plastic Resin SBE® and 1x4 Auxiliary Housing Contact Retention Spring	Polycarbonate Polycarbonate / PBT blend Stainless Steel
Housing Flammability Rating UL94 Glow Wire - SBE160 Only	V-0 960°C (GWFI) / 850°C (GWIT)
Power & Powerpole® Contact	Silver Plated Copper Alloy
1x4 Auxiliary Contacts Pin Socket Socket Body Retention Clip	Copper alloy, Au over Ni BeCu, Au over Ni Copper alloy, Sn bright over Ni Stainless Steel
PPMX Contacts	Gold Plated Copper Alloy
Contact Termination Methods Crimp ³ Hand Solder	

Mechanical		
Wire Size Range Power Contacts Auxiliary Contacts	AWG 10 to 1/0 24 to 10	mm ² 5.3 to 53.5 0.25 to 5.3
Max. Wire Insulation Diameter Power Contacts Powerpole® Auxiliary 1x4 Auxiliary	in. 0.600 0.175 0.140	mm 15.200 4.450 3.600
Operating Temperature ² SBX® and SBE® Housings	°F -4° to 221°	°C -20° to 105°
Mating Cycles No Load by Plating Power Contacts Powerpole® Auxiliary 1x4 Auxiliary PPMX Auxiliary	Silver (Ag) 10,000 10,000	Gold (Au) 10,000 5,000
Avg. Mating / Unmating Force Main Connector Housing Per Powerpole® Connector Per Contact in 1x4 Auxiliary Per PPMX Housing	Lbf. 30 5.00 0.70 4.50	N 134 22.00 3.00 20.00
Min. Contact / Spring Retention Force Power Standard Housing Powerpole® Housing 1x4 Auxiliary Housing PPMX Housing	Lbf. 120 25 10 12	N 533.7 111 44.5 53

NOTE 1: See IEC 60664-1 for working voltage.

NOTE 2: Amp ratings are stated per position and based on all positions being fully loaded.

- ¹ Based on: 105°C rated or better cable of the largest size, Properly calibrated APP recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.
- $^{\rm 2}$ Limited by the thermal properties of the connector plastic housing.
- ³ Use APP recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.
- 4 Voltage capability of SBE® housing is identical to SBX®, but derated to meet EN1175-1 requirements.









| IEC INFORMATION |

Connector Series	Configurations	Creepage/Clearance per IEC 60950-1	Material Group	
SBE®160	Unmated	6.1 mm	Illa	
SBE®100	Mated	11.6 mm	ıııa	

Attributes	SBE160
AMP Rating AC/DC	160 Amp
Voltage Rating AC/DC (Steady State)	600 V AC/DC (Operational)
Breaking Capacity -AMP Rating /Cycles	160 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC
FINGER Safety - Mated/Unmated	IEC 60529 - IP20
Wire Size tested	50 mm²
Contact Series Tested	6384G1
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test -11j, 11i & 11g,
Cycle Life	IEC 60512 Test 9a - 5000 Cycles
Mechanical Strenght Impact	IEC 60512-5 @ 29.5 Inches - dropped 8 times
Temperature Range	-20 °C to 105 °C
	-4 °F to 221 °F

Protection

 Touch Safety Main Connector Housing

 IEC 60950
 SBE®160 Only
 Pass

 IEC 60529
 SBX®175 Only
 IP20

NOTE 3: Refer to the Constructional Data form for additional information on our website., www.andersonpower.com



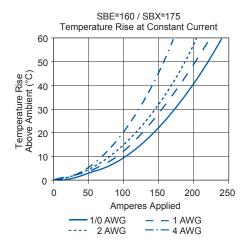


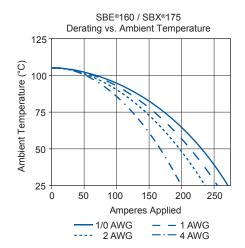
| SBE®160 / SBX®175 CONNECTOR TEMPERATURE CHARTS|

Temperature rise charts are based on a 25°C ambient temperature.

For Temperature Rise Above 60°C, Consult the Extended Temperature Rise Charts in the Appropriate Product Section on the Website.

Current - Temperature Derating per IEC 60512-5-2 Test 5B





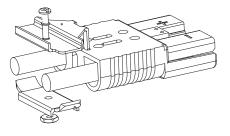
| SBE®160 / SBX®175 ACCESSORIES |

Cable Clamps

Durable metal clamps adapt to a wide range of cable sizes.

	Cable Siz		
	Min / Max		
Description	Inches O.D.	mm O.D.	- Part Number -
Minimum Quantity			25
Cable Clamp Kit	0.62 to 0.22	15.7 to 5.6	945G2

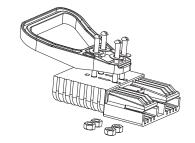
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.



Handles

Handles are made out of durable PC plastic. Hardware to attach to connector body included in kits.

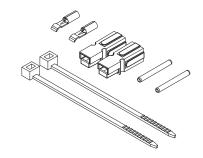
Description	Part Numbers -	
Minimum Quantity	100	25
Gray Handle Kit	995G1-APP	995G1
Red Handle Kit	995G3-APP	995G3
Handle Only, Gray	3-5074P1	-
Handle Only, Red	3-5074P3	-
Handle Only, Black	3-5074P5	-
Hardware Bag	-	105G8



Powerpole® Auxiliary

Powerpole® auxiliary connectors are rated up to 30 amps 600 volts and can be used for auxiliary power, control or sensing. The auxiliary kit includes (1) each black and red Standard Powerpole® housing, (2) contacts, (2) zip cable straps, and (2) retaining pins. (1) Retaining clip can be Substituted for (2) retaining pins.

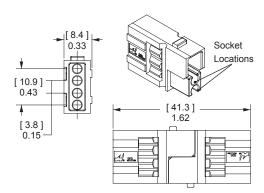
Description	Part Nu	ımbers
Minimum Quantity	200	25
Powerpole® Auxiliary Kit	-	6344
Black Powerpole® Housing	1327G6	-
Red Powerpole® Housing	1327	-
#16 to #12 Contact	1331	-



1x4 Auxiliary Connector

The unique 1x4 auxiliary connector allows up to 4 auxiliary circuits up to 20 amps 150 volts each in SBE®, SBO®, & SBX® housings. The genderless design holds two each of the gold plated pin & socket contacts. This innovation allows the very durable and cost effective design of SBE®, O, X connectors to substitute for DIN 43589-1 applications where 4 auxiliary contacts are required. Multiple pin lengths allow the further benefit of sequencing between circuits. (2) Retaining pins or (1) Retaining clip is required to hold the auxiliary housing in place. Auxiliary Kits include (1) Auxiliary Housing, (2) Standard Length Pin Contacts, (2) Socket Contacts, (2) Retaining Pins and (1) Retaining Clip.

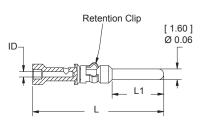
Description	AWG	mm²	Pa	rt Number	's
Minimum Quantity			1,000	250	25
1x4 Auxiliary Kit	12	4	-	-	441G3
1x4 Auxiliary Kit	16 to 14	1.5 to 2.5	-	-	441G1
1x4 Auxiliary Kit	20 to 16	0.75 to 1.5	-	-	441G2
1x4 Auxiliary Housing	Contacts S	Sold Separately	3-5956P1	444G1	-



Pin Contacts for 1x4 Auxiliary Connector

Gold plated contacts are available in 4 lengths to allow sequencing of circuits.

Description	AWG	mm²	Part Numbers	
Minimum Quantity			500	50
Standard Length 7.7mm	12	2.5	PM16P12S30	PM16P12S30-50
	16 to 14	1.0 to 1.5	PM16P1416S30	PM16P1416S30-50
	20 to 16	0.75 to 1.0	PM16P1620S30	PM16P1620S30-50
	24 to 20	0.50 to 0.75	PM16P2024S30	PM16P2024S30-50
Pre-Mate 9.3mm	12	2.5	PM16P12A30	-
	16 to 14	1.0 to 1.5	PM16P1416A30	-
	20 to 16	0.75 to 1.0	PM16P1620A30	-
	24 to 20	0.50 to 0.75	PM16P2024A30	-
Post-Mate 6.4mm	12	2.5	PM16P12C30	-
	16 to 14	1.0 to 1.5	PM16P1416C30	-
	20 to 16	0.75 to 1.0	PM16P1620C30	-
	24 to 20	0.50 to 0.75	PM16P2024C30	-

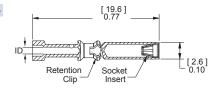


Auxiliary Pin	- L -		- L1 -	
Contact Lengths	in.	mm	in.	mm
Standard Length 7.7mm	0.77	19.6	0.30	7.7
Pre-Mate 9.3mm	0.83	21.2	0.37	9.3
Post-Mate 6.4mm	0.72	18.3	0.25	6.4

Socket Contacts for 1x4 Auxiliary Connector

Selectively gold plated contacts offer low resistance and durability up to 10,000 mating cycles.

Description	AWG	mm²	Pa	art Numbers
Minimum Quantity			500	50
Socket Contact	12	2.5	PM16S12S32	PM16S12S32-50
	16 to 14	1.0 to 1.5	PM16S1416S32	PM16S1416S32-50
	20 to 16	0.75 to 1.0	PM16S1620S32	PM16S1620S32-50
	24 to 20	0.50 to 0.75	PM16S2024S32	PM16S2024S32-50



Auxiliary Socket Contacts Crimp Barrel ID						
Wire Gauge	in.	mm.				
#24 / 20	0.04	1.1				
#20 / 16	0.07	1.7				
#16 / 14	0.08	2.1				
#12	0.10	2.6				

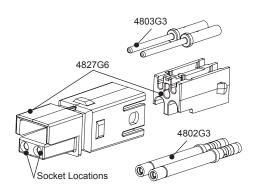
PPMX Auxiliary Connector

The PPMX auxiliary connector allows up to 8 auxiliary circuits to be used in the SBE®, SBO®, & SBX® housings. There are 4 auxiliary circuits per PPMX connector and two PPMX housings fit into the auxiliary port in the main connector housing. Rated up to 7 amps 300 volts per contact, the genderless design holds two each gold plated pin & Socket contacts. This innovation allows the very durable and cost effective design of SBE®, O, X connectors to be used for applications requiring up to 8 battery monitoring or equipment vehicle communication circuits. (2) Retaining pins or (1) Retaining clip is required to hold the auxiliary housing in place.

Auxiliary Kits includes: (1) Auxiliary Housing, (2) Pin Contacts, and (2) Socket Contacts.

Description	AWG	mm²	Par	t Numbers	
Minimum Quantity			1,000	100	25
PPMX Auxiliary Kit	24 to 20	0.50 to 0.25	-	4850G6	-
1x4 Auxiliary Housing	Contacts	Sold Separately	4827G6-BK	-	4827G6

^{*} No extraction tool required for contact removal.



Pin & Socket Contacts for PPMX Auxiliary Connector

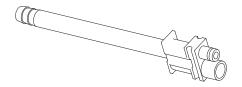
Gold plated contacts are ideal for signal or low power use with durability up to 5,000 mating cycles.

Description	AWG	mm²	Part Num	bers
Minimum Quantity			2,000	50
Pin Contacts	24 to 20	0.50 to 0.25	4803G3-BK	4803G3
Socket Contacts	24 to 20	0.50 to 0.25	4802G3-BK	4802G3

SBE® Air Tubes

Air tubes fit into SBE® housings to allow electrolyte circulation while charging the battery. Genderless tube design allows the same part to be used on both sides. (2) Retaining pins or (1) Retaining clip is required to hold the air tube in place. Retaining pins are included in Air Tube Kit.

Description	Part Numbers			
Minimum Quantity	500	25		
Air Tube Kit, Black	-	6396G1		
Air Tube Only	3-5798P1	_		



Retaining Clip

Retaining clips can be used in place of two retaining pins to hold auxiliary connectors or air tubes. Allows easier removal of auxiliary modules.

Description	- Part Number -
Minimum Quantity	100
For SBE®160 & SBX®175	2-8675P2

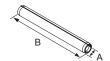




Retaining Pins

Retaining pins are used to hold accessories in the auxiliary port in SBE $^{\circ}$, SBO $^{\circ}$, & SBX $^{\circ}$ housings. Dimension "B" is +/- 0.015 in or 0.38 mm.

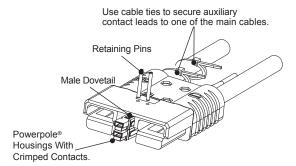
			- A -		- E	3 -
Description	Part Numbers		inches	mm	inches	mm
Minimum Quantity	1,000	100				
For SBE®160 & SBX®175	110G9-BK 110G9		0.093 / 0.099	2.36 / 2.51	0.85	21.59



Zip Cable Straps

Zip cable straps are used to secure auxiliary wires to the side of the main power cables.

Description	- Part Number -		
Minimum Quantity	1,000		
White	H1835P3		



Manual Release - Battery Side

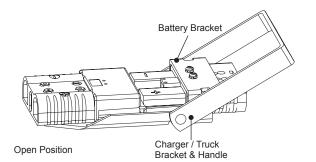
Works with the Charger / Truck side to ease mating and unmating connectors.

Description	Part Numbers				
Minimum Quantity	88	25			
Bracket and Hardware Kit	-	993G2			
Battery Bracket Only	111961P2	-			
Hardware Bag	-	105G1			

Manual Release - Charger / Truck Side

Works with the Battery side to ease mating and unmating connectors.

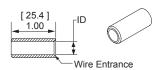
Description	Part Numbers			
Minimum Quantity	60	25		
Bracket and Hardware Kit	-	994G2		
Bracket / Lever Only	B00511G2	-		
Hardware Bag	-	105G1		



Reducing Bushings: for Use with Contact # 6384G1

Use with contact part number 6384G1-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

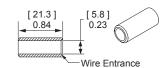
						D:	.:
						Dimens	sions
						- ID) -
Contacts Barrel Size	Wire Size		- Part Numb	oers		inches	mm
Minimum Quantity		1,500	1,000	500	100		
1/0 AWG [53.5 mm ²]	#1 AWG [42.4 mm ²]	-	-	5687-BK	5687	0.39	9.91
1/0 AWG [53.5 mm ²]	#2 AWG [33.6 mm ²]	5690-BK	-	-	5690	0.34	8.64
1/0 AWG [53.5 mm ²]	#4 AWG [21.2 mm ²]	-	5693-BK	-	5693	0.27	6.86
1/0 AWG [53.5 mm ²]	#6 AWG [13.3 mm ²]	-	5663-BK	-	5663	0.22	5.59
1/0 AWG [53.5 mm ²]	#10 - 8 AWG [5.3 - 8.4 mm ²]	5648-BK	-	-	5648	0.19	4.83



Reducing Bushings: for Use with Contact # 6384G2

Use with contact part number 6384G2-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

Contact Barrel Size	Wire Size	Part Numbers			
Minimum Quantity	1,000	100			
35 mm ²	16 mm²	5920-BK	5920		



SBO® / SBE® / SBX® - Tooling Information

Wire Size		Loose Piece Part Numbers	Loose Piece Contact Crimp Tool						
AWG	mm²	Contacts	Pneumatic Bench Tool	+ Die	+ Locator	Number of Crimps o	r Hand Tool		
SBE® 320 / SBX® 350									
300 MCM	152	6358	N/A	N/A	N/A	N/A	1368		
4/0 AWG	107.2	6356		1303G12	1304G28	Double			
3/0 AWG	85	6355	1387G2						
2/0 AWG	67.4	6354							
#2	N/A	6394		1303G2	1304G28		Series		
N/A	95 mm²	1341G3		1303G17	1304G35	Double			
N/A	70 mm²	1341G2	1387G2	1303G12	1304G34				
N/A	50 mm²	1341G1		1303G8	1304G36				
SBE® 160 / SBX® 175									
1/0 AWG	53.5	6384G1 6384G2	1387G2	1303G2	1304G13		1368 Series		
			1387G1	1388G3	1389G3				
#2	2 35 mm²		1387G2	1303G2	1304G13				
SBO® 60 / SBE® 80									
#4	25	1339G4	100701	1388G7	1389G9	Single	N/A		
#6	16	1339G1	1387G1	1388G6			1309G4		
Powerpole® 15/45 Auxiliary Contacts **									
#16 / 20	1.3 / .52	1332	N/A	N/A	N/A	Single	1309G2 or		
#12 / 16	3.3 / 1.3	1331	IN/A				1309G8		
PowerMod® 1x4 Auxiliary Contacts									
#12 / 24	2.5 / .25	All Crimp Pins	TP0001*	N/A	TL0001	Single	TM0001*		
		All Crimp Sockets	TPUUUT"		TL0002		PM1000G1		
PPMX Auxiliary Contacts									
#20 / 24	0.50 / 0.25	4803G3	TP0001*	N/A	TL0005	Single	TM0001* or		
		4802G3	11 0001				PM1000G1		

^{*} TP0001 and TM0001 tools require locators to properly position contacts.

SBE®160 / SBX®175 Power Contact Extraction Tool: 969P1 SBE®320 / SBX®350 Power Contact Extraction Tool: 970P1 1 x 4 Auxiliary contact Insertion Tool: PM1002G1 1 x 4 Auxiliary Contact Extraction Tool: PM1003G1

The auxiliary contacts used with wire sizes #16 - #24 AWG cannot be properly inserted without the insertion tool. Properly installed auxiliary contact of all wire gauges cannot be removed from the housing without the extraction tool.

^{**} See Powerpole® family tooling chart for other Powerpole® contacts