SBE®320 / SBX®350 Connectors

- up to 550 Amps



SBE® and SBX® connectors can integrate up to 8 auxiliary power / signal contacts along with the two primary power circuits. Sequencing within auxiliary positions is possible using the 4 pin lengths available in the 1x4 auxiliary connector. SBE® and SBX® offer touch safe housings.

- Silver Plated Wire Contacts up to 350 mcm (185 mm²) Allows low resistance UL rated currents up to 350 amps per pole
- Up to 8 Auxiliaries

Enables intelligent power switching, CAN and interlock loop circuitry, as well as power up to 20 amps per pole. Auxiliaries are all Last-mate/First-break relative to power contacts.

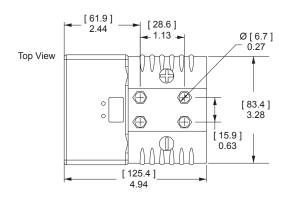
 Durable Housings and Contacts Like all Multipole connectors, the silver plated power contacts are rated up to 10,000 mating cycles

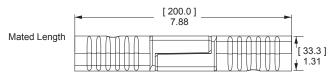
SBE®320 / SBX®350 ORDERING INFORMATION |

SBE®320 / SBX®350 Housings

The largest size of SBE®, X, O style housing. SBE® housings are molded from a chemical resistant PBT. SBX® housings are molded from PC. SBE®320 and SBX®350 housings of the same Voltage Color Code cannot be mated. SBX®350 housings do not meet EN1175-1 requirements for industrial trucks.

| Description | - SBE®320 | Part Numbers - | - SBX®350 | Part Nui | mbers - |
|------------------|-----------|----------------|-----------|----------|---------|
| Minimum Quantity | 100 | 25 | 100 | 25 | |
| Yellow | 2-8171G6 | E6362 | 2-7249G6 | 6362 | |
| Orange | 2-8171G7 | E6339 | 2-7249G7 | 6339 | |
| Red | 2-8171G3 | E6352 | 2-7249G3 | 6352 | |
| Gray | 2-8171G1 | E6350 | 2-7249G1 | 6350 | |
| Blue | 2-8171G2 | E6351 | 2-7249G2 | 6351 | |
| Green | 2-8171G4 | E6353 | 2-7249G4 | 6353 | |
| Black | 2-8171G5 | E6361 | 2-7249G5 | 6361 | |
| Brown | 2-8171G8 | E6336 | N/A | N/A | |
| Purple | 2-8171G9 | E6349 | N/A | N/A | |



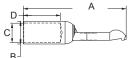


SBE®320 / SBX®350 Silver Plated Primary Power Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles. See reducing bushings in accessory section for smaller wires.

| | | | | | Dimensions | | | | | | | |
|----------------|-----------|-------------|--------------|--------|------------|-------|----------|-------|-------|-------|--------|-------|
| | | | | | - A | ۸ - | - | B - | - (| C - | - [|) - |
| AWG | mm² | - Loose Pie | ece Part Num | bers - | inches | s mm | inches | mm | inche | s mm | inches | mm |
| Minimum Qua | antity | 200 | 150 | 50 | | | | | | | | |
| 300/350 mcm | 150 | - | 6358-BK | 6358 * | 3.03 | 76.96 | 0.88 | 22.20 | 0.75 | 19.05 | 1.25 | 31.80 |
| 4/0 | 120 | 6356-BK | - | 6356 * | 3.10 | 78.74 | 0.75 | 19.05 | 0.64 | 16.26 | 1.25 | 31.80 |
| 3/0 | 95 | 6355-BK | - | 6355 * | 3.10 | 78.74 | 0.70 | 17.78 | 0.58 | 14.73 | 1.25 | 31.80 |
| 2/0 | 70 | 6354-BK | - | 6354 * | 3.10 | 78.74 | 0.64 | 16.26 | 0.49 | 12.45 | 1.25 | 31.80 |
| 2 | 35 | 6394-BK | - | 6394 * | 3.10 | 78.74 | 0.51 | 12.95 | 0.38 | 9.50 | 1.25 | 31.80 |
| | | | | ~ | | l- | | Α _ | -1 | | | |
| * Sold as pair | s. 2 part | s shipped | | | \gg | D - | - | Λ _ | | | | |
| for every 1 | nart orde | red | | | V | | <u>i</u> | | | | | |







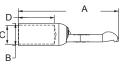
© 2019 Anderson Power Products, Inc. All rights reserved. APP®, Anderson Power Products®, A®, SBE®, SBO®, SBX®, PowerMod®, Powerpole® and the APP Logo are registered trademarks of Anderson Power Products, Inc.



SBE®320 DIN Standard Silver Plated Primary Power Wire Contacts

Crimp barrel O.D. are compliant with DIN standard tooling. Will also fit into SBX®350 housings. Not recommended for cross mating with above typical contacts for SBE® & SBX®.

| | | | | Dimensio | | | sions | | | | |
|-------------|---------------|-----------|----------|----------|-------|--------|-------|--------|-------|--------|-------|
| Loose Piece | | iece | - A | \ - | - B | - | - C | : - | - D |) - | |
| AWG | mm² | Part Num | bers | inches | mm | inches | mm | inches | mm | inches | mm |
| Minim | um Quantity . | 200 | 50 | | | | | | | | |
| 3/0 | 95 | 1341G3-BK | 1341G3 * | 2.89 | 73.41 | 0.78 | 19.81 | 0.59 | 14.99 | 0.94 | 23.88 |
| 2/0 | 70 | 1341G2-BK | 1341G2 * | 2.74 | 69.60 | 0.68 | 17.27 | 0.51 | 12.95 | 0.79 | 20.07 |
| 1/0 | 50 | 1341G1-BK | 1341G1 * | 2.65 | 67.31 | 0.57 | 14.48 | 0.43 | 10.92 | 0.79 | 20.07 |





| SBE®320 / SBX®350 CONNECTOR SPECIFICATIONS |

| Electrical | SBX® | & SBE® | SBE® Only |
|---------------------------------|------------|--------|-----------|
| Current Rating Amperes 1 | UL | CSA | EN1175-1 |
| Primary Power (350 MCM) | 550 | 350 | 320 |
| Powerpole® Auxiliary (12 AWG) | 20 | 20 | N/A |
| 1x4 Auxiliary (12 AWG) | 20 | 20 | N/A |
| PPMX (20 AWG) | 5 | 5 | N/A |
| Voltage Rating AC/DC | | | |
| Primary Power (350 MCM) | - 60 | 0 - | 150 4 |
| Powerpole® Auxiliary (12 AWG) | - 60 | 0 - | 150 4 |
| 1x4 Auxiliary (12 AWG) | - 60 | 0 - | N/A |
| PPMX (20 AWG) | - 60 | 0 - | N/A |
| Dielectric Withstanding Voltage | | | |
| Volts AC | 2,200 | | |
| * Average Mated Contact Resista | nce millio | ohms | |
| 2 1/2 " 350 MCM | 0.05 | | |

| Materials | | |
|---|--------------------------|------------------------------|
| Housings | | |
| SBX® and Powerpole® Auxiliary Housings | Polycarbonate | |
| SBE®, PPMX and 1x4 Auxiliary Housings | Polycarbonate/PBT bler | nd |
| Housing Flammability Rating | UL | IEC (SBE® only |
| SBX®/SBE® | 94 V-0 | 960°C (GWFI) 850°C (GWIT) |
| Contact Materials | | |
| Power Contacts | Au plated copper | |
| Powerpole® Auxiliary | Au or Sn - copper alloy | |
| 1x4 Auxiliary Contacts | | |
| Pin | Au over NI - copper allo | w |
| Socket | Au over NI - BeCu | |
| Socket Body | Sn over Ni, copper alloy | |
| Retention Clip | Stainless steel | |
| PPMX Contacts | Gold plated copper alloy | / |
| * Not UL rated | | |
| Contact Terminations 3 - Crimp or F | Hand Solder | |

| Note | 1: | See | IEC60664-1 | tor | working | voltage | |
|------|----|-----|------------|-----|---------|---------|--|
| | | | | | | | |

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

| Mechanical | | |
|--|---------------|-----------------|
| Wire Size Range | AWG | mm² |
| Power Contacts | 1/0 - 350 MCM | 53.5 to 185 mm² |
| Auxiliary Contacts | 24 -10 AWG | 0.25 to 5.3 |
| Max Wire Insulation Diameter | in | mm |
| Power Contact | 0.82 * | 20.8 * |
| Powerpole® Auxiliary | 0.175 | 4.45 |
| 1x4 Auxiliary | 0.14 | 3.6 |
| PPMX Auxiliary | 0.09 | 2.29 |
| Operating Temperature ² | °F | °C |
| SBX [®] Housing with all Auxiliary | -4 to 221 | -20 to - 105 |
| SBE® Housing | -40 to 221 | -40 to 105 |
| SBX [®] Housing with Powerpole [®] Auxiliary Housings | -4 to 221 | -20 to - 105 |
| SBE® Housing with 1x4 and PPMX Auxiliaries | -40 to 221 | -40 to 105 |
| Mating Cycles | Silver / Tin | Gold |
| Power Contacts | 10,000 | N/A |
| Powerpole® Auxiliary | 10,000 / 1500 | N/A |
| 1x4 Auxiliary | N/A | 10,000 |
| PPMX Auxiliary | N/A | 5,000 |
| Average Mating | LBF | N |
| Main Connector Housing | 37 | 165 |
| Per Powerpole® Connector | 5 | 22 |
| Per 1x4 Auxiliary Housing | 0.7 | 3 |
| Per PPMX Housing | 4.5 | 20 |
| Min Contact/Spring Retention Force | 150 | 667 |
| Powerpole® Housing | 25 | 111 |
| 1x4 Auxiliary Housing | 10 | 44.5 |
| PPMX Housing | 12 | 53 |
| Min Contact/Spring Retention Force | 150 | 667 |
| Powerpole® Housing | 25 | 111 |
| 1x4 Auxiliary Housing | 10 | 44.5 |
| PPMX Housing | 12 | 53 |
| 1x4 Auxiliary Housing | 10 | 44.5 |
| DDMY Housing | 10 | E2 |



PPMX Housing









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

^{1 -} Based on 195°C rated or better cable of the largest size. Properly calibrated APP® recommended tooling and 25°C ambient temperature

^{2 -} limited by thermal properties of the connector plastic housing

^{3 -} USE APP® recommended tooling only. Alternate tools may adversely affect performance of our connectors along with UL and CSA recognition

^{4 -} Voltage capability of SBE® housings is identical to SBX® but derated to meet EN1175-1 requirements

^{*} Refer to assembly instructions for using 300 MCM and 350 MCM wire

| IEC INFORMATION |

| Connector Series | Configurations | Creepage/Clearance per IEC 60950-1 | Material Group |
|---------------------|----------------|---------------------------------------|-------------------|
| SBE®320 | Unmated | 5.6 mm | IIIo |
| 3DE®320 | Mated | 24.7 mm | IIIa |

| IEC Attributes | SBE320 |
|--|---|
| AMP Rating AC/DC | 320 Amp |
| Voltage Rating AC/DC (Steady State) | 600 V AC/DC (Operational) |
| Breaking Capacity - AMP Rating /Cycles | 275 Amp / 10 Cycles |
| Voltage Rating (Breaking Capacity) | 220 VDC |
| FINGER Safety - Mated/Unmated | IEC 60529 - IP20 |
| Wire Size Tested | 120 mm² |
| Contact Series Tested | 6356 |
| Climatic Testing (Cold,Heat & MFG) | IEC 60512 Test -11j, 11i & 11g, |
| Cycle Life | IEC 60512 Test 9a - 5000 Cycles |
| Mechanical Strength Impact | IEC 60512-5 @ 29.5 Inches Dropped 8 Times |
| Temperature Range | -20°C to 105°C |
| | -4°F to 221°F |

IEC Protection

 Touch Safety Main Connector Housing

 IEC 60950
 SBE*320 Only
 Pass

 IEC 60529
 SBE*320 & SBX*350
 IP20

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

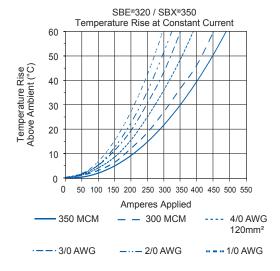


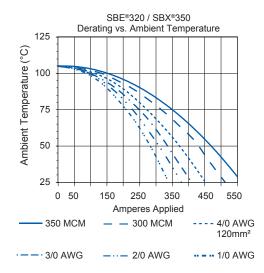
| SBE®320 / SBX®350 CONNECTOR TEMPERATURE CHARTS|

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

For Temperature Rise Above 60°C, Contact Customer Service.

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





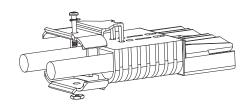
| SBE®320 / SBX®350 ACCESSORIES |

Cable Clamps

Durable metal clamps adapt to a wide range of cable sizes. Cable clamp kit includes clamp top and bottom as well as the hardware bag.

| | Min / Max | | |
|------------------|--------------|--------------|-----------------|
| Description | Inches O.D. | mm O.D. | - Part Number - |
| Minimum Quantity | | | 25 |
| Cable Clamp Kit | 0.85 to 0.67 | 21.6 to 17.1 | 911G2 |

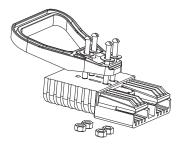
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.



Handles

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

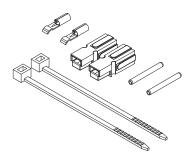
| Description | Part Numbers | | | |
|--------------------|--------------|-------|--|--|
| Minimum Quantity | 100 | 25 | | |
| Gray Handle Kit | 995G2-APP | 995G2 | | |
| Red Handle Kit | 995G4-APP | 995G4 | | |
| Handle Only, Gray | 3-5074P1 | - | | |
| Handle Only, Red | 3-5074P3 | - | | |
| Handle Only, Black | 3-5074P5 | - | | |
| Hardware Bag | - | 106G7 | | |



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.

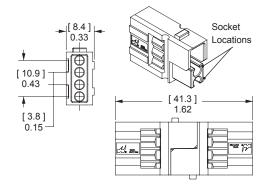
| Description | Part N | lumbers |
|---|--------|---------|
| Minimum Quantity | 200 | 25 |
| Powerpole® Auxiliary Kit #16 to #12 Contact | - | 6305G1 |
| Powerpole® Auxiliary Kit #20 to #16 Contact | - | 6310G1 |
| Black Powerpole® Housing | 1327G6 | - |
| Red Powerpole® Housing | 1327 | - |
| #16 to #12 Contact | 1331 | - |
| #20 to #16 Contact | 1332 | - |



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.

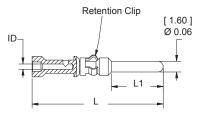
| Description | AWG | mm² | Pa | rt Number | 'S |
|-----------------------|----------|-----------------|----------|-----------|-------|
| Minimum Quantity | | | 1,000 | 250 | 25 |
| 1x4 Auxiliary Kit | 12 | 4 | - | - | 440G3 |
| 1x4 Auxiliary Kit | 16 to 14 | 1.5 to 2.5 | - | - | 440G1 |
| 1x4 Auxiliary Kit | 20 to 16 | 0.75 to 1.5 | - | - | 440G2 |
| 1x4 Auxiliary Housing | Contacts | Sold Seperately | 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 | PM16P12A30-50 |
| | 16 to 14 | 1.0 to 1.5 | PM16P1416A30 | PM16P1416A30-50 |
| | 20 to 16 | 0.75 to 1.0 | PM16P1620A30 | PM16P1620A30-50 |
| | 24 to 20 | 0.50 to 0.75 | PM16P2024A30 | PM16P2024A30-50 |
| Post-Mate 6.4mm | 12 | 2.5 | PM16P12C30 | PM16P12C30-50 |
| | 16 to 14 | 1.0 to 1.5 | PM16P1416C30 | PM16P1416C30-50 |
| | 20 to 16 | 0.75 to 1.0 | PM16P1620C30 | PM16P1620C30-50 |
| | 24 to 20 | 0.50 to 0.75 | PM16P2024C30 | PM16P2024C30-50 |

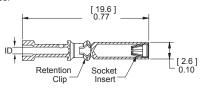


| Auxiliary Pin | - L - | | - L1 - | |
|-----------------------|-------|------|--------|-----|
| Contact Lengths | in. | mm | in. | mm |
| Standard Length 7.7mm | 0.77 | 19.6 | 0.30 | 7.7 |
| Pre-Mate 9.3mm | 0.83 | 21.2 | 0.37 | 9.3 |
| Post-Mate 6.4mm | 0.72 | 18.3 | 0.25 | 6.4 |

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 Quanti | ity | | 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 |

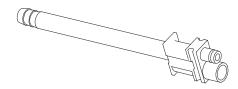


| Auxiliary Socket Contacts Crimp Barrel ID | | | | |
|---|------|-----|--|--|
| Wire Gauge | in. | mm. | | |
| #24 / 20 | 0.04 | 1.1 | | |
| #20 / 16 | 0.07 | 1.7 | | |
| #16 / 14 | 0.08 | 2.1 | | |
| #12 | 0.10 | 2.6 | | |

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 Nu | ımbers |
|---------------------|----------|--------|
| Minimum Quantity | . 500 | 25 |
| Air Tube Kit, Black | - | 6396G1 |
| Air Tube Only | 3-5798P1 | - |



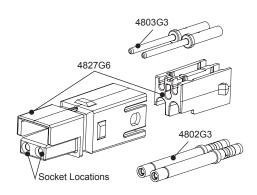
PPMX Auxiliary Connector

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 |

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.

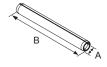
| Description | Part Number |
|-----------------------|-------------|
| Minimum Quantity | 100 |
| For SBE®320 & SBX®350 | 2-8675P1 |



Retaining Pins

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

| | | Dimensions | | | |
|-----------------------|-----------------|---------------|-------------|--------|-------|
| | | - A - | | - B | - |
| Description | - Part Number - | inches | mm | inches | mm |
| Minimum Quantity | . 1,000 | | | | |
| For SBE®320 & SBX®350 | 110G59-BK | 0.093 / 0.103 | 2.36 / 2.62 | 1.000 | 25.40 |



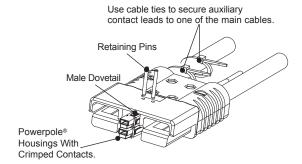




Zip Cable Straps

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

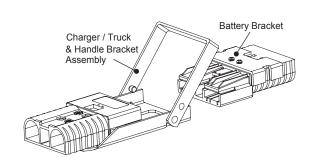
Works with the Charger / Truck side to ease mating and unmating connectors.

| Description | Part Nu | mbers |
|--------------------------|----------|-------|
| Minimum Quantity | 72 | 25 |
| Bracket and Hardware Kit | - | 993G1 |
| Battery Bracket Only | 111961P1 | - |
| Hardware Bag | - | 106G6 |

Manual Release - Charger/ Truck Side

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

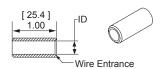
| Description | - Part Numbers - |
|--------------------------|------------------|
| Minimum Quantity | 25 |
| Bracket and Hardware Kit | 994G1 |
| Bracket / Lever Only | B00511G4 |
| Hardware Bag | 06G6 |



Reducing Bushings: for Use with Contact # 6354 and Bushing # 5918

Use with contact part number 6354-BK and bushing part number 5918-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

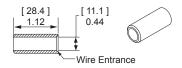
| | | | | | Dimensions - ID - | |
|--|--------------|---------|---------|------|----------------------|------|
| Bushing # 5918 Barrel Size / Wire Size | Part Numbers | | | | inches | mm |
| Minimum Quantity | 1,500 | 1,000 | 500 | 100 | | |
| 1/0 AWG [53.5 mm²] #1 AWG [42.4 mm²] | - | - | 5687-BK | 5687 | 0.39 | 9.91 |
| 1/0 AWG [53.5 mm²] #2 AWG [33.6 mm²] | 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 mm²] #6 AWG [13.3 mm²] | - | 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 # 6354

Use with contact part number 6354-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

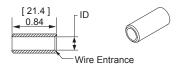
| Contact Barrel Size / Wire Size | Part Number | | | |
|---|--------------|--|--|--|
| Minimum Quantity | 500 100 | | | |
| 2/0 AWG [67.4 mm ²] 1/0 AWG [53.5 mm ²] | 5918-BK 5918 | | | |



Reducing Bushings: for Use with Contact # 6394

Use with contact part number 6394-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

| | | | | Dimensions | | |
|---------------------|--------------------|----------|-------|------------|-----|--|
| | | | | - ID - | | |
| Contact Barrel Size | Wire Size | Part Nur | mbers | inches | mm | |
| Minimum Quantity | | 1,000 | 100 | | | |
| 35 mm² | 16 mm ² | 5920-BK | 5920 | 0.23 | 5.8 | |



SBO® / SBE® / SBX®

- Tooling Information

| Number of Secondaria Second | Wire | e Size | Loose Piece Part Numbers | Loose Piece Contact Crimp Tool | | | | ool |
|--|--|-------------|-----------------------------|--------------------------------|---------|---------|---------|------------|
| SBE® 320 / SBX® 350 SBX® 350 | AWG | mm² | Contacts | | + Die | Locator | of | Hand Tool |
| 300 MCM | | | | | | | | |
| March Marc | 300 MCM | 152 | | | | N/A | N/A | |
| 3/0 AWG | | - | | | | | | |
| 1368 1368 1303G2 1304G28 1368 Series 1368 Series 1303G2 1304G28 1303G17 1304G35 1304G35 1304G36 1303G17 1304G35 1304G36 1303G8 1304G36 1304G36 1303G2 1304G36 1304G36 1304G36 1303G2 1304G13 1387G2 1303G2 1304G13 1309G2 1304G13 1387G2 1303G2 1304G13 1304G13 1387G2 1303G2 1304G13 1304G13 1387G2 1303G2 1304G13 1304G34 1304G36 1 | | | | 1387G2 | 1303G12 | 1304G28 | Double | 1368 |
| #2 N/A 6394 1303G2 1304G28 | | | | | | | | |
| N/A 70 mm² 1341G2 1387G2 1303G12 1304G34 Double SBE® 160 / SBX® 175 1/0 AWG 53.5 6384G1 1387G2 1303G2 1304G13 #2 35 mm² 6384G2 1387G2 1303G2 1304G13 #4 25 1339G4 1387G1 1388G7 1389G9 Single N/A #6 16 1339G1 1387G1 1388G6 1389G9 Single N/A Powerpole® 15/45 Auxiliary Contacts ** #16 / 20 1.3 / .52 1332 N/A N/A N/A N/A Single 1309G2 or 1309G8 #12 / 24 2.5 / .25 All Crimp Pins TP0001* N/A TL0001 Single TM0001* PM1000G1 **PPMX Auxiliary Contacts #20 / 24 0.50 / 0.25 4803G3 TP0001* N/A N/A TL0005 Single TM0001* or | | - | | | 1303G2 | 1304G28 | | Series |
| N/A 50 mm² 1341G1 1303G8 1304G36 | N/A | 95 mm² | 1341G3 | | 1303G17 | 1304G35 | | |
| SBE® 160 / SBX® 175 1387G2 1303G2 1304G13 1368 1387G2 1303G2 1304G13 1388G3 1389G3 Single 1368 Series 1387G2 1303G2 1304G13 1388G3 1389G3 Single SBO® 60 / SBE® 80 | N/A | 70 mm² | 1341G2 | 1387G2 | 1303G12 | 1304G34 | Double | |
| 1/0 AWG | N/A | 50 mm² | 1341G1 | | 1303G8 | 1304G36 | | |
| 1/0 AWG 53.5 6384G1 1387G1 1388G3 1389G3 Single 1368 Series | | | SBE | ® 160 / SBX | ® 175 | | | |
| #2 35 mm² 6384G2 | 1/0 010/0 | E0 E | 620404 | 1387G2 | 1303G2 | 1304G13 | | |
| 1387G2 1303G2 1304G13 | | | | 1387G1 | 1388G3 | 1389G3 | Single | |
| #4 25 1339G4 1387G1 1388G7 1389G9 Single N/A 1309G4 #6 16 1339G1 1387G1 1388G6 | #2 | 35 mm² | | 1303G2 | 1304G13 | | | |
| #6 16 1339G1 1387G1 1388G6 1389G9 Single 1309G4 Powerpole® 15/45 Auxiliary Contacts ** #16 / 20 1.3 / .52 1332 N/A N/A N/A Single 1309G2 or 1309G8 #12 / 16 3.3 / 1.3 1331 N/A N/A N/A Single 1309G8 PowerMod® 1x4 Auxiliary Contacts #12 / 24 2.5 / .25 All Crimp Pins All Crimp Sockets PPMX Auxiliary Contacts #20 / 24 0.50 / 0.25 4803G3 TP0001* N/A TL0005 Single TM0001* or | | | SB | O® 60 / SBE® | 0 80 | | | |
| #6 16 1339G1 1388G6 1309G4 Powerpole® 15/45 Auxiliary Contacts ** #16 / 20 | #4 | 25 | 1339G4 | 120701 | 1388G7 | 400000 | Cinalo | N/A |
| #16 / 20 | #6 | 16 | 1339G1 | 130761 | 1388G6 | 1309G9 | Sirigle | 1309G4 |
| #12 / 16 3.3 / 1.3 1331 N/A N/A N/A Single 1309G8 PowerMod® 1x4 Auxiliary Contacts The contact | Powerpole® 15/45 Auxiliary Contacts ** | | | | | | | |
| #12 / 16 3.3 / 1.3 1331 1309G8 1309G8 | #16 / 20 | 1.3 / .52 | 1332 | N/Δ | NI/A | Ν/Δ | Single | |
| #12 / 24 2.5 / .25 All Crimp Pins TP0001* N/A TL0001 Single TM0001* PM1000G1 #20 / 24 0.50 / 0.25 4803G3 TP0001* N/A TL0005 Single TM0001* or | #12 / 16 | 3.3 / 1.3 | 1331 | 14// (| 14// (| 14/7 (| | 1309G8 |
| #12 / 24 2.5 / .25 All Crimp Filis TP0001* N/A TL0002 Single PM1000G1 PPMX Auxiliary Contacts TP0001* N/A TL0005 Single TM0001* or #20 / 24 0.50 / 0.25 4803G3 TP0001* N/A TL0005 Single TM0001* or | PowerMod® 1x4 Auxiliary Contacts | | | | | | | |
| All Crimp Sockets | #12 / 24 | 25/25 | All Crimp Pins | TP0001* | N/A | TL0001 | Single | TM0001* |
| #20 / 24 0.50 / 0.25 4803G3 TP0001* N/A TL0005 Single TM0001* or | #12/24 | 2.07.20 | All Crimp Sockets | | | TL0002 | | PM1000G1 |
| #20 / 24 0.50 / 0.25 TP0001* N/A TL0005 Single | PPMX Auxiliary Contacts | | | | | | | |
| | #20 / 24 0.5 | 0.50 / 0.25 | 4803G3 | TP0001* | N/A | TL0005 | Single | TM0001* or |
| 4802G3 PM1000G1 | | 0.0070.20 | 4802G3 | | | | Olligio | PM1000G1 |

 $^{^{\}star}$ TP0001 and TM0001 tools require locators to properly position contacts.

SBE®160 / SBX®175 Power Contact Extraction Tool: 969P1 SBE®3320 / 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