Powerpole® & Multipole

Connectors | 10A up to 550A

- *Battery Charging* • *Material Handling* • *E-Mobility*
- *Telecommunications* • *Industrial* • *Commercial Applications*



APP®
Anderson Power Products®

An IDEAL Company

SBS® Mini Connectors
Up to 52 amps



SBS® Mini Connector series is our smallest DC power connector in the SBS® group. The SBS® Mini securely holds two crimp and poke contacts with sacrificial tips to enable hot swap capabilities on DC circuits. The low resistance contacts accept 20 to 10 AWG (0.52 to 5.3 mm²) wires allowing up to 52 amps of UL rated performance per position.

- **Touch Safe Housing**
  Minimizes potential contact with live circuits
- **Color-Coded Mechanical Key**
  Prevents accidental mating of connectors operating at different voltage levels
- **Compact & Ergonomic Housing**
  Is "user friendly" during connection and disconnection of the system
- **UL Hot Plug Rated to 45 Amps @ 72 Volts**
  Good for applications where the ability to interrupt circuits is required

SBS® MINI ORDERING INFORMATION

SBS® Mini Housing

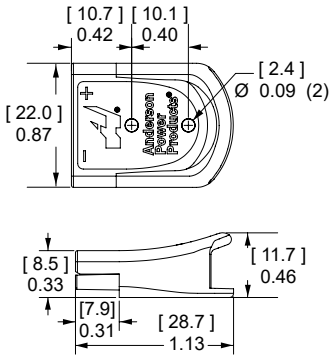
The smallest SBS® connector has 2 finger proof positions in a polycarbonate housing with an ergonomic grip. The housing securely holds crimp and poke contacts from the popular Powerpole® 15/45 series connectors.

Description	Part Numbers
Minimum Quantity	100
Red	B02265G1
Black	B02265G2
Blue	B02265G3
Gray	B02265G4



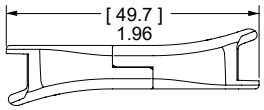


Actual Size



Top View

Side View



Mated Side View

SBS® Mini Cable Clamp Assembly Kit

Insert Cable Clamp into middle position of housing, securing with pins and using a wire tie to secure wires. Kit includes clamp and 2 pins only. Wire ties sold separately.

Description	Part Numbers	in.	mm
Minimum Quantity	1,000		
Gray Clamp Kit, Gray	B02597G4	1.15 x 0.34	29.1 x 8.60
Cable Wire Tie	H1835P11	4 x 0.10	100 x 2.50



SBS® Mini Cable Clamp Assembly Kit



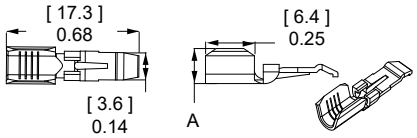
Assembled Wire Tie

PP15/45 Tin Plated Power Contacts

Offer cost effective performance up to 200 mating cycles. See specifications and temperature charts for amperage ratings by wire size.

Barrel	AWG	mm²	Loose Piece Part Numbers	Reeled Part Numbers	Dimensions - A - inches	mm
Minimum Quantity			200	5,000		
Open	20 to 16	0.52 to 1.3	262G1-LPBK	262G1	0.16	4.06
Open	16 to 12	1.3 to 3.3	261G1-LPBK	261G1	0.18	4.57
Open	14 to 10 K *	2.1 to 5.3	261G2-LPBK	261G2	0.20	5.08

*K * - For 10 AWG class K stranded wire or smaller.*



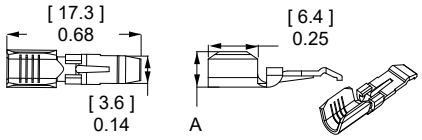
PP15/45 Silver Plated Power Contacts

Maximize performance by offering up to 1,500 mating cycles. Recommended for circuit interrupt or hot plug applications. See specifications and temperature charts for amperage ratings by wire size. Only closed barrel contacts are suitable for soldering.

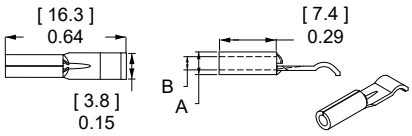
Barrel	AWG	mm²	Loose Piece Part Numbers		Reeled Part Numbers	Dimensions - A - inches	mm	- B - inches	mm
Minimum Quantity			5,000	200	5,000				
Closed	20 to 16	0.52 to 1.3	1332-BK	1332	-	0.12	3.05	0.07	1.78
Closed	16 to 12	1.3 to 3.3	1331-BK	1331	-	0.15	3.81	0.10	2.54
Open	20 to 16	0.52 to 1.3	-	262G2-LPBK	262G2	0.16	4.06	-	-
Open	14 to 10 K *	2.1 to 5.3	-	261G3-LPBK	261G3	0.20	5.08	-	-

*K * - For 10 AWG class K stranded wire or smaller.*

Open Barrel Contact



Closed Barrel Contact



SBS® Mini - Tooling Information

Wire Size			Loose Piece Part Numbers				Reeled Part Numbers		Reeled Contact Crimp Tools	
AWG	mm²	Open Closed Barrel	Tin Plating	Silver Plating	Hand Tool	OR	Tin Plating	Silver Plating	APP® Applicator	APP® Press
20 to 16	0.52 to 1.3	Closed	N/A	1332 / 1332-BK	1309G2 or 1309G8		N/A	N/A	N/A	N/A
16 to 12	1.3 to 3.3	Closed	N/A	1331 / 1331-BK						
20 to 16	0.52 to 1.3	Open	262G1-LPBK	262G2-LPBK			262G1	262G2	TD0101	115V = TE0101 230V = TE0102
16 to 12	1.3 to 3.3	Open	261G1-LPBK	N/A	1309G3 or 1309G8		261G1	N/A		
14 to 10 K*	2.1 to 5.3	Open	261G2-LPBK	261G3-LPBK			261G2	261G3		

Insertion / Extraction Tool 111038G2

K* - For 10 AWG class K stranded wire or smaller.

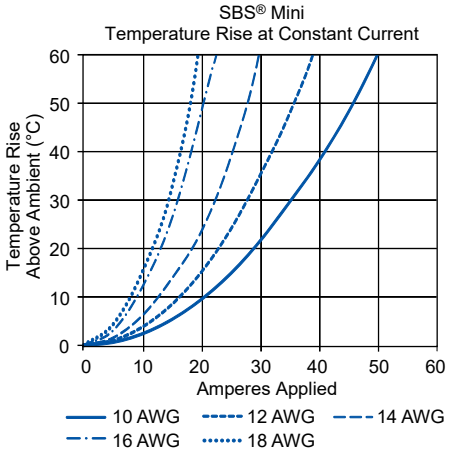


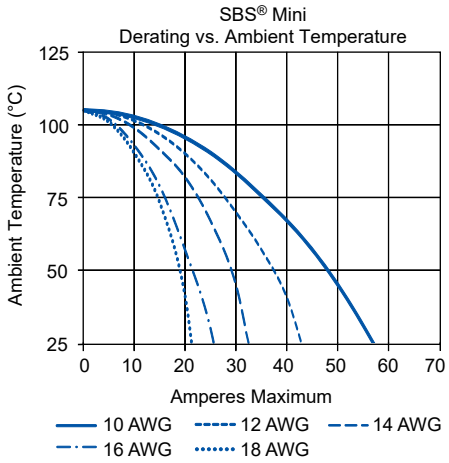
Need More Than 2 Positions?

See the stackable Powerpole® 15 to 45 connectors. These single position connectors use the same contact system as SBS® Mini and can be stacked together to create custom multiple position configurations.

SBS® Mini CONNECTOR TEMPERATURE CHARTS - Temperature rise charts are based on a 25°C ambient temperature.

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





SBS® MINI SPECIFICATIONS

ELECTRICAL		
Current Rating Amperes [1]	**UL 1977**	**CSA**
10 AWG	52	35
12 AWG	41	28
14 AWG	31	23
16 AWG	24	16
18 AWG	20	15
Voltage Rating AC/DC		
UL 1977	600	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms [2]		
Wire Contact with 5/8" of 16 AWG	0.875	
Wire Contact with 5/8" of 12 AWG	0.600	
Wire Contact with 5/8" of 10 AWG	0.525	
UL Hot Plug Current Rating Amperes [3]		
250 Cycles at 72V DC	45A	

MECHANICAL		
Wire Size Range	**AWG**	**mm²**
	20 to 10	0.52 to 5.3
Max. Wire Insulation Diameter	**in.**	**mm**
	0.183	4.65
Operating Temperature	**°F**	**°C**
	-4° to 221°	-20° to 105°
Mating Cycles No Load by Plating	**Silver (Ag)**	**Tin (Sn)**
10 to 12 AWG	1,500	200
14 to 18 AWG	8,000	200
Avg. Mating / Unmating Force [4]	**Lbf.**	**N**
10 AWG	10 to 11	45 to 49
12 to 18 AWG	4 to 7	17 to 31
Min. Contact / Spring Retention Force	**Lbf.**	**N**
	20	90

MATERIALS	
Housing	
Plastic Resin	Polycarbonate
Contact Retention Spring	Stainless Steel
Housing Flammability Rating	
UL94	V-0
Glow Wire	960°C (GWFI) / 800°C (GWIT)
Contact	
Base	Copper Alloy
Plating	Tin or Silver
Contact Termination Methods	
Crimp [3]	Wire Contacts
Hand Solder	1331 & 1332

RoHS-II COMPLIANT APP

c UL us File No. E26226

REACH COMPLIANCE APP

Inquire with Customer Service for IEC / EN Approvals

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

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.

2 - Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.

3 - Based on 261G3 with 10 AWG wire.

4 - Contact customer service for contacts with a higher disconnect force.

IEC INFORMATION

Connector Series	Configurations	Creepage / Clearance per IEC 60950-1	Material Group
SBS® Mini	Unmated	1.47 mm	IIIa
	Mated	2.40 mm	

PROTECTION	
Touch Safety	
UL 1977 Sec. 10.2	Pass
IEC 60950	Pass
IEC 60529	IP20

TÜV Rheinland BAUART GEPRÜFT TYPE APPROVED

All Data Subject To Change Without Notice

SBS® Connectors

Up to 110 amps



SBS® 75G



SBS® 50



SBS® 75X

The patented SBS® connector family is designed to provide high power in a compact ergonomic housing with protection against accidental contact with live circuits. This is of particular importance in applications where DC voltages exceed 30 volts and can be health threatening.

Wire-to-wire and wire-to-board configurations both provide power contacts rated up to 110 amps. The SBS® 75X offers up to 4 mate-last break-first auxiliary power / signal contacts rated up to 20 amps. The SBS® 75G features a third first-mate last-break ground or power contact. All contact positions are rated for circuit interruption (hot plugging).

- **Touch Safe Interface**
  Can safely be used in through panel applications
  Minimizes potential contact with live circuits per IEC 60950
- **Wire-to-Wire and Wire-to-Board Configurations**
  Allows one connector to meet multiple needs
- **Ground or Auxiliary Positions Integrated into the One Piece Housing**
  Meets all connection requirements in one compact connector housing

SBS® ORDERING INFORMATION

SBS® 50 Standard Housings

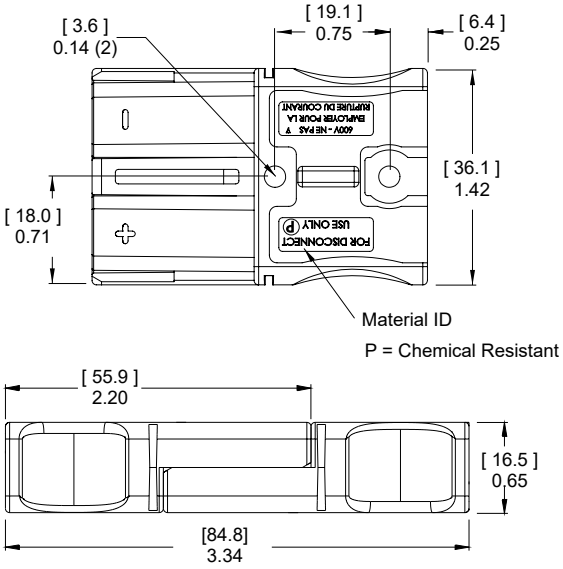
Polycarbonate housings feature 2 positions all finger proof. Genderless design mates with itself. Mechanical keys are color coded.

Description	Part Numbers	
Minimum Quantity	500	50
Red	SBS50RED-BK	SBS50RED
Gray	SBS50GRA-BK	SBS50GRA
Blue	SBS50BLU-BK	SBS50BLU
Black	SBS50BLK-BK	SBS50BLK
Brown	SBS50BRN-BK	SBS50BRN
White	SBS50WHT-BK	SBS50WHT

SBS® 50 Chemical Resistant (CR) Housings

Same features as the standard housings, but molded out of a chemical resistant PBT / PC blend. Suitable for use to -40°C.

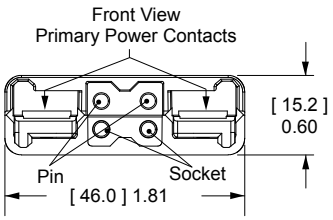
Description	Part Numbers	
Minimum Quantity	500	50
Gray	PSBS50GRA-BK	PSBS50GRA
Blue	PSBS50BLU-BK	PSBS50BLU
Green	PSBS50GRN-BK	PSBS50GRN
Black	PSBS50BLK-BK	PSBS50BLK
Red	PSBS50RED-BK	-
Brown	PSBS50BRN-BK	-



SBS® 75X Standard Housings

Polycarbonate housings feature 4 auxiliary and 2 primary positions all finger proof. Genderless design mates with itself, or the PCB connector. Mechanical keys are color coded. Inquire with Customer Service about other color offerings.

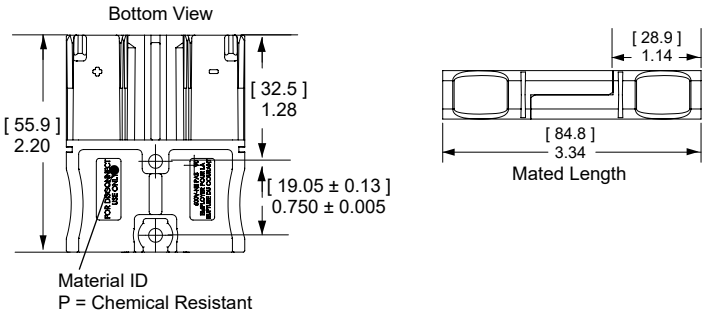
Description	Part Numbers	
Minimum Quantity	250	50
Black	SBS75XBLK-BK	SBS75XBLK
Brown	SBS75XBRN-BK	SBS75XBRN



SBS® 75X Chemical Resistant (CR) Housings

Same features as the standard housings, but molded out of a chemical resistant PBT/ PC blend. Suitable for use to -40°C. Inquire with Customer Service about other color offerings.

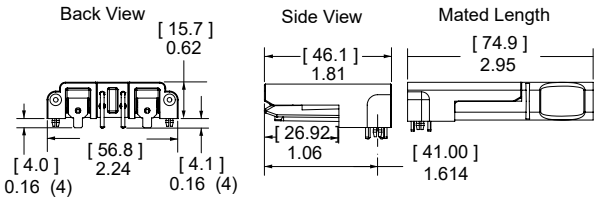
Description	Part Numbers	
Minimum Quantity	250	50
Green	PSBS75XGRN-BK	-
Black	PSBS75XBLK-BK	PSBS75XBLK



SBS® 75X Assembled PCB Connector

Fully assembled PCB connector is designed to mate with SBS® 75X Wire connector. All positions are preloaded with contacts including standard mating length auxiliary positions. Press fit board locks help secure the connector to the PCB before and after soldering. Choose between tin or silver contacts.

Description	Part Numbers	
Minimum Quantity	250	100
Black - Tin Contact	-	SBS75XPRBLK-BK
Black - Silver Contact	SBS75XPRSBLK-BK	-

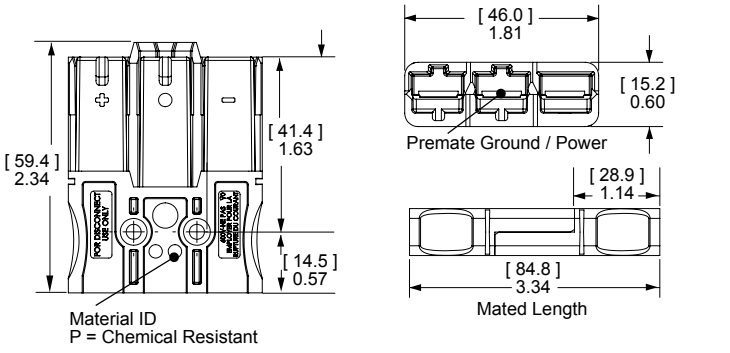


See PCB connector drawing on website for further detail.

SBS® 75G Wire Housings

Polycarbonate housings feature three finger proof positions. The center position can be used for pre-mate power or ground. Genderless design mates with itself, or the PCB connector. Mechanical keys are color-coded. Inquire with customer service for chemical resistant housings.

Description	Part Numbers	
Minimum Quantity	250	50
Blue	SBS75GBLU-BK	SBS75GBLU
Black	SBS75GBLK-BK	SBS75GBLK
Brown	SBS75GBRN-BK	SBS75GBRN
White	SBS75GWHT-BK	SBS75GWHT

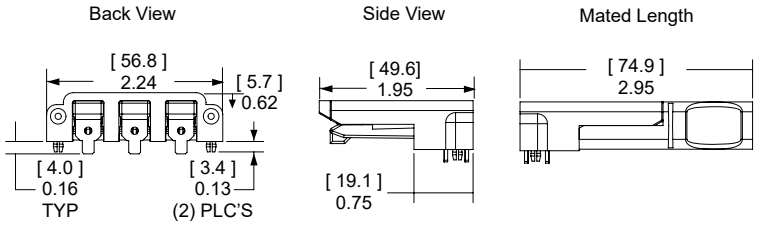


SBS® 75G Assembled PCB Connector

Fully assembled PCB connector is designed to mate with SBS® 75G Wire connector. Has press fit board locks to help secure the connector to the PCB before and after soldering.

Description	Part Number
Minimum Quantity	100
Black	SBS75GPRBLK-BK

See PCB connector drawing on website for further detail.

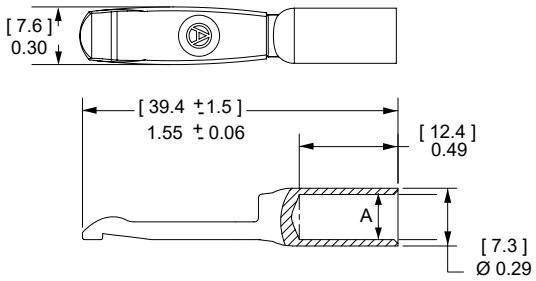


SBS® Silver Plated Primary Power Wire Contacts

Use two silver plated contacts per housing for the best electrical performance and durability up to 10,000 mating cycles. Standard contacts are for use in all primary power positions for SBS® 50, 75X, & 75G wire housings. See reducing bushings in accessory section for smaller wires.

Type	AWG	mm²	Loose Piece Part Numbers		Dimensions - A - inches	mm
Minimum Quantity			1,000	100		
Standard	6	16	1339G2-BK	1339G2 *	0.22	5.60
Standard	8	10	1339G5-BK	1339G5 *	0.19	4.70
Standard	12 to 10	2.5 to 6	1339G3-BK	1339G3 *	0.14	3.50

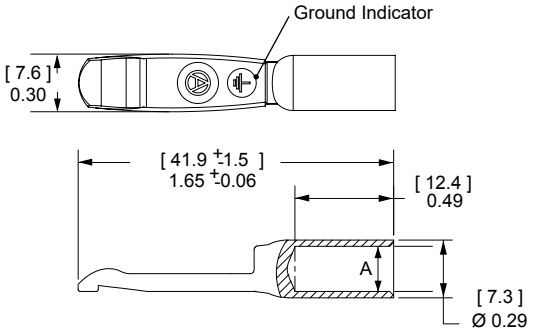
* Are sold as pairs. 2 contacts ship for every 1 ordered.



SBS® 75G Silver Plated Pre-Mate Wire Contacts

Pre-Mate contacts used for power or ground are for the center Pre-Mate position on the SBS®75G wire housings. See reducing bushings in accessory section for smaller wires.

Type	AWG	mm²	Loose Piece Part Numbers		Dimensions - A - inches	mm
Minimum Quantity			500	50		
Pre-Mate	6	16	1340G1-BK	1340G1	0.22	5.60
Pre-Mate	8	10	1340G2-BK	1340G2	0.19	4.70
Pre-Mate	12 to 10	2.5 to 6	1340G3-BK	1340G3	0.14	3.50



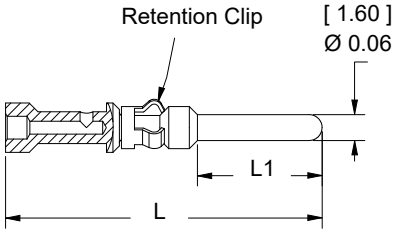
Pin Contacts for SBS® 75X Auxiliary

Gold plated contacts are available in 3 lengths to allow sequencing of circuits.

Description	AWG	mm²	Part Numbers	
Minimum Quantity			500	50
Standard Length 7.7 mm	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 9.3 mm	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 6.4 mm	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 **Contact Lengths**	- L -		- L1 -	
	in.	**mm**	**in.**	**mm**
Standard Length 7.7 mm	0.77	19.6	0.30	7.7
Pre-Mate 9.3 mm	0.83	21.2	0.37	9.3
Post-Mate 6.4 mm	0.72	18.3	0.25	6.4

See drawings on website for further details



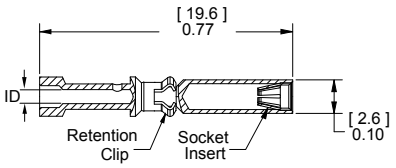
Socket Contacts for SBS® 75X Auxiliary

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

Description	AWG	mm²	Part 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

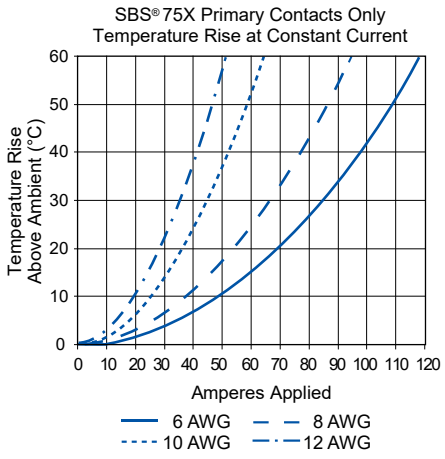
Auxiliary Socket Contacts Crimp Barrel ID		
Wire Gauge	**in.**	**mm.**
24 to 20	0.04	1.1
20 to 16	0.07	1.7
16 to 14	0.08	2.1
12	0.10	2.6

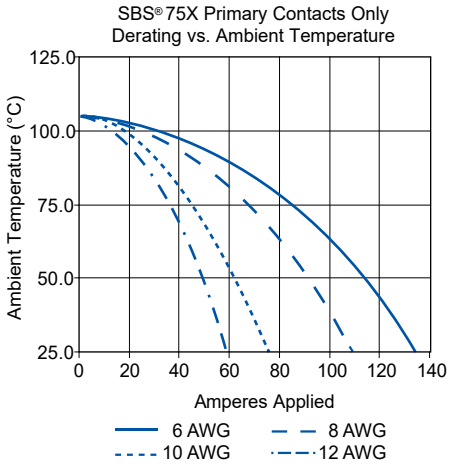
See drawings on website for further details

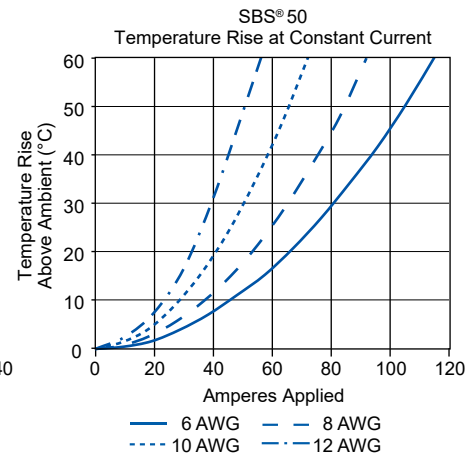


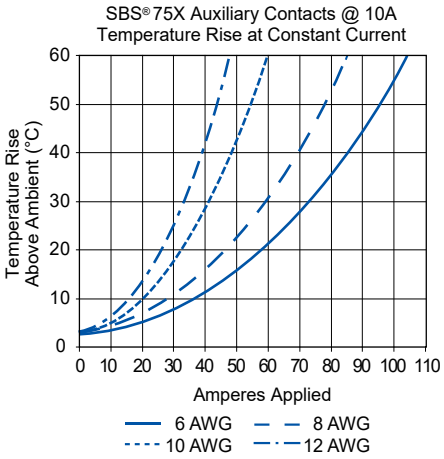
SBS® CONNECTOR TEMPERATURE CHARTS - Temperature rise charts are based on a 25°C ambient temperature.

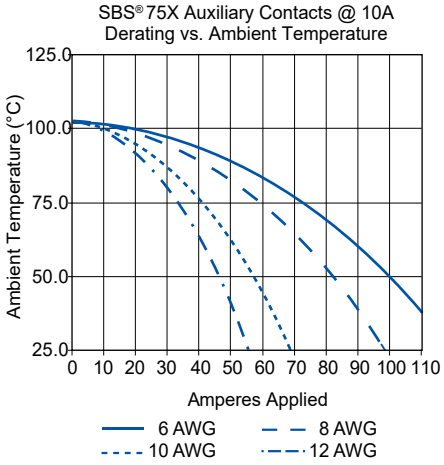
Current - Temperature Derating per IEC 60512-5-2 Test 5B

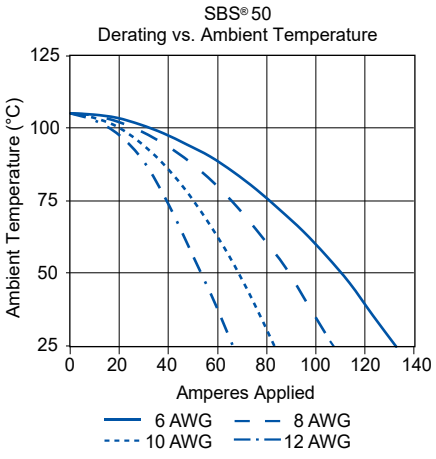


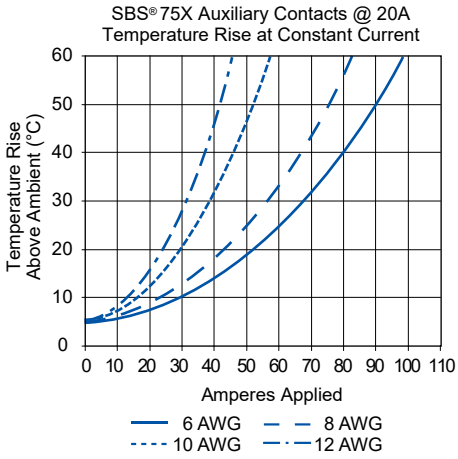


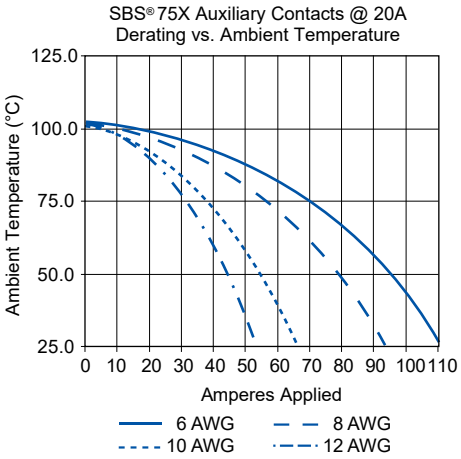


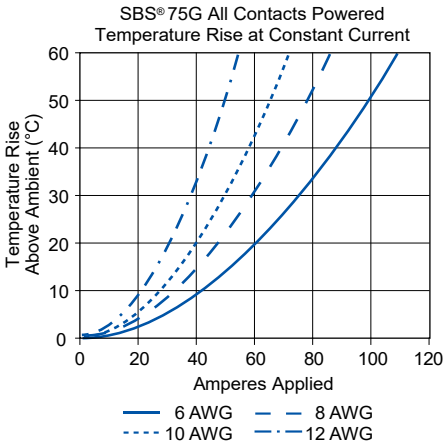


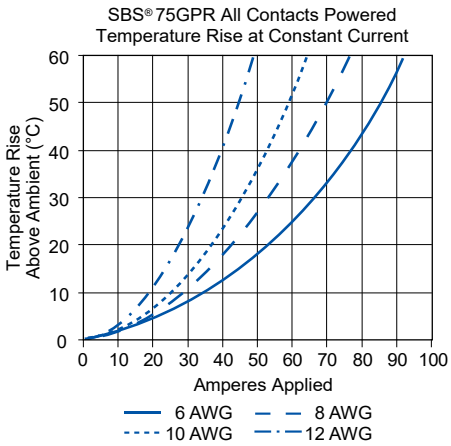


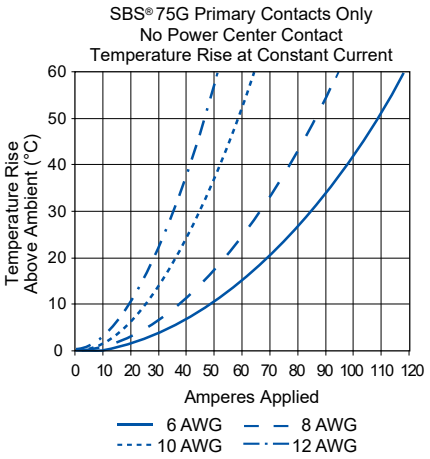


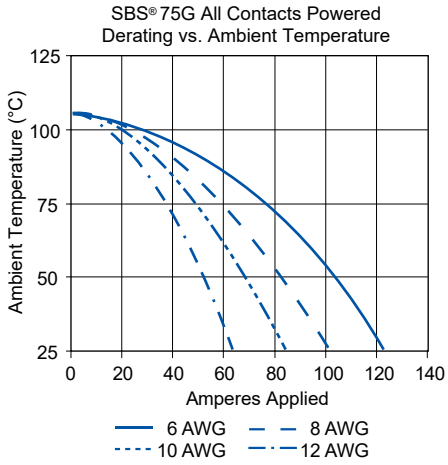


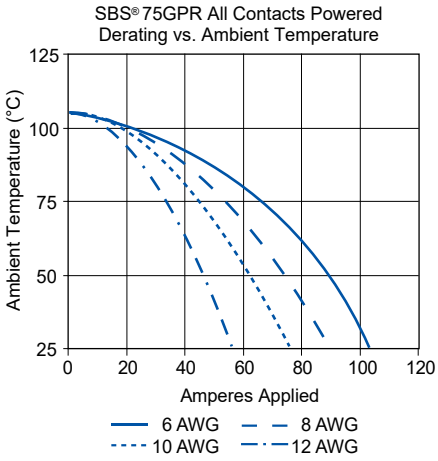


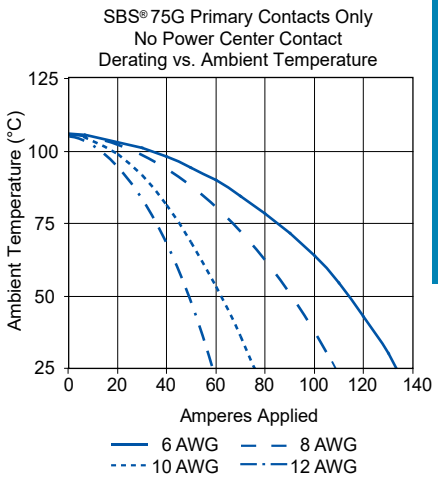

SBS® 75G All Contacts Powered
Temperature Rise at Constant Current
Temperature Rise Above Ambient (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG


SBS® 75GPR All Contacts Powered
Temperature Rise at Constant Current
Temperature Rise Above Ambient (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG


SBS® 75G Primary Contacts Only
No Power Center Contact
Temperature Rise at Constant Current
Temperature Rise Above Ambient (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG


SBS® 75G All Contacts Powered
Derating vs. Ambient Temperature
Ambient Temperature (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG


SBS® 75GPR All Contacts Powered
Derating vs. Ambient Temperature
Ambient Temperature (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG


SBS® 75G Primary Contacts Only
No Power Center Contact
Derating vs. Ambient Temperature
Ambient Temperature (°C)
Amperes Applied
6 AWG
8 AWG
10 AWG
12 AWG

SBS® CONNECTOR SPECIFICATIONS

ELECTRICAL		
Current Rating Amperes [1]	**UL 1977**	**CSA / TUV**
Primary Power (6 AWG)	110	75
Auxiliary (12 AWG)	20	10
Voltage Rating AC/DC		
UL 1977	600	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms [1]		
Power & Ground: 1 1/4" of 6 AWG wire	0.200	
Auxiliary: Wire & PCB	3.000	
UL Hot Plug Current Rating Amperes - 250 cycles at 120V DC		
Wire & PCB Power	50A	
Wire & PCB Auxiliary	5A	
UL Ground Short Time Current Test - SBS® 75G Wire & PCB		
1530 Amps, (6 AWG) Wire	6 Seconds	

MATERIALS	
Housing	
Standard Plastic Resin	Polycarbonate
Chem. Resistant Resin	Polycarbonate / PBT Blend
Contact Retention Spring	Stainless Steel
Housing Flammability Rating	
UL94	V-0
Glow Wire - SBS® 50	825°C (GWFI) / 800°C (GWIT)
- SBS® 75G	960°C (GWFI) / 800°C (GWIT)
- SBS® 75X	960°C (GWFI) / 800°C (GWIT)
Wire Power & Ground Contact	Silver Plated Copper Alloy
PCB Power & Ground Contact	Tin Plated Copper Alloy
SBS® 75X Auxiliary Contacts	
Pin	Copper Alloy, Au Over Ni
Socket	BeCu, Au over Ni
Socket Body	Copper Alloy, Sn Bright Over Ni
Retention Clip	Stainless Steel
PCB Press Fit Retainers	Brass - Tin Plated
Contact Termination Methods	
Crimp [3]	Wire Contacts
Hand Solder	Wire and PCB Contacts
Solder Dip	PCB Contacts
Wave Solder	PCB Contacts

c US File No. E26226 © CSA Certified File No. LR25154

• Auxiliary contacts are available for SBS® 75X only.

• SBS® 75X and SBS® 75G PCB connectors are designed to mate only with the wire connector of the same series.

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.

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.

All Data Subject To Change Without Notice

MECHANICAL			
Wire Size Range	**AWG**	**mm²**	
Power Contacts (with bushings)	16 to 6	1.3 to 13.3	
Auxiliary Contacts	24 to 12	0.25 to 3.3	
Max. Wire Insulation Diameter	**in.**	**mm**	
SBS® 75G Power & Ground	0.380	9.652	
SBS® 50 & SBS® 75X Power Contacts	0.410	10.414	
SBS® 75X Auxiliary Contacts	0.140	3.600	
Operating Temperature [2]	**°F**	**°C**	
Standard	-4° to 221°	-20° to 105°	
Chemical Resistant	-40 to 221°	-40° to 105°	
Mating Cycles No Load by Plating	**Silver (Ag)**	**Tin (Sn)**	**Gold (Au)**
Power & Ground Contacts Wire	10,000		
Power & Ground Contacts PCB		1,500	
Auxiliary Contacts			10,000
Avg. Mating / Unmating Force	**Lbf.**	**N**	
SBS® 75X and SBS® 75G Wire-to-Wire	16	70	
SBS® 50 Wire-to-Wire	8	36	
SBS® 75X and SBS® 75G Wire-to-PCB	8	36	
Min. Contact / Spring Retention Force	**Lbf.**	**N**	
Power, Standard Housing	50	222	
Power, Chemical Resistant Housing	30	133	
Auxiliary Standard Housing	15	67	
Auxiliary Chemical Resistant Housing	10	44	
PCB Specifications			
Mounting Style	Plated Through Hole		
Max PCB Thickness - in. (mm)	0.093 (2.4)		
Recommended Traces Power & Ground	6 AWG Cross Section		
Recommended Traces Auxiliary	12 AWG Cross Section		
Min. Creepage / Clearance Distance PCB	**in.**	**mm**	
Power to Auxiliary Creepage SBS® 75X	0.41	10.4	
Power to Auxiliary Clearance SBS® 75X	0.24	6.1	
Power to Ground Creepage SBS® 75G	0.35	8.9	
Power to Ground Clearance SBS® 75G	0.26	6.7	
Auxiliary Creepage SBS® 75X	0.12	3.0	
Auxiliary Clearance SBS® 75X	0.12	3.0	

IEC INFORMATION

Connector Series	Configurations	Creepage / Clearance per IEC 60950-1	Material Group
SBS® 75G	Unmated Mated	3.33 mm 4.64 mm	IIIa

Connector Series	Configurations	Creepage / Clearance per IEC 60950-1	Material Group
SBS® 75X	Unmated Mated	3.33 mm 4.64 mm	IIIa

Connector Series	Configurations	Creepage / Clearance per IEC 60950-1	Material Group
SBS® 50	Unmated Mated	3.85 mm 4.64 mm	IIIa

PROTECTION	
Touch Safety with Wire Contacts & PCB Mating Interface	
IEC 60950	Pass
IEC 60529	IP20

ATTRIBUTES	SBS® 50
AMP Rating AC/DC - Power Only	6 AWG - 75A**,** 8 AWG 65A - 10 AWG - 45A, 12 AWG - 35A
Voltage Rating AC/DC (Steady State)	600 AC / DC (Operational)
Auxiliary Contacts	NA
Breaking Capacity - AMP Rating / Cycles - Power Contacts	6 AWG - 50A, 120 VDC / 250 Cycles
Breaking Capacity - Auxiliary Contacts	NA
Voltage Rating (Breaking Capacity)	120 VDC
Finger Safety - Mated only	IEC 60529 - IP20
Wire Size Tested	Power 12, 10, 8, 6 AWG
Contact Series Tested	1339G2, 1339G3, 1339G5
Auxiliary contacts	NA
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test - 11j, 11i & 11g
Cycle Life	IEC 60512 Test 9a - 5,000 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

ATTRIBUTES	SBS® 75X
AMP Rating AC/DC - Power only	6 AWG - 75A, 8 AWG 65A - 10 AWG - 45A, 12 AWG - 35A
Power Contacts and Auxiliary Contacts (Auxiliary contacts at 15A)	6 AWG - 75A, 8 AWG 60A - 10 AWG - 35A, 12 AWG - 30A
Auxiliary Contacts	12 AWG - 15A
Voltage Rating AC/DC (Steady State)	600V AC/DC (Operational)
Auxiliary Contacts	12 AWG - 15A
Breaking Capacity - AMP Rating / Cycles - Power Contacts	6 AWG - 50A, 120 VDC / 250 Cycles
Breaking Capacity - Auxiliary Contacts	12 AWG - 5A, 120 VDC / 250 Cycles
Voltage Rating (Breaking Capacity)	120 VDC
Finger Safety - Mated Only	IEC 60529 - IP20
Wire Size Tested	Power 12 AWG, 10 AWG , 8 AWG, 6AWG / Signal 12 AWG
Contact Series Tested	Power 1339G2, 1339G3, 1339G5
Auxiliary Contacts	PM16P12S30, PM16S12S32
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test - 11j, 11i & 11g,
Cycle Life	IEC 60512 Test 9a - 5,000 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

Attributes	SBS® 75G
AMP Rating AC/DC - Power Only	110
Power Contacts and Auxiliary contacts (Auxiliary contacts at 15A)	NA
Auxiliary Contacts	NA
Voltage Rating AC/DC (Steady State)	600V AC/DC (Operational)
Auxiliary Contacts	NA
Breaking Capacity - AMP Rating / Cycles - Power Contacts	6 AWG - 50A, 120 VDC / 250 Cycles
Breaking Capacity - Auxiliary Contacts	NA
Voltage Rating (Breaking Capacity)	120 VDC
Finger Safety - Mated Only	IEC 60529 - IP10, IP20
Wire Size Tested	6 AWG
Contact Series Tested	Power 1339G2, 1339G3, 1339G5 / Ground 1340G1
Auxiliary Contacts	NA
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test-11j, 11i & 11g
Cycle Life	IEC 60512 Test 9a - 1,500 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

Attributes	SBS® 75G and GPR (PCB)
AMP Rating AC/DC - Power Only	110
Power Contacts and Auxiliary contacts (Auxiliary contacts at 15A)	NA
Auxiliary Contacts	NA
Voltage Rating AC/DC (Steady State)	600V AC / DC (Operational)
Auxiliary Contacts	NA
Breaking Capacity - AMP Rating / Cycles - Power Contacts	6 AWG - 50A,120 VDC / 250 Cycles
Breaking Capacity - Auxiliary Contacts	NA
Voltage Rating (Breaking Capacity)	120 VDC
Finger Safety - Mated Only	IEC 60529 - IP20
Wire Size Tested	6 AWG
Contact Series Tested	Power B02075P1 / Ground B02114P1
Auxiliary Contacts	NA
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test - 11j, 11i & 11g
Cycle Life	IEC 60512 Test 9a - 1,500 Cycles
Mechanical Strength Impact	NA
Temperature Range	-20°C to 105°C -4°F to 221°F

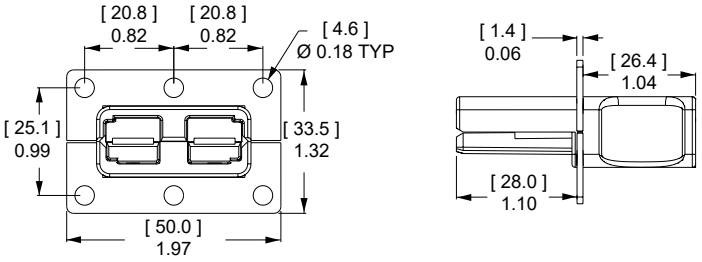
SBS® ACCESSORIES

Mounting Clamp for SBS® 50 *

Mounting clamps can be used for fastening a SBS® 50 series housings to a panel. Fastening hardware not included.

Description	Part Number
Minimum Quantity	20 sets of 2
Panel Mount Bracket for SBS® 50	1466G1

* Torque value 5 (in - lbs) / 0.56 (Nm)

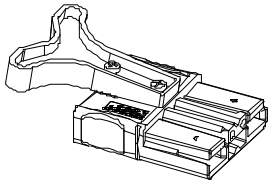


T-Handles for SBS® 50 and SBS® 75X *

The “T” handles make mating and unmating the connector easier. The non-conductive polycarbonate or chemical resistant PBT red plastic material is strong and safe.
(2) Self tapping screws are used to secure the handle to the connector housing.

Description	Part Numbers	
Minimum Quantity	1,000	50
Red “T” Handle + Hardware Bag	-	SBS50-HDL-RED
Hardware Bag (2 Screws)	-	104G17
Red “T” Handle Only	113899P1	-
PBT SBS50 “T” Handle, Red	113899P2	-
#8 x 5/8” Screw (Order 2 Per Handle)	H1120P55	-
PBT SBS® 50 Handle, Red + Hardware	-	PSBS50-HDL-RED

* Torque value 10 (in - lbs) / 1.13 (Nm)

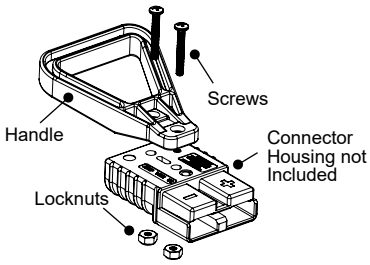


“A” Frame Handle for SBS® 50 and SBS® 75X *

Handle makes mating and unmating the connector easier. The non-conductive gray plastic material is strong and safe. Machine screws and locknuts included.

Description	Part Number
Minimum Quantity	200
Gray “A” Handle & Hardware	997G1

* Torque value 12 (in - lbs) / 1.4 (Nm)

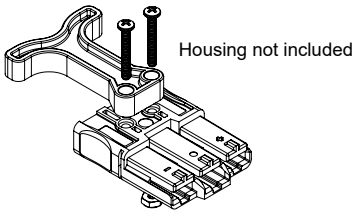


T-Handle for SBS® 75G *

The “T” handle makes mating and unmating the connector easier. The non-conductive red plastic material is strong and safe. (2) Machine screws and lock nuts.

Description	Part Number
Minimum Quantity	50
Red “T” Handle + Hardware Bag	SBS75GHDLRED

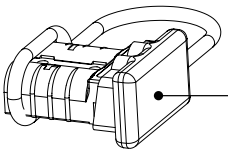
* Torque value 10 (in - lbs) / 1.13 (Nm)



Dust Cover SBS® 50

Prevents dust and dirt from entering the mating interface of the connector when unmated. *NOTE: Not a Hermetic Seal.*

Description	Part Numbers	
Minimum Quantity	500	50
Dust Cover with Lanyard Strap, Red	113890P1	134G1



Shown with the SB® 50

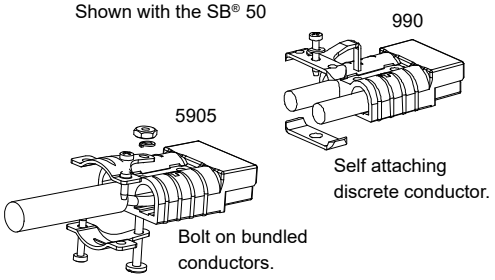
Cable Clamps for SBS® 50 *

Durable metal cable clamps securely hold cables to prevent accidental strain or pulls from dislodging wire or contacts from the housing. Cable clamps are recommended for solder terminated wires.

Description	Cable Size AWG or (Inches O.D.) *	Cable Size mm² or (mm O.D.) *	Part Numbers	
Minimum Quantity			500	50
Self Attaching for Discrete Conductor	8 to 6	10	990-BK	990
Self Attaching for Discrete Conductor	12 to 10	2.5 to 4	990G2-BK	990G2
Bolt On for Discrete Conductor	12 to 6	2.5 to 10	990G1-BK	990G1
Bolt On for Bundled Conductor	0.320 to 0.450	4.27 to 11.43	5905-BK	5905

* Torque value 12 (in - lbs) / 1.4 (Nm) *NOTE: For assembly of clamp to housing only*
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.

Shown with the SB® 50



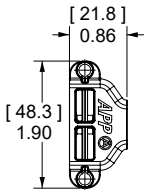
Cable Clamps for SBS® 75X with Integral Handle *

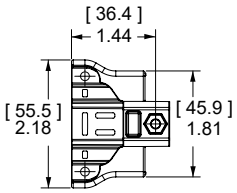
Rugged chemical resistant PBT/ PC plastic cable clamps securely hold cables to prevent accidental strain or pulls from dislodging wire or contacts from the housing. Cable clamps are recommended for solder terminated wires.

Description	Cable Size AWG or (Inches O.D.) **	mm² or (mm O.D.) **	Part Numbers	
Minimum Quantity			100	25
Large Wire Clamp Kit w/ Hardware	12 to 6 (0.39 to 0.60)	4 to 10 (9.9 to 15.2)	PSBS75XCLP1-BK	PSBS75XCLP1
Small Wire Clamp Kit w/ Hardware	12 to 6 (0.34 to 0.55)	4 to 10 (8.6 to 14.0)	PSBS75XCLP2-BK	PSBS75XCLP2

* Torque value 5 (in - lbs) / 0.56 (Nm).

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



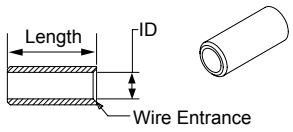


Clamp hardware requires phillips or flat blade screwdriver to assemble.

Reducing Bushings

Use with contact part number 1339G2-BK or 1340G1-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

Contact Barrel Size AWG	Contact Barrel Size mm²	Wire Size AWG	Wire Size mm²	Part Numbers			Dimensions - ID - inches	Dimensions - ID - mm	Dimensions - Length - inches	Dimensions - Length - mm
Minimum Quantity				3,000	1,000	100				
6	13.3	8	8.4	-	5912-BK	5912	0.18	4.6	0.45	11.4
6	13.3	12 to 10	3.3 to 5.3	5910-BK	-	5910	0.14	3.6	0.47	11.9
6	13.3	16 to 14	1.3 to 2.1	5913-BK	-	5913	0.09	2.3	0.47	11.9



See drawings on website for further detail

SBS® TOOLING INFORMATION

Wire Size		Power / Ground Contacts								
AWG	mm²	Power Contact Part Number	Pnenumatic Bench Tool	+	Die	+	Locator	Number of Crimps	OR	Hand Tool
6	13.3	1339G2	1387G1		1388G6		1389G9	Single		1309G4
8	8.4	1339G5								
10 to 12	5.3 to 3.3	1339G3			1388G7					
6	13.3	1340G1			1388G6		1389G20			
8	8.4	1340G2								
10 to 12	5.3 to 3.3	1340G3			1388G7					

Wire Size		SBS® 75X Auxiliary Contacts								
AWG	mm²	Auxiliary Contact Part Number	APP® Hand Tool w/ Integral Locator	OR	Mil Std. Hand Tool* M22520/1-01	OR	Pneumatic Tool*	Number of Crimps	+	Locator for: TM0001 & TP0001
12 to 24	2.5 to 0.25	All Crimp Pins	PM1000G1		TM0001		TP0001	Single		TL0001
		All Crimp Sockets								TL0002
SBS® 75X Auxiliary Contact Insertion Tool: PM1002G1										
SBS® 75X Auxiliary Contact Extraction Tool: PM1003G1										
SBS® 75X Auxiliary Contact Insertion Inspection Tool: PM1003GX										
SBS® 75X Insertion Tool: 111038G3										

** TP0001 and TM0001 tools require locators TL0001 for Pins and TL0002 for Sockets.*

NOTE: See website for the most current information.

The auxiliary contacts used with wire sizes 16 to 24 AWG cannot be properly inserted without the insertion tool. Properly installed auxiliary contact of all wire gauges cannot be removed from the hosing without the extraction tool. It is highly recommended that inspection tool be used to ensure the auxiliary contacts are seated properly.