SBS®X-75A



Sealed Connector Series

- Industrial / Commercial Power Equipment Material Handling / Automation
- Agricultural / Construction Lawn / Garden Equipment Marine









SBS[®]X-75A

The SBS®X-75A sealed waterproof connectors come in a multiple of configuration offerings with up to a maximum of 140A of power and the durability of up to 5,000 mating cycles. Positive metal latches help safeguard against accidental disconnects that may be caused by vibration, while the built-in cable clamp allows for strain relief on wires.

The compact sleek high-power design of these environmentally rugged connectors makes them ideal for outdoor applications. The IP68 weatherproof rating ensures that the connector will be free of water for full protection up to 30 minutes at 6 feet in the mated conditions, or with the use of covers in unmated condition.











600 Volts / 140A

5,000 Mating Cycles

Operating Temperature -20°C to 105°C / -4 °F to 221°F

Dust - Water - Shock

SPECIFICATIONS

Current Rating A	mperes ¹	Power	Only	4	Pole		6 Pole	
Wire to Wire	Wire to Wire		No Signals		Signals Energized 20 AWG - 10 amps		Signals Energized Using PPMX Contacts (20 AWG - 3 amps)	
AWG	mm²	UL	CSA	UL	CSA	UL	CSA	
4 AWG	25	140	85	135	80	125	75	
6 AWG	16	100	65	95	60	N/A	N/A	
8 AWG	10	95	58	93	53	93	53	
10 AWG	6	75	45	75	45	N/A	N/A	
Wire to Wire & V 6 AWG (16 mm²)	Vire to Panel Mount with Gro Wire	ound* 90	65	N/A	N/A	N/A	N/A	
Wire Plug to Pan	el Mount Receptacle							
4 AWG (25 mm ²	?) Wire	145	90	140	85	N/A	N/A	
Panel Mount Plu	g to Panel Mount Receptacle							
4 AWG (25 mm ²	²) Wire	140	85	135	80	N/A	N/A	
Voltage Rating A	C/DC							
UL 1977		600V		600V		600V		
Dielectric Withst	anding Voltage							
Volts AC		2,200		2,200		2,200		
Average Mated C	ontact Resistance Milliohms	1						
Power 1/4 in. of	4 AWG (25 mm²) Wire	0.16 m Ω		0.16m Ω	!	$0.16m~\Omega$		
Ground 1/4 in. o	of 6 AWG (16 mm²) Wire	0.22m Ω		N/A		N/A		
Auxiliary 14 AW	G (1.0 to 1.5 mm²) Wire	2.50m Ω		2.50m Ω	!	20 AWG (.25m	m²) 3 amps - 9.0 ር	
UL Hot Plug Curre	ent Rating Amperes	250 cycles at 120	DV DC	250 cycle	es at 120V DC			
4 AWG (25 mm²	2) Wire	50A		50A				
Ground Short Tin	ne Current Test							
1530 Amps (6 A	WG / 16mm²) Wire	6 Seconds						
Touch Safe	Per UL 6	60950-1, UL 62368-1 & IEC	C 60529 ³	Pe	r UL 60950-1	, UL 62368-1 &	IEC 605293	

MECHANICAL	4 Pole		6 Pole	
Wire Size Range				
Power Contacts	10 to 4 AWG (2.5 to 25	.0 mm²)	10 to 4 AWG (2.5 to 25	.0 mm²)
Auxiliary Contacts	14 to 24 AWG (1.5 mm	² to 0.50)	24 to 20 AWG (0.50 to	0.75 mm²)
Pre-Mate Contacts Ground Only 12 t	to 6 AWG (2.5 to 16mm²)			
Maximum Wire Insulation Diameter				
Power/Ground	0.44 in. (11.18 mm)		0.44 in. (11.18 mm)	
Auxiliary	0.44 in.(11.18 mm)		Discrete Wires- 20 AW 6 Cond. Jacketed Cable	, ,
Operating Temperature ²	-20° to 105°C (-4 to 22	1°F)	-20° to 105°C (-4 to 221	1°F)
Mating Cycles No Load by Plating	5,000		5,000	
Average Mating / Unmating Force				
Wire = Lbs / Kg	4 AWG (25 mm²) = 6.5	Lbs (2.95 Kg)	4 AWG (25 mm²) = 6.5 Lbs (2.95 Kg)	
203/10	., (20)	(0)		
Ground Wire = Lbs / Kg 6 AWG (16r	, ,	, o,		
Ground Wire = Lbs / Kg 6 AWG (16r	mm²) / 12 Lbs (5.44 Kg)	. 3		
Ground Wire = Lbs / Kg 6 AWG (16r	mm²) / 12 Lbs (5.44 Kg)	Clearance	Creepage	Clearance
Ground Wire = Lbs / Kg 6 AWG (16r	mm²) / 12 Lbs (5.44 Kg)		Creepage 1.50 in. (38.1 mm)	
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant	mm²) / 12 Lbs (5.44 Kg) nce Creepage	Clearance		0.900 in. (22.86 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distar Power to Power	mm²) / 12 Lbs (5.44 Kg) nce Creepage 1.50 in. (38.1 mm)	Clearance 0.900 in. (22.86 mm)	1.50 in. (38.1 mm)	0.900 in. (22.86 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal	mm²) / 12 Lbs (5.44 Kg) nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm)	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm)	0.900 in. (22.86 mm) 0.397 in. (10.08 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin	mm²) / 12 Lbs (5.44 Kg) nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm)	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm]	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm)	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket	nnce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm)	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket Pin to Socket	nnce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm)	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)	0.900 in. (22.86 mm 0.397 in. (10.08 mm 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket Pin to Socket Power to Ground Creepage = 1.20" (3	nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm) 30.5mm) Clearance=0.28	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm) 0.535 in. (13.59 mm)	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket Pin to Socket Power to Ground Creepage = 1.20" (3	nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm) 30.5mm) Clearance=0.28	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm) 0.535 in. (13.59 mm)	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket Pin to Socket Power to Ground Creepage = 1.20" (3) Pull Out Force with Cable Clamp Pull Out Force with Cable Clamp Ground	mm²) / 12 Lbs (5.44 Kg) nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm) 30.5mm) Clearance=0.28 60 lb. [267N] Ind Only 60lb. [267N] 35 lb. [156N]	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm) 0.535 in. (13.59 mm) 60 lb. [267N]	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)
Ground Wire = Lbs / Kg 6 AWG (16r Minimum Creepage / Clearance Distant Power to Power Power to Signal Pin to Pin Socket to Socket Pin to Socket Power to Ground Creepage = 1.20" (3) Pull Out Force with Cable Clamp Pull Out Force with Cable Clamp Group Push Out Retention Force Auxiliary	mm²) / 12 Lbs (5.44 Kg) nce Creepage 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.097 in. (2.46 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm) 30.5mm) Clearance=0.28 60 lb. [267N] Ind Only 60lb. [267N] 35 lb. [156N]	Clearance 0.900 in. (22.86 mm) 0.640 in. (16.26 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.485 in. (12.3 mm)	1.50 in. (38.1 mm) 1.727 in. (43.87 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm) 0.535 in. (13.59 mm) 60 lb. [267N]	0.900 in. (22.86 mm) 0.397 in. (10.08 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm)

Per UL50E⁴



IP68

IP68 Ground

600 Volts / 140A

Per UL50E⁴

Per UL50E⁴

MATERIALS		
Housing, Cable Clamps, Covers	PC/PBT	PC/PBT
Signal / Ground Housing	PC	PC
Latches, Spring, Screws	Stainless Steel	Stainless Steel
O-Rings, Grommets	Silicone	Silicone
Panel Mount Gasket	NBR	NBR
Housing Flammability Rating	UL94 V0	UL94 V0
Glow Wire (1.0 mm)	960°C per 60695-2-12	960°C per 60695-2-12
Wire Power Contact	Silver Plated Copper Alloy	Silver Plated Copper Alloy
SBS® 75X Auxiliary Contacts		
Pin	Copper Alloy, Au over Ni	Gold Plated Copper Alloy
Socket	Be Cu, Au over Ni	Gold Plated Copper Alloy
Socket Body	Copper Alloy, Tin Bright over Ni	Copper Alloy, Tin Bright over Ni
Retention Clip	Stainless Steel	Stainless Steel

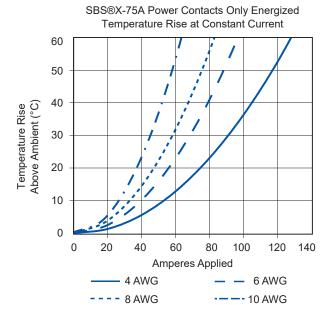
NOTES:

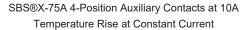
- 1 Current amperage ratings are based on 105°C rated or better cable of the largest wire size using properly calibrated Anderson recommended tooling, and a 25°C ambient temperature, or CSA rating below a 30°C temperature rise. UL rating not to exceed the maximum operating temperature. Connector to be assembled and installed according to the manufacturer's instructions.
- 2 Operating Temperatures are limited by the thermal properties of the connector's plastic housing.
- 3 Sealed Connector Series offers protection against electric shock for finger safety both in mated and unmated condition. The Sealed SBS®X-75A Connector Series was tested for IP Code 1X-2X per clause 12- & 13 of IEC 60529, Edition 2.2, issued 2013-8 + Corr. 1:2013-10 + Corr. 2:2015-01. The connector was tested for IP1X and IP2 in mated and unmated condition, which is representative of protection against access to energized parts contained in UL 60950-1 2nd Edition, 2011-12-19 and UL 62368-1 3rd Edition, 2021-10-22.
- 4 The Sealed SBS®X-75A Connector Series was subjected to submersion test, covered by UL 50E Standard for Enclosures for Electrical Equipment Environmental Considerations, 3rd Edition, with a pressure equivalent to 6 feet of water and for a duration of 30 minutes for the equivalent IP68 compliance. Note panel mount-to-panel mount configuration has not been tested for ingress protection rating: contact manufacturer to determine if it will work for your application.
- 5 6 position auxiliary housing utilizes PPMX contacts.
- 6 It is recommended that for SBS®X-75A, customers use individual discrete wires for power, and jacketed cables for signaling to limit strain on smaller auxiliary wires.

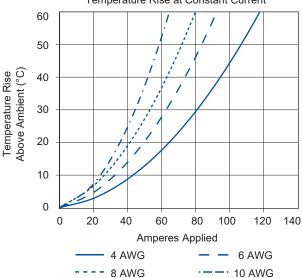


Operating Temperature -20°C to 105°C / -4 °F to 221°F

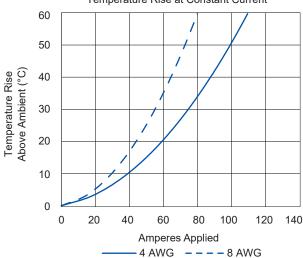
TEMPERATURE CHARTS



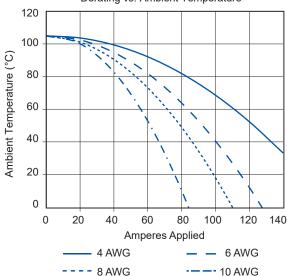




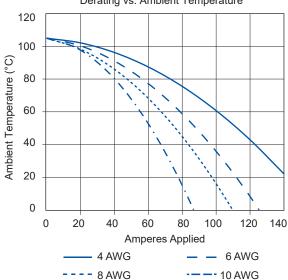
SBS®X-75A 6-Position Auxiliary Contacts at 3A
Temperature Rise at Constant Current



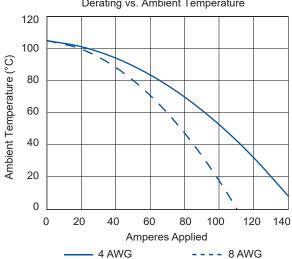
SBS®X-75A Power Contacts Only Energized Derating vs. Ambient Temperature



SBS®X-75A 4-Position Auxiliary Contacts at 10A
Derating vs. Ambient Temperature

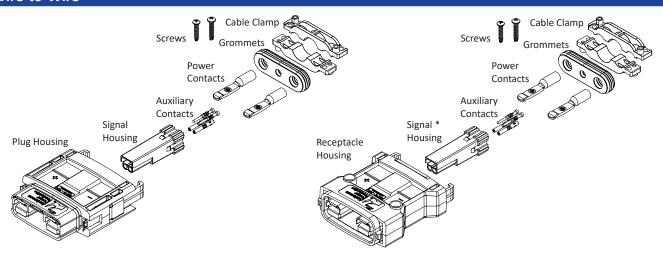


SBS®X-75A 6-Position Auxiliary Contacts at 3A Derating vs. Ambient Temperature

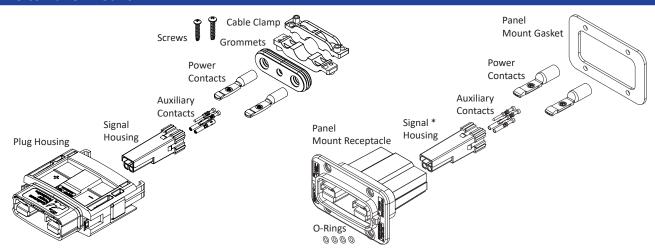


COMPONENTS - *Center Signal housings are available in 4 or 6 positions. See ordering section for details.

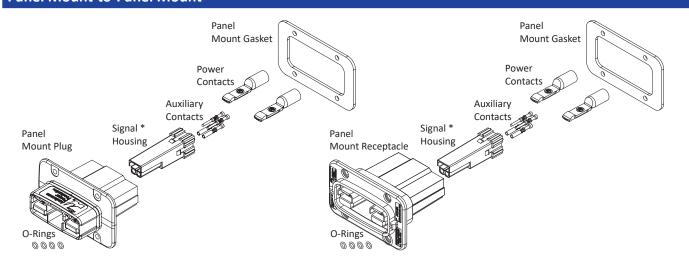
Wire-to-Wire



Wire-to-Panel Mount

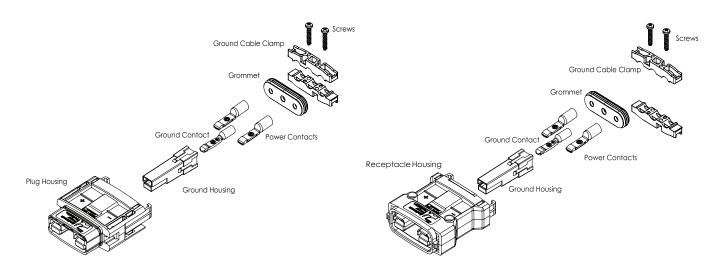


Panel Mount-to-Panel Mount

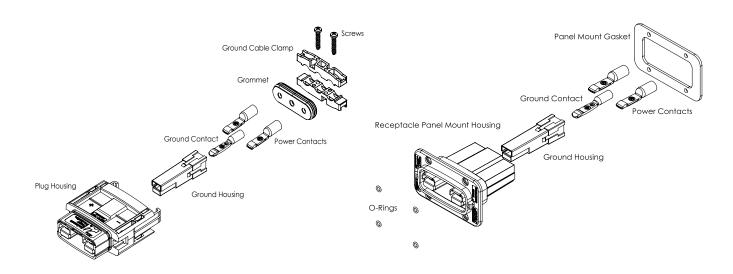


COMPONENTS - *Center Ground Housing & Contact

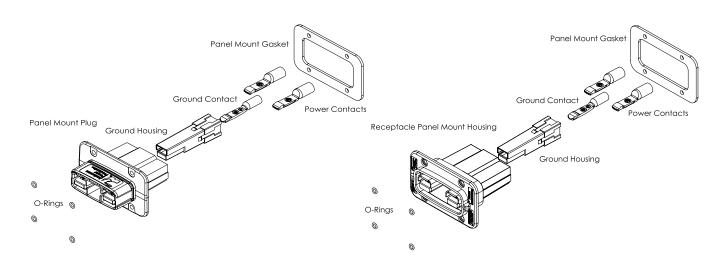
Wire-to-Wire



Wire-to-Panel Mount

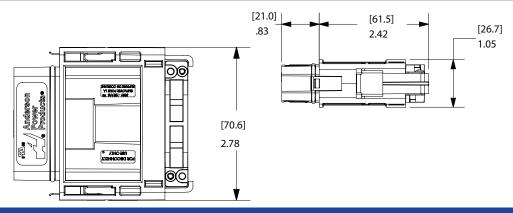


Panel Mount-to-Panel Mount

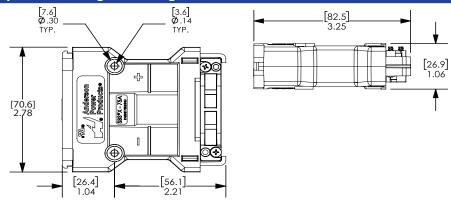


DIMENSIONS - Plug & Receptacle Housings (*see drawing document for complete details)

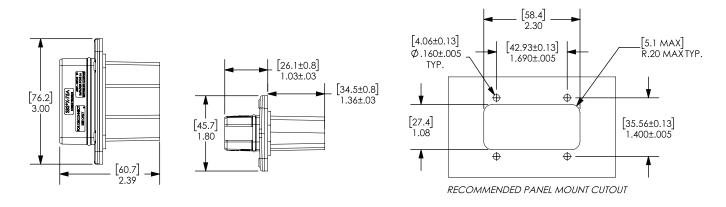
Plug Housing - *Drawing 115986S1



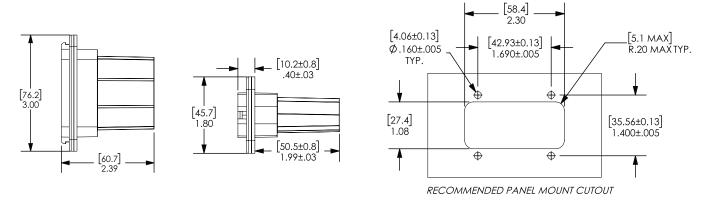
Receptacle Housing-*Drawing 115987S1



Panel Mount Plug-*Drawing 115991S1



Panel Mount Receptacle- *Drawing 115990S1



ORDERING INFORMATION - Color denotes signal or ground housings only. All other housings are black. Signal housings are available in 4 or 6 position styles. 6 position utilizes PPMX contacts. Ground utilizes ground contacts.

Step 1: Select the Housing Kit - Packaged as Individual Kits. Contacts and Grommets Sold Separately, See Step 2 & 3

Image	Part Number	Description - Sealed SBS®X-75A	Kit Includes - Housing, Signal Housing and Below Parts	
	Minimum Quantity		25	
	SBSX75A-PLUG-KIT-RED	Male Plug - Red	Latches, Cable Clamp, Hardware & Front O-Rings	
	SBSX75A-PLUG-KIT-BLU	Male Plug - Blue	Latches, Cable Clamp, Hardware & Front O-Rings	
W STATE	SBSX75A-PLUG-KIT-GRA	Male Plug - Gray	Latches, Cable Clamp, Hardware & Front O-Rings	
	SBSX75A-PLUG-KIT-BLK	Male Plug - Black	Latches, Cable Clamp, Hardware & Front O-Rings	
	SBSX75A-6AUX-PLUG-KIT-WHT	6 Position Auxiliary Male Plug - White	6 Position Signal Housing, Contact Holder, Latches, Cable Clamp, Hardware & Front O-rings	
	SBSX75A-GND-PLUG-KIT-GRN	Male Plug- Green (Ground)	Ground Housing, Latches, Cable Clamp, Hardware & Front O-Rings	
*	SBSX75A-REC-KIT-RED	Female Receptacle - Red	Cable Clamp, Hardware	
	SBSX75A-REC-KIT-BLU	Female Receptacle - Blue	Cable Clamp, Hardware	
	SBSX75A-REC-KIT-GRA	Female Receptacle - Gray	Cable Clamp, Hardware	
1	SBSX75A-REC-KIT-BLK	Female Receptacle - Black	Cable Clamp, Hardware	
	SBSX75A-6AUX-REC-KIT-WHT	6 Position Auxiliary Female Receptacle - White	6 Position Signal Housing, Contact Holder, Cable Clamp, Hardware	
	SBSX75A-GND-REC-KIT-GRN	Female Receptacle - Green (Ground)	Ground Housing, Cable Clamp, Hardware	
	SBSX75A-PMREC-KIT-RED	Panel Mount Receptacle - Red *	Panel Gasket, Mounting O-Rings	
	SBSX75A-PMREC-KIT-BLU	Panel Mount Receptacle - Blue *	Panel Gasket, Mounting O-Rings	
%	SBSX75A-PMREC-KIT-GRA	Panel Mount Receptacle - Gray *	Panel Gasket, Mounting O-Rings	
	SBSX75A-PMREC-KIT-BLK	Panel Mount Receptacle - Black *	Panel Gasket, Mounting O-Rings	
	SBSX75A-6AUX-PMREC-KIT-WHT	6 Position Auxiliary Panel Mount Receptacle - White	6 Position Signal Housing, Contact Holder, Panel Gasket, Mounting O-Rings	
	SBSX75A-GND-PMREC-KIT-GRN	Panel Mount Receptacle - Green (Ground)*	Ground Housing, Panel Gasket, Mounting O-Rings	

Step 1: Continued			
Image	Part Number	Description - Sealed SBS®X-75A	Kit Includes - Housing, Signal Housing and Below Parts
	Minimum Quantity		25
	SBSX75A-PMPLUG-KIT-RED	Panel Mount Plug - Red *	Front O-Ring, Panel Gasket, Mounting O-Rings
	SBSX75A-PMPLUG-KIT-BLU	Panel Mount Plug - Blue *	Front O-Ring, Panel Gasket, Mounting O-Rings
	SBSX75A-PMPLUG-KIT-GRA	Panel Mount Plug - Gray *	Front O-Ring, Panel Gasket, Mounting O-Rings
	SBSX75A-PMPLUG-KIT-BLK	Panel Mount Plug - Black *	Front O-Ring, Panel Gasket, Mounting O-Rings
	SBSX75A-6AUX-PMPLUG-KIT- WHT	6 Position Auxiliary Panel Mount Plug - White	6 Position Signal Housing, Contact Holder, Front O- Ring, Panel Gasket, Mounting O-Rings
	SBSX75A-GND-PMPLUG-KIT- GRN	Panel Mount Plug - Green (Ground) *	Ground Housing, Front O-Ring, Panel Gasket, Mounting O-Rings

Bulk Component Ordering Information - All components sold separately. For grommets and contacts, see step 2 & 3.

see step 2 & s.			
Image	Part Number Description - Sealed SBS®X-75A		Includes
	Minimum Quantity		100
	SBSX75A-PLUG-BLK	Male Plug Housing	Housing, Latches & O-Rings
	SBSX75A-REC-BLK	Female Receptacle Housing	Housing
	SBSX75A-PMREC-BLK	Panel Mount Receptacle Housing	Housing
	SBSX75A-PMPLUG-BLK	Panel Mount Plug Housing *	Housing, Front O-Ring

^{*} Panel Mount Plug mates with Panel Mount Receptacle for Panel-to-Panel applications. Please note that this configuration has not been tested for Ingress protection ratings, please contact the manufacturer for further details on this requirement to see if it will work for your application needs. Panel Mount hardware not included.

Step 1 Continued - Bulk Components Continued

	Minimum Quantity		200
	2-8840P1	Signal Housing - Red	Housing
	2-8840P2	Signal Housing - Blue	Housing
	2-8840P3	Signal Housing - Gray	Housing
	2-8840P4	Signal Housing - Black	Housing
	B02893G1	Ground Housing- Green	Housing
	2-8860P1	6 Position Signal Housing- White	Housing
	2-8859P1	6 Position Contact Holder- Black	Contact Holder
	2-8841P1	Cable Clamp	Cable Clamp (set of two)
	2-8863P1	Ground Cable Clamp	Cable Clamp (set of two)
Comple	H1120P62	#4 to 20 5/8" (15.88 mm) Plastite Head Screws - Cable Clamp	Screws
(;) 00 00	108G1	Panel Mount Hardware Kit	Panel Mount Gasket, Mounting O-Rings

Covers - Use Whe	Covers - Use When Parts are Unmated for IP68 Protection						
Image	Part Number	Description - Sealed SBS®X-75A	Includes				
	Minimum Quantity	100					
No. Andrews	SBSX75A-PLUG-COVER	Plug Cover *	Housing, Lanyard				
	SBSX75A-REC-COVER	Receptacle Cover	Housing, Latches, O-Ring, Lanyard				
	SBSX75A-PMREC-COVER	Panel Mount Receptacle Cover	Housing, Latches, O-Ring, Lanyard				
00	SBSX75A-PMREC-FTCOVER	Panel Mount Flip-top Cover	Flip-top Cover, Mounting Rings (2)				

^{*} Inquire with Manufacturer or Sales Representative regarding panel mount plug covers



Looking for an ergonomic strain relief for use with our SBS®X-75A series connectors?

Please contact us at Anderson Power for more details.



Dust - Water - Shock Protection

Step 2: Grommets Sold Separately

To select proper grommet size, you will need to know the outer diameter of jacketed cable for each of the Power and Signal cables. Find your overall power size, then determine appropriate outer dimension for both Power and Signal cables. Not using signal, then select NS grommet that matches your power only size. Panel mount housings do not require grommets.

Discrete Wires



Discrete Wire Power & Signal

Part Number	Wire Size AWG	Wire Size mm ²	Power Wire Diameter Range (mm²)	Signal Cable / Wire Size Diameter Range (mm²)
Minimum Quantity 100				
D-150-060	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.08 to 0.10 (2.03 to 2.54)
D-310-060	6 to 4	16	0.31 to 0.34 (7.87 to 8.64)	0.08 to 0.10 (2.03 to 2.54)

Jacket Cable



Jacket Cable Power & Signal (J-xxx-xxx Parts)

Part Number	Wire Size AWG	Wire Size mm²	Power Wire Diameter Range (mm²)	Signal or Ground Cable Wire Size Diameter Range (mm²)
Minimum Quantity 100				
J-150-150	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.15 to 0.18 (3.81 to 4.57)
J-150-180	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.18 to 0.21 (4.57 to 5.33)
J-150-320	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.32 to 0.35 (8.13 to 8.89)
J-150-350	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.35 to 0.38 (8.89 to 9.65)
J-150-380	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.38 to 0.41 (9.65 to 10.41)
J-150-410	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	0.41 to 0.44 (10.41 to 11.18)
J-240-150	8	10	0.24 to 0.27 (6.10 to 6.86)	0.15 to 0.18 (3.81 to 4.57)
J-240-180	8	10	0.24 to 0.27 (6.10 to 6.86)	0.18 to 0.21 (4.57 to 5.33)
J-240-240	8	10	0.24 to 0.27 (6.10 to 6.86)	0.24 to 0.27 (6.10 to 6.86)
J-240-320	8	10	0.24 to 0.27 (6.10 to 6.86)	0.32 to 0.35 (8.13 to 8.89)
J-240-350	8	10	0.24 to 0.27 (6.10 to 6.86)	0.35 to 0.38 (8.89 to 9.65)
J-240-380	8	10	0.24 to 0.27 (6.10 to 6.86)	0.38 to 0.41 (9.65 to 10.41)
J-240-410	8	10	0.24 to 0.27 (6.10 to 6.86)	0.41 to 0.44 (10.41 to 11.18)
J-310-150	6	16	0.31 to 0.34 (7.87 to 8.64)	0.15 to 0.18 (3.81 to 4.57)
J-310-180	6	16	0.31 to 0.34 (7.87 to 8.64)	0.18 to 0.21 (4.57 to 5.33)
J-310-310	6	16	0.31 to 0.34 (7.87 to 8.64)	0.31 to 0.34 (7.87 to 8.64)
J-310-320	6	16	0.31 to 0.34 (7.87 to 8.64)	0.32 to 0.35 (8.13 to 8.89)
J-310-350	6	16	0.31 to 0.34 (7.87 to 8.64)	0.35 to 0.38 (8.89 to 9.65)
J-310-380	6	16	0.31 to 0.34 (7.87 to 8.64)	0.38 to 0.41 (9.65 to 10.41)
J-310-410	6	16	0.31 to 0.34 (7.87 to 8.64)	0.41 to 0.44 (10.41 to 11.18)
J-410-150	4	25	0.41 to 0.44 (10.41 to 11.18)	0.15 to 0.18 (3.81 to 4.57)
J-410-180	4	25	0.41 to 0.44 (10.41 to 11.18)	0.18 to 0.21 (4.57 to 5.33)
J-410-320	4	25	0.41 to 0.44 (10.41 to 11.18)	0.32 to 0.35 (8.13 to 8.89)
J-410-350	4	25	0.41 to 0.44 (10.41 to 11.18)	0.35 to 0.38 (8.89 to 9.65)
J-410-380	4	25	0.41 to 0.44 (10.41 to 11.18)	0.38 to 0.41 (9.65 to 10.41)
J-410-410	4	25	0.41 to 0.44 (10.41 to 11.18)	0.41 to 0.44 (10.41 to 11.18)
NS-150	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	No Signal / No Ground
NS-240	8	10	0.24 to 0.27 (6.10 to 6.86)	No Signal / No Ground
NS-310	6	16	0.31 to 0.34 (7.87 to 8.64)	No Signal / No Ground
NS-410	4	25	0.41 to 0.44 (10.41 to 11.18)	No Signal / No Ground



Power Only (NS-xxx Parts)

NOTE: Don't see your cable size requirements? Speak to Manufacturer or your local Representative about other options regarding custom grommets.

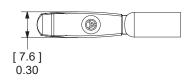
Step 3: Contacts Sold Separately for Power, Ground and Signal

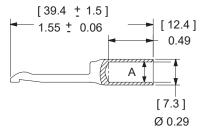
Silver Plated Primary Power Wire Contacts

SBS®X-75A housings use two silver plated contacts per housing for the best electrical performance and durability up to 10,000 mating cycles.

						eter -
Description	AWG	mm²	Part Numbe	rs - Loose Piece	inches	mm
Minimum Quantity			1,000	100		
Standard	4	25	1339G4-BK	1339G4 *	0.28	7.11
	6	16	1339G2-BK	1339G2 *	0.22	5.60
	8	10	1339G5-BK	1339G5 *	0.19	4.70
	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.

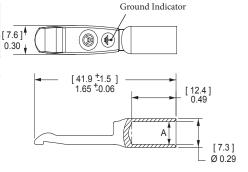




Silver Plated Pre-Mate Wire Contacts

Pre-Mate contacts used for grounding are for the center Pre-Mate position on the SBS*-X75A wire housings.

					Diamo	
Description	AWG	mm²	Part Numbe	rs - Loose Piece	inches	mm
Minimum Quantity			2000	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 Auxiliary 4 Positions

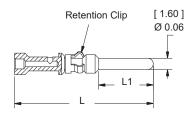
Gold plated contacts are available in 3 lengths to allow sequencing of circuits.

Description	AWG	mm²	Part Numbers
Minimum Quantity			500
Standard Length 7.7 mm	16 to 14	1.0 to 1.5	PM16P1416S30
	20 to 16	0.50 to 1.0	PM16P1620S30
	24 to 20	0.25 to 0.50	PM16P2024S30
Pre-Mate 9.3 mm	16 to 14	1.0 to 1.5	PM16P1416A30
	20 to 16	0.50 to 1.0	PM16P1620A30
	24 to 20	0.25 to 0.50	PM16P2024A30
Post-Mate 6.4 mm	16 to 14	1.0 to 1.5	PM16P1416C30
	20 to 16	0.50 to 1.0	PM16P1620C30
	24 to 20	0.25 to 0.50	PM16P2024C30

Auxiliary Pin Contact Lengths

	-	L-	- L1 -		
Description	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.



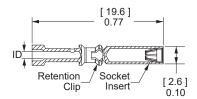
Socket Contacts 4 Position Auxiliary

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

Description	AWG	mm²	Part Numbers
Minimum Quantity			500
Socket Contacts	16 to 14	1.0 to 1.5	PM16S1416S32
	20 to 16	0.50 to 1.0	PM16S1620S32
	24 to 20	0.25 to 0.50	PM16S2024S32

Auxiliary Socket Contacts Crimp Barrel ID

AWG	in.	mm.		
16 to 14	0.08	2.1		
20 to 16	0.07	1.7		
24 to 20	0.04	1.1		

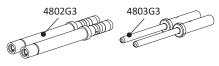


See drawings on website for further details.

Pin & Socket Contacts PPMX 6 Position 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 Numbers				
	Minimum Quantity	7.000		2,000	50			
	Pin Contacts	24 to 20	0.25 to 0.50	4803G3-BK	4803G3			
	Socket Contacts	24 to 20	0.25 to 0.50	4802G3-BK	4802G3			



NOTE: Contacts sold individually, not sold as a set of two.

SBS® TOOLING INFORMATION 5



Wii	e Size	Power Contacts											
AWG	mm²	Power Contact Part Number	Pnenumatic Bench Tool	+	Die	+	Locator	Number of Crimps	OR	Hand Tool			
4	25.0	1339G4								N/A			
6	16	1339G2	120761		1388G6	1388G6	1388G6	1388G6		120000	Cinala		
8	10	1339G5	1387G1				1389G9	Single		1309G4			
12 to 10	2.5 to 6	1339G3			1388G7								

Wi	re Size						Ground Contact			
AWG	mm²	Contacts	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps	OR	Hand Tools
6	16	1340G1			100005					
8	10	1340G2	1387G1		1388G6		1389G20	Single		1309G4
12 to 10	2.5 to 6	1340G3			1388G7					

Wir	e Size				Auxiliary Contacts - 4 Position									
AWG	mm²	Contacts	Pneumatic Bench Tool ⁶	+	Die	+	Locator for: TM0001 & TP0001	Mil Std. Hand Tool ⁶ M22520/1- 01	Number of Crimps	OR	APP® Hand Tool w/ Integral Locator			
14 to 24	1.5 to 0.20	All Crimp Pins	TP0001		N/A		TL0001	TM0001	Single		PM1000G1			
14 (0 24	1.5 to 0.20	All Crimp Sockets			IN/A		TL0002	11010001	Siligic		TWIOOGI			
	Tools													
Auxiliary C	ontact Insertio	on Tool: PM1002G1		Wire Sizes 24 to 16 AWG (0.25 to 1.00mm²)										
Auxiliary C	ontact Insertio	on Tool: 111038G3		Wire Size 14 AWG (1.5mm²)										
Auxiliary Contact Extraction Tool: PM1003G1						·	· ·							
Auxiliary Contact Insertion Inspection Tool: PM1003GX														
Signal Hou	sing Extractio	n Tool: 116081P1 ⁷												

Wi	ire Size				PPMX	(Auxiliary Contacts - 6 Position				
AWG	mm²	Contacts	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps	OR	Hand Tools
20 to 24	0.25 to 0.50	4803G3	TP0001*		N/A		TL0005	Single		TM0001* or
20 to 24	0.20 to 0.00	4802G3			,					PM1000G1

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

NOTES:

- 6 The use of Anderson Power tooling is strongly recommended. The use of alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.
- 7 TP0001 and TM0001 tools require locators TL0001 for Pins and TL0002 for Sockets. The Auxiliary contacts used with wire sizes 14 to 24 AWG (1.5 to 0.50) cannot be properly inserted without the insertion tool. Properly installed Auxiliary contacts of all wire gauges cannot be removed from the housing without the extraction tool. It is highly recommended that inspection tool be used to ensure the auxiliary contacts are seated properly in the housing.
- 8 The Signal Housing Extraction Tool must be used in order to remove the signal housing from the main housing should position be inserted incorrectly for mating. See assembly instructions for further information.



5,000 Mating Cycles

BUILD YOUR PART NUMBER

Step 1	Step 2
Housings (including signal) - Center signal housings available in 4 or 6 positions or ground housings.	Grommets
	Step 3
Cable Clamp	Power / Ground Contacts
Screw	
	Signal Contacts (4 or 6 Position)
Panel Mount Kit	
Covers	Tooling

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