# SBS RX-75A Dust- Water- Shock

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





#### SBS<sup>®</sup>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 / 135A (with Signals)

5,000 Mating Cycles

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

Dust - Water - Shock

#### **SPECIFICATIONS**

ELECTRICAL			POWER ONLY					
Current Rating A	Amperes <sup>1</sup>				4	4 Pole		6 Pole
Wire to Wire		No Sigi	nals	•	Energized i - 10 amps	-	nergized Using PPMX s (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	
8 AWG	10		95	58	93	53	93	53
10 AWG	6		75	45	75	45	N/A	
Wire Plug to Par	nel Mount Receptaci	e						
4 AWG (25 mm²) Wire		145	90	140	85	N/A		
Panel Mount Plu	ug to Panel Mount Re	eceptacle						
4 AWG (25 mm²) Wire		140	85	135	80	N/A		
Voltage Rating A	AC/DC							
UL 1977			600V		600V		600V	
Dielectric Withs	tanding Voltage							
Volts AC			2,200		2,200		2,200	
Average Mated	Contact Resistance N	/lilliohms <sup>1</sup>						
Power 1/4 in. o	of 4 AWG (25 mm²) W	ire	0.16m Ω		0.16m Ω	2	0.16m Ω	
Auxiliary 14 AWG (1.0 to 1.5 mm <sup>2</sup> ) Wire		2.50m Ω		2.50m Ω	2	20 AWG (.25mm²) 3 amps - 9.0 Ω		
UL Hot Plug Curr	rent Rating Amperes		250 cycles at 120	V DC	250 cycl	es at 120V D	C	
4 AWG (25 mm	<sup>2</sup> ) Wire		50A		50A			
Touch Safe		Per UL 60950	-1, UL 62368-1 & IE	C 60529 <sup>3</sup>		Per UL 609	50-1, UL 62368	-1 & IEC 60529 <sup>3</sup>

MECHANICAL	4 Pole		6 Pole			
Wire Size Range						
Power Contacts	10 to 4 AWG (2.5 to 25	5.0 mm²)	10 to 4 AWG (2.5 to 25	5.0 mm²)		
Auxiliary Contacts	14 to 24 AWG (0.50 to	1.5 mm²)				
Maximum Wire Insulation Diameter						
Power	0.44 in. (11.18 mm)		0.44 in. (11.18 mm)			
Auxiliary	0.44 in.(11.18 mm)	() 44 in (11 18 mm)				
Operating Temperature <sup>2</sup>	-20° to 105°C (-4 to 22	21°F)	-20° to 105°C (-4 to 22	1°F)		
Mating Cycles No Load by Plating	5,000		5,000			
Average Mating / Unmating Force						
Wire	4 AWG (25 mm²)		4 AWG (25 mm <sup>2</sup> )			
Lbs / Kg	6.5 Lbs (2.95 Kg)		6.5 Lbs (2.95 Kg)			
Minimum Creepage / Clearance Dist	ance					
	Creepage	Clearance	Creepage	Clearance		
Power to Power	1.50 in. (38.1 mm)	0.900 in. (22.86 mm)	1.50 in. (38.1 mm)	0.900 in. (22.86 mm)		
Power to Signal	1.12 in. (28.4 mm)	0.640 in. (16.26 mm)	1.727 in. (43.87 mm)	0.397 in. (10.08 mm)		
Pin to Pin	0.097 in. (2.46 mm)	0.097 in. (2.46 mm]	0.194 in. (4.93 mm)	0.194 in. (4.93 mm)		
Socket to Socket	0.352 in. (8.94 mm)	0.352 in. (8.94 mm)	0.157 in. (3.99 mm)	0.157 in. (3.99 mm)		
Pin to Socket	1.15 in. (29.21 mm)	0.485 in. (12.3 mm)	0.535 in. (13.59 mm)	0.337 in. (8.56 mm)		
Pull Out Force with Cable Clamp	60 lb. [267N]					
Push Out Retention Force Auxiliary	35 lb. [156N]		35 lb. [156N]			
Pull Out Retention Contact Holder (p	oart no. 2-8859P1)		20 lb. [89N]			
Drop Test	Per UL 486A-486B		Per UL 486A-486B			
IP68	Per UL50E <sup>4</sup>		Per UL50E <sup>4</sup>			
MATERIALS						
Housing, Cable Clamps, Covers	PC/PBT		PC/PBT			
Signal 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	5-2-12	960°C per 60695-2	2-12		
Wire Power Contact	Silver Plated Cop	pper Alloy	Silver Plated Copp	er Alloy		
SBS <sup>®</sup> 75X Auxiliary Contacts						
Pin	Copper Alloy, Au	over Ni	Gold Plated Coppe	er Alloy		
			Gold Plated Copper Alloy			
Socket	Be Cu, Au over N	11	oola latea ooppe			
Socket Body	Be Cu, Au over N Copper Alloy, Tin		Copper Alloy, Tin E			

NOTES:

1 - Current amperage ratings are based on 105°C rated or better cable of the largest wire size using properly calibrated APP® 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.

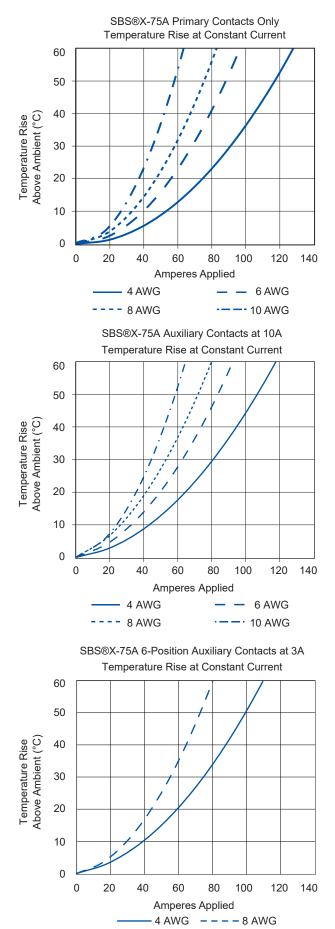
3 - Sealed Connector Series offers protection against electric shock for finger safety both in mated and unmated condition. The Sealed SBS®X-75A Connector Series was tested for IP Code 1X-2X per clause 12- & 13 of IEC 60529 , Edition 2.2, issued 2013-8 + Corr. 1:2013-10 + Corr. 2:2015-01. The connector 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.

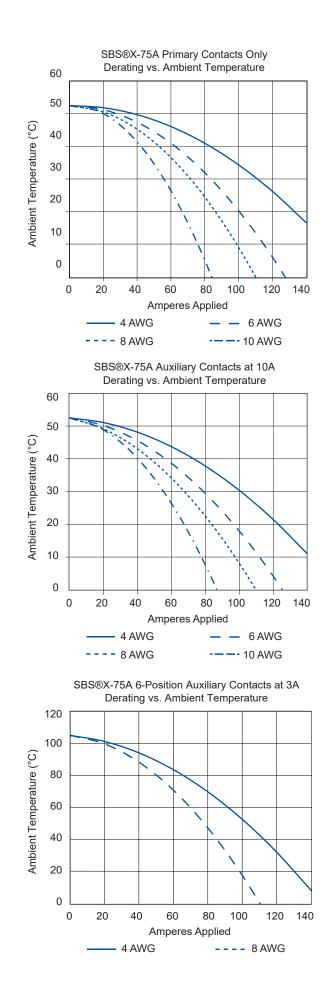
4 - The Sealed SBS®X-75A Connector Series was subjected to submersion test, covered by UL 50E Standard for Enclosures for Electrical Equipment Environmental Considerations, 3rd Edition, with a pressure equivalent to 6 feet of water and for a duration of 30 minutes for the equivalent IP68 compliance. 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.

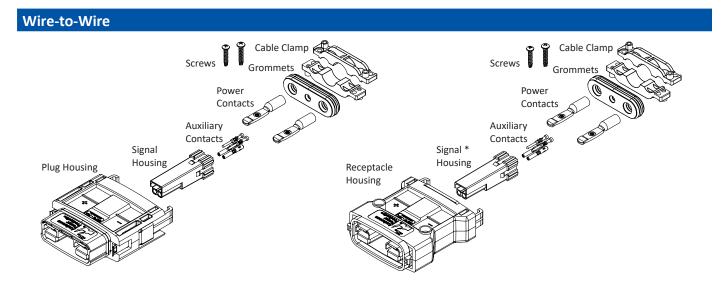
6 - It is recommended that for SBS®X-75A, customers use individual discrete wires for power, and jacketed cables for signaling to limit strain on smaller auxiliary wires.

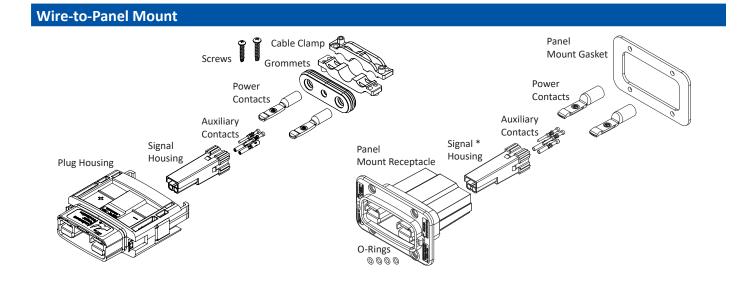
#### **TEMPERATURE CHARTS**

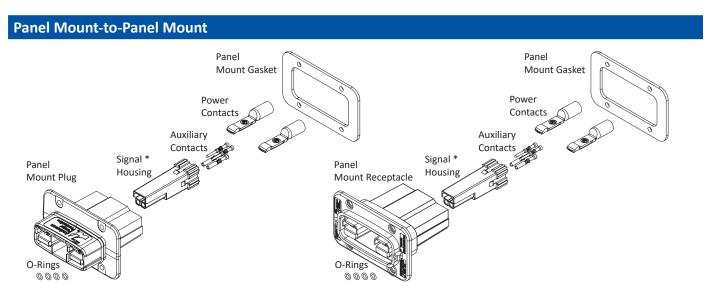




#### **COMPONENTS** - \*Center Signal housings are available in 4 or 6 positions. See ordering section for details.







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

mage	Part Number	Description - Sealed SBS®X-75A	Kit Includes- Housing, Signal Housing and Below Parts
	Minimum Quantity		1
	SBSX75A-PLUG-KIT-RED	Male Plug - Red	Latches, Cable Clamp, Hardware & Front O-Rings
A COL	SBSX75A-PLUG-KIT-BLU	Male Plug - Blue	Latches, Cable Clamp, Hardware & Front O-Rings
X	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-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-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-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

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

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
	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)
7	H1120P62	#4 to 20 5/8" (15.88 mm) Plastite Head Screws - Cable Clamp	Screws
	108G1	Panel Mount Hardware Kit	Panel Mount Gasket, Mounting O-Rings

mage	Part Number	Description - Sealed SBS®X-75A	Includes
	Minimum Quantity		1
	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

\* Inquire with Manufacturer or Sales Representative regarding panel mount plug covers

#### 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**



Part Number	Wire Size AWG	Wire Size mm²	Power Wire Diameter Range (mm²)	Signal Cable / Wire Size Diameter Range (mm <sup>2</sup> )
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)

Power & Signal

#### Jacket Cable



Jacket Cable Power & Signal



Power Only

Part Number	Wire Size AWG	Wire Size mm <sup>2</sup>	Power Wire Diameter Range (mm²)	Signal Cable / Wire Size Diameter Range (mm <sup>2</sup> )
Minimum Quantity 1				
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)
NS-150	10 to 12	2.5 to 6	0.15 to 0.18 (3.81 to 4.57)	No Signal
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-240-320	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)
NS-240	8	10	0.24 to 0.27 (6.10 to 6.86)	No Signal
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-310-320	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)
NS-310	6	16	0.31 to 0.34 (7.87 to 8.64)	No Signal
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-410	4	25	0.41 to 0.44 (10.41 to 11.18)	No Signal

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

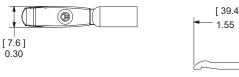
#### Step 3: Contacts Sold Separately for Power and Signal

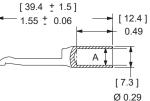
#### **Silver Plated Primary Power Wire Contacts**

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

				Diam - A		
Description	AWG	mm²	Part Numbers - 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.

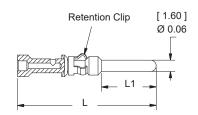




#### **Pin Contacts for Auxiliary 4 Positions**

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

Description	AWG	mm <sup>2</sup>	Part Numbers
Minimum Quantity			500
Standard Length 7.7 mm	16 to 14	1.0 to 1.5	PM16P1416S30
	20 to 16	0.75 to 1.0	PM16P1620S30
	24 to 20	0.50 to 0.75	PM16P2024S30
Pre-Mate 9.3 mm	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	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.

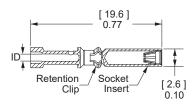
#### **Socket Contacts 4 Position Auxiliary**

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

#### Auxiliary Socket Contacts Crimp Barrel ID

durability up to 10,000 mating cycles.								
Description	AWG	mm²	Part Numbers		AWG	in.	mm.	
Minimum Quantit	У		500					
Socket Contacts	16 to 14	1.0 to 1.5	PM16S1416S32		16 to 14	0.08	2.1	
	20 to 16	0.75 to 1.0	PM16S1620S32		20 to 16	0.07	1.7	
	24 to 20	0.50 to 0.75	PM16S2024S32		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			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	

4802G3 4803G3 (CAAC) Dr ଶ 00

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

#### **SBS® TOOLING INFORMATION 5**

Wir	re Size						Р	owe	er Contacts					
AWG	mm²	Power Contact Part Number		numatic ch Tool	+	Die	e	+	Locator	Number of Crimps		OR	Hand	ТооІ
4	25.0	1339G4	1387G1			13	88G7		1389G9	Single			N/A	
6	13.3	1339G2				1388G6 1388G7				Single				
8	8.4	1339G5	138 <sup>-</sup>	1387G1					1389G9				13090	<u>3</u> 4
10 to 12	5.3 to 3.3	1339G3												
Wire Size Auxiliary Contacts - 4 Position														
AWG	mm²	Contacts	ontacts		Pneumatic Bench Tool <sup>6</sup>		Die	+	Locator for: TM0001 & TP0001	Mil Std. Hand Tool <sup>6</sup> M22520/1- 01	Number of Crimps		OR	APP® Hand Too w/ Integral Locato
14 + 24	All Crimp Pins			TP0001		N			TL0001	TM0001	Single			PM1000G1
14 to 24 0.50		All Crimp Sock	kets				N/A		TL0002	TM0001 Sin		gie		PIVITUUUGT
	Tools													
Auxiliary Contact Insertion Tool: PM1002G1				Wire Sizes 24 to 16 AWG (0.50 to 1.00mm²)										
Auxiliary Contact Insertion Tool: 11038G3					Wire Size 14 AWG ( 1.5mm²)									
Auxiliary Contact Extraction Tool: PM1003G1														
Auxiliary Contact Insertion Inspection Tool: PM1003GX														
Signal Housing Extraction Tool: 116081P1 <sup>7</sup>														

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	0.50 to 0.25	4803G3	TP0001*		N/A		TL0005	Single		TM0001* or
		4802G3						0		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 TP001 and TM0001 tools require locators TL001 for Pins and TL002 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.

#### **BUILD YOUR PART NUMBER**

#### Step 1

Housings (including signal) - Center signal housings available in 4 or 6 positions.

### Step 2

Grommets

Cable Clamp

Step 3

Power Contacts

Screw

Panel Mount Kit

Covers

Signal Contacts (4 or 6 Position)

Tooling

- 15 -

#### 2023-0037 DS-SBSX75A REV 2 Your Best Connection™ All Data Subject to Change Without Notice

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HEADQUARTERS: Anderson Power Products<sup>®</sup>, 13 Pratts Junction Road, Sterling, MA 01564-2305 USA T: +1 978-422-3800 F: +1 978-422-0128 • EUROPE: Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 520203 • GERMANY: IDEAL® Industries Germany GmbH, Esslinger Strasse 7, D – 70771 Leinfelden-Echterdingen, T: +49 (0) 711 – 997606666 • ASIA / PACIFIC: IDEAL® Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T: +(852) 2636 0836 F: +(852) 2635 9036 • INDIA: IDEAL® INDUSTRIES India Private Limited, 229-230, SPAZEDGE, Tower B, Sector 47, Sohna Road, Gurgaon – 122018, Haryana, India T: +(91) 956-0075905 T: +(91) 124-4495101 • CHINA: IDEAL® Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou Western Industrial Park, Songgang Baoan District, Shenzhen, PR. China 518105 T: +(86) 755 2768 2118 F: +(86) 755 2768 2128 • <u>www.ideal-Industries.in</u> • <u>www.andersonpower.com</u>