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

ELECTRICAL								
Current Rating Amperes ¹ Wire to Wire		Power	Power Only No Signals		4 Pole Signals Energized 20 AWG - 10 amps		6 Pole Signals Energized Using PPMX Contacts (20 AWG - 3 amps)	
		No Sig						
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 & Wire to Panel Mount with Ground* 6 AWG (16 mm ²) Wire		ound* 90	65	N/A	N/A	N/A	N/A	
Wire Plug to Panel	Mount Receptacle							
4 AWG (25 mm²) Wire		145	90	140	85	N/A	N/A	
Panel Mount Plug	to Panel Mount Receptacle							
4 AWG (25 mm²) Wire		140	85	135	80	N/A	N/A	
Voltage Rating AC	/DC							
UL 1977		600V		600V		600V		
Dielectric Withsta	nding Voltage							
Volts AC		2,200		2,200		2,200		
Average Mated Co	ntact Resistance Milliohms	1						
Power 1/4 in. of 4 AWG (25 mm²) Wire		0.16m Ω		0.16m (2	0.16m Ω		
Ground 1/4 in. of	6 AWG (16 mm²) Wire	0.22m Ω		N/A		N/A		
Auxiliary 14 AWG	(1.0 to 1.5 mm²) Wire	2.50m Ω		2.50m 0	2	20 AWG (.25m	m²) 3 amps - 9.0 ۵	
UL Hot Plug Current Rating Amperes		250 cycles at 120	250 cycles at 120V DC		250 cycles at 120V DC			
4 AWG (25 mm²) Wire		50A		50A				
Ground Short Time	e Current Test							
1530 Amps (6 AV	VG / 16mm²) Wire	6 Seconds						
Touch Safe	Per III 60	Per UL 60950-1, UL 62368-1 & IEC 60529 ³			Per UL 60950-1, UL 62368-1 & IEC 60529 ³			

4 Pole		6 Pole		
		01010		
10 to 4 AWG (2.5 to 25	5.0 mm²)	10 to 4 AWG (2.5 to 25.0 mm ²)		
14 to 24 AWG (1.5 mm	n² to 0.50)	24 to 20 AWG (0.50 to 0.75 mm ²)		
2 to 6 AWG (2.5 to 16mm ²)			
r				
0.44 in. (11.18 mm)		0.44 in. (11.18 mm)		
0.44 in.(11.18 mm)		Discrete Wires- 20 AWG; 0.09 in. (2.29 mm) 6 Cond. Jacketed Cable- 0.021 in. (5.33 mm)		
-20° to 105°C (-4 to 22	1°F)	-20° to 105°C (-4 to 221°F)		
5,000		5,000		
4 AWG (25 mm²) = 6.5	Lbs (2.95 Kg)	4 AWG (25 mm ²) = 6.5 Lbs (2.95 Kg)		
6mm²) / 12 Lbs (5.44 Kg)				
tance				
Creepage	Clearance	Creepage	Clearance	
1.50 in. (38.1 mm)	0.900 in. (22.86 mm)	1.50 in. (38.1 mm)	0.900 in. (22.86 mm)	
1.12 in. (28.4 mm)	0.640 in. (16.26 mm)	1.727 in. (43.87 mm)	0.397 in. (10.08 mm)	
0.097 in. (2.46 mm)	0.097 in. (2.46 mm]	0.194 in. (4.93 mm)	0.194 in. (4.93 mm)	
0.352 in. (8.94 mm)	0.352 in. (8.94 mm)	0.157 in. (3.99 mm)	0.157 in. (3.99 mm)	
1.15 in. (29.21 mm)	0.485 in. (12.3 mm)	0.535 in. (13.59 mm)	0.337 in. (8.56 mm)	
(30.5mm) Clearance =0).28" (7.1mm)			
60 lb. [267N]		60 lb. [267N]		
ound Only 60lb. [267N]				
35 lb. [156N]		35 lb. [156N]		
Pull Out Retention Contact Holder (part no. 2-8859P1)				
Per UL 486A-486B		Per UL 486A-486B		
Per UL 486A-486B				
Per UL50E ⁴		Per UL50E ⁴		
IP68 Ground Per UL50E ⁴				
	14 to 24 AWG (1.5 mm 2 to 6 AWG (2.5 to 16mm ²) 0.44 in. (11.18 mm) 0.44 in. (11.18 mm) -20° to 105°C (-4 to 22 5,000 4 AWG (25 mm ²) = 6.5 6mm ²) / 12 Lbs (5.44 Kg) tance 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=C 60 lb. [267N] part no. 2-8859P1) Per UL 486A-486B Per UL 486A-486B Per UL50E ⁴	0.44 in. (11.18 mm) 0.44 in. (11.18 mm) -20° to 105°C (-4 to 221°F) 5,000 4 AWG (25 mm²) = 6.5 Lbs (2.95 Kg) 4 AWG (25 mm²) = 6.5 Lbs (2.95 Kg) 4 AWG (25 mm²) = 6.5 Lbs (2.95 Kg) 6 mm²) / 12 Lbs (5.44 Kg) tarce Creepage Clearance 1 .50 in. (38.1 mm) 0.900 in. (22.86 mm) 1.12 in. (28.4 mm) 0.900 in. (22.86 mm) 1.12 in. (28.4 mm) 0.900 in. (22.86 mm) 0.097 in. (2.46 mm) 0.097 in. (2.46 mm] 0.097 in. (2.46 mm) 0.097 in. (2.46 mm] 0.352 in. (8.94 mm) 0.352 in. (8.94 mm) 1.15 in. (29.21 mm) 0.485 in. (12.3 mm) 1.15 in. (29.21 mm) 0.485 in. (12.3 mm) 60 lb. [267N] b b c c c b c c c c c c c c c c	14 to 24 AWG (1.5 mm² to 0.50) 24 to 20 AWG (0.50 to 2 to 6 AWG (2.5 to 16mm²) 0.44 in. (11.18 mm) 0.44 in. (11.18 mm) 0.44 in. (11.18 mm) 5000 4 AWG (25 mm²) = 6.5 Lbs (2.95 Kg) 4 AWG (25 mm²) = 6.5 6mm²) / 12 Lbs (5.44 Kg) 5.000 Clearance Creepage 1.50 in. (38.1 mm) 0.900 in. (22.86 mm) 1.50 in. (38.1 mm) 1.12 in. (28.4 mm) 0.640 in. (16.26 mm) 1.727 in. (43.87 mm) 0.097 in. (2.46 mm) 0.194 in. (4.93 mm) 0.157 in. (3.99 mm) 1.15 in. (29.21 mm) 0.485 in. (12.3 mm) 0.157 in. (3.59 mm) (30.5mm) Clearance=0.28" (7.1mm) 60 lb. [267N] 50 lb. [267N]	



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	
	2-8862P1	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)	
7	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	