

# LUMINUS

## Overview

Luminus Series circular connectors are lightweight, cost-effective, and simple to use. With multiple configurations and arrangements available, a solution can be tailored to suite your application's exact requirements. Proven solutions can be found in single engine general aviation, multiple-engine business and passenger jets, and high performance rotary aircraft. Ideal where space is limited, these innovative, "scoop-proof" connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

## Features & Benefits

1/4 turn bayonet style connection; push and snap connection	Makes wire installation/maintenance easy and efficient; positive "click" when locked
Interfacial and Triple-Barrier Seal	Enables environmental sealing (IP 67 rating)
Multiple Keying Positions	Ensures proper connectivity
Multiple Configurations and Accessories	Tailored solutions to meet application needs
Contacts	AS39029 MIL Spec contacts for broad application compatibility. Stamped & Formed available as lower cost option
Visual markings	Visual aid for easy assembly
Rugged Polyamide Housings; 500 mating cycles	Durability
Blind-Mate Connection	Enables simple, blind mating; easy assembly

## Materials & Specifications

Materials	Insulator Body: Polyamide 6/6 (Nylon)
	Grommet & Face Seal: Silicone Rubber
	Contact Retainer: Stainless Steel
Temperature Range	-65°C to 125°C
Temperature Life	500 hours @ 85°C
Insulation Resistance	5000 MΩ Min. @ 500 VDC
Dielectric Withstanding	1500 VAC, 60 Hz @ Sea Level, 1ma
	300 VAC, 60 Hz @ 70,000 ft, 2ma
Durability	500 mating cycles
Temperature Cycling	5(1) Hour Cycles: -65°C to 125°C
Thermal Shock	-65°C to 200°C
Vibration	30G Sinusoidal; 43.96G Random
Shock	300G, 3msec, Half-Sine
Salt Spray	5% Salt Spray @ 95°C for 48 Hours
Humidity	10 Days @ 25°C to 65°C, 90% - 95% RH
Seal Rating	IP67
Altitude Immersion	Current Altitude Immersion Level Table Pgs. 2-3
RoHS & REACH Compliance	Yes
Flammability	UL94, V0.
	DOTG section 26.6.2 & 26.6.3
	FAR Part 25 App F Part I

Fluid Immersion	Lubricating Oil per Mil-Prf-7808	
	Cleaning Compound per Mil-Prf-87937, Alkaline Base	
	Isopropyl Alcohol & Mineral Spirit Solution	
	Skydrol Hydraulic Fluid	
	Hydraulic Fluids per MIL-PRF-83282; MIL-PRF-87257	
	Ethylene Glycol	
	Propylene Glycol	
Contact Insertion & Removal Force (Not to exceed)	Aviation Jet A	
	Size 22	10 lbs.
	Size 20	10 lbs.
	Size 16	13 lbs.
	Size 12	15 lbs.
Contact Retention (Min.)	Size 22	10 lbs.
	Size 20	15 lbs.
	Size 16	25 lbs.
	Size 12	30 lbs.

## Current Altitude Immersion Level by Part Number\*

Part Number	Current Rating	PartNumber	Current Rating	Part Number	Current Rating	Part Number	Current Rating
SJS406120	50,000 ft	SJS862450	50,000 ft	SJS831100P	25,000 ft	SJS112460P	12,000 ft
SJS406120P	50,000 ft	SJS862450P	50,000 ft	SJS831101	25,000 ft	SJS112460P	12,000 ft
SJS406120-S	50,000 ft	SJS862451	50,000 ft	SJS831101P	25,000 ft	SJS112461	12,000 ft
SJS406121	50,000 ft	SJS862451P	50,000 ft	SJS812730	12,000 ft	SJS112461P	12,000 ft
SJS406121P	50,000 ft	SJS870510	50,000 ft	SJS812730P	12,000 ft	SJS112462	12,000 ft
SJS406121-S	50,000 ft	SJS870510P	50,000 ft	SJS812731	12,000 ft	SJS112462P	12,000 ft
SJS704120	50,000 ft	SJS870511	50,000 ft	SJS112120	12,000 ft	SJS112420P	12,000 ft
SJS704120P	50,000 ft	SJS870511P	50,000 ft	SJS112120P	12,000 ft	SJS112421	12,000 ft
SJS704121	50,000 ft	SJS861800	25,000 ft	SJS112121	12,000 ft	SJS812731P	12,000 ft
SJS704121P	50,000 ft	SJS861800P	25,000 ft	SJS112121P	12,000 ft	SJS112421P	12,000 ft
SJS809130	50,000 ft	SJS861801	25,000 ft	SJS112160	12,000 ft	SJS112460	12,000 ft
SJS809130P	50,000 ft	SJS861801P	25,000 ft	SJS112160P	12,000 ft	SJS861400	12,000 ft
SJS809131	50,000 ft	SJS831102	25,000 ft	SJS112161	12,000 ft	SJS861400M	12,000 ft
SJS809131P	50,000 ft	SJS831102P	25,000 ft	SJS112161P	12,000 ft	SJS861400P	12,000 ft
SJS830250	50,000 ft	SJS840410	25,000 ft	SJS112162	12,000 ft	SJS863460M	12,000 ft
SJS830250P	50,000 ft	SJS840410P	25,000 ft	SJS112162P	12,000 ft	SJS863461M	12,000 ft
SJS830250T	50,000 ft	SJS840411	25,000 ft	SJS112220	12,000 ft	SJS863600M	12,000 ft
SJS830251	50,000 ft	SJS840411P	25,000 ft	SJS112220P	12,000 ft	SJS863601M	12,000 ft
SJS830251P	50,000 ft	SJS840440	25,000 ft	SJS112221	12,000 ft	SJS863660M	12,000 ft
SJS840310	50,000 ft	SJS840440P	25,000 ft	SJS112221P	12,000 ft	SJS863661M	12,000 ft
SJS840310P	50,000 ft	SJS840441	25,000 ft	SJS112260	12,000 ft	SJS112261	12,000 ft
SJS840311	50,000 ft	SJS840441P	25,000 ft	SJS112260P	12,000 ft	SJS112261P	12,000 ft
SJS840311P	50,000 ft	SJS706160	25,000 ft	SJS861401	12,000 ft	SJS112262	12,000 ft
SJS840340	50,000 ft	SJS706160P	25,000 ft	SJS861401M	12,000 ft	SJS112262P	12,000 ft
SJS840340P	50,000 ft	SJS706161	25,000 ft	SJS861401P	12,000 ft	SJS112320	12,000 ft
SJS840341	50,000 ft	SJS706161P	25,000 ft	SJS861460M	12,000 ft	SJS112320P	12,000 ft
SJS840341P	50,000 ft	SJS706162	25,000 ft	SJS861461M	12,000 ft	SJS112321	12,000 ft
SJS862200	50,000 ft	SJS706162P	25,000 ft	SJS863200M	12,000 ft	SJS112321P	12,000 ft
SJS862200P	50,000 ft	SJS830100	25,000 ft	SJS863201M	12,000 ft	SJS112360	12,000 ft
SJS862201	50,000 ft	SJS830100P	25,000 ft	SJS863260M	12,000 ft	SJS112360P	12,000 ft
SJS862201P	50,000 ft	SJS830101	25,000 ft	SJS863261M	12,000 ft	SJS112361	12,000 ft
SJS862400	50,000 ft	SJS830101P	25,000 ft	SJS863400M	12,000 ft	SJS112361P	12,000 ft
SJS862400P	50,000 ft	SJS830102	25,000 ft	SJS863401M	12,000 ft	SJS112362	12,000 ft
SJS862401	50,000 ft	SJS830102P	25,000 ft	SJS112362P	12,000 ft		
SJS862401P	50,000 ft	SJS831100	25,000 ft	SJS112420	12,000 ft		

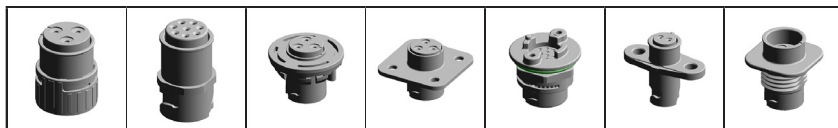
\*Luminus - SJS and Pegasus SJSxP

## Current Altitude Immersion Level by Part Number\*

Part Number	Current Rating	PartNumber	Current Rating	Part Number	Current Rating
SJS0AA730	IP67, Sea Level	SJS225120M	IP67, Sea Level	SJS425120	IP67, Sea Level
SJS0AA730P	IP67, Sea Level	SJS225121M	IP67, Sea Level	SJS425120P	IP67, Sea Level
SJS0AA731	IP67, Sea Level	SJS225160M	IP67, Sea Level	SJS425121	IP67, Sea Level
SJS0AA731P	IP67, Sea Level	SJS225161M	IP67, Sea Level	SJS425121P	IP67, Sea Level
SJS0AA737P	IP67, Sea Level	SJS225162M	IP67, Sea Level	SJS425160	IP67, Sea Level
SJS0AB770	IP67, Sea Level	SJS225220M	IP67, Sea Level	SJS425160P	IP67, Sea Level
SJS0AB770P	IP67, Sea Level	SJS225221M	IP67, Sea Level	SJS425161	IP67, Sea Level
SJS0AB771	IP67, Sea Level	SJS225260M	IP67, Sea Level	SJS425161P	IP67, Sea Level
SJS0AB771P	IP67, Sea Level	SJS225261M	IP67, Sea Level	SJS425162	IP67, Sea Level
SJS860200	IP67, Sea Level	SJS225262M	IP67, Sea Level	SJS425162P	IP67, Sea Level
SJS860200P	IP67, Sea Level	SJS225320M	IP67, Sea Level	SJS425220	IP67, Sea Level
SJS860201	IP67, Sea Level	SJS225321M	IP67, Sea Level	SJS425220P	IP67, Sea Level
SJS860201P	IP67, Sea Level	SJS225360M	IP67, Sea Level	SJS425221	IP67, Sea Level
SJS860500	IP67, Sea Level	SJS225361M	IP67, Sea Level	SJS425221P	IP67, Sea Level
SJS860500P	IP67, Sea Level	SJS225362M	IP67, Sea Level	SJS425260	IP67, Sea Level
SJS860501	IP67, Sea Level	SJS225420M	IP67, Sea Level	SJS425260P	IP67, Sea Level
SJS860501P	IP67, Sea Level	SJS225421M	IP67, Sea Level	SJS425261	IP67, Sea Level
SJS860520	IP67, Sea Level	SJS225460M	IP67, Sea Level	SJS425261P	IP67, Sea Level
SJS860520P	IP67, Sea Level	SJS225461M	IP67, Sea Level	SJS425262	IP67, Sea Level
SJS860521	IP67, Sea Level	SJS225462M	IP67, Sea Level	SJS425262P	IP67, Sea Level
SJS860521P	IP67, Sea Level	SJS412120	IP67, Sea Level	SJS425320	IP67, Sea Level
SJS860900	IP67, Sea Level	SJS412120P	IP67, Sea Level	SJS425320P	IP67, Sea Level
SJS860900P	IP67, Sea Level	SJS412121	IP67, Sea Level	SJS425321	IP67, Sea Level
SJS860901	IP67, Sea Level	SJS412121P	IP67, Sea Level	SJS425321P	IP67, Sea Level
SJS860901P	IP67, Sea Level	SJS805730	IP67, Sea Level	SJS425360	IP67, Sea Level
SJS861200	IP67, Sea Level	SJS805730P	IP67, Sea Level	SJS425360P	IP67, Sea Level
SJS861200P	IP67, Sea Level	SJS805731	IP67, Sea Level	SJS425361	IP67, Sea Level
SJS861201	IP67, Sea Level	SJS805731P	IP67, Sea Level	SJS425361P	IP67, Sea Level
SJS861201P	IP67, Sea Level	SJS830210	IP67, Sea Level	SJS425362	IP67, Sea Level
SJS8AC730	IP67, Sea Level	SJS830210P	IP67, Sea Level	SJS425362P	IP67, Sea Level
SJS8AC730P	IP67, Sea Level	SJS830211	IP67, Sea Level	SJS425420	IP67, Sea Level
SJS8AC731	IP67, Sea Level	SJS830211P	IP67, Sea Level	SJS425420P	IP67, Sea Level
SJS8AC731P	IP67, Sea Level	SJS425421	IP67, Sea Level	SJS425460	IP67, Sea Level
SJS425461	IP67, Sea Level	SJS425421P	IP67, Sea Level	SJS425460P	IP67, Sea Level
SJS425461P	IP67, Sea Level	SJS425462	IP67, Sea Level	SJS425462P	IP67, Sea Level

\*Luminus - SJS and Pegasus SJSxP

## Part Numbering-Twist & Lock



# of Positions	Contact Size	Shell Size	Key	Color	Part Numbers						
					Plug	Receptacles					
						Inline	Circular	Square	Jamnut PCB Mount	Oval	Jamnut Rear Mount
1	Quadrax	8	-	-	SJS801110	SJS801120	-	-	-	-	-
2	22D	5	-	Black	SJS830250	SJS830270	-	-	SJS502160	SJS502170	SJS502190
3	16	8	A	White	SJS840310	SJS840300	SJS840320	SJS803730	-	-	-
3	16	8	B	Black	SJS840340	SJS840350	SJS840330	-	-	-	-
3	20	7	-	White	SJS862300	SJS862400	-	SJS862450	-	-	-
3	22D	5	-	Black	SJS830210	SJS830230	-	-	SJS503160	SJS503170	SJS503190
4	16	8	A	White	SJS840410	SJS840400	-	SJS804730	-	-	SJS804790
4	20	7	-	Black	SJS704110	SJS704120	-	-	-	-	-
5	20	8	-	Black	SJS8A5110	SJS8A5120	-	-	-	-	-
5	22D	8	A	White	SJS860510	SJS860500	SJS860520	SJS805730	-	-	-
5	22D	8	B	White	SJS870510	-	SJS870520	-	-	-	-
6	12	14	-	Black	SJS406110	SJS406120	-	-	-	-	-
6	22D	7	-	Black	SJS861700	SJS861800	-	-	SJS706160	-	-
8	22D	7	A	Black	SJS830100	SJS830200	-	SJS830220	SJS708160	SJS708170	SJS708190
8	22D	7	B	Green	SJS830101	SJS830201	-	SJS830221	-	-	-
8	22D	7	C	Yellow	SJS830102	SJS830202	-	SJS830222	-	-	-
9	22D	8	-	Black	SJS862100	SJS862200	-	SJS809130	-	-	-
12	16	14	-	Black	SJS412110	SJS412120	-	-	-	-	-
12	22D	8	-	White	SJS861300	SJS861400	-	SJS812730	-	-	-
12	22D	11	A	Black	SJS112110	SJS112120	-	-	SJS112160	-	-
12	22D	11	B	Green	SJS112210	SJS112220	-	-	SJS112260	-	-
12	22D	11	C	White	SJS112310	SJS112320	-	-	SJS112360	-	-
12	22D	11	D	Yellow	SJS112410	SJS112420	-	-	SJS112460	-	-
25	22D	14	A	Black	SJS425110	SJS425120	-	-	SJS425160	-	-
25	22D	14	B	Green	SJS425210	SJS425220	-	-	SJS425260	-	-
25	22D	14	C	White	SJS425310	SJS425320	-	-	SJS425360	-	-
25	22D	14	D	Yellow	SJS425410	SJS425420	-	-	SJS425460	-	-
9	1	16	8	White	SJS860100	SJS860200	-	SJS8AC730	-	-	-
	8	22D									
9	4	16	10	White	SJS860910	SJS860900	-	SJS0AA730	-	-	-
	5	22D									
10	4	16	10	White	SJS861100	SJS861200	-	-	-	-	-
	6	22D									