

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)	Fluid Immersion Contact Insertion & Removal Force (Not to exceed) Contact Retention (Min.)		Lubricating Oil per Mil-Prf-7808	
	Grommet & Face Seal: Silicone Rubber			Cleaning Compound per Mil-Prf-87937, Alkaline Base	
	Contact Retainer: Stainless Steel			Isopropyl Alcohol & Mineral Spirit Solution	
Temperature Range	-65°C to 125°C			Skydrol Hydraulic Fluid	
Temperature Life	500 hours @ 85°C			Hydraulic Fluids per MIL-PRF-83282; MIL-PRF-87257	
Insulation Resistance	5000 MΩ Min. @ 500 VDC			Ethylene Glycol	
Dielectric Withstanding	1500 VAC, 60 Hz @ Sea Level, 1ma			Propylene Glycol	
	300 VAC, 60 Hz @ 70,000 ft, 2ma			Aviation Jet A	
Durability	500 mating cycles			Size 22	10 lbs.
Temperature Cycling	5(1) Hour Cycles: -65°C to 125°C			Size 20	10 lbs.
Thermal Shock	-65°C to 200°C			Size 16	13 lbs.
Vibration	30G Sinusoidal; 43.96G Random			Size 12	15 lbs.
Shock	300G, 3msec, Half-Sine			Size 22	10 lbs.
Salt Spray	5% Salt Spray @ 95°C for 48 Hours			Size 20	15 lbs.
Humidity	10 Days @ 25°C to 65°C, 90% - 95% RH			Size 16	25 lbs.
Seal Rating	IP67			Size 12	30 lbs.
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				

Current Altitude Immersion Level by Part Number

Part Number	Current Rating
SJS812730P	12,000 feet
SJS812731P	12,000 feet
SJS861400P	12,000 feet
SJS861401P	12,000 feet
SJS112120P	12,000 feet
SJS112121P	12,000 feet
SJS112160P	12,000 feet
SJS112161P	12,000 feet
SJS112162P	12,000 feet
SJS112220P	12,000 feet
SJS112221P	12,000 feet
SJS112260P	12,000 feet
SJS112261P	12,000 feet
SJS112262P	12,000 feet
SJS112320P	12,000 feet
SJS112321P	12,000 feet
SJS112360P	12,000 feet
SJS112361P	12,000 feet
SJS112362P	12,000 feet
SJS112420P	12,000 feet
SJS112421P	12,000 feet
SJS112460P	12,000 feet
SJS112461P	12,000 feet
SJS112462P	12,000 feet
SJS861300P	12,000 feet
SJS861301P	12,000 feet
SJS112110P	12,000 feet
SJS112111P	12,000 feet
SJS112210P	12,000 feet
SJS112211P	12,000 feet
SJS112310P	12,000 feet
SJS112311P	12,000 feet
SJS112410P	12,000 feet
SJS112411P	12,000 feet
SJS861400M	12,000 feet
SJS861401M	12,000 feet
SJS861460M	12,000 feet
SJS861461M	12,000 feet
SJS863200M	12,000 feet
SJS863201M	12,000 feet
SJS863260M	12,000 feet
SJS863261M	12,000 feet
SJS863400M	12,000 feet
SJS863401M	12,000 feet
SJS863460M	12,000 feet

Part Number	Current Rating
SJS863461M	12,000 feet
SJS863600M	12,000 feet
SJS863601M	12,000 feet
SJS863660M	12,000 feet
SJS863661M	12,000 feet
SJS861300M	12,000 feet
SJS861301M	12,000 feet
SJS863100M	12,000 feet
SJS863101M	12,000 feet
SJS863300M	12,000 feet
SJS863301M	12,000 feet
SJS863500M	12,000 feet
SJS863501M	12,000 feet
SJS840310P	25,000 feet
SJS840311P	25,000 feet
SJS840340P	25,000 feet
SJS840341P	25,000 feet
SJS840410P	25,000 feet
SJS840411P	25,000 feet
SJS840440P	25,000 feet
SJS840441P	25,000 feet
SJS803130P	25,000 feet
SJS803131P	25,000 feet
SJS803730P	25,000 feet
SJS803731P	25,000 feet
SJS840300P	25,000 feet
SJS840301P	25,000 feet
SJS840320P	25,000 feet
SJS840321P	25,000 feet
SJS840330P	25,000 feet
SJS840331P	25,000 feet
SJS840350P	25,000 feet
SJS840351P	25,000 feet
SJS804730P	25,000 feet
SJS804731P	25,000 feet
SJS804760P	25,000 feet
SJS804761P	25,000 feet
SJS804762P	25,000 feet
SJS804790P	25,000 feet
SJS804791P	25,000 feet
SJS840400P	25,000 feet
SJS840401P	25,000 feet
SJS840450P	25,000 feet
SJS840451P	25,000 feet
SJS830250P	50,000 feet

Part Number	Current Rating
SJS830251P	50,000 feet
SJS862400P	50,000 feet
SJS862401P	50,000 feet
SJS862450P	50,000 feet
SJS862451P	50,000 feet
SJS704120P	50,000 feet
SJS704121P	50,000 feet
SJS870510P	50,000 feet
SJS870511P	50,000 feet
SJS406120P	50,000 feet
SJS406121P	50,000 feet
SJS706160P	50,000 feet
SJS706161P	50,000 feet
SJS706162P	50,000 feet
SJS861800P	50,000 feet
SJS861801P	50,000 feet
SJS830101P	50,000 feet
SJS830100P	50,000 feet
SJS830102P	50,000 feet
SJS831100P	50,000 feet
SJS831101P	50,000 feet
SJS831102P	50,000 feet
SJS809130P	50,000 feet
SJS809131P	50,000 feet
SJS862200P	50,000 feet
SJS862201P	50,000 feet
SJS502160P	50,000 feet
SJS502161P	50,000 feet
SJS502162P	50,000 feet
SJS502170P	50,000 feet
SJS502171P	50,000 feet
SJS502190P	50,000 feet
SJS502191P	50,000 feet
SJS830270P	50,000 feet
SJS830271P	50,000 feet
SJS862300P	50,000 feet
SJS862301P	50,000 feet
SJS704110P	50,000 feet
SJS704111P	50,000 feet
SJS870520P	50,000 feet
SJS870521P	50,000 feet
SJS406110P	50,000 feet
SJS406111P	50,000 feet
SJS861700P	50,000 feet
SJS861700PAC	50,000 feet

Current Altitude Immersion Level by Part Number

Part Number	Current Rating
SJS861701P	50,000 feet
SJS830201P	50,000 feet
SJS830221P	50,000 feet
SJS708160P	50,000 feet
SJS708161P	50,000 feet
SJS708162P	50,000 feet
SJS708170P	50,000 feet
SJS708171P	50,000 feet
SJS708190P	50,000 feet
SJS708191P	50,000 feet
SJS830200P	50,000 feet
SJS830202P	50,000 feet
SJS830220P	50,000 feet
SJS830222P	50,000 feet
SJS831200P	50,000 feet
SJS831201P	50,000 feet
SJS831202P	50,000 feet
SJS831220P	50,000 feet
SJS831221P	50,000 feet
SJS831222P	50,000 feet
SJS862100P	50,000 feet
SJS862101P	50,000 feet
SJS830210P	IP67 (sea level)
SJS830211P	IP67 (sea level)
SJS805730P	IP67 (sea level)
SJS805731P	IP67 (sea level)
SJS860500P	IP67 (sea level)
SJS860501P	IP67 (sea level)
SJS860520P	IP67 (sea level)
SJS860521P	IP67 (sea level)
SJS412120P	IP67 (sea level)
SJS412121P	IP67 (sea level)
SJS425120P	IP67 (sea level)
SJS425121P	IP67 (sea level)
SJS425160P	IP67 (sea level)
SJS425161P	IP67 (sea level)
SJS425162P	IP67 (sea level)
SJS425220P	IP67 (sea level)
SJS425221P	IP67 (sea level)
SJS425260P	IP67 (sea level)

Part Number	Current Rating
SJS425261P	IP67 (sea level)
SJS425262P	IP67 (sea level)
SJS425320P	IP67 (sea level)
SJS425321P	IP67 (sea level)
SJS425360P	IP67 (sea level)
SJS425361P	IP67 (sea level)
SJS425362P	IP67 (sea level)
SJS425420P	IP67 (sea level)
SJS425421P	IP67 (sea level)
SJS425460P	IP67 (sea level)
SJS425461P	IP67 (sea level)
SJS425462P	IP67 (sea level)
SJS860200P	IP67 (sea level)
SJS860201P	IP67 (sea level)
SJS8AC730P	IP67 (sea level)
SJS8AC731P	IP67 (sea level)
SJS860900P	IP67 (sea level)
SJS860901P	IP67 (sea level)
SJS0AA730P	IP67 (sea level)
SJS0AA731P	IP67 (sea level)
SJS0AA737P	IP67 (sea level)
SJS0AB770P	IP67 (sea level)
SJS0AB771P	IP67 (sea level)
SJS861200P	IP67 (sea level)
SJS861201P	IP67 (sea level)
SJS503160P	IP67 (sea level)
SJS503161P	IP67 (sea level)
SJS503162P	IP67 (sea level)
SJS503170P	IP67 (sea level)
SJS503171P	IP67 (sea level)
SJS503190P	IP67 (sea level)
SJS503191P	IP67 (sea level)
SJS830230P	IP67 (sea level)
SJS830231P	IP67 (sea level)
SJS860510P	IP67 (sea level)
SJS860511P	IP67 (sea level)
SJS412110P	IP67 (sea level)
SJS412111P	IP67 (sea level)
SJS425110P	IP67 (sea level)
SJS425111P	IP67 (sea level)

Part Number	Current Rating
SJS425210P	IP67 (sea level)
SJS425211P	IP67 (sea level)
SJS425310P	IP67 (sea level)
SJS425311P	IP67 (sea level)
SJS425410P	IP67 (sea level)
SJS425411P	IP67 (sea level)
SJS860100P	IP67 (sea level)
SJS860101P	IP67 (sea level)
SJS860910P	IP67 (sea level)
SJS860911P	IP67 (sea level)
SJS861100P	IP67 (sea level)
SJS861101P	IP67 (sea level)
SJS225120M	IP67 (sea level)
SJS225121M	IP67 (sea level)
SJS225160M	IP67 (sea level)
SJS225161M	IP67 (sea level)
SJS225162M	IP67 (sea level)
SJS225220M	IP67 (sea level)
SJS225221M	IP67 (sea level)
SJS225260M	IP67 (sea level)
SJS225261M	IP67 (sea level)
SJS225262M	IP67 (sea level)
SJS225320M	IP67 (sea level)
SJS225321M	IP67 (sea level)
SJS225360M	IP67 (sea level)
SJS225361M	IP67 (sea level)
SJS225362M	IP67 (sea level)
SJS225420M	IP67 (sea level)
SJS225421M	IP67 (sea level)
SJS225460M	IP67 (sea level)
SJS225461M	IP67 (sea level)
SJS225462M	IP67 (sea level)
SJS225110M	IP67 (sea level)
SJS225111M	IP67 (sea level)
SJS225210M	IP67 (sea level)
SJS225211M	IP67 (sea level)
SJS225310M	IP67 (sea level)
SJS225311M	IP67 (sea level)
SJS225410M	IP67 (sea level)
SJS225411M	IP67 (sea level)

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									