

PEGASUS

Overview

The Pegasus Series is Amphenol Pcd's latest innovation in small, lightweight, rugged connectors. Designed for use in harsh environments, Pegasus builds on the successful Luminus Aerospace connector with the addition of EMI shielding.

EMI shielding is provided by electroless copper and nickel plate, with a copper alloy spring finger gasket to ensure shell-to-shell conductivity. Tests show between 40db and 60db of attenuation, depending on frequency. This combination of light weight, small size, and EMI shielding makes Pegasus the ideal choice where protection against ambient noise transients, or suppression of emitted noise is required, and space and weight are at a premium.

Features & Benefit

Electroless Copper & Nickel plating	Shielding from ambient noise transients, suppression of emitted noise (DO-160G Section 21 categories B, L and M and DO-160G Section 20 categories S & T)
1/4 turn bayonet style connection	Simple and easy mate & unmate; Blind mate keying
Interfacial and Triple-Barrier Seal	Environmental sealing to IP67
Multiple Configuration	Inline, Square Flange, Oval Flange, Jamnut PCB, Circular Snap-In
Scoop-Proof	Prevents contacts from being bent or electrically shorted during mating
Stainless Steel Contact Retainers	High contact retention force over operating life cycle

Materials & Specifications

Materials	Insulator Body: Ultem / Polyetherimide	Fluid Immersion	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
	Plating: Nickel over Copper		Skydrol Hydraulic Fluid
Temperature Range	-65°C to 125°C	Flammability	Hydraulic Fluids per MIL-PRF-83282 MIL-PRF-87257
Temperature Life	500 hours @ 85°C		Ethylene Glycol
Insulation Resistance	5000 MΩ Min. @ 500 VDC		Propylene Glycol
Dielectric Withstanding	1500 VAC, 60 Hz @ Sea Level, 1ma		Aviation Jet A
	300 VAC, 60 Hz @ 70,000 ft, 2ma	RoHS & REACH Compliance	UL94, V0.
Durability	Min 100 mating cycles; 250 typical		DOTG section 26.6.2 & 26.6.3
Temperature Cycling	5(1) Hour Cycles: -65°C to 125°C		FAR Part 25 App F Part I
Thermal Shock	-65°C to 200°C	Contact Insertion & Removal Force (not to exceed)	Yes
Vibration	30G Sinusoidal; 43.96G Random		less than 3 lbs
Shock	300G, 3msec, Half-Sine		less than 5 lbs insert (sz22)
Housing Electrical Conductivity	6 milliohm		less than 4lb remove (sz22)
EMI Shielding Effectiveness	65db @ 100Mhz 60db @ 200Mhz 55db @ 300Mhz 55db @ 400Mhz 45db @ 800Mhz 45db @1Ghz		less than 12lbs insert (sz 16)
			less than 12lbs remove (sz 16)
Salt Spray	5% Salt Spray @ 95°C for 48 Hours	Coupling Torque	greater than 10lbs
Humidity	10 Days @ 25°C to 65°C, 90% - 95% RH		less than 10lbs, sz 22
Seal Rating	IP67		less than 25lbs, sz 16
Altitude Immersion	Current Altitude Immersion Level Table Pgs. 2-3		less than 5lbs

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

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
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
SJS861701P	50,000 feet
SJS830201P	50,000 feet

Current Altitude Immersion Level by Part Number

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)
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)
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	Plug	Inline	Circular	Square	Jamnut	Oval	Jamnut Rear Mount
1	Quadrax	8	-	-	SJS801110P	SJS801120P	-	SJS801130P*	SJS801160P*	SJS801170P*	SJS801190P*
2	22D	5	-	Black	SJS830250P	SJS830270P	-	-	SJS502160P	SJS502170P	SJS502190P
3	12	10	-	-	SJS003110P*	SJS003120P*	-	-	-	-	-
3	16	8	A	White	SJS840310P	SJS840300P	SJS840320P	SJS803730P*	-	-	-
3	16	8	B	Black	SJS840340P	SJS840350P	SJS840330P	SJS803130P*	-	-	-
3	20	7	-	White	SJS862300P	SJS862400P	-	SJS862450P	-	-	-
3	22D	5	-	Black	SJS830210P	SJS830230P	-	-	SJS503160P	SJS503170P	SJS503190P
4	16	8	A	White	SJS840410P	SJS840400P	SJS840420P	SJS840740P	SJS840760P*	-	SJS840790P*
4	16	8	B	Green	SJS840440P	SJS840450P	SJS840430P*	-	-	-	-
4	20	7	-	Black	SJS704110P	SJS704120P	SJS704130P*	-	-	-	-
5	22D	8	-	White	SJS860510P	SJS860500P	SJS860520P	SJS805730P	-	-	-
5	22D	8	-	White	SJS870510P	SJS860510P	SJS870520P	-	-	-	-
6	22D	7	-	Black	SJS861700P	SJS861800P	-	-	SJS706160P	-	-
8	22D	7	A	Black	SJS830100P	SJS830200P	-	SJS830220P	SJS708160P	SJS708170P	SJS708190P
8	22D	7	B	Green	SJS830101P	SJS830201P	-	SJS830221P	-	-	-
8	22D	7	C	Yellow	SJS830102P	SJS830202P	-	SJS830222P	-	-	-
9	22D	8	-	Black	SJS862100P	SJS862200P	-	SJS809130P*	-	-	-
12	16	14	-	Black	SJS412110P*	SJS412120P*	-	-	-	-	-
12	22D	8	-	White	SJS861300P	SJS861400P	-	SJS812730P	SJS812760P*	-	-
12	22D	11	A	Black	SJS112110P	SJS112120P	-	-	SJS112160P	-	-
12	22D	11	B	Green	SJS112210P	SJS112220P	-	-	SJS112260P	-	-
12	22D	11	C	White	SJS112310P	SJS112320P	-	-	SJS112360P	-	-
12	22D	11	D	Yellow	SJS112410P	SJS112420P	-	-	SJS112460P	-	-
25	22D	14	A	Black	SJS425110P	SJS425120P	-	-	SJS425160P	-	-
25	22D	14	B	Green	SJS425210P	SJS425220P	-	-	SJS425260P	-	-
25	22D	14	C	White	SJS425310P	SJS425320P	-	-	SJS425360P	-	-
25	22D	14	D	Yellow	SJS425410P	SJS425420P	-	-	SJS425460P	-	-
5	12 (3)	11	-	Black	SJS1AE110P*	SJS1AE120P*	-	-	-	-	-
	22 (2)										
9	16 (1)	8	-	White	SJS860100P	SJS860200P	-	-	-	-	-
	22D (8)										
9	16 (4)	10	-	White	SJS860910P	SJS860900P	-	SJS0AA730P	-	-	-
	22D (5)										
10	16 (4)	10	-	White	SJS861100P	SJS861200P	SJS0AB730P*	-	-	SJS0AB770P	-
	22D (6)										

* Available at extended lead times