



PEGASUS

Pegasus: Small, lightweight, rugged connectors



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 & Benefits

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 Configurations	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		UL94, V0.
Durability	Min 100 mating cycles; 250 typical	RoHS & REACH Compliance	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)
	Salt Spray	5% Salt Spray @ 95°C for 48 Hours	less than 12lbs remove (sz 16)
Humidity	10 Days @ 25°C to 65°C, 90% - 95% RH	Coupling Torque	greater than 10lbs
Seal Rating	IP67		less than 10lbs, sz 22
			less than 25lbs, sz 16
			less than 5lbs

Applications

- Aviation & vehicle actuators
- Missile guidance & control systems
- Avionic sensors
- UAV control systems
- In-Flight Entertainment



Shell Sizes

05 (max dia: 0.318 in.)



2, size 22



3, size 22

10 (max dia: 0.630 in.)



9: 4, size 16; 5 size 22



10: 4, size 16; 6 size 22

07 (max dia: 0.448 in.)



6, size 22



8, size 22

11 (max dia: 0.700 in.)



3, size 12



3, size 16

08 (max dia: 0.528 in.)



4, size 16



5, size 22



9: 1, size 16; 8 size 22



9, size 22



3, size 16

14 (max dia: 0.875 in.)



25, size 22

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