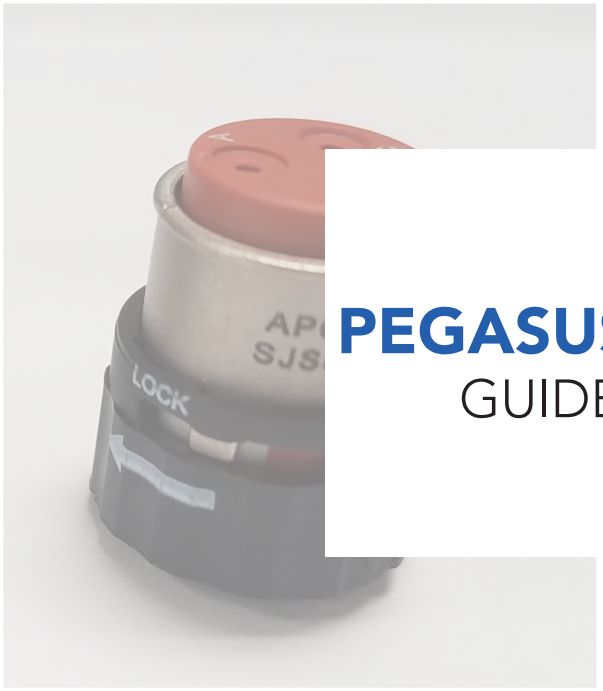
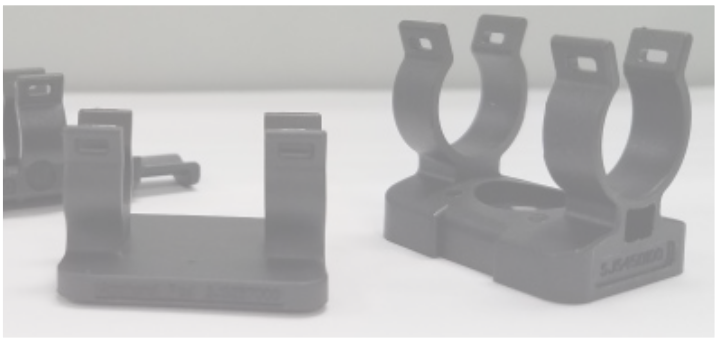
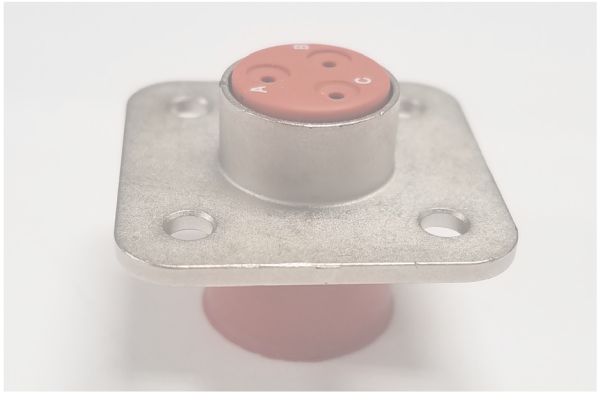
Amphenol Pcd



# PEGASUS SERIES

GUIDE 2018





# PEGASUS SERIES

**Description:**

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 and 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

**Typical Applications:**

- Aviation & vehicle actuators
- Missile guidance & control systems
- Avionics sensors
- UAV control systems

# PEGASUS SERIES

## Shell Size

05 (max dia: 0.318)

2, size 22

3, size 22

07 (max dia: 0.448)

6, size 22

8, size 22

08 (max dia: 0.528)

4, size 16

5, size 22

9: 1, size 16; 8 size 22

9, size 22

3, size 16

10 (max dia: 0.630)

9: 4, size 16; 5 size 22

10: 4, size 16; 6 size 22

11 (max dia: 0.700)

3, size 12

3, size 16

14 (max dia: 0.875)

25, size 22

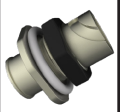
# PEGASUS SERIES

## Materials and Specifications

| | Twist & Lock |
|---|---|
| Materials | Insulator Body: Ultem / Polyetherimide |
| | Grommet & Face Seal: Silicone Rubber |
| | Contact Retainer: Stainless Steel |
| | Plating: Nickel over Copper |
| 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 | Min 100 mating cycles; 250 typical |
| Altitude Immersion | 5% salt solution, 75k feet |
| 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 |
| Housing Electrical Conductivity | 6 milliohm |
| EMI Shielding Effectiveness | 65db @ 100Mhz<br>60db @ 200Mhz<br>55db @ 300Mhz<br>55db @ 400Mhz<br>45db @ 800Mhz<br>45db @1Ghz |
| Salt Spray | 5% Salt Spray @ 95˚C for 48 Hours |
| Humidity | 10 Days @ 25˚C to 65˚C,<br>90% - 95% RH |
| 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<br>MIL-PRF-87257 |
| | Ethylene Glycol |
| | Propylene Glycol |
| | Aviation Jet A |
| Seal Rating | IP67 |
| Flammability | UL94, V0. |
| | DOTG section 26.6.2 & 26.6.3 |
| | FAR Part 25 App F Part I |
| RoHS & REACH Compliance | Yes |
| Contact Insertion & Removal Force (not to exceed) | less than 3 lbs |
| | less than 5 lbs insert (sz22) |
| | less than 4lb remove (sz22) |
| | less than 12lbs insert (sz 16) |
| | less than 12lbs remove (sz 16) |
| | greater than 10lbs |
| | less than 10lbs, sz 22 |
| | less than 25lbs, sz 16 |
| Coupling Torque | less than 5lbs |

# PEGASUS SERIES

## Part Numbering (Twist & Lock)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |  |
| # of Positions | Contact Size | Shell Size | Key | Color | Plug P/N | Inline Receptacle P/N | Circular Receptacle P/N | Square Receptacle PN | Jam Nut Stand-Off Receptacle PN | Oval Receptacle PN | Jam Nut Rear Mount Receptacle PN |
| 2 | 22D | 5 | - | black | SJS830250P | SJS830270P | - | - | - | SJS502170P | SJS502190P |
| 3 | 22D | 5 | - | black | SJS830210P | SJS830230P | - | - | - | SJS503170P | SJ503190P |
| 3 | 20 | 7 | - | white | SJS862300P | SJS862400P | - | SJS862450P | - | - | - |
| 3 | 16 | 8 | A | white | SJS840310P | SJS840300P | SJS840320P | SJS830730P | - | - | - |
| 3 | 16 | 8 | B | black | SJS840340P | SJS840350P | SJS840330P | SJS830130P | - | - | - |
| 3 | 12 | 10 | - | | SJS003110P* | SJS003120P* | - | - | - | - | - |
| 4 | 16 | 8 | A | white | SJS840410P | SJS840400P | SJS840420P | SJS840740P | SJS840760P | - | SJS840790P |
| 4 | 16 | 8 | B | white | SJS840440P | SJS840450P | SJS840430P | - | - | - | - |
| 4 | 20 | 7 | | black | SJS704110P | SJS704120P | | | | | |
| 5 | 22D | 8 | - | white | SJS860510P | SJS860500P | SJS860520P | SJS805730P | - | - | - |
| 5 | 22D | 8 | - | white | SJS870510P | - | SJS870520P | - | - | - | - |
| 6 | 22D | 7 | - | black | SJS861700P | SJS861800P | - | - | SJS706160P | - | - |
| 8 | 22D | 7 | A | black | SJS830100P | SJS830200P | - | SJS830220P | SJS708160P | SJS708190P | SJS708180P |
| 8 | 22D | 7 | B | green | SJS830101P | SJS830201P | - | SJS830221P | - | - | - |
| 8 | 22D | 7 | C | yellow | SJS830102P | SJS830202P | - | SJS830222P | - | - | - |
| 9 | 22D | 8 | - | black | SJS862100P | SJS862200P | - | SJS809130P | - | - | - |
| 12 | 22D | 8 | - | white | SJS861300P | SJS861400P | - | SJS812730P | SJS812760P | - | - |
| 12 | 22D | 11 | A | black | SJS112110P | SJS112120P | - | - | SJS112160P | - | - |
| 12 | 22D | 11 | B | | SJS112210P | SJS112220P | - | - | SJS112260P | - | - |
| 12 | 22D | 11 | C | | SJS112310P | SJS112320P | - | - | SJS112360P | - | - |
| 12 | 22D | 11 | D | | SJS112410P | SJS112420P | - | - | SJS112460P | - | - |
| 25 | 22D | 14 | A | black | SJS425110P | SJS425120P | - | - | SJS425160P | - | - |
| 25 | 22D | 14 | B | | SJS425210P | SJS425220P | - | - | SJS425260P | - | - |
| 25 | 22D | 14 | C | | SJS425310P | SJS425320P | - | - | SJS425360P | - | - |
| 25 | 22D | 14 | D | | SJS425410P | SJS425420P | - | - | SJS425460P | - | - |
| 12 | 16 | 14 | - | | SJS412110P" | SJS412120P" | - | - | - | - | - |
| 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) | | | | | | | - | - | - | - |
| 1 | Quadrax | 8 | - | | SJS801110P | SJS801120P | - | SJS801130P* | SJS801160P* | SJS801170P* | SJS80119P* |
| 5 | 12 (3) | 11 | - | black | SJS1AE110P* | SJ1AE120P* | - | - | - | - | - |
| | 22 (2) | | | | | | - | - | - | - | - |

*Available at extended lead timed.

# PEGASUS SERIES

## Part Numbering (Accessories)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| Shell Size | Strain Relief Single | Strain Relief Single 90° | Strain Relief Single 45° | Double Strain Relief | Double Side Tape Mount Cradle | Screw Mount Cradle | Tube Mount Cradle | Single Side Tape Tube Mount Cradle | Double Side Tape Tube Mount Cradle | Dummy Flanges | Hard Protective Caps |
| 5 | SJSA55000 | SJSAA5100 | SJSAA5200 | SJSA56000 | SJS257000 | SJS257100 | SJSA5V000 | SJS5AV010 | SJS5AV020 | - | SJSA5B000 |
| 7 | SJS450350 | SJSA75100 | SJSA75200 | SJSA76000 | SJS883000 | SJS450250 | SJSA7V000 | SJSA7V010 | SJSA7V020 | SJS830220D | SJSA7B000 |
| 8 | SJSA85000 | SJSA85100 | SJSA85200 | SJSA86000 | SJS445000 | SJS450100 | SJSA8V000 | SJSA8V010 | SJSA8V020 | - | SJSA8B000 |
| 10 | SJSA05000 | SJSA05100 | SJSA05200 | SJSA06000 | SJS991000 | - | SJSA0V000 | SJSA0V010 | SJSA0V020 | SJS0AA730D | SJSA0B000 |

## Contact Matrix

| Contact Size | Contact Style | Available | | Contact P/N | | QPL Part No. (Machined Only) | Contact Retention | Crimp Tensile Strength |
|---|---|---|---|---|---|---|---|---|
| | | Push-Pull | Twist-Lock | Machined | Stamped & Formed | | | |
| 12 | Pin | Yes | Yes | CNP058365 | SCP058365 | M39029/58-365 | .012" [0,30mm] @ 30lbf [133N] | 100lbf [445N] |
| | Socket | No | Yes | CNS057359 | SCS057359 | M39029/57-359 | | |
| | Socket-L | Yes | No | CNS056353 | n/a | M39029/56-353 | | |
| 16 | Pin | Yes | Yes | CNP058364 | SCP058364 | M39029/58-364 | .012" [0,30mm] @ 25lbf [111N] | 40lbf [180N] |
| | Socket | No | Yes | CNS057358 | SCS057358 | M39029/57-358 | | |
| | Socket-L | Yes | No | CNS056352 | n/a | M39029/56-352 | | |
| 20 | Pin | Yes | Yes | CNP058363 | SCP058363 | M39029/58-363 | .012" [0,30mm] @ 20lbf [90N] | 20lbf [90N] |
| | Socket | No | Yes | CNS057357 | SCS057357 | M39029/57-357 | | |
| | Socket-L | Yes | No | CNS056351 | n/a | M39029/56-351 | | |
| 22D | Pin | No | Yes | CNP058360 | n/a | M39029/58-360 | .012" [0,30mm] @ 10lbf [44N] | 10 lbf [45N] |
| | Socket | No | Yes | CNS057354 | n/a | M39029/57-354 | | |

| Contact Size | Wire Accommodations | | | | Tool Information | | |
|---|---|---|---|---|---|---|---|
| | Size (AWG) | Max Current Rating (A) | ØD Range | Strip Length | Basic Tool | Positioner | Insertion/Removal Tool |
| 12 | 12 | 23 | .097 - .142" [2,46 - 3,61mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01 | M22520/1-04 (Yellow) | M81969/14-04 |
| | 14 | 17 | | | | | |
| 16 | 16 | 13 | .065 - .109" [1,65 - 2,77mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01<br>M22520/7-01 | M22520/1-04 (Blue)<br>M22520/7-04 | M81969/14-03 |
| | 18 | 10 | | | | | |
| | 20 | 7.5 | | | | | |
| 20 | 20 | 7.5 | .040 - .083" [1,02 - 2,11mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01<br>M22520/2-01<br>M22520/7-01 | M22520/1-04 (Red)<br>M22520/2-10<br>M22520/7-08 | M81969/14-11 |
| | 22 | 5 | | | | | |
| | 24 | 3 | | | | | |
| 22D | 22 | 5 | .030 - .054" [0,76 - 1,37mm] | .141 - .172" [3,58 - 4,37mm] | M22520/2-01<br>M22520/7-01 | M22520/2-06<br>M22520/7-06 | M81969/14-01 |
| | 24 | 3 | | | | | |
| | 26 | 2 | | | | | |
| | 28 | 1.5 | | | | | |

# AMPHENOL PCD PRODUCTS

BACKSHELLS

CABLE SOLUTIONS

CIRCULAR

GROUND BLOCKS

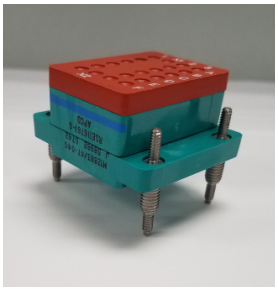
JUNCTION MODULES

LUMINUS

MILITARY AUDIO/POWER

PEGASUS SERIES

RECTANGULAR



RELAY SOCKETS

RUGGED SOLUTIONS

SIM

SOLARIS

SYSTEM ATTACHMENTS

**Amphenol Pcd**

www.amphenolpcd.com

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
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- *Комплексную поставку.*
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