

**Amphenol Pcd**

**PEGASUS SERIES**  
GUIDE 2018



# PEGASUS SERIES

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## 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.

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## 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

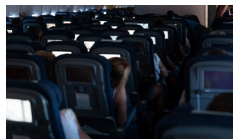
Scoop-Proof- Prevents contacts from being bent or electrically shorted during mating

Stainless Steel Contact Retainers- High contact retention force over operating life cycle

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## Typical Applications:

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

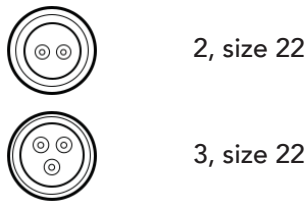


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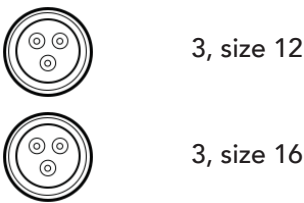
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## Shell Size

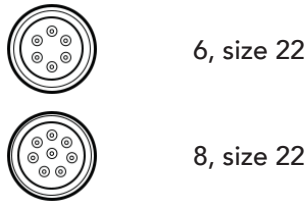
05 (max dia: 0.318)



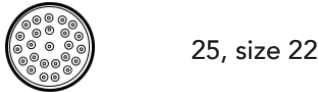
11 (max dia: 0.700)



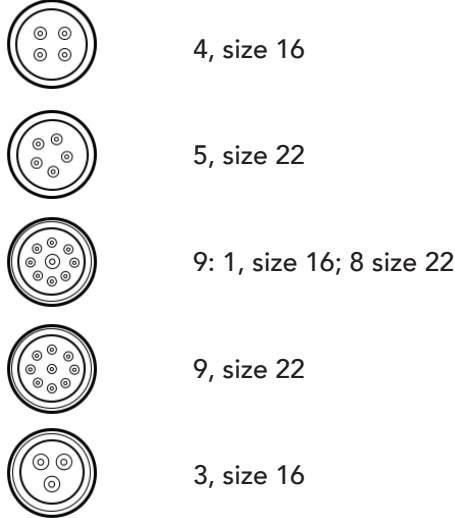
07 (max dia: 0.448)



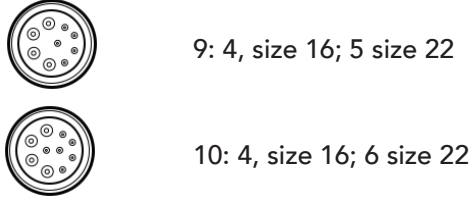
14 (max dia: 0.875)



08 (max dia: 0.528)



10 (max dia: 0.630)



# 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<br>(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                                                                          | SJS503190P                                                                          |
| 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*                                                                       | SJS1AE120P*                                                                       | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                | 22 (2)       |            |     |        |                                                                                   |                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |

\*Available at extended lead time.

# 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.<br>(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                | M22520/1-04 (Blue)<br>M22520/7-04               | M81969/14-03           |
|              | 18                  | 10                     |                              |                              | M22520/7-01                |                                                 |                        |
|              | 20                  | 7.5                    |                              |                              |                            |                                                 |                        |
| 20           | 20                  | 7.5                    | .040 - .083" [1,02 - 2,11mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01                | M22520/1-04 (Red)<br>M22520/2-10<br>M22520/7-08 | M81969/14-11           |
|              | 22                  | 5                      |                              |                              | M22520/2-01                |                                                 |                        |
|              | 24                  | 3                      |                              |                              | M22520/7-01                |                                                 |                        |
| 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



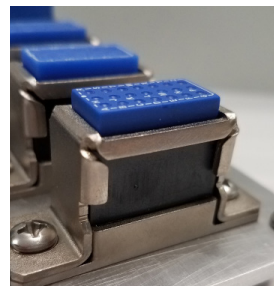
CABLE SOLUTIONS



CIRCULAR



GROUND BLOCKS



JUNCTION MODULES



LUMINUS



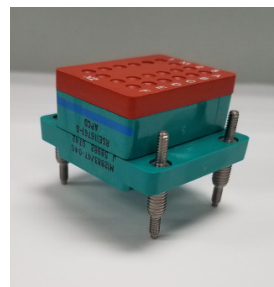
MILITARY AUDIO/POWER



PEGASUS SERIES



RECTANGULAR



RELAY SOCKETS



RUGGED SOLUTIONS



SIM



SOLARIS



SYSTEM ATTACHMENTS

# Amphenol Pcd

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