SYSTEM ATTACHMENTS
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ALBPCL75P

Engineered for lean manufacturing the high performance 75P clamp was designed as a one-for-one replacement to outperform industry standard metal clamps (such as AS21919). Featuring a locking feature, butterfly stacking, weight savings, durable PEEK polymer band material and multiple cushion material options that are completely non-conductive and non-corrosive, the 75P is a versatile solution for anyone looking to reduce weight and installation time.

Specifications

Materials:
- Band: PEEK per Mil-P-46183 Type I
- Cushion: See Cushion Materials pg. 3

Temperature Limits:
- Per cushion material

Flammability:
- Per cushion material

Fluid Resistance:
- Per cushion material

ALBPCL75P Cushion Materials

Cushions for the 75P Clamp are available in a wide variety of rubber materials, including Ethylene Propylene, Nitrile, Chloroprene, Silicone, and Fluorosilicone. Cushion profile, materials, and color-coding are the same as metal clamps for maximum compatibility with any current application and environment.

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**U.S. PATENT NOTICE**
The product specialized in this brochure is covered by U.S. Patent UA9.829.119B2
High Performance P-Clamps

Engineered for lean manufacturing, high performance P-Clamps were developed to replace and out perform traditional P-Clamps and Saddle Clamps. Featuring an overmolded silicone cushion with PEEK polymer, our clamps are completely non-conductive/non-corrosive, lightweight, and very durable.

Specifications

- **Materials:**
  - Plastic (Glass-Reinforced): Polyetheretherketone per MIL-P-46183
  - Elastomer protection: Silicone Rubber per ASTM-D-2000

- **Temperature Limits:**
  - Operating temperature: -65°F to 350°F (-54°C to +177°C)
  - Excursions: Up to 500°F

- **Flamability:**
  - UL94, VO; FAR25.853

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Contact system_attachments@amphenolpcd.com
High Performance Omega Clamps

Engineered for lean manufacturing, high performance Omega Clamps were developed to replace and outperform traditional P-Clamps and Saddle Clamps. Featuring an overmolded silicone cushion with PEEK polymer, our clamps are completely non-conductive/non-corrosive, lightweight, and very durable.

Specifications
Materials:
- Plastic (Glass-Reinforced): Polyetheretherketone per MIL-P-46183
- Elastomer protection: Silicone Rubber per ASTM-D-2000

Temperature Limits:
- Operating temperature: -65°F to 350°F (-54°C to +177°C)
- Excursions: Up to 500°F

Flammability:
- UL94, VO; FAR25.853

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Visit amphenolpcd.com for more information
High Performance LDG P-Clamps

Amphenol Pcd’s LDG P-Clamps use a softer durometer rubber for clamp cushioning, reducing wear and tear on mission-critical cable harnesses without compromising the strength and performance of the clamp. Specifically designed for high performance aerospace cables, such as the MT/MTL product lines, they are easy to use, simple to maintain, and available in 17 different sizes.

Specifications

Materials:
- Plastic (Glass-Reinforced): Polyetheretherketone per MIL-P-46183; Black
- Elastomer protection: Silicone Rubber; 20 durometer Shore A; Light Green

Temperature Limits:
- Operating temperature: -65°F to 350°F (-54°C to +177°C)
- Excursions: Up to 500°F

Flammability:
- Clamp base: UL94, VO; FAR25.853
- Cushion: Meets UL94, HB

Part Number | Size Number | Inner Cushion dia. (ØD) | MIN. Cable Size | MAX. Cable Size | F | L | H | T | Weight
---|---|---|---|---|---|---|---|---|---
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PCL400101 | 101 | 0.125 | 3.18 | 0.155 | 3.94 | 0.248 | 6.30 | 0.59 | 15.1 | 1.18 | 29.9 | 0.64 | 16.2 | 0.18 | 4.6 | 0.14 | 4.08
PCL400102 | 102 | 0.219 | 5.56 | 0.249 | 6.32 | 0.342 | 8.69 | 0.64 | 16.3 | 1.27 | 32.2 | 0.71 | 18.0 | 0.18 | 4.6 | 0.16 | 4.54
PCL400103 | 103 | 0.313 | 7.95 | 0.343 | 8.71 | 0.436 | 11.07 | 0.71 | 18.1 | 1.41 | 35.9 | 0.81 | 20.6 | 0.24 | 6.1 | 0.22 | 6.35
PCL400104 | 104 | 0.407 | 10.34 | 0.437 | 11.1 | 0.530 | 13.46 | 0.76 | 19.3 | 1.51 | 38.3 | 0.88 | 22.5 | 0.24 | 6.1 | 0.24 | 6.80
PCL400105 | 105 | 0.501 | 12.73 | 0.531 | 13.49 | 0.623 | 15.82 | 0.81 | 20.5 | 1.60 | 40.7 | 0.96 | 24.4 | 0.24 | 6.1 | 0.27 | 7.71
PCL400106 | 106 | 0.594 | 15.09 | 0.624 | 15.85 | 0.718 | 18.24 | 0.85 | 21.7 | 1.70 | 43.2 | 1.05 | 26.8 | 0.24 | 6.1 | 0.29 | 8.16
PCL400107 | 107 | 0.689 | 17.5 | 0.719 | 18.26 | 0.811 | 20.60 | 0.93 | 23.5 | 1.84 | 46.7 | 1.20 | 30.5 | 0.30 | 7.6 | 0.38 | 10.89
PCL400108 | 108 | 0.782 | 19.86 | 0.812 | 20.62 | 0.905 | 22.99 | 0.97 | 24.7 | 1.93 | 49.1 | 1.32 | 33.5 | 0.30 | 7.6 | 0.43 | 12.25
PCL400109 | 109 | 0.876 | 22.25 | 0.906 | 23.01 | 0.998 | 25.35 | 1.02 | 25.9 | 2.03 | 51.5 | 1.39 | 35.3 | 0.30 | 7.6 | 0.45 | 12.70
PCL400110 | 110 | 0.969 | 24.61 | 0.999 | 25.37 | 1.092 | 27.74 | 1.07 | 27.1 | 2.12 | 53.8 | 1.48 | 37.6 | 0.30 | 7.6 | 0.48 | 13.61
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PCL400112 | 112 | 1.157 | 29.39 | 1.187 | 30.15 | 1.280 | 32.51 | 1.18 | 30.1 | 2.36 | 59.9 | 1.76 | 44.7 | 0.36 | 9.1 | 0.64 | 18.14
PCL400113 | 113 | 1.251 | 31.78 | 1.281 | 32.54 | 1.373 | 34.87 | 1.23 | 31.3 | 2.45 | 62.3 | 1.82 | 46.3 | 0.36 | 9.1 | 0.67 | 19.05
PCL400114 | 114 | 1.344 | 34.14 | 1.374 | 34.9 | 1.467 | 37.26 | 1.29 | 32.8 | 2.58 | 65.5 | 1.93 | 49.1 | 0.40 | 10.0 | 0.75 | 21.32
PCL400115 | 115 | 1.438 | 36.53 | 1.468 | 37.29 | 1.561 | 39.65 | 1.35 | 34.3 | 2.69 | 68.3 | 2.05 | 52.0 | 0.42 | 10.7 | 0.85 | 24.04
PCL400116 | 116 | 1.532 | 38.91 | 1.562 | 39.67 | 1.655 | 42.04 | 1.39 | 35.3 | 2.78 | 70.6 | 2.14 | 54.3 | 0.42 | 10.7 | 0.92 | 26.04

Contact system_attachments@amphenolpcd.com
Light Weight C-Clamps (CC1339L)

Amphenol’s pre-mountable C-Clamps (Cable Clamps) provide routing, support and fixing for cable harnesses of various diameters. They are used in the wing sections of aircrafts, in the fuselage for power and electrical cables, as well as inside the cabin for in-flight entertainment or cabin service systems. Different materials and configurations are available depending on the temperature and routing of the conduits (including versions for use inside the fuel tank).
- Non conductive/ non corrosive
- Overmolded

 Specifications
 Materials:
 Thermoplastic
 Elastomer protection : Silicone
 Temperature Limits:
 Operating temperature: -55°C to +150°C
 Flammability:
 Conforms to ABD0031 standard
 Fluid Resistance:
 Spray tests: Fuels, hydraulic fluids, lubrication oils, cleaning fluids, de-icing fluids, insecticides

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- Non conductive/non corrosive
- Overmolded

Specifications
Materials:
Thermoplastic
Silicone

Temperature Limits:
Operating temperature: -55°C to +255°C

Flammability:
Conforms to ABD0031 standard

Fluid Resistance:
Spray tests: Fuels, hydraulic fluids, oils, cleaning fluids, de-icing fluids, insecticides
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</table>

Visit amphenolpcd.com for more information
Fairlead Blocks

Designed to ensure that pipes and tubes are properly secured throughout their entire length, Amphenol Pcd’s Fairlead Blocks provide stability against surges and vibration and are available in multiple materials depending on required chemical environment. Our blocks accommodate a wide range of tube diameters and the products can be supplied with all-captive components, eliminating loose parts and potential FOD.

Specifications
- High Performance Materials: Strong, Durable & Lightweight
- All-Captive Components: Lean manufacturing; reduces costs
- Design & Engineering: Prevents wire and tube chaffing; protects against surges and harsh vibration
- Fairlead blocks are custom-built to order

Customer Fairlead Blocks

<table>
<thead>
<tr>
<th>Rails/Spacers Specifications</th>
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<tr>
<td><strong>Materials</strong></td>
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<td>Stainless Steel per ASTM A109</td>
<td>Cadmium Plate per QQ-P416, TYPE II Class I</td>
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**Hat Supports**

Designed to secure and guide wire bundles throughout an aircraft, Amphenol Pcd’s Hat Supports are designed for lean manufacturing and durability. Built in a one-piece, lightweight design with multiple fixing points, the high performance products are strong, durable and make wire bundle installation and maintenance easy. They are able to support large bundles and high stress requirements.

**Specifications**

**Materials:**
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue Fluorosilicone

**Temperature Limits:**
Long-term exposure: 167°F (75°C)
Short-term exposure: 248°F (120°C)

**Flammability:**
FAR 25.853

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Visit amphenolpcd.com for more information
SYSTEM ATTACHMENTS

Harness Supports

Designed to secure and guide wire bundles throughout an aircraft, Amphenol Pcd’s Harness Supports are designed for lean manufacturing and durability. Built in a one-piece, lightweight design with multiple fixing points, the high performance products are strong, durable and make wire bundle installation and maintenance easy. They are able to support large bundles and high stress requirements.

Specifications

Materials:
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue FluoroSilicone

Temperature Limits:
Long-term exposure: 167°F (75°C)
Short-term exposure: 248°F (120°C)

Flammability:
FAR 25.853

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<th>@ Fixing Points</th>
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Contact system_attachments@amphenolpcd.com
Harness Supports

Designed to secure and guide wire bundles throughout an aircraft, Amphenol Pcd’s Harness Supports are designed for lean manufacturing and durability. Built in a one-piece, lightweight design with multiple fixing points, the high performance products are strong, durable and make wire bundle installation and maintenance easy. They are able to support large bundles and high stress requirements.

Specifications

Materials:
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue Fluorosilicone

Temperature Limits:
Long-term exposure: 167°F (75°C)

Flamability:
FAR 25.853

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*Units: Inches

Visit amphenolpcd.com for more information
Harness Supports

Designed to secure and guide wire bundles throughout an aircraft, Amphenol Pcd’s Harness Supports are designed for lean manufacturing and durability. Built in a one-piece, lightweight design with multiple fixing points, the high performance products are strong, durable and make wire bundle installation and maintenance easy. They are able to support large bundles and high stress requirements.

Specifications

Materials:
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue Fluorosilicone

Temperature Limits:
Long-term exposure: 167°F (75°C)

Flamability:
FAR 25.853

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Cable Supports

Amphenol Pcd’s Cable Supports are designed to fix to the aircraft's airframe, helping to secure and manage cable harnesses as they run throughout the aircraft body. They are offered in nylon and are designed for use in airframe, fuel tank, and engine applications. Available in various standard configurations and sizes, Amphenol Pcd also offers customized products to help meet specific customer requirements.

Specifications
Materials:
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue Fluorosilicone

Environment:
Operating temperature: -67°F to +275°F (-55°C to +135°C)

Flammability:
To meet FAR 25.853 AMTD 25-853 (a) and ADB0031

Fluid Resistance:

Application

1. Cable tie
2. Cylindrical support: guides the cables, ensures optimal fixing
3. Ramp: to ease quick feed-in of cable tie

User Warning

- Eliminates any dehydration agent in storage.
- If the piece regains its humidity, this may cause a coloration of the material.
- Surface coloration does not affect technical properties of the material.
- Wiring accessories conform to ROHS and REACH requirements.
# SYSTEM ATTACHMENTS

## Cable Supports

### Straight Supports

**Single**

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<th>Part Number With Block</th>
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<th>Hole Ø (in.)</th>
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## Cable Supports

### Angled Supports

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<th>Weight (g.)</th>
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Visit amphenolpcd.com for more information
# SYSTEM ATTACHMENTS

## Cable Supports

### Angled Supports

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### Stringer Supports for Specific Applications

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## Cable Supports

### Stringer Supports

#### Clamping Supports

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### Cable Supports

1. Angled Support
2. Straight Support
**SYSTEM ATTACHMENTS**

**Cable Separators**

Amphenol’s Cable Separators are used to help separate cable harnesses from one another, aiding in organizing cable routing throughout the aircraft. Available in either Nylon or PEEK material, they maintain clearance between two parallel or crossing cable harnesses preventing wire abrasion. Nine different versions are available and they are qualified to Airbus standard ABS1144. Different material upon request.

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<th>Airbus P/N</th>
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<td>Tube 1</td>
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<tr>
<td></td>
<td></td>
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<td>mm</td>
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Lightening Hole Bushing

Amphenol Pcd’s QuickSNAP Lightening Bushings are made to help guide wired bundles through the aircraft’s frame and stringers. Unlike traditional lightening bushings, our products significantly reduce installation times and reduce the amount of foreign object debris (FOD). The lightweight QuickSNAP’s are made with smooth edges in order to reduce wire chaffing, are available in various standard configurations and sizes, and have the option for custom products as well.

Specifications
Materials:
Nylon per ASTM-D-4066 PA0121
Elastomer protection: Brown Silicon or Blue Fluorosilicone

Environment:
Operating temperature: -67°F to 302°F (-55°C to 150°C)

Flammability:
FAR 25.853

Traditional
Lightening Hole Bushing

15 Minutes to Install
6 part installation
- 3 Rivets
- 1 Nylon part
- 1 Caterpillar
- 1 Sheet Metal part

QuickSNAP
Lightening Hole Bushing

15 Seconds to Install
1 part installation
- 1 Amphenol QuickSNAP
Lightening Hole Bushing

Visit amphenolpcd.com for more information
## Lightening Hole Bushing

<table>
<thead>
<tr>
<th>Amphenol P/N</th>
<th>Outer Ø D</th>
<th>Inner Ø D</th>
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</table>
Standoffs

Made to help guide wire bundles through the aircraft, Amphenol Pcd’s High Performance Standoffs are very strong, durable, and lightweight. Our Standoffs are made with glass-reinforced PEEK a very robust, non-conductive/non-corrosive, and lightweight material with excellent chemical resistance. They come with a locking feature for security, are designed with ribs to provide additional strength, and support a wide range of clamp sizes and harness supports for added convenience.

Specifications

Materials:
Glass-Reinforced PEEK Per MIL-P-46183 with metallic threaded insert

Environment:
Operating temperature: -67°F to +266°F (-55°C to +130°C)

Flammability:
UL94, VO; FAR25.853

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Visit amphenolpcd.com for more information
Amphenol Air Lb France Standoffs

Specifications
Materials:
Black thermoplastic with metallic threaded insert

Environment:
Operating temperature:
Type 1: -67°F to +266°F (-55°C to +130°C)
Type 2: -67°F to +185°F (-55°C to +85°C)

Flammability:
Conform to ABD0031 standard

Flammability:
NATO F44, AS 1241, MIL PRF 680 (type 1), 5606, 7870, 23699, 87937 (diluted), 87252 and ASM 1428

Spray Test:
Fuel, hydraulic fluids, oils, cleaning fluids, de-icing fluids, cooling fluids

Support Type I

<table>
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Amphenol Air Lb France Brackets

Specifications
Materials:
Black thermoplastic
Shocks: RTCA/DO-160G cat. E

Environment:
Operating temperature: -67°F to +185°F (-55°C to +85°C)

Flammability:
Conform to ABD0031 standard

Fluid Resistance
N, O, P and R types: NATO F44, AS 1241, MIL PRF 680 (type 1), 5606, 7870, 23699, 87937 (diluted), 87252 and AMS 1428
S type: Resistant in complete immersion during 24h

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*ABS 1694 & 1695 conform to ROHS and REACH Requirements

1 Panel
2 ABS1694 fixing system
3 Panel mounting system (screw + washer not supplied)
4 Spout for ring clamp
5 Ring clamp
6 Pipe clamp

Visit amphenolpcd.com for more information
Amphenol Air Lb France Brackets

Specifications
Materials:
Black thermoplastic

Environment:
Operating temperature: -67°F to +185°F (-55°C to +85°C)

Flammability:
Conform to ABD0031 standard

Fluid Resistance
NATO F44, AS 1241, MIL PRF 680 (type 1), 5606, 7870, 236/99, 87937 (diluted), 87252 and AMS 1428

Type A05
Type A06
Type A07

Pipe Clamp
ABS1695 fixing system
Fixing system for pipe clamps (screw and nut not supplied)
ABS CC1339 cable clamp
Locking system for fixing system on panel with integrated locking pin
Accessories, Abs, 2225

This fixing bar comes in of various lengths which allows the user to fix Cable Clamps ABS1339 on up to three sides. The adapter on each end of the bar allows the user to select the desired position for the panel mounting 0°, 90°, 180°, 270°.

Specifications
Materials:
Black thermoplastic

Environment:
Operating temperature: -67°F to +302°F (-55°C to +150°C)

Flammability:
Conform to ABD0031 standard

Fluid Resistance:
NATO F44, AS 1241, MIL PRF 680 (type 1), 5606, 7870, 23699, 87937 (diluted), 87252 and AMS 1428

Spray Test:
Fuel, hydraulic fluids, oils, cleaning fluids, de-icing fluids, cooling fluids

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ABS 2225 Systems - Adapter

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Pin for ABS 2225 Body

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Visit amphenolpcd.com for more information
Jig Board Clamps

Amphenol Pcd’s Jig Board Clamps are made for pre-installation wire harness assembly. Made of Acetal, our durable clamps maintain their original shape after continuous use and their smooth edges diminish wear on the harnesses as they are being assembled. Developed in multiple sizes, Amphenol Pcd’s Jig Board Clamps can accommodate a wide range of cable diameters, while the one-piece design enables efficient inventory management.

Specifications
- Designed with Acetal: Strong durable; long life-time
- Various Sizes: Accommodates wide range of wire diameters
- One-Piece Design: Simple and easy to use
- Smooth Edges: Limits wire chaffing and reduces wear and tear
- No elastic band or straps required: Minimizes installation time

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Material: Acetal

Power Feeder Spacer

Power Feeder Spacers separate and provide a constant spacing between the power feeders. The custom design of this product allows a six degree rotation on the power feeder bundle and doesn’t fight against the natural flow of the cable. It is designed to sit within Omega Clamps which can be used as anchor points.