
Amphenol Pcd

Connecting People & Technology

System Attachments



System Attachments

Designed to secure, guide and manage cable harnesses and pipes through aircraft and vehicles, Amphenol Pcd's System Attachments are engineered with strength, stability and weight reduction in mind. Designed for lean manufacturing, our System Attachments are rugged – able to withstand high vibration and shock, and non-conductive/non-corrosive – able to withstand many harsh environments for the lifetime of the aircraft. Based on the requirement, there are many styles and materials to choose from, and customization is always an option.

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Engineered for lean manufacturing, the high performance P-Clamps were developed to replace and out perform traditional P-Clamps and Saddle Clamps. Featuring an overmold 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:

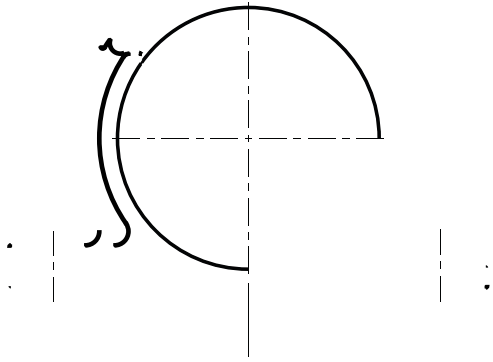
Operating temperature: -65°F to 350°F (-54°C to + 177°C)
Excursions: Up to 500°F

Flammability:

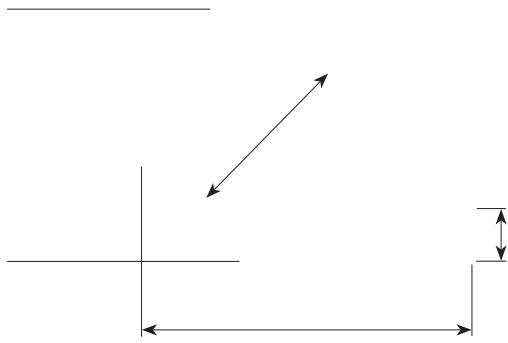
UL94, VO; FAR25.853



HIGH PERFORMANCE OMEGA CLAMPS



HIGH PERFORMANCE LDG P-CLAMPS



Amphenol Pcd's LDG P-Clamps use a soft rubber for clamp cushioning, thereby reducing wear and tear on mission-critical cable harnesses without compromising the strength and performance of the clamp itself. 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

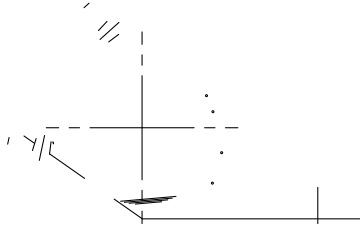
Temperature Limits:

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

HIGH PERFORMANCE C-CLAMPS



Amphenol Pcd's 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).

Specifications

Materials:

Plastic: Black Polyamide

Elastomer protection: Brown Silicon or Blue Fluorosilicone

Temperature Limits:

Operating temperature: -65°F to 350°F (-54°C to +107°C)

Flammability:

Conforms to ABD031 standard

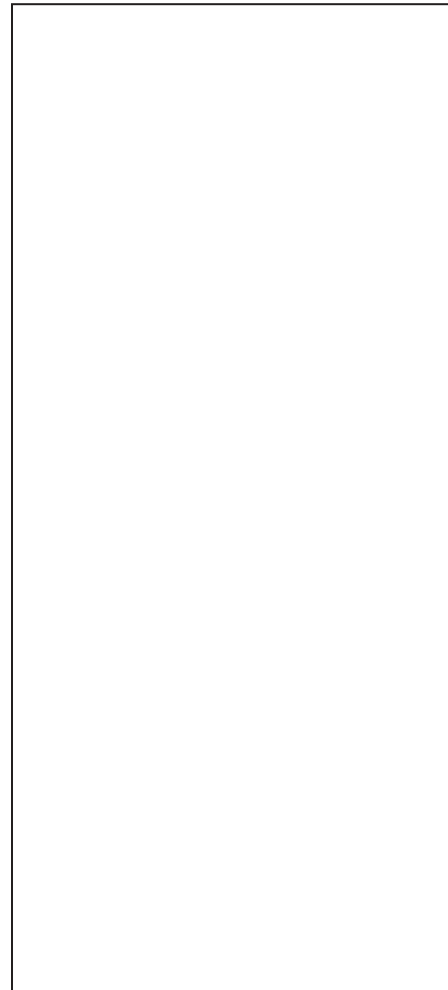
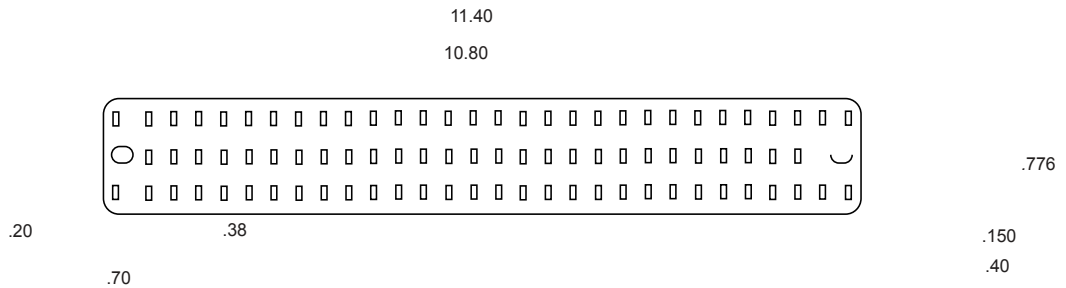
Fluid Resistance:

Brown version: NATO F44, AS 1241, MIL PRF 680 (type 1), 5606, 7870, 23699, 87937 (diluted), 87252 and AMS1428

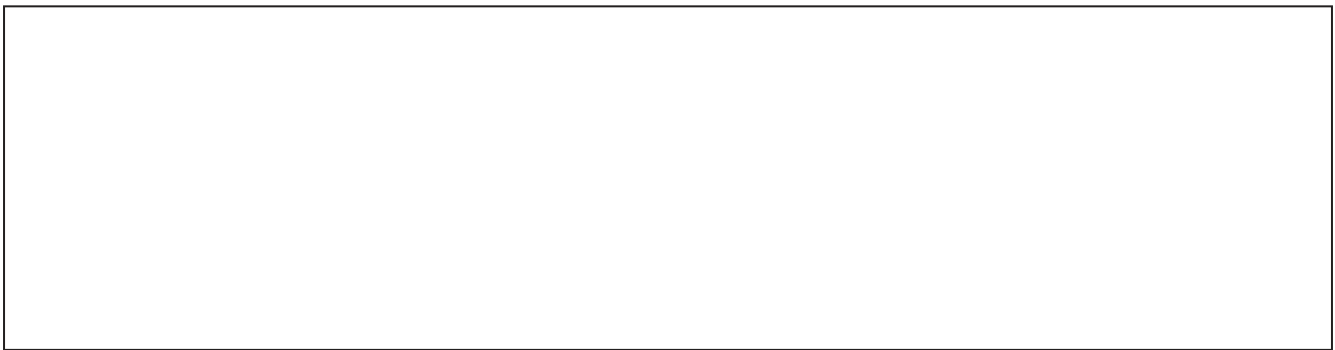
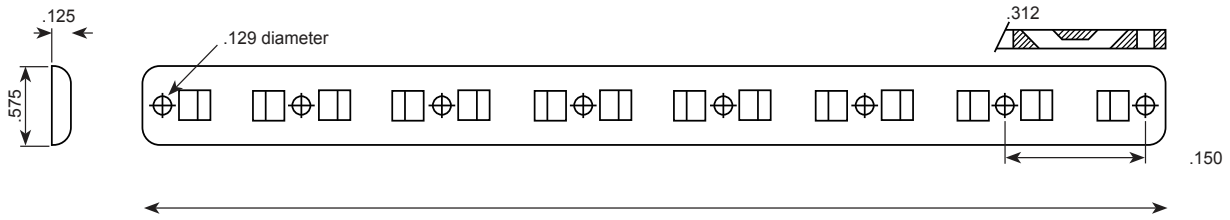
Blue version: Resistant in complete immersion during 96h

HAT SUPPORTS

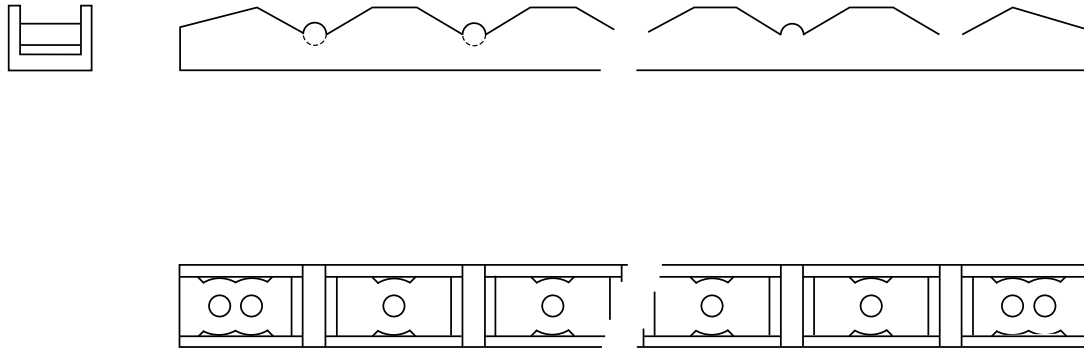
Designed to secure and guide wire bundles throughout an aircraft, Amphenol Pcd's Harness and Hat Supports were designed for lean manufacturing and durability. Built in a one-piece, lightweight design with multiple fixing points, the high performance products are strong, durable and make wire bundle installation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



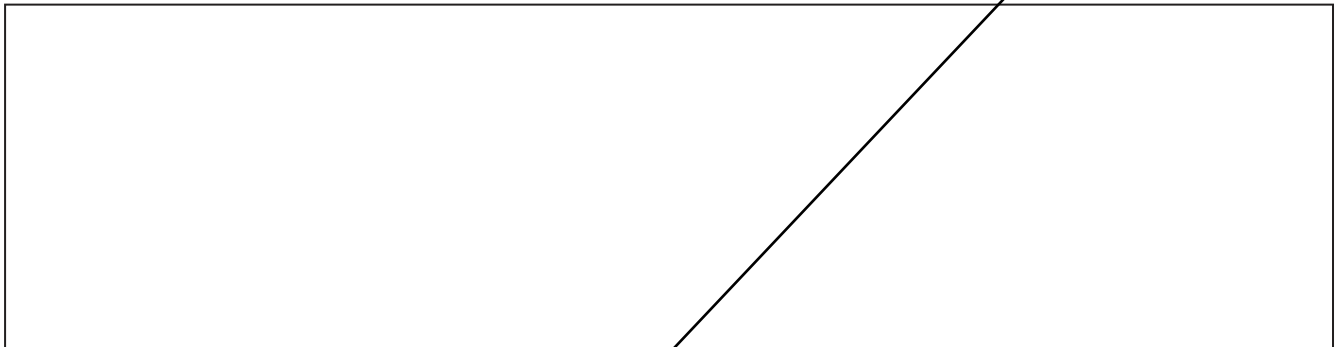
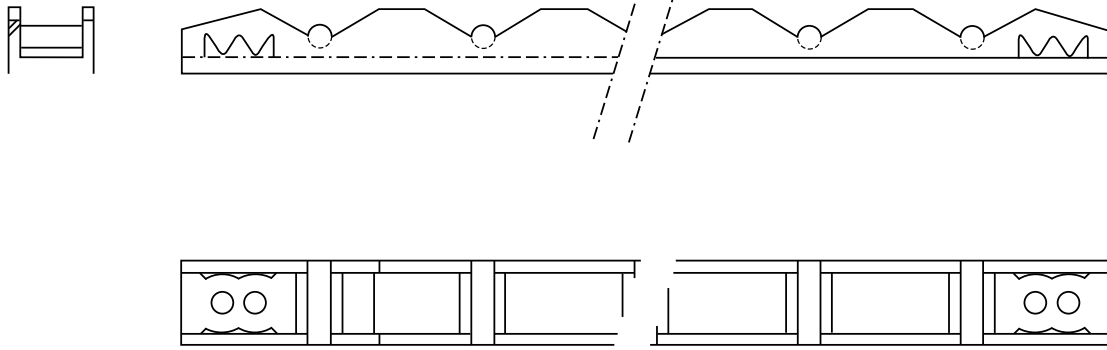
HARNESS SUPPORTS



HARNESS SUPPORTS



HARNESS SUPPORTS



CABLE SUPPORTS

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:

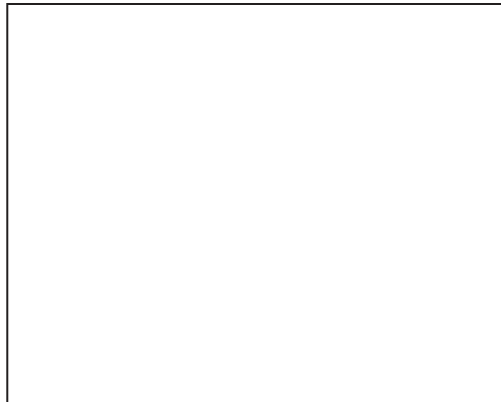
To meet FAR 25.853 amtd 25-853 (a) and ADB031

Fluid Resistance:

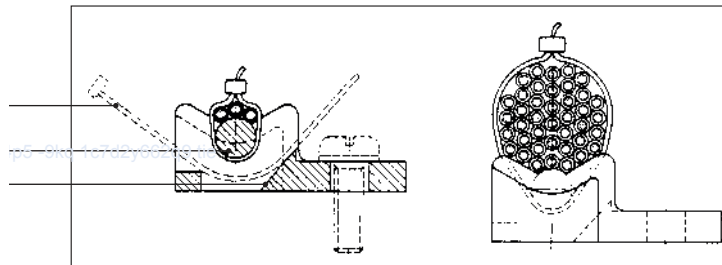
ASTM D 543, MIL-T-81533, TT-T-266, TT-M-261, ASTM D 1635,

MIL-T-5624, MIL-T-83133

Amphenol Pcd's Cable Supports are made to fix on an 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.



Application



STRAIGHT SUPPORTS

Single


Double

CABLE SUPPORTS

	Part Number					

ANGLED SUPPORTS

Double

	Part Number	Ø Wiring Minimum-Maximum (Inch)	Weight (g)	Hole Ø (Inch)	
	003261 503 59	0.08-1.18	6.14	.125	
	003261 513 59		6.13	.137	
	003261 515 59	0.08-0.787	6.10	0.14	
	003261 502 59	0.08-0.59	4.92	.125	
	003261 512 59		4.9	.137	

Heavy Duty Supports

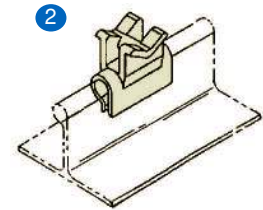
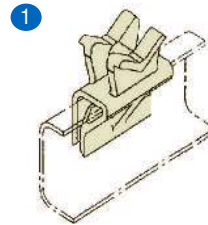
STRINGER SUPPORTS FOR SPECIFIC APPLICATIONS

CABLE SUPPORTS

STRINGER SUPPORTS

Clamping Supports

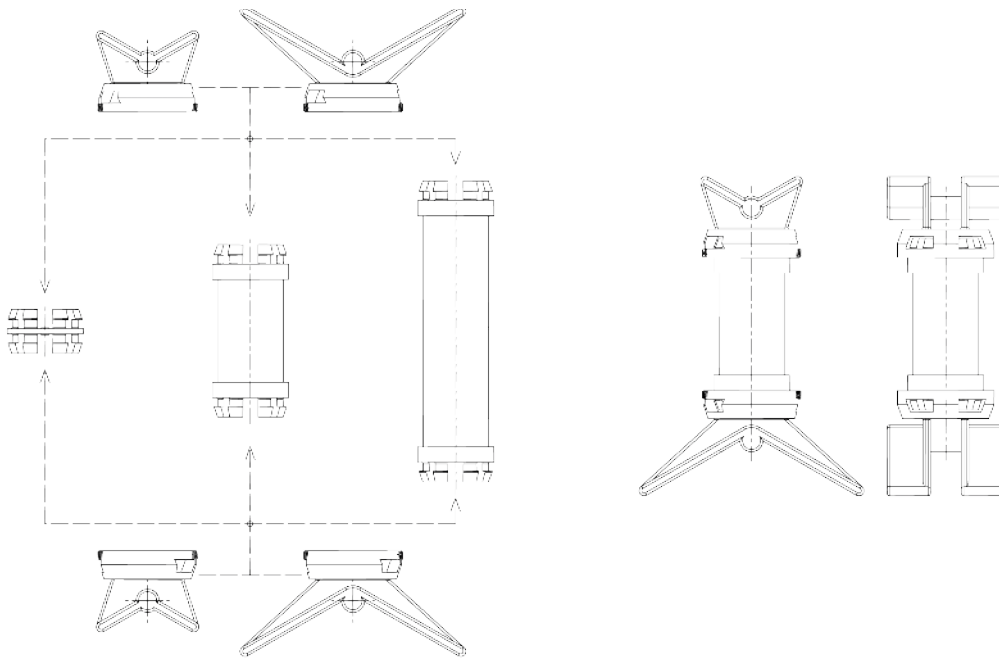
	Part Number	Ø Wiring Minimum-Maximum (Inch)	Weight (g)	
	ALBCBS 310 59-01	0.08-0.59	3.4	
	ALBCBS 310 59-02			



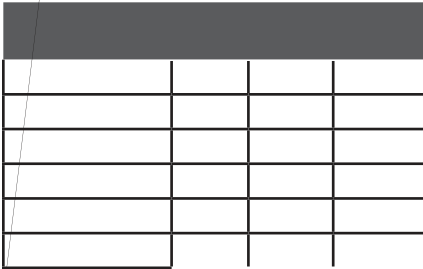
- 1 Angled Support
- 2 Straight Support

CABLE SEPARATORS

Amphenol Pcd'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, 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.



LIGHTENING HOLE BUSHING



Amphenol Pcd's QuickSNAP Lightning Bushings are made to help guide wired bundles through the aircraft's frame and stringers. Unlike traditional lightning 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, and although they are available in various standard configurations and sizes, customization is always an option.

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:

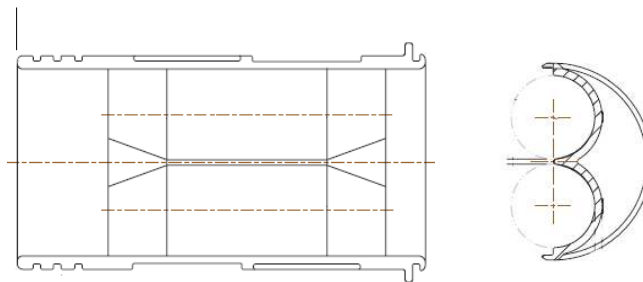
FAR 25.853

CONDUITS

Our high performance Conduits are intended to be supported by Amphenol Pcd P-Clamps. Conduits provide support for wire bundles where separation or protection from other systems or structures is necessary. Conduits can be installed anywhere in the aircraft, including the wings. Although Amphenol Pcd Conduits are available in various standard configurations and sizes, we offer custom products as well.

Amphenol P/N	DIM "A"	Ø B (Inch)
ALBFTD 002-00	5.50	1.06
ALBFTD 003-00	7.25	1.06
ALBFTD 004-00	5.50	0.38
ALBFTD 005-00	7.25	0.69
ALBFTD 007-00	7.63	0.38
ALBFTD 008-00	5.50	0.51
ALBFTD 009-00	8.00	0.44

TOLERANCES: .XX ±.03, ±.XXX .010



STANDOFFS

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

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.

Amphenol P/N	A Length (Inch)	B Thickness (Inch)

AMPHENOL AIR LB FRANCE STANDOFFS

Specifications

Materials:

Black thermoplastic with metallic threaded insert

Environment:

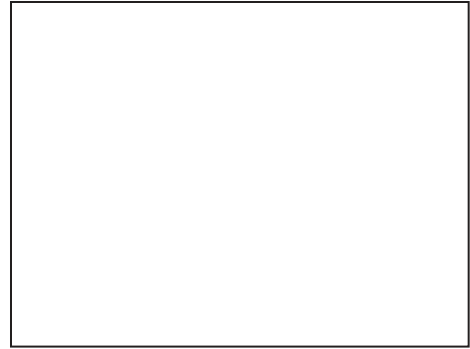
Operating temperature : Type 1: -67°F to +266°F (-55°C to +130°C)
 Type 2: -67°F to +185°F (-55°C to +85°C)

Flammability:

Conform to ABD031 standard

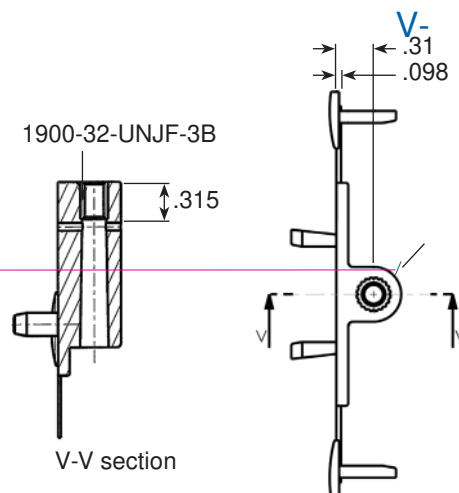
Fluid Resistance:

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



Support Type I

Support Type II



Type	2
Amphenol P/N	3540 0034 356
Weight (g)	9.2

AMPHENOL AIR LB FRANCE BRACKETS

ABS 1694

Specifications

Materials:

Black thermoplastic

Shocks: RTCA/DO-160G cat. E

Environment:

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

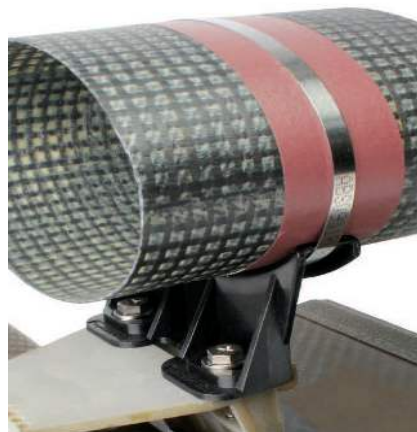
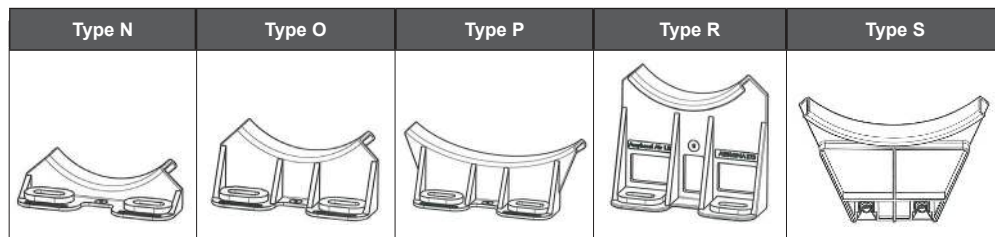
Flammability:

Conform to ABD031 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



AMPHENOL AIR LB FRANCE BRACKETS

ABS 1695

Specifications

Materials:

Black thermoplastic

Environment:

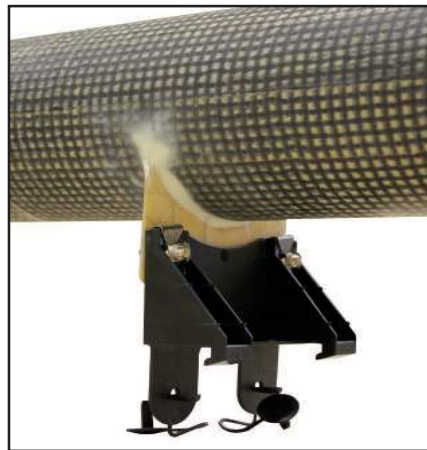
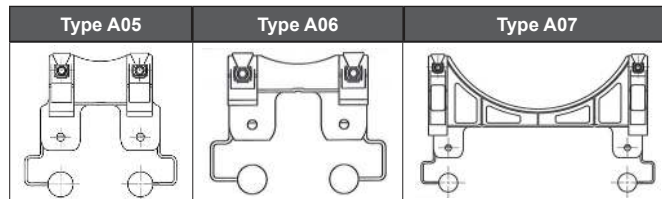
Operating temperature: -67°F to +185°F (-55°C to +85°C)

Flammability:

Conform to ABD031 standard

Fluid Resistance:

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



- 1 Pipe Clamp
- 2 ABS1695 fixing system
- 3 Fixing system for pipe clamps (screw and nut not supplied)
- 4 ABS 1339 cable clamp
- 5 Locking system for fixing system on panel with integrated locking pin

ACCESSORIES, ABS 2225

Specifications

Materials:

Black thermoplastic

Environment:

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

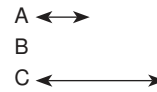
Flammability:

Conform to ABD031 standard

Fluid Resistance:

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

This accessory is a bar 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°.



AALBF P/N	Weight (g)	A (Inch)	B (Inch)	C (Inch)
3540 0131 000	11.7	.591	1.142	1.378
3540 0132 000	13.2	.945	1.496	1.732
3540 0133 000	14.7	1.299	1.850	2.086

POWER FEEDER SPACER & CRN BRACKET

Power Feeder Spacer

Power Feeder Spacers provide a constant spacing between the power feeder. 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 used as anchor points.



CRN Bracket

The CRN Bracket is custom made to hold the "Current Return Network" in place inside a composite aircraft. Very easy to install with a bolt, the CRN system is fixed in place by hand with an integrated snap system on the bracket. The bracket is made of PEEK material, and silicone is compression overmolded onto the bracket.



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. Contact Amphenol Pcd with required dimensions

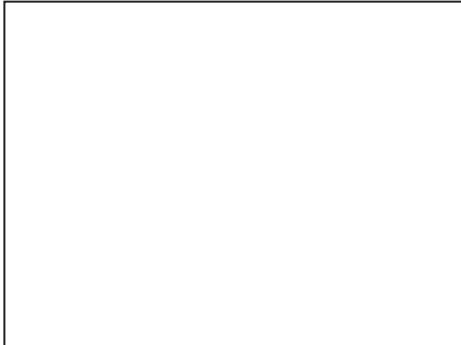


Rails/Spacers Specifications		
Materials	Coating	Application
Aluminum Alloy 6061-T6 or 2024-T3	Chemical Conversion Coating per MIL-C-5541 Class 1A	Light Duty
Stainless Steel per ASTM A109	Cadmium Plate per QQ-P416, TYPE II Class I	High Performance
Carbon Fiber Composite	Contact Amphenol Pcd for availability and 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

Amphenol P/N	Ø A (Inch)	B (Inch)	C (Inch)
ALBCLP 001 01	0.50	1.85	0.375
ALBCLP 001 02	1.25	2.81	0.625
ALBCLP 001 03	2.00	3.80	0.625
ALBCLP 001 04	0.88	2.36	0.500

Material: Acetal

AMPHENOL PCD PRODUCTS



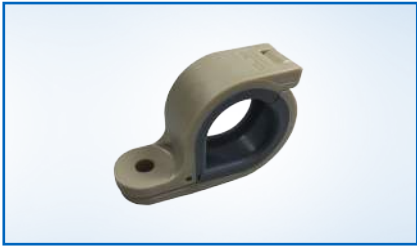
Backshells



Cable Solutions &
Cable Adapters
NEW



Relay Sockets &
Junction Modules



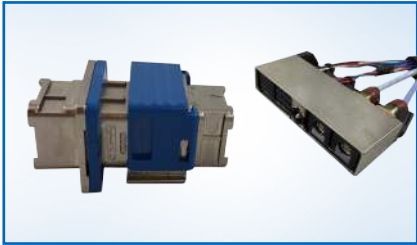
System
Attachments



Luminus Series,
Pegasus Series
NEW



Terminal Blocks



SIM



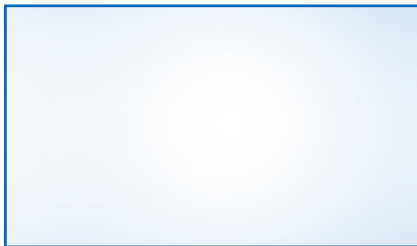
Rectangular



Circular



Waterproof
Solutions



Field Bus



Military Audio
/Power

Amphenol Pcd

Amphenol Pcd, a subsidiary of Amphenol Corporation, is one of the world's leading suppliers of interconnect products for Military, Commercial Aerospace and Industrial applications. Located north of Boston in Beverly, Massachusetts, the company designs and manufactures a wide range of products - System Attachments, Junction Modules, Relay Sockets, Terminal Blocks, Rectangular & Circular connectors, and Cable Assemblies & Adapters.

Each product is made and engineered with the highest quality standards in the industry. With facilities in North America and Asia, Amphenol Pcd products are chosen by hundreds of OEMs around the world, reliant on Amphenol's technical excellence, global network of distributors, and cost-effective solutions for custom systems.

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