



H-PAC

High Power Amphenol Connector

High Power connector



Commercial Aerospace
Defence



BROCHURE 05/25 - V7.0

Customer Service
2 rue Clément ADER, Zac de Wé
08110 CARIGNAN - FRANCE
Tel : +33 (0)3 24 22 32 66
customer-service@amphenol-airlb.fr
www.amphenol-airlb.fr



Amphenol Air LB

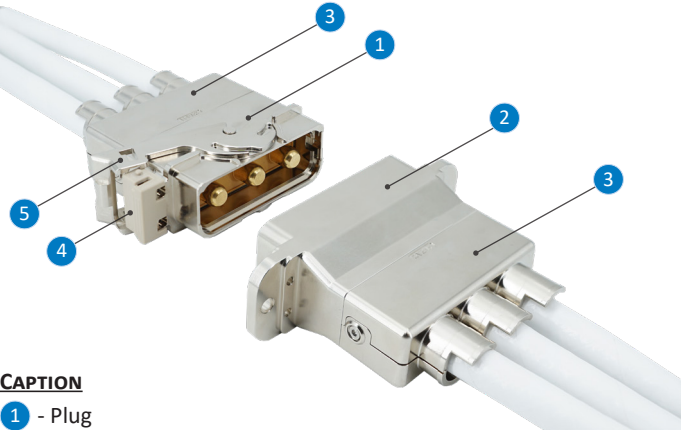
Your Satisfaction. Everyday. Everywhere.

PRESENTATION

H-PAC is a brand new connector for Power applications.

This product features an innovative and easy-to-use locking system offering a perfect connection security: a lever mating mechanism and a CPA (Connector Position Assurance).

This quick-mate and quick-install connector aims to facilitate operator's work for both installation and maintenance and is perfectly suited for high demanding power applications on various platforms such as eVTOLS, UAVs,...



CAPTION

- 1 - Plug
- 2 - Receptacle
- 3 - Accessory
- 4 - CPA security system
- 5 - Locking / unlocking lever

KEY FEATURES

- According to MIL-DTL-38999 specifications
- 360° Shielding
- Temperature: -65°C to +200°C
- Overmolding technology for HVDC application
- HVIL technology (High Voltage Interlock Loop)
- Quick connection / Lever lock assistance
- CPA function (Connector Position Assurance)
- High mechanical conception: metallic shape
- Quick install accessories

TECHNICAL CHARACTERISTICS

DIELECTRIC WITHSTANDING FOR MATED H-PAC (V AC PEAK)

Altitude	Room temperature						200°C	
	Breakdown voltage (BV) differential (ct/ct)		DWV recommended (3/4 BV) differential (ct/ct)		PDIV (5pC) differential (ct/ct)		PDIV (5pC) differential (ct/ct)	
	04-4 ⁽¹⁾	03-0 02-0	04-4 ⁽¹⁾	03-0 02-0	04-4 ⁽¹⁾	03-0 02-0	04-4 ⁽¹⁾	03-0 02-0
Sea level	11300	(2)	8475	(2)	7910	7770	(2)	(2)
30 000 ft	4500	(2)	3375	(2)	4380	3670	2270	3160
45 000 ft	2800	(2)	2100	(2)	2300	2340	1990	1830

⁽¹⁾ Please consult us.
⁽²⁾ Not measured.

SHOCKS & VIBRATIONS

According to RTCA DO 160G sec 7 & sec 8 cat R

- Shocks: Operational 6g / 11ms and Crash safety (Impulse) 20g / 11ms
- Random vibrations: Level E & E1 3 hours per axis

According to EN 2591-402 & 403

- Shocks: 50g / 11ms
- Random vibrations: Level G (0.4 g²/Hz) 8 hours per axis

REFERENCES AND DIMENSIONS

PART NUMBERING SYSTEM

MATERIAL
Metallic

SHELL TYPE
Plug
Standard receptacle

PLATING
Bright nickel (RoHS)

PERIPHERAL SEALING OF THE MODULE
Sealed
Not sealed

MODULE LAYOUT⁽¹⁾
4 contacts size 4⁽²⁾
3 contacts size 0
2 contacts size 0

MODULE TYPE
Pin
Socket

Equipment code to be specified to get a shell equipped with a module

HPAC * 2 * * * *

N |

0 |

1 |

K |

E |

M |

04-4 |

03-0 |

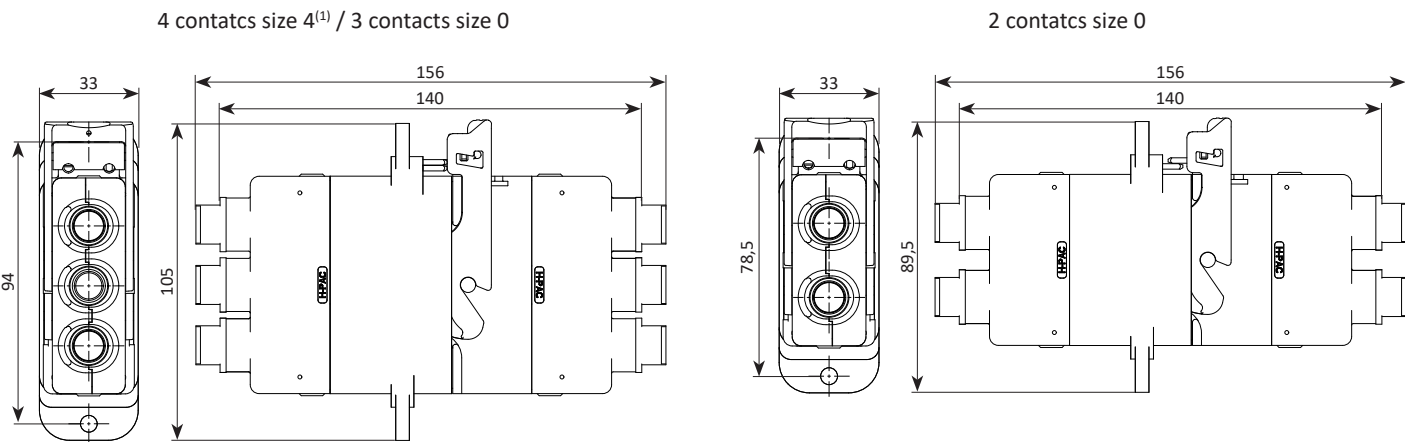
02-0 |

P |

S |

⁽¹⁾ Contacts must be ordered separately.
⁽²⁾ Please contact us.

DENSITY



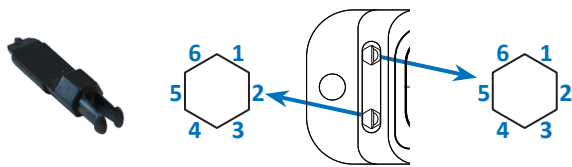
⁽¹⁾ Please contact us.

	04-4 arrangement ⁽¹⁾	03-0 arrangement	02-0 arrangement
Plug + receptacle + accessory weight (without contacts)	325 g		244 g

⁽¹⁾ Please contact us.

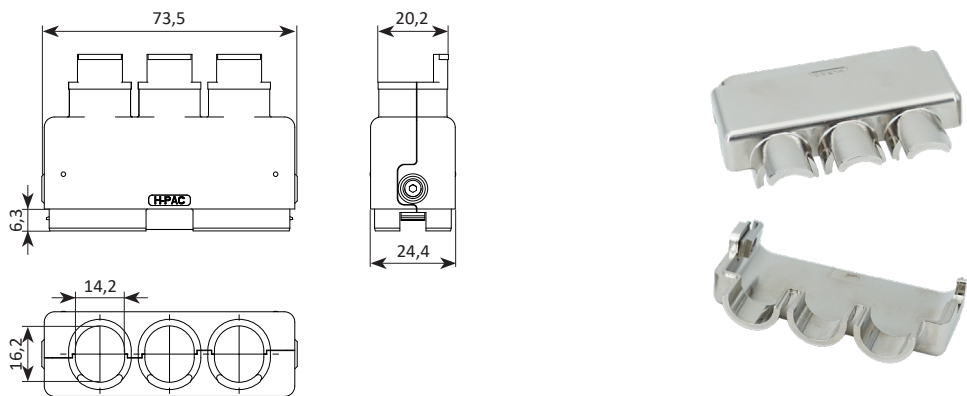
■ POLARIZERS

Each plug / socket can contain 2 polarizers.
Each polarizer can be put in 6 different positions which offers a total of 36 mechanical keying combinations.



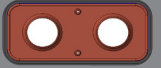
■ ACCESSORIES

The accessories are composed of two half parts and two captive screws.
Use an hexagonal key .078 inch across flats to fix them.
3 versions are available: 4⁽¹⁾, 3 or 2 chimneys.



⁽¹⁾ Please contact us.

■ CONTACTS ARRANGEMENTS

Insert arrangement	 04-4 ⁽¹⁾		 03-0		 02-0	
Contact gauge	#4	#20	#0	#20	#0	#20
Pin	AS39029/29-215 (80A)	AS39029/58-363	AS39029/29-216 (150A)	AS39029/58-363	AS39029/29-216 (150A)	AS39029/58-363
	HV AALB (125A)	EN3155-008M2020	HV AALB (215A)	EN3155-008M2020	HV AALB (215A)	EN3155-008M2020
Socket	AS39029/30-221 (80A)	AS39029/56-351	AS39029/30-222 (150A)	AS39029/56-351	AS39029/30-222 (150A)	AS39029/56-351
	HV AALB (125A)		HV AALB (215A)		HV AALB (215A)	
Number of contacts	4	6	3	4	2	2

Aluminum cable compatible.

⁽¹⁾ Please contact us.