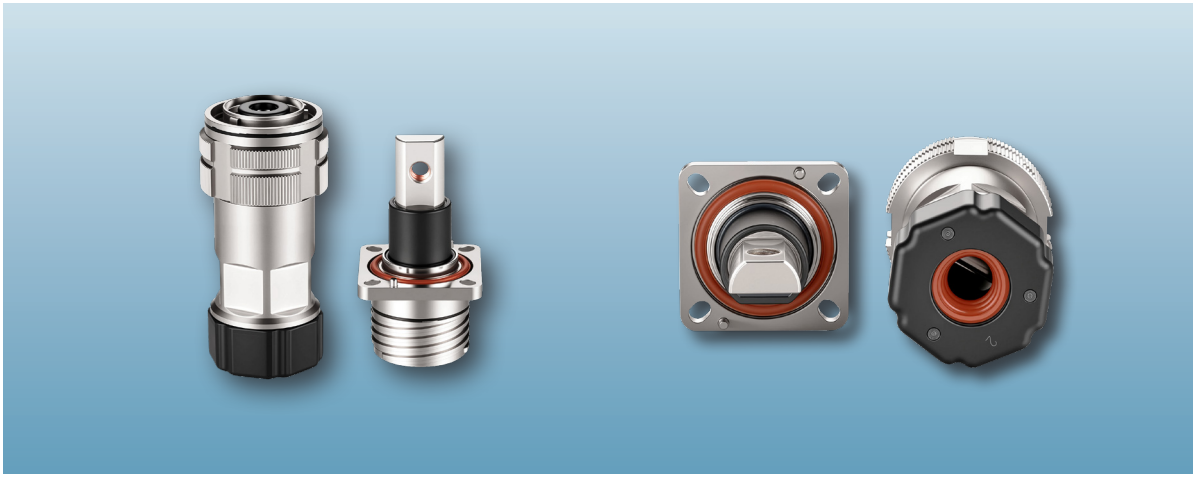
Amphenol®







Amphe-Lite HV Series

Company Profile



Endicott, NY

Amphenol Industrial Operations

Amphenol Industrial Operations, headquartered in a 30,000 square foot facility in Endicott, N.Y., provides a full range of high reliability power/signal connectors and interconnection systems specifically for the industrial markets including rail/mass transit, process control, automotive manufacturing, heavy equipment, wireless base stations and petrochemical/power generation.

Products include ruggedized-for-industry cylindrical, rectangular, fiber optic, signal and power, RADSOK power and power-to-board solutions, cable and harness assemblies, as well as industrialized versions of Amphenol's MIL-DTL-5015 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. Amphenol Industrial Operations employs more than 1,400 people globally and is ISO9001, TS96949 and MIL-STD-790 certified.



Amphenol Technology (Zhuhai) Co., Ltd

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets. Included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage. Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 276,000 ft² and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications.

With industry leading engineering, design and manufacturing expertise, Amphenol Technology(Zhuhai) Co., Ltd. has earned more than 60 utility patents on its innovative interconnects. Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.

Amphenol Amphe-Lite HV Series

Amphe-Lite HV series is based on existing proven Amphe-Lite mechanism for high-power application in eVTOL market like batteries, motors and power distribution units.

Features

- Designed to meet Amphe-Lite mechanical and environmental performance
- All Amphe-Lite shell configurations/finishes available
- Designed for high operating voltages at aircraft altitudes
- Insulator material and creepage/clearance distances increased for high voltages
- Improved insulation geometry for HV electric fields
- Crimp and busbar/threaded termination styles.
- ROHS compliant

Target Applications

- Electric vertical takeoff and landing (eVTOL) aircraft
- Electric Drone
- Electric UAVs

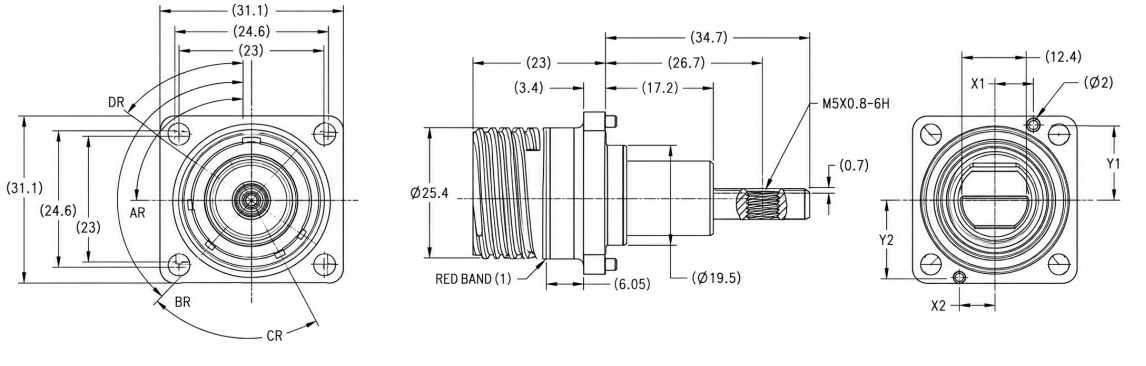
Specifications

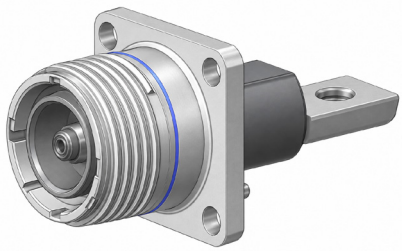
Electrical Characteristics		
Rated Current	Contact Size	5.7mm
	Amperes	120A
Rated Voltage	1000V	
Insulation Resistance		

Material and Mechanical	
Components	**Material & Plating**
Shell	Aluminum Alloy
Coupling Nut	Aluminum Alloy
Contact	Copper Alloy with Silver Plating
Gasket	Silicon Rubber
Grommet	Silicon Rubber
Sealing O-Ring	Silicon Rubber
Durability	500 Cycles
Contact Termination	Crimp and Busbar

Environmental	
Waterproof Rating	IP67 (Mated)
Operating Temperature	-50°~150°C
Vibration	5~300Hz 4.76Grms
Mechanical Shock	6g/ crash safety 20g

Square Flange Receptacle



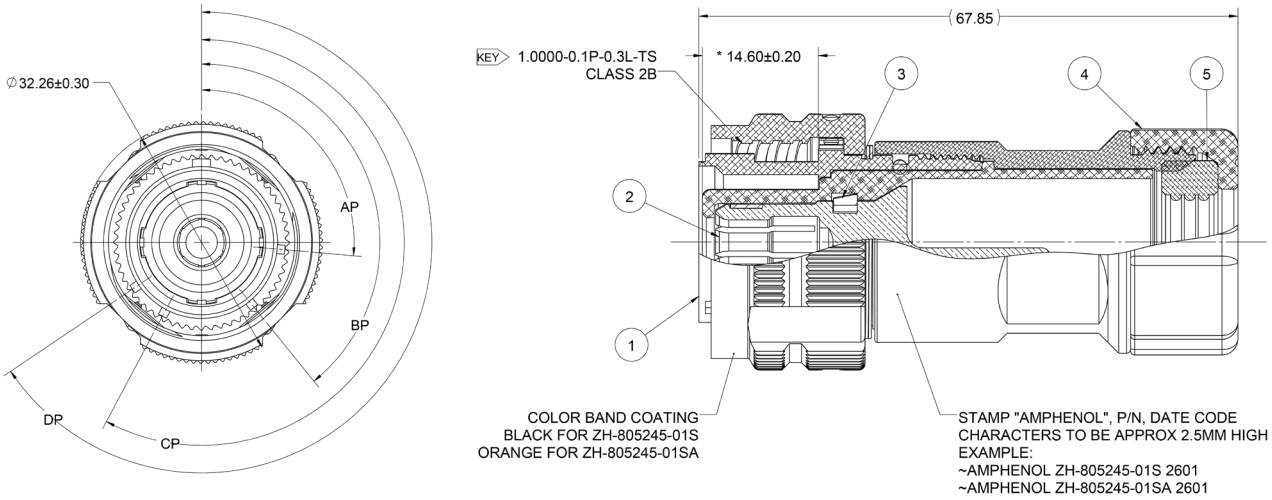


Panel front mount 03

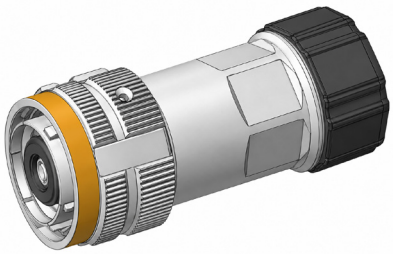
DIM	KEY NORMAL	KEY A
X1	7.5	7.5
Y1	14	14
X2	6.5	14
Y2	14	7.5

All dimensions are in mm

Straight Plug



Part Number	Keyway Arrangement Identification Letter	AP° Ref	BP° Ref	CP° Ref	DP° Ref	Band Color
ZH-805245-01S	None	95	141	208	236	Black
ZH-805245-01SA	A	113	156	182	292	Orange



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