



AHVB Connector Series

Amphenol Industrial has taken the Brush terminal series used in harsh environment military and aerospace applications for over 30 years and developed it for the Heavy Equipment, Mining, Medical, Rail Mass Transit and other Industrial markets. These revolutionary terminals have multiple strands of high tensile strength wire bundled together on each side of the contact that are then hooded for protection.

Amphenol's High Vibration Brush (AHVB) terminals are "problem solvers" in all markets because they are made for high vibration, low mating forces, zero fretting and high mating cycles up to 100k. This terminal series is superior for all signal applications where environmental performance is critical to function, because it has 14 to 70 points of contact when mated making it unmatched in the industry. AHVB comes in a compact package size with a 22 AWG contact at the terminal interface, but can also accommodate up to a size 16 gauge cable or have a PCB tail.

AHVB passes vibrations of 53.8 grms at 8 hours per axis and 2000 Hz, 150°C, and has interface seals that make them impervious to chemicals and diesel fluids. These terminals can be used as in-lines or designed into devices, modules and sensors where vibration and fretting can be a major cause of failures and warranty issues.

Features:

- Zero fretting
- High vibration (53.8 grms)
- Low insertion force (1.0 oz typical)
- High mating cycles - up to 100k
- Small package size - size 22
- Accommodates up to size 16 gauge cable or PCB tail
- Signal contacts rated up to 5 amps continuous
- Less mechanical assist required at high I/O counts
- IP67 mated and backshells or heat shrink can be added for IP69k
- Designed to meet SAE J2030
- 14 to 70 points of contact when mated
- Withstand temperatures to 150°C
- Interface seals impervious to chemicals/caustic fluids

Specification:	
Current Rating	5 Amps (1 Amp Hot Swap)
Contact Size	22
Allowable Wire Size	16-18 AWG
Operating Temperature	-40°C to 150°C
Contact Retention	110N
Mating Cycles	up to 100k
Vibration	53.79 grms
Insulation Resistance	50 GΩ (at 25 °C)
Dielectric Withstanding Voltage	1960V AC (RMS)
Operating Voltage	1000 VDC
Moisture Resistance	IP67 (mated)
Contact Plating	Gold
Crimp tooling	Standard 38999 tools
Removal tool	PN 10-708386-000



AHVB How to Order

1	2		3		4	5
AHVB	1		P		A	(XX)
Series	Number of Terminals		Housing		Cable Range	Special Additions
AHVB	4	4-Way Connector Only	P	Plug	A 16-18 AWG	
			R	Receptacle		
			Terminal			
	1	Terminal Only	F	Female Socket		
			M	Male Pin		
			Kit			
	4	4-Way Set	KT	Kit Packaging (Plug and receptacle with terminals and removal tool)		

Note: Housing Plug must use the Male Pin terminal and Housing Receptacle must use Female socket.

4-way Kits are available today
AHVB-4KT-A

Each Kit Includes:

- 6 pins for 16-18 gauge cable
- 6 sockets for 16-18 gauge cable
- One 4-way plug assembly
- One 4-way receptacle assembly
- One removal tool
- Two pieces of Amphenol's HST heat shrink tubing

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