## **Amphenol**®







#### **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.

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.

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:

- 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

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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	Р		А	(XX)
Series		Number of Terminals	Housing		Cable Range	Special Additions
AHVB	4	4-Way Connector Only	Р	Plug	A 16-18 AWG	
			R	Receptacle		
			Terminal			
	1	Terminal Only	F	Female Socket		
			М	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

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantlee, warrantly, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warrantly that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not any to a considerable or that other measures may not be required. Specifications are typical and may not and may not any to a considerable or that other measures may not be required. Specifications are typical and may not any that are the considerable of the considerable or the construction of th

For further information on your individual application requirements, contact: Amphenol Corporation

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