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Reference # APL-A-5118



NEWS RELEASE

High Vibration Brush Terminal Series from Amphenol Offers Zero Fretting; Ideal for Harsh Environments

AHVB withstands up to 100,000 mating cycles with low insertion force

Sidney, N.Y. August 2015 – Amphenol Industrial Products Group, a global leader in interconnect systems, now offers a revolutionary high [vibration brush terminal](#) series designed to withstand harsh environments. By intermeshing two small wire bundles together, a superior electrical connection is made with 14 to 70 points of contact per mated pair.

The brush-like terminal technology is comprised of multiple strands of high tensile strength wire bundled together on each side of the contact and hooded for protection. These compact size 22 signal terminals are able to accommodate up to size 16 gage cable or a PCB tail and are rated up to 5 A continuous.

Amphenol's high vibration brush (AHVB) is designed to withstand vibrations of at least 53.8 grms at 8 hours per axis and 2,000 Hz. It is an innovation that can be used for all signal applications including in-lines, sensors, fuel systems, and control modules. It is ideal for on-engine applications and fixed positions where high vibration fret resistance and environmental performance is critical to function.

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Ideal for use in the heavy equipment, mining, medical and mass transit markets, the AHVB terminal series exhibits zero fretting and can handle up to 100,000 mating cycles. It also has low insertion forces (70% up to 90% lower than traditional connectors), resulting in smaller footprints, higher I/O counts and less maintenance with levers and screws. The AHVB connection systems are rated IP67 when mated and are designed to pass SAE J2030 validation.

Technical Specifications

- Withstand up to 100,000 mating cycles
- No fretting
- 14 to 70 points of contact when mated
- Can accommodate up to size 16 gage cable
- Size 22 signal contacts
- Rated to 5 A continuous
- Withstand vibrations of at least 53.8 grms
- Low insertion force is 1 oz typical
- Withstand temperatures to 150°C
- Interface seals impervious to chemicals/caustic fluids
- Rated IP67 when mated
- In compliance with SAE J2030

Sample pricing for the 4-way AHVB system kit: 1 plug asm, 1 receptacle asm, 6 pins, 6 sockets, 1 removal tool, 2 pcs of HST (heat shrink) is \$36 per unit. Delivery is 8 weeks ARO.

For more information, please visit <http://www.amphenol-industrial.com> or e-mail kcunningham@amphenol-aio.com.

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UPCOMING TRADESHOW: The Battery Show, Novi, MI, 9/15-17, Booth1231

READER SERVICE INQUIRIES: Please forward all reader service inquiries to Kelly Cunningham at Amphenol Industrial Products Group, Amphenol Corporation, 40-60 Delaware Ave, Sidney, N.Y., 13838-1395; e-mail: kcunningham@amphenol-aio.com; Web: www.amphenol-industrial.com.

EDITOR'S NOTE: [Amphenol Industrial Products Group](http://www.amphenol-industrial.com), headquartered in a 675,000 square foot facility in Sidney, 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, fiber optic, rectangular, and industrialized versions of Amphenol's MIL-DTL-5015 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. It employs more than 1,400 people and is ISO9001, TS96949 and MIL-STD-790 certified.

Amphenol Industrial Products Group is a division of Amphenol Corporation, Wallingford, CT, one of the largest manufacturers of interconnect products in the world, with year 2014 sales topping \$5.3 billion.