Data Link Connector Ideal for Extremely Rugged Environments

Amphenol Industrial introduces a ruggedized, high speed connector for use in extremely harsh environments. Amphenol's Max-M12 connection system is ideal for applications that utilize construction machinery and equipment, forestry equipment, navigation, GPS and telematics, mining machinery and equipment, agricultural machinery and equipment and harsh environment sensors, controllers, actuators and switches.

Designed to withstand high vibration, high temperature and extremely rugged environments, the Max-M12 meets both IEC 61076-2-101 and SAE J 2839 standards. The new system is housed in an HDM 12 EX impact resistant metal shell and available as a 90ï¿½ right angle connector or in a straight version. Both are available in 4- and 5-pin configurations with B, D and P polarity codes in line with IEC 61076-2-101 specifications and come as stand-alone connectors or cable assemblies with the option to over-mold the cable assembly.

The connector can be terminated into 0.8 mmï¿½ (18 AWG) or 0.5 mmï¿½ (20 AWG) wires as defined by SAE J1128 and 0.75 mmï¿½ or 0.50 mmï¿½ conductors as defined by ISO 6722. The new connection system can withstand temperatures ranging from -40ï¿½C up to 125ï¿½C, while maintaining a current rating of 4 A at 250 V (4-pin) and 60 V (5-pin). The IP67 and IP69K compliant Max-M12 is dust and waterproof and resistant to high pressure and high temperature wash downs.

The dielectric withstanding of the Max-M12 is 1,000 V. The connection is rated for impulse voltage of 1,500 V. The connector's electrical insulation provides a resistance of over 20 megaohms, while providing a high temperature life of 1,000 hours at 125ï¿½ C. The contacts are rated at less than or equal to 5 milliohms each with a maximum drop of 50 millivolts.

For more information, please visit http://www.amphenol-industrial.com [1].

Posted by Janine E. Mooney, Associate Editor

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