

MILITARY Vehicles



Rugged Interconnects Optimized for Durability and SWaP

Ruggedized connectivity solutions for military ground vehicles

Military vehicles in active use range from small unmanned ground vehicles (UGVs) that detect and remove bombs to main battle tanks such as the M1 Abrams, and the ubiquitous Armored Multi-Purpose Vehicle (AMPV), and Joint Light Tactical Vehicle (JLTV) used by troops in front-line operations. Interconnect requirements for this broad family of vehicles include resistance to weapon's shock, high-vibration (particularly in tracked vehicles), and of course harsh environmental conditions including temperature extremes and routine exposure to fluids and caustic chemicals. Connectors specified for use in military ground vehicles carry both power and signal, and are increasingly equipped with high-speed datalink capabilities. Optimization for durability as well as size, weight, and power (SWaP) are critical to insuring long service life and reliable performance. A broad range of wire protection technologies including environmental shrink boots and UV-resistant cable jacketing also see frequent use in military vehicle applications.



MILITARY VEHICLE REQUIREMENTS

- MIL-STD-810 harsh-environment performance
- TACOM certification and qualification
- Battery recharge interfaces for mounted soldier C4ISR equipment
- Composite thermoplastic materials for weight reduction and vibration resistance
- Bayonet-lock mating for quick operation and ease of electronic equipment replacement
- Shielded and grounded solutions for resistance to electromagnetic interference
- Military standard (DLA) testing and qualification standards

HARSH ENVIRONMENTAL Rugged Power, Signal, and Wire Protection Interconnect Solutions for Military Vehicles



PROVEN MILITARY VEHICLE INTERCONNECT TECHNOLOGIES



PowerTrip Connectors for Extreme Environments



TurboFlex™ Ultra-Flexible Rugged Power Cable



MIL-DTL-55116 Radio / Audio Connectors



VG95234 Reverse-Bayonet and VG96929 Single-Pole



VG95328 Bayonet-Lock IAW MIL-C-26482



MIL-DTL-5015 type reverse-bayonet RJ45



MIL-DTL-5015 type reverse-bayonet USB



Wide range of wire terminations



Convoluted accordion boots



Y, T, and multibranch transitions



M85049/140 series qualified / TACOM-approved environmental shrink boots