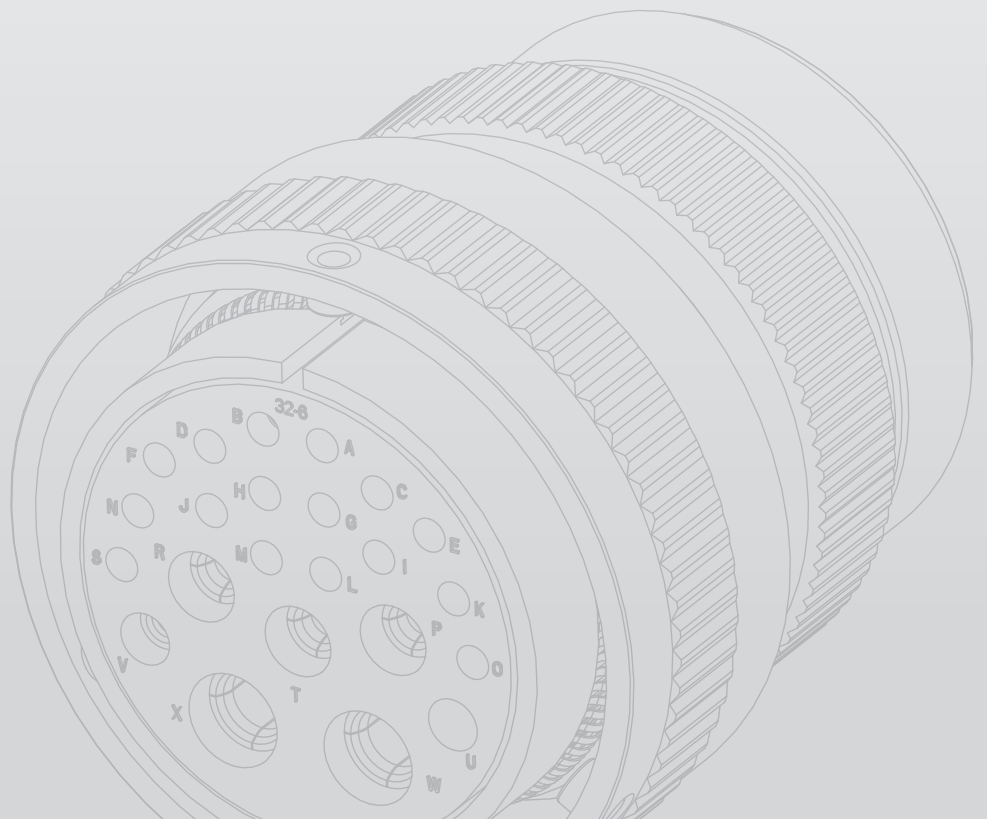


Amphenol

Military Vehicle Solutions



AMPHENOL SOLUTION FOR LAND MOBILE PLATFORMS



VISION SYSTEMS
AND OPTRONICS



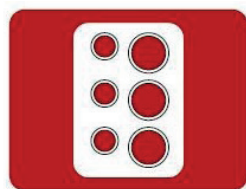
COMMUNICATION /
C4ISR



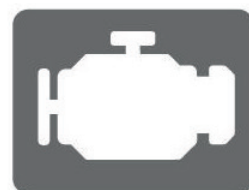
WEAPON SYSTEMS /
TURRET



ACTIVE ARMOUR



VETRONIC
EMBEDDED
NETWORKS



PROPULSION AND
POWER DISTRIBUTION



COUNTERMEASURES
AND JAMMING SYSTEMS



VG95234 / GCB-B

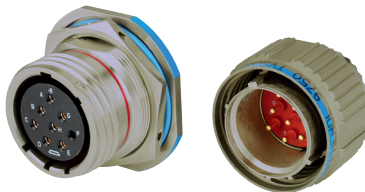


- Circular connectors in the GCB-B series with reverse bayonet locking according to VG95234
- High reliability, waterproof as well as wear- and vibration-resistant
- Temperature range: -55°C to +125°C
- Nominal current to 245 A / Up to 3000V
- Marine bronze and Zinc-tin styles available (VG95234 version B and version J)

Applications



VG95319-1006/-1007/-1008/-1010/-1016 / MIL-DTL-38999 Series III / TV



- TV circular connector with various materials
- Approved as per MIL-DTL-38999 Series III
- Anti-vibration ratchet mechanism
- Temperature range: -65°C to +175°C
- Scoop-Proof up to 187 crimp or PCB contacts
- Hermetical feedthrough available
- Miniature solutions 38999 size 7 available, reduced flange for weight savings and standoffs
- Marine bronze style available (VG95319 version B)

Applications



VG95328 / PT / 62 GB



- Circular, bayonet-locking connector PT
- Up to 61 contacts
- Approved as per VG95328, based on MIL26482 Series I, for crimp, solder, PCB and wire wrap contacts
- Available in stainless steel
- HF-sealed version is available
- Marine bronze and Zinc-tin styles available (VG95328 version B and version J)

Applications



VG96513 / SIM / EN4165



- SIM is a modular, multifunctional rectangular connector
- Metallic version for robust applications and composite version for weight savings
- Available in custom design plates and Rack & Panel versions
- SIM inserts manufactured in overmold technology
- Versatility of mixing & matching RF (Quadrx, Triax, Twinax and Coax), Fiber Optics, RJ45, Signal & Power
- Available in standard 1, 2 & 4 bay, or custom configurations

Applications



VG96912 / SJT

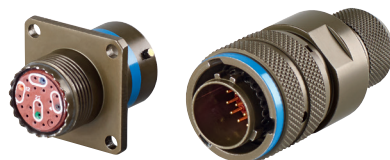


- SJT circular connector with bayonet lock, for crimp, PCB and wire wrap contacts,
- Approved as per VG96912, PAN6433-2, JN1003
- Scoop-proof up to 128 contacts
- Temperature range: -65°C to +175°C
- Marine bronze and Zinc-tin styles available (VG96912 version B and version J)

Applications



VG96912 / SJT DATA CONNECTOR



- Data connector for high-speed, 10Gbit CAT6_A according to VG96912 with mechanically protected contact system
- 500 mating cycles / IP67 sealing (when fully terminated)
- Temperature range: -65°C to + 175 °C
- Contact arrangement 12-35D according to VG96912-6
- Wire size of 22D crimp contacts : AWG28-22/0,09-0,38mm²
- Marine bronze and Zinc-tin styles available (VG96912 version B and version J)

Applications



GCB-M / VG96955



- Reverse bayonet modular connector
- VG96955 in progress
- Up to 4 inserts as per EN4165 for contacts: AWG23-AWG8, FO contacts (MTP, MPO, Lumière, ARINC801, LuxBeam), RJ45, coax, quadrax contacts
- More than 230,000 variations available
- Temperature range: -65°C to +150°C
- Available in various materials and platings
- Zinc-tin style available (VG96955 version J)

Applications



STINGRAY



- Magnetic mating connector optimised for body-worn applications
- Non-keyed rotatable mating
- Wipe clean interface featuring spring-loaded contacts
- 5000+ mating cycles
- Compatible with USB 2.0 and Audio signal requirements
- Last mate contact
- 90° Cable exit within the height of the connector
- IP68 sealed (mated and unmated)

Applications



2M

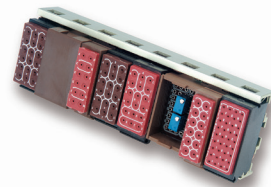


- Miniature solution, derived from MIL-DTL 38999
- For standard signals and high-speed
- Perfectly suitable for new design requiring smaller dimensions
- Plating: Olive drab Cadmium / Nickel / Black Zinc Nickel
- Optimised lead-times for preferred range

Applications



1750



- Quick junction modules for signal and low current distribution
- Sealing (IP66 / IP68 and IP69K), space and weight-saving are prime requirements
- Available from 8 contacts size 12 up to 36 contacts size 22 in different contact configurations
- Fully REACH / RoHS compliant and conform to ABD0031 and FAR 25853

Applications



IGUANA



- Standard Mil-DTL-38999 interface
- IP68 sealed (mated & unmated)
- Pre-loaded PCB contacts
- Reduced flange jam-nut
- Moulded PCB standoffs
- Optional ground-posts
- Minimal penetration into equipment
- RoHS compliant black zinc nickel plating (other finishes available)

Applications



TERRAPIN



- Miniature Footprint
- Breakaway or Latch mating styles
- Sealed to IP68 (mated and unmated)
- Lightweight RoHS Compliant Black Zinc-Nickel Aluminium Option available
- Micro-USB style available
- Gigabit Ethernet and USB 2.0
- Integral Backshell

Applications



VG96944 / POWERSAFE



- Circular connector available in aluminum, stainless steel or marine bronze
- Based on MIL-DTL-38999 Series III
- Versions available as power plugs from 250V to 500V with pre-mated mass contacts, up to 63A
- 3 housing sizes
- Pilot contact
- Temperature range: -65°C to +175°C/+200°C

Applications



RHINO MULTIPOLE



- Circular and rectangular versions
- Modular design based on standard Rhino components
- IP2X finger protection on plugs and receptacles
- Additional Interlock contacts to allow hot-swapping
- Rectangular versions available as Rack and Panel and cable mount
- Reduced foot-print compared to the use of multiple single-way versions

Applications



VG95319-1011 / M85049 / BACKSHELLS



- Backshells VG95319 for EMI Shielding for D38999 Series III
- Available in various versions, straight or bent as tape adapters, individual cone adapters or mold adapters
- Temperature range: as per connector series
- RoHS compliant
- Stainless steel, Marine bronze (VG95319-1011 version B) and Zinc-tin (VG95319-1011 version J) styles available

Applications



RHINO 38999

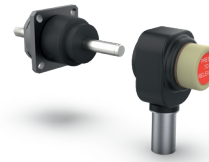


- 85A to 1000A+ single-pole connector
- MIL-DTL-38999 series III design features and panel cut-outs
- Reverse bayonet style available, similar VG-Type
- RoHS compliant black zinc nickel plating (other finishes available)
- Sealed to IP69K (mated), IP68 (unmated)
- Various contact termination styles including bus-bar
- Lowest profile 90° high-power connector in the industry

Applications



RHINOLOK

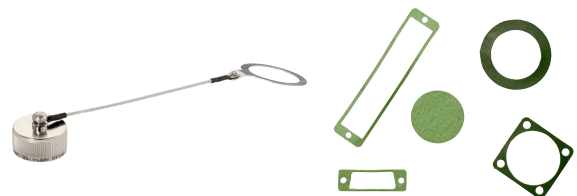


- Tool free mechanical latching mechanism
- Non-keyed rotatable mating
- High durability +500 mating cycles
- Low profile
- 90 degree or inline variants
- Current rating between 85 – 1000Amps DC Voltage
- D38999 Panel Mount compatible
- Ideal for use in applications where access is restricted

Applications



VG96940-06 CONDUCTIVE SEALS AND ACCESSORIES



- Conductive seals approved according to the standard VG96940-6, available in versions A and B. Temperature range: -55°C to 160°C. Shielding properties: Version A: ≥ 80 dB; Version B: ≥ 70 dB. Frequency range: 15 kHz to 100 MHz with extended performances up to 4GHz.
- Protective caps: Standard metal caps, elastomer caps and spring loaded caps

Applications



VG95319-100/-101/-102 / MIL-DTL-83526 AND OTHER OUTDOOR TACTICAL FIBER OPTICS



- TACBEAM: Hermaphroditic lens connector, up to 4 channels, insensitive to dust and dirt. The connector is qualified as per MIL-DTL-83526/20/21 and VG95319 and is suitable for outdoor applications. Multimode and single mode.
- CTOS: Hermaphroditic fiber optic connector for communication between vehicle and battle line qualified as per NATO STANAG 4290. Protective window for easy cleaning.
- Fiber to copper Media Convertors are also available

Applications



μCOM & TVμCOM

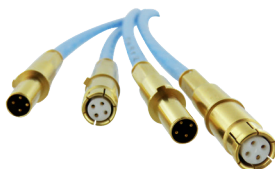


- 10Gb+: exceeds 10Gb/s ethernet following IEEE 802.3an-2006: 10GBase-T
- Cat.6A connector according to TIA568C.2 and ISO/IEC11801 standard
- 15mm max external diameter for μCom
- Environmental testing based on MIL-DTL-38999 Series III (thread version) and on MIL-DTL-26482 (push-pull version)
- TVμCom : combines μCom speed with 38999 size 11 shell. Aluminum, stainless steel and marine bronze shell

Applications



75 OHMS COAX

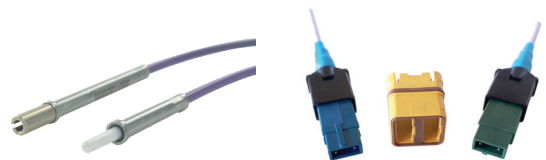


- Contact sizes 12, 8 and 6
- Available for MIL-DTL-38999
- HD SDI, 3G SDI compliant
- Available to crimp and pin-tail versions

Applications



IN BOARD FIBER OPTICS



- PROMI : In Line ARINC 801 Miniature Optical Adaptor, no tool assembly on field
- LuxBeam : Expanded Beam Termini (140x the beam surface). Fits in size 16 or size 12 standard MIL-DTL-38999 series III and SIM contact cavities
- Rugged MT : Combines high density of MT Fiber Optic ferrules with robustness of connectors 38999 & SIM

Applications



NGVA OVERMOLDED CORDSETS ETH + USB



- MIL-DTL-38999 Series III plugs overmoulded on tactical Ethernet and USB cables per NGVA STANAG 4754 standard (NATO Generic Vehicle Architecture)
- Turn-key solution to connect any NGVA compliant equipment onto any NGVA military vehicle network
- 3 signal possibilities : Two USB 2.0 ports, one 1Gb Ethernet port, two 1Gb Ethernet ports

Applications



RJ Field & USB Field



- Based on MIL-DTL-38999 Series III
- 1 Gb Cat5E, Cat & Cat6A Ethernet
- USB 2.0 and USB 3.0
- No cabling operation in field and no tools required
- Sealed against fluids and dusts (IP68)
- Shock, vibration and traction resistant
- MIL-Ethernet Switches & Rugged USB Keys are available

Applications



LMR®



- 100% effective shielding
- Available as preterminated assemblies
- Rugged UV, sunlight and weather resistant
- In-Building communications
- Distributed Antenna Systems (DAS)

Applications



TCOM®



- Low Loss UHF/microwave interconnect
- Wireless base station interconnect
- Low passive intermod
- Flexible for easy routing
- Stable Loss & VSWR vs flexing

Applications



LP-SPT™ Surge Protection Tester



- Measures the voltage protection level of the lightning protection device
- Field portable, lightweight design - weighs only 16 ounces
- Can be used test MOV's, diodes and gas tubes
- Inherently safe circuitry protects personnel

Applications



LMR®-400-UF



- Ultra flexible communications coax
- Drop-in replacement for RG-8/9913 air-dielectric cable
- Jumper assemblies in wireless communications systems
- Short antenna feeder runs
- Works in any application that requires extra flexibility

Applications



Qeam™ (Quick Erecting Antenna Mast)



- Designed specifically for use in mission critical applications where reeling and unreeling is necessary
- Performance proven on the Hawk and Patriot missiles
- Taped PTFE dielectric results in low bending moment
- Meets MIL-T-81490 requirements
- Qeam cables are sold only as finished assemblies

Applications



LP-BTR Series of LP Devices



- DC blocked for maximum surge protection
- Multi-strike capability
- Broadband performance from 20MHz up to 1000MHz
- Exceptional RF characteristics
- Solid brass construction for durability and long life

Applications



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