

MILITARY CABLE HARNESSSES

Ruggedized Cable Harnesses for Ground Defense Mobility Applications





Falmat Custom Cables is a key supplier to many major defense contractors of cable harnesses for military ground vehicles within various program platforms. Our composite approach as a complete custom cable manufacturing facility, along with our streamlined harness fabrication assembly line, provide a unique ability to design, fabricate and meet demanding delivery schedules from first article to full multi-year production programs.

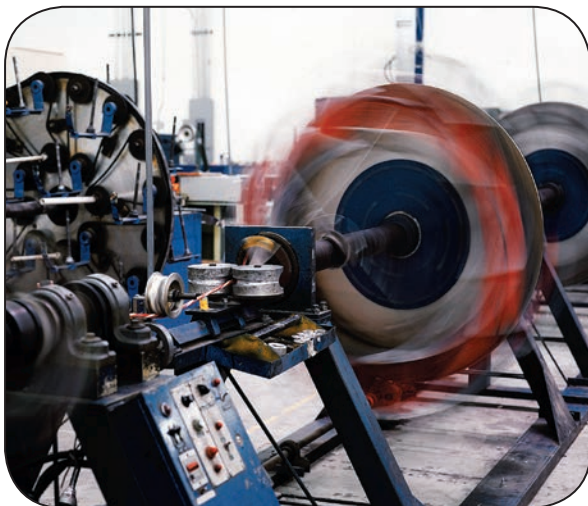


Program sampling of ground defense platforms supplying cable harnesses:

- | | |
|----------------------|-------------------------|
| FBCB2 / BFT / I-Kits | MFoCS |
| MIDS | JCREW |
| MRAPS | TV |
| BACN | Stryker |
| Paladin | Predator Ground systems |

Quality compliments our modern manufacturing capabilities and testing:

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|-----------------------------------|--------------------------------|-----------------------------------|
| AS 9100 Rev C / ISO 9001 | Low Skew | VSWR |
| IPC WHMA-A620 Class I II III | FAI First article test reports | Optical OTDR |
| ANSI ESD S20.20 compliant | ITAR registered | 100% Continuity, Hi-Pot, IR |
| Attenuation, Insertion loss | IPC J-Std 001F Soldering | Mechanical testing, qualification |
| Ethernet TIA/ EIA network testing | UL, CSA, NEMA | |



CABLE PRODUCT TYPES:

Terminations (such as Mil-DTL-38999, Mil-5015, power, control, audio, video, coaxial data, RS-232, RS-485, Ethernet, can-bus, USB, composite power and data, fiber-optic, D-Sub, BNC, TNC, SMA, PCB-repeaters, filters, IP-67, IP-68, ground straps) focus on Mil-DTL-38999, series type I, II, III, Power, data, Ethernet and composite inserts. Applications of Ethernet up to 10Gb with RJ45, mini-density 8pin, EN4165, EN3645, Radiall EPX, ARINC types are used for high-speed data and HD-video applications.

ASSEMBLY PROCESS CAPABILITIES:

Discrete wire, coax, end-to-end

Automated cutting, stripping & crimping

Soldering to J-Std 001F

Potting, sealing

Overmolding, HS Boots

Multi-breakout harness configurations

Manual/semi-manual crimping

Shield terminations, solder, mechanical

Strain relief, mechanical assembly

Hi-pot, IR, in-process



Cable Design / Environments considerations are carefully chosen in meeting Military vehicle requirements of temperature extremes, fuels, oil, chemical, shock, vibration, salt spray, and water submergence standards, as well as NBC and STB decontamination exposure.

Cable designs from bench assembly to bulk cable using our state-of-the-art cable manufacturing facility with primary insulating, planetary cabling, precision data twisting of UTP, STP, braiding, taping and extrusion from 30awg wire to 3.5" finished jacket diameters, as well as pneumatic applied or shrink thermoset jackets.

Build to print using QPL Mil-Spec wires, cable, sleeving, shielding and Falmat custom designed cables.

Insulations: Teflon, Tefzel, XL-Tefzel, XLPE, PP, PE, TPE, Mil-W-16878, Mil-DTL-22759, Mil-C-17

Shielding: Machine braiding of tinned copper, silver, nickel, HSCA, aluminized tapes, and copper tapes meeting EMI/RFI requirements.

Jacketing: Polyurethane, LSZH-PUR, LSZH-Olefin, TPE, PVC, PE, FPE, HDPE, PP, Nylon, Hytrel, Neoprene, Viton, Silicone, Polyolefin and Fluoropolymer

- Sub-sea cable specialist with capabilities of water-blocking, steel armor, Kevlar®, Vectran® for dynamic or static electro-optical cable designs for bottom, ROVs, AUVs, bottom laid and tow cables.





1873 DIAMOND STREET SAN MARCOS, CA 92078 U.S.A.
TEL: (760) 471-5400 FAX: (760) 471-4970 WEB: WWW.FALMAT.COM