

Defense Cables & Harnesses



Ruggedized Custom Cables & Harnesses
for C4ISR Environments/Ground Defense Mobility,
Airborne and Naval Applications

Direct from the Source, Falmat is Your
Quality Custom Cable Manufacturer





Design • Manufacture • Deliver

Falmat Custom Cable Technologies is a key supplier of C4ISR cable harnesses for military ground vehicles in various program platforms for many major defense contractors. Our composite approach of a complete custom cable manufacturing facility, along with our streamlined harnesses fabrication assembly line provide a unique ability to design, manufacture and meet demanding delivery schedules from first article to full multi-year production programs.



Program sampling of ground defense platforms supplying cable harnesses for C4ISR applications:

FBCB2 / BFT / I-Kits	MFoCS
MIDS	JCREW
MRAPS	JLTV
BACN	Stryker
M1, Paladin	Predator Ground Control

Quality compliments our modern manufacturing and testing capabilities:

AS 9100 / ISO 9001	ITAR Registered
IPC WHMA-A620 Class I II III	IPC J-Std 001 Soldering
ANSI ESD S20.20 Compliant	UL, CSA, NEMA
Attenuation, Insertion Loss	VSWR
Ethernet TIA/EIA Network Testing	Optical OTDR
Low Skew	100% Continuity, Hi-Pot, IR
FAI First Article Test Reports	Mechanical Testing Qualification

Termination Types

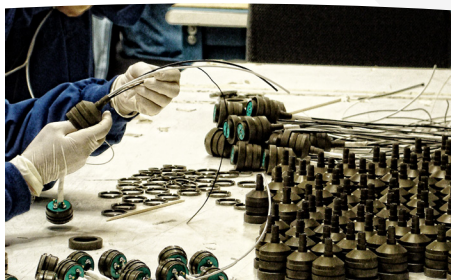
Terminations (such as Mil-DTL-38999, Mil-5015, power, control, audio, video, coaxial data, RS-232, RS-485, Ethernet, can-bus, USB, composite power and data, fiber-optic, D-Sub, BNC, TNC, SMA, PCB-repeaters, filters, IP-67, IP-68, ground straps) focus on Mil-DTL-38999, series type I, II, III, Power, data, 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 001
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

Cable Design / Environment considerations are carefully chosen to meet 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.

Falmat cable designs of bench assembly to bulk cable, using our state-of-the-art cable manufacturing facility with primary insulating, planetary cabling, precision data twisting (UTP & STP), braiding, taping and extrusion (from 30awg wire to 3.5" finished jacket diameters), as well as pneumatic applied or shrink thermoset jackets are what sets us apart in this industry.

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.

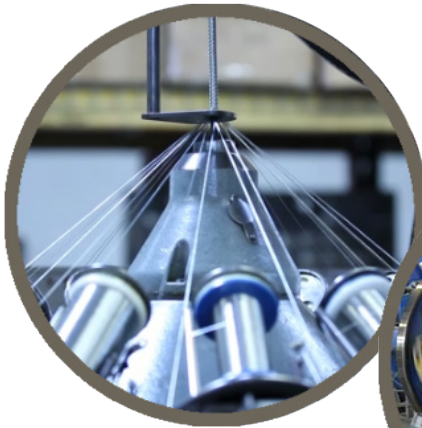
Jacketing: Polyurethane, LSZH-PUR, LSZH-Olefin, TPE, PVC, PE, FPE, HDPE, PP, Nylon, Hytrel, Neoprene, Viton, Silicone, Polyolefin and Fluoropolymer

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.





Unparalleled Performance *for* Defense Technologies



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