

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
M ¹ , Paladin	Predator Ground Control

Quality compliments our modern manufacturing and testing capabilities:

AS 9100 Rev C / ISO 9001	ITAR Registered
IPC WHMA-A620 Class I II III	IPC J-Std 001F Soldering
ANSI ESD 520.20 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, Radial 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

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, a uminizedtapes, and coppertapes meeting EMI/RFI requirements.

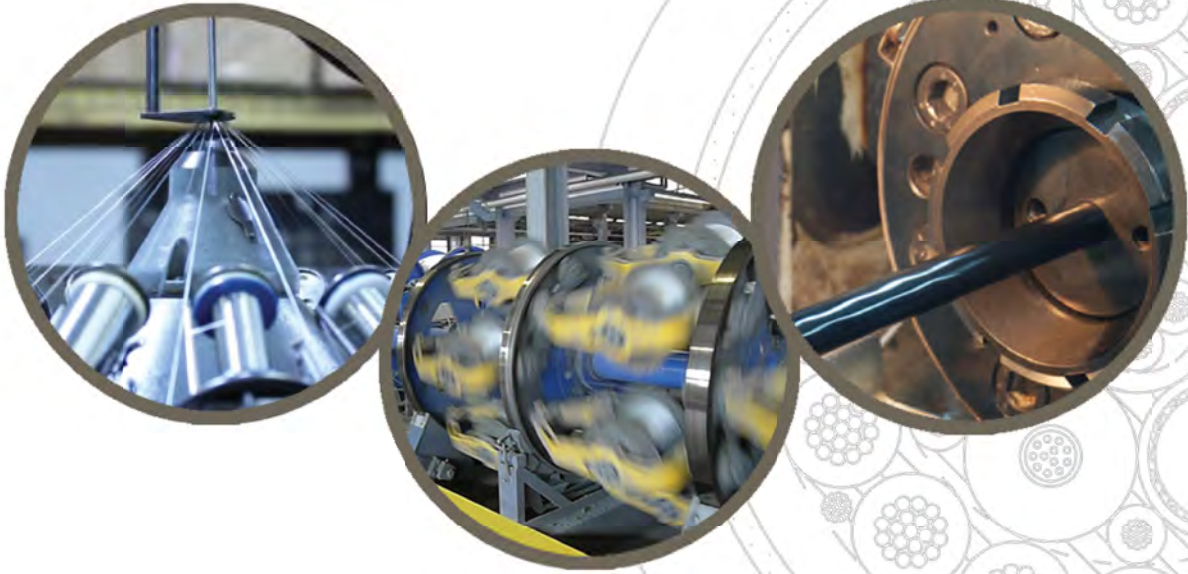
Jacketing: Polyurethane, LSZH-PUR, LSZH-Olefin, TPE, PVC, PE, FPE, HDPE, PP, Nylon, Hytrel, Neoprene, Viton, Silicone, Polyolefin and Fluoropolymer

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



Falmat, Inc.
1873 Diamond Street
San Marcos, CA 92078 USA

760.471.5400 Tel
760.471.4970 Fax
www.falmat.com

