



Wire Harness



Product:

Shield & Jacketing of Aircraft
FLIR Harness

Problem:

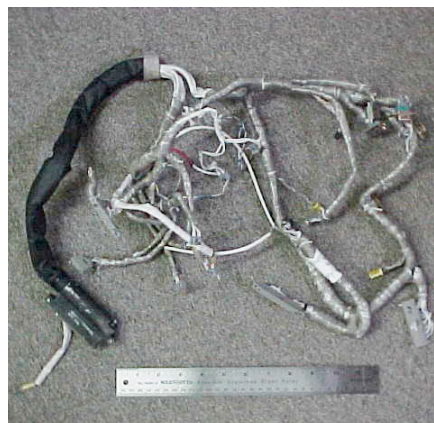
A small diameter wire harness located in a Helicopter's pivoting FLIR ball turret required EMI hardening and insulating while maintaining harness flexibility. The solution required the materials to be very thin, lightweight and aviation approved. The harness was a closed loop design in several areas requiring the materials to be of a wrap around design.

Solution:

A mixed combination of several standard Zippertubing products located in key areas solved all the vehicle's performance requirements and allowed the harness to perform as originally specified by the manufacturer.

Material:

Zippertubing's **Shrink-N-Shield[®]**, a conductive cloth EMI shielded heat shrinkable tubing; **Z-Shield[®]**, a wrap around fire retardant Polyurethane jacket with **Z-3250-CN** conductive cloth; and **Shielded ZT-Tape[®]**, a thin wall Polyurethane and conductive cloth tape combination. In several locations Zippertubing's **Z-3250 EMI** tape and **ZT-Tape-8235** were used as stand alone materials to facilitate some unique electrical bonding and grounding requirements.



Conclusion:

The combination of high quality materials, years of military aircraft harnessing experience combined with precise application knowledge allowed Zippertubing to provide the customer with a easy solution to a vary complex design problem. Zippertubing's ability to provide the customer with an operational prototype, all necessary materials, detailed process instructions and visual aids allowed the customer to solve the problem in a very short timeframe.