



AIR

LAND

ELFON LTD

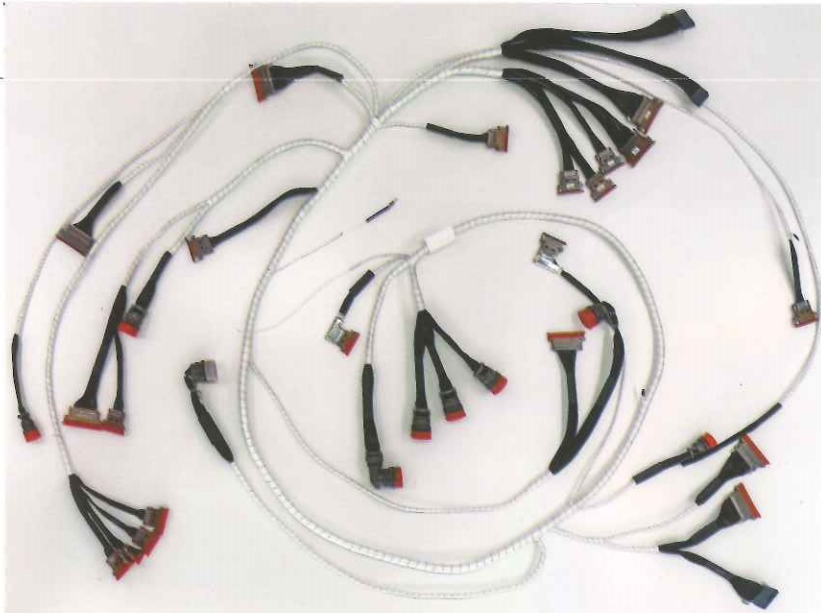
INTERCONNECTS

SEA

ABOUT ELFON

ELFON LTD IS A MANUFACTURER OF OEM WIRING HARNESSSES AND ELECTROMECHANICAL ASSEMBLIES FOR AVIATION, DEFENSE, AND SPACE APPLICATIONS.

IT DELIVERS TO TIER 1 & 2 CONTRACTORS IN EUROPE AND NORTH AMERICA.



ELFON's core business incorporates the **Design, Manufacturing, Testing, and Installation** of Wiring Harnesses and Electromechanical Assemblies.

ELFON also carries out the integration of systems that comprise electrical, electronic, mechanical and composite components.

HERITAGE

ELFON was established in 1975. It has accumulated a **long experience** in the execution of subcontract work for demanding programs through the successful completion and delivery of numerous projects for major aerospace contractors.

Such projects include, wiring harnesses for submarines, surface vessels, fighter aircraft, vehicles, missile systems, spacecraft, and space payloads.

Up to date, ELFON has an impeccable record of **Quality & Delivery**.

PERSONNEL ELFON's personnel are **highly qualified**, seasoned engineers and production operators. Company Engineering regularly participates in working groups with international aerospace companies for the exchange of ideas and the improvement of products and processes. Production operators are **certified by IPC and ESA** for critical operations.

PRODUCTS & SERVICES

SERVICES

OEM WIRING HARNESS MANUFACTURING

- Power Harnesses
- Signal Harnesses
- Fiberoptic Assemblies
- SpaceWire Assemblies

WIRING HARNESS DESIGN

- 3-D Model Development
- 2-D Manufacturing Drawing realization
- Full Product Manufacturing file compilation

ON-BOARD INSTALLATION

- Cabling Termination
- Cabling Testing
- Certification

PRODUCTION CAPABILITY

- 1 Harness Assembly: Stripping, Crimping, Soldering
- 2 Coaxial Cable Assembly
- 3 Fiberoptic Cable Termination and Splicing
- 4 LASER Marking & Cutting of wire
- 5 Braiding: NOMEX, Metal
- 6 Low Pressure Polymer Encapsulation
- 7 ISO 8 Production
- 8 ISO 5 Cleaning

TESTING CAPABILITY

- 1 Automatic Testing: Continuity, Insulation, Resistance
- 2 Phase Lag/Phase Matching
- 3 Insertion Loss
- 4 Bond Resistance
- 5 Metallographic Analysis

ENGINEERING & DESIGN

FOR EVERY PROJECT, ELFON'S ENGINEERS PARTICIPATE IN CONCURRENT ENGINEERING SESSIONS WITH THE CUSTOMER IN ORDER TO OPTIMIZE PRODUCT DESIGN AND IMPROVE MANUFACTURABILITY.

ELFON is capable of providing a full product specification that meets customer needs. Furthermore, it procures the components, produces the manufacturing and quality documentation, performs production and testing, and **delivers certified products.**



DESIGN CAPABILITY

- CATIA V.5
- Autocad Inventor®

TOOLING AND MOCKUPS

ELFON conducts extensive research and uses exclusively the standard, approved tooling for the hardware that it processes.

The company constructs its own form boards, while it has the capability to design and build 3-D Mockups of large flight structures. Mockups are designed to be suitable for ELFON's production, third-party processing, testing, and transportation.

THEY TRUST US



LOCATION

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PRODUCT ASSURANCE & CERTIFICATION

The Quality Management System of ELFON LTD is certified according to AS/EN 9100 and ISO 9001. ELFON is also certified according to ISO 14001.

Customers regularly grant **ELFON Source Quality Inspection** for the most demanding products. ELFON operates in a manner that is "worry free" for its customers.

QUALITY ASSURANCE

The QA department is an independent function within ELFON. It has its own laboratory, tooling, and instruments for the purpose of checking production and all company functions that affect product quality directly or indirectly.

PROCESS QUALIFICATION

ELFON applies processes which conform to international standards (IPC/WHMA, ECSS) and have been qualified through third-party testing, customer testing, or actual system operation.

PRODUCT ASSURANCE

FLEXIBILITY

ELFON possesses a very efficient organizational structure that provides for a quick and reliable response to customer needs, such as product change, improved delivery, and quality review. The implementation of change is swift and precise.

REVIEWS

It is normal procedure for ELFON to participate in reviews that involve the immediate and the ultimate customer. Company engineering prepares the relevant internal or customer required reports and readily reports on the planning, progress, and quality status.

SECURITY & SUPPORT

INDUSTRIAL SECURITY

ELFON normally handles sensitive information that regards customer product and higher tier assemblies. Such information is secured by multiple levels of physical access control and an IT system that is compliant to the NIST standards.

CUSTOMER SUPPORT

ELFON guarantees **full support throughout product life cycle**. Manufacturing and quality records are kept for the duration of product life or mission. These records are made available to the customer upon request.

