CABLE PRODUCTS FOR THE AEROSPACE AND DEFENSE INDUSTRY
MOLEX COPPER CABLE ASSEMBLIES, HARNESSES AND VALUE-ADDED INTEGRATION EFFECTIVELY LINK COMMUNICATIONS FROM LAND, SEA AND AIR

At Molex, we manufacture some of the most innovative and reliable integrated products in the world.

Our broad portfolio, combined with our comprehensive expertise, provides unlimited possibilities for applications in the military and aerospace electronics industry. We also understand you may face challenges that require additional innovation. That’s why Molex is an industry leader in design and manufacturing. Whether you are around the world or around the corner, we can assist you in reaching all of your design goals – with exceptional quality and efficiency. Our design and production facilities are headquartered in Maumelle, AR where we are ITAR registered. Our production workforce is trained to the IPC/WHMA-A-620 standard.

We provide performance-driven solutions through:

- A focus on quality and reliability
- Knowledge, experience and understanding of military and aerospace industry needs and issues:
  - Both COTS and custom cabling products available
  - Use of rugged, compliant and/or high temperature materials used to meet product specific mil-spec requirements
  - Support long development cycles
  - New product introduction/quick-turnaround capabilities. Express Line (production cell) able to turn two-week orders
- Comprehensive design, engineering and manufacturing expertise
  - Integrated solutions
  - Extensive overmolding capabilities
Certifications and Testing Capabilities

- **Certifications**
  - ITAR registered manufacturing plants in the US; Mexico manufacturing available pursuant to manufacturing license agreement (MLA), and/or technical assistance agreement (TAA) arrangements
  - Lean Six Sigma, ISO certified manufacturing
  - Quality and workmanship standards meeting IPC/WHMA-A-620B
  - ISO-14001
  - ISO-9001

- **Integrated product technology leadership**
  - Advanced manufacturing technology:
    - In box-build options
    - Form board design and layout
  - Custom solutions:
    - Provide advanced prototype solutions; iterative design support from drawings to 3-D modeling to prototype builds for FAI or environmental qualification.

- **Reliability testing provides product evaluations, simulations, materials consultations, failure analysis and approval agency services (UL, TUV, CSA, CE)**

- **Testing for EMI, SI and reliability can be provided at the assembly facility in the US. Other testing, including full-blown environmental qualifications can also be provided in the US. Capabilities include:**
  - Environmental temperature operation, temp cycling and shock, accelerated life
  - Electrical, signal integrity (SI), BER testing
  - RF and RF susceptibility
  - Mechanical, including abrasion, flex cycling, mating durability, etc.
  - Shock and vibration
  - Surface and metallurgical analysis
  - Thermal analysis and imaging
  - Scanning electron microscopy
  - X-ray analysis
  - EMI, shielding effectiveness, radiated emissions

Applications for the Military and Aerospace Electronics Industry

Molex is a world leader in technology-driven industries such as high-speed telecommunications, data/storage, consumer, industrial and automotive. As a result, we are well positioned to leverage our cutting edge technology and breadth of knowledge to provide the best solutions for your military and aerospace electronic challenges. Molex has the technology and design capability to find a solution for your application. We can offer high-quality, informed solutions across most military industry product segments, such as:

- **Network-centric warfare (NCW), C4ISR – command, control, communications, computers, intelligence, surveillance, and reconnaissance**

- **VITA, PCIe®, gigabit ethernet, SAS, SATA, iPass™, video imaging – DP, MicroCross DVI™, HDMI®, VGA**

- **Standard automotive harnesses, Engine sensor and injector harnesses**
• Ruggedized I/O options (commercial interfaces embedded in 38999 connector), USB 2.0 and 3.0, Micro HDMI®, Mini DisplayPort®, eSATA and others. Many assemblies use low smoke zero halogen (LSZH) or FAR approved cable jacketing materials.

**Built Rugged and Reliable**

In the military industry, reliability of the electronics used is critical to the safety of our soldiers and sailors, and the success of the mission. As a global leader in integrated product solutions, Molex has a proven track record of providing rugged and reliable solutions for demanding applications.

Our goal is to provide a unique value added service to our customers through the design, manufacturing and testing of COTS and custom military cable assemblies.
Integrated Wiring Harnesses

Products
• HandyLink®

• HSAutoLink™ I and II

• Industrial USB

Signal Integrity Radar Systems and Information Networks

Products
• VHDM®-to-VHDM®
• VHDM®-to-VHDM-HSD™

• Impact™
• Impel™

• SFP+
• QSFP+
• iPass™

High-resolution Video Imaging with Militarized Options

Products
• Micro-Cross™ DVI
• DVI

• DisplayPort® and Mini DisplayPort
• eSATA
• HDMI

• Ruggedized I/O
  – USB 2.0 and 3.0
  – Micro-HDMI™

Communications and Data Systems

Products
• Ruggedized Backplane Assemblies

• I/O Assemblies
  with Low Smoke Jackets

• Embedded I/O
  – Micro-HDMI™

*DisplayPort is a trademark of Video Electronics Standards Association (VESA)
†HDMI is a trademark of HDMI Licensing LLC.
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