



Buyers guide for custom connectivity solutions



Defense

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MRO Electronic Supply Ltd.



MRO is a Canadian Small-Size Business (SMB/SME), who manufactures high quality custom connectivity solutions for clients throughout North America and around the world.



Manufacturing you can rely on when everyone else relies on you.

The defense market has some of the toughest compliance regulations in the world. If military products don't perform as expected, people's lives can be at risk. We are an experienced military wire harness manufacturer that understands the importance of regulations and standards, quality management, compliance, security, and confidentiality.

MRO is registered under the Canadian Controlled Goods Program (CGP), has NCAGE code L1160, and certified under US/Canada Joint Certification Program. Being a Canadian Small Size Business (SMB), we are able to provide a high level of Canadian Content Valuation (CCV) that can help defense primes in their ITB/IRB offsetting obligations. Our ISO9001:2015 facility is equipped with several dedicated and secured cells for defense manufacturing, and we are continuing to expand our capabilities in this area.

We currently work with several prime defense contractors as well as the Canadian DND, and have provided solutions for land, sea and air platforms.

Air, Land and Sea

Low, Medium, and High Complexity

Overmolded Cable Assemblies

Wiring Harnesses

Racks and Enclosures

Control Panels and Systems



MRO have **consistently met our strict specifications, challenging requirements and aggressive lead times.** Our Military Spec Cable Assemblies require superior manufacturing techniques, not common in conventional Cable manufacturing. MRO have the required experience and capabilities for our Military Specifications and complex designs."

GENERAL DYNAMICS
Mission Systems—Canada



Canada
CONTROLLED GOODS PROGRAM (CGP)



Capabilities

Low, medium, and high complexity cable assemblies and wire harnesses

Can work with low volume to high volume requirements

High-pressure overmolding with polyurethane

Low pressure overmolding with macromelt

Highly skilled IPC/WHMA-A-620 certified operators trained in smaller size wires such as 32AWG to larger size wires as large as 2 AWG.

Tool Designer and CNC machine cutting for overmold tools and panels available in-house

RF cable assemblies requiring sensitive applications (low loss, minimal delay)

Customized Antenna

Complete Panel and Rack solutions

Combination of state-of-the-art automated equipment and skilled workers resulting to highly reliable workmanship

Acquiring AS9100 certification in Q3 2021

Capacity

Can produce 40,000 units of custom cables and wire harnesses quarterly

28,000 sq ft Main Manufacturing, Warehouse, and HQ facility in Calgary

7500 sq ft of high security Controlled Goods Area

Branches in Edmonton and Vancouver

Testing

Short/Open Connection

Low Voltage Continuity Testing

Hi-Pot Testing up to 1500Vdc and 1000Vac

Dielectric Testing, Insulation Resistance, Inductance

RF Return and Insertion Losses up to 6GHz

Optical Length and Propagation Delay Testing

Testing of components such as LED, switches, etc

Tensile Strength (Pull Testing) for Crimped Ends

Bend/Flex Test for strain relief performance verification

Ethernet Cable Speed Testing up to 1000 mbps





Regulatory Compliance



IPC/WHMA-A-620

MRO operates with IPC/WHMA-A-620D Certified Trainers and Application Specialists, with continuing training for all certified employees to ensure compliance with the latest revisions to the standard. We are an IPC Class 2 and Class 3 EMS Provider.



Controlled Goods Program

MRO is registered with the CGP and is therefore eligible to receive technical data on various defense articles as permitted under the ITAR Canadian Exemption. MRO's CGP registration number is CG19448 and a copy of our registration certificate, valid until April 10, 2024 can be downloaded from our website.



NCAGE

MRO is registered under the NATO Commercial and Government Entity program. MRO's registration number is L1160.



ISO 9001:2015

MRO is an ISO 9001:2015 certified company from SAI Global Assurance for the scope of Manufacturing of low, medium and high complexity custom cable assemblies and wire harnesses, including radio frequency (RF) coax assemblies, power, data and control cables and rugged over-molded cable assemblies for various industry sectors such as Oil & Gas,

Mining, Agriculture, DockSide/Marine, Automotive, Telecommunications and Defense. A copy of our ISO Certificate of Registration can be downloaded from our website.



U.S./Canadian Joint Certification Program

MRO is also certified pursuant to the U.S./Canadian Joint Certification Program ("JCP"). Under the JCP, MRO is certified to receive technical data governed, in the U.S., by U.S. Department of Defense Directive 5230.25 and, in Canada, by the Technical Data Control Regulations (subject to compliance with U.S. and Canadian export and import control laws). MRO's JCP Registration number is 0081550 and its certification is valid until August 6th, 2024.

MRO views compliance with ITAR, U.S. Department of Defense, and Canadian Department of National Defence requirements as a priority. Its export controls compliance program includes:

- Secured network systems that restrict access to ITAR controlled technical data
- Encryption of all ITAR controlled technical data
- Physical security and access controls at all company facilities
- Management commitment to ITAR compliance

About MRO

MRO is a manufacturer of high quality custom connectivity solutions for clients throughout North America and around the world. We manufacture overmolded cable assemblies, wiring harnesses, rack builds, electronic enclosures, control panels, control systems and more.

Our clients come from a range of industries including Defense, Oil & Gas, Mining, and Forestry. We specialize in manufacturing rugged solutions for harsh environments and mission critical applications. With over 25 years of experience, we are a manufacturer you can rely on.

Our IPC Certified Trainers ensure that we always have the knowledge and expertise we need to bring up the next generation of application specialists. We provide IPC training to our manufacturing employees regularly and this helps us maintain a high quality rating with our clients.

MRO operates with a regularly audited ISO 9001:2015 Quality Management System (QMS). To date, MRO has maintained a Quality Rating of 99.7% for all shipped units. Regular training on ISO procedures is a part of our daily routine, and ensures that each unit is properly handled and tested before shipping.



Key Contacts



**Manufacturing
you can rely on**
when everyone else
relies on you.

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[CONTACT US ONLINE](#)

