

UAV

Delve into our UAV Global Offer





The UAV industry is rapidly expanding, driven by innovative technologies and diverse applications ranging from aerial photography and advanced surveillance to delivery services. As UAVs become increasingly pivotal, they pose unique challenges such as **ensuring robust connectivity, durability in varied environments**, and lightweight yet efficient components for optimal flight performance.

To meet these demands, reliable interconnect components are crucial, with **high-power cables and connectors that can withstand harsh conditions** throughout a long service life. At the heart of mission-critical defense and security applications, UAVs rely on rugged, robust, and lightweight internal equipment, including connections that support electronic structures. With restricted size and weight constraints, it's essential to **specify trusted, quality parts that can transmit data effectively amidst high vibration, shock, and other environmental trials**.

At Nicomtic, we provide **reliable solutions for power and signal connections**, allowing the UAV industry to overcome these challenges and reach new heights, whether it's **maximizing flight time, ensuring stable connections, or withstanding varied weather conditions**.

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APPLICATIONS

The drone industry has grown swiftly, with applications in aerial photography, surveillance, and delivery services. However, it confronts challenges such as robust connectivity, durability, and efficient components for optimal flight performance. Nicomatic addresses these concerns with reliable power and signal connections, enabling UAVs to operate in harsh conditions and maximizing flight time, while ensuring stable connections and withstanding varied weather conditions.



Power & Engines



Flight Controls & Autopilot



Battery Packs



Landing & Docking



Fuel Cell Sensors



Communication



Optics & Cameras



Mine Detection



Image Processing



Arms & Attachments



Radar, Targeting & Firing

Our offerings span from individual components and subsystems to fully integrated, complete systems.

OUR SOLUTIONS

BOARD-LEVEL CONNECTORS



2MM Connector - CMM

- Ultra quick delivery
- Space & weight saving
- Extreme modularity & unlimited customization

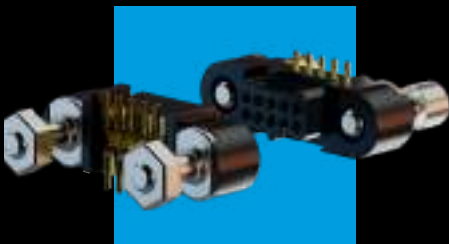
[Learn More](#)



1.27MM Connector - EMM

- Compact & powerful
- Robust
- Easy to customize

[Learn More](#)



1MM Connector - AMM

- Small and compact
- Simple to configure
- Perfect for quick prototyping

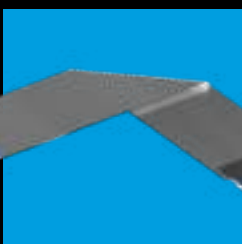
[Learn More](#)



MicroFlex

- Gain more flexibility
- Ready & easy to connect
- Perfect for SWaP-C challenges
- Weight saving

[Learn More](#)



FLAT FLEXIBLE CABLE

- Enable miniturization
- Space & Weight saving
- Simplified routing & organization
- Improved densification without cross talk

[Learn More](#)

OUR SOLUTIONS

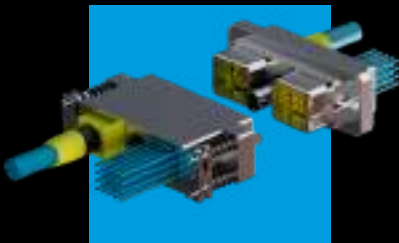
PANEL, I/O & BACKPLANE CONNECTORS



METALLIC CONNECTOR - DMM

- Effective EMI shielding
- Space & weight saving
- Easy to customize

[Learn More](#)



I/O CONNECTOR EN 4165

- Extreme modularity & unlimited customization
- The most practical sealed connector
- Compact & stackable
- Cost-saving on future equipment upgrades

[Learn More](#)



CIRCULAR CONNECTOR 38999

- Easier cable management
- Faster, more secure mating
- Easy to handle and maintain

[Learn More](#)



BACKPLANE CONNECTOR - VITA

- Expanded beam
- Standard cavity
- Miniaturized version
- Design for VITA architecture

[Learn More](#)

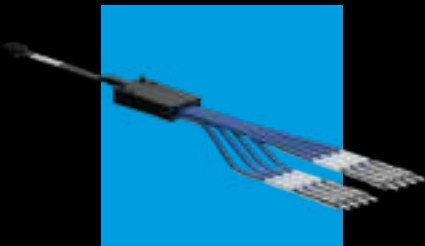
OUR SOLUTIONS

PASSIVE & ACTIVE OPTICAL SOLUTIONS



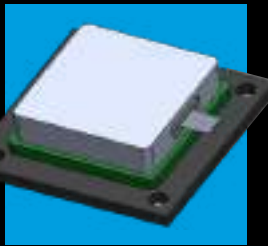
OPTICAL FIBER HARNESS

- In
- Wide variety of termini
- Rugged Fiber



CABLING HARNESS FAN-OUT

- Flex Shuffle
- Custom fan-out
- Reactivity



TRANCEIVER

- Electric and optical pluggable solution
- High speed data rate
- Endurable in harsh environments
- Small form factor

COPPER CABLE HARNESS

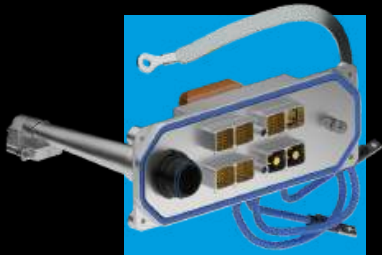


COPPER HARNESSES

- In
- Out
- Interface

OUR SOLUTIONS

SUB ASSEMBLY



Sub-assembly

- Faded plates
- Multiple technologies
- High speed
- Specific harness

EQUIPMENT - UAV



SKEYEFLIGHT

- Autonomous navigation
- Multi-sensor ready
- Real-time processing
- Mission compatible

[Learn More](#)



GIMBLES

- Battlefield proven
- Customizable sensors
- Embedded intelligence
- Weight-performance ratio

OUR CUSTOM SOLUTIONS

Nicomatic's expertise in customization extends across a wide spectrum of components and equipment.

Whether you require specialized connectors optimized for high-speed data transmission, rugged cables capable of withstanding harsh environmental conditions, intricately designed harnesses tailored to fit tight spaces, or fully integrated equipment customized to your unique specifications, Nicomatic has the technical capabilities and engineering prowess to deliver.



Precision Engineering for Optimal Performance

At the heart of Nicomatic's custom solutions lies a commitment to precision engineering. Each component and system is meticulously designed and manufactured to exacting standards, ensuring optimal performance and reliability in even the most demanding environments. From material selection to manufacturing processes, Nicomatic employs the latest technologies and industry best practices to deliver solutions that exceed expectations.

[Learn More](#)

1.

Through **comprehensive consultations** and **technical evaluations**, we gather vital information to tailor solutions according to **your project's needs**.

2.

We **collaborate** closely with you to **co-create specifications** ensuring the perfect alignment with your requirements.

3.

We provide a solution quote within **72 hours**.

4.

We establish clear **schedules**, assign **experts**, and provide **guidance through development**.

5.

We offer **constant support**, monitoring progress and facilitating **collaborative development** for a successful outcome.

OUR SERVICES



State-of-Art Tests

- Reliable Product Qualification Services
- Attentive Project Management
- Customized Qualifications Plan
- Detailed Analysis
- Supportive Technical Assistance

- ✓ Signal integrity
- ⚙️ Mechanical effect
- ⚡ Electrical
- 🌍 Environmental
- 🧪 Chemical

[Learn More](#)

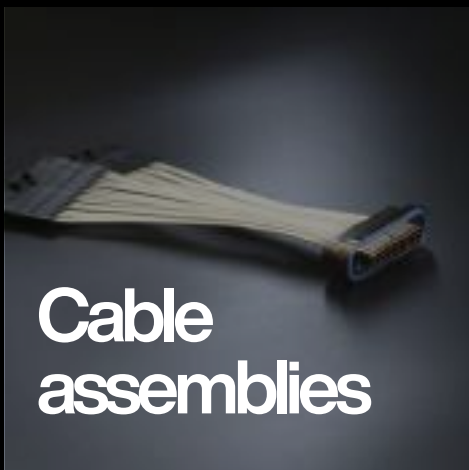


Advanced Digital Simulation

Using a 3D model of your product, we integrate this design into cutting-edge simulation software that allows for testing of several critical aspects

- 🔧 Conception
- ✓ Signal integrity
- 📡 Protocol analysis
- 🌡️ Thermal effect
- ⚙️ Mechanical effect
- 🔄 Optimisation

[Learn More](#)



We can cable for you any types of connectors .With our high-quality products and dedicated team, we ensure that the cabling of your connectors will deliver superior performance.

Simplify your supply chain

Single part number & single supplier
No tools and wire stocks management

Enjoy unlimited design possibilities

Backpotting
Specific colored pinouts - Omit cavities

Benefit from our expertise

Let us solve your design challenges

Plug & Play

Enjoy ready-to-use solutions! Invest your time in new projects

[Learn More](#)

CERTIFICATION - AS 9100

Nicomatic entities are certified to the **specific requirements** of their local markets, and our commitment to **continuous quality improvement** ensures long-term development and growth for all our partners.

We regularly benchmark our local management systems by sharing our global knowledge, processes, strengths, and weaknesses, leveraging the expertise of our individual entities to offer a customized customer experience worldwide.



THEY ARE TRUSTING US



الشركة السعودية للصناعات العسكرية
Saudi Arabian Military Industries



NCMS

الشركة الوطنية للأظمة الميكانيكية
National Company for Mechanical Systems



SUCCESS STORIES

FCU and BMS Application

The 2MM Connector - CMM is a high-reliability interconnect solution designed for drones. It provides a **sealed and rugged connection**, making it ideal for demanding environments. By using this connector, manufacturers can improve system efficiency and reduce maintenance needs.

- Vibration resistance
- Advanced signal integrity
- Easy integration



Camera and Gimbal Application

The 2MM Connector - CMM is an interconnect solution designed for drone camera and gimbal applications. Its benefits includes **increased signal capacity and compact design**. This allows drone manufacturers to develop tailored solutions quickly. Its modularity enables **easy integration with different systems**.

- High-density packaging
- Lightweight design
- Seamless integration



Servo Motor Application

The Cable Assembly is a **customized electrical harness** designed for drone wing applications. The assembly is designed to overcome complex challenges, offering expert design and engineering support. By leveraging our expertise, drone manufacturers can improve wing performance and reliability.

- Lightweight design
- Expert support
- Flexible options



GLOBAL PRESENCE



N Since 1976

Europe

- France
- Germany
- Italy
- Norway
- Poland
- Sweden
- Switzerland
- United Kingdom

Asia Pacific

- Australia
- China
- India
- Singapore
- South Korea
- Taiwan

Middle East & Africa

- Saudi Arabia
- Türkiye
- United Arab Emirates
- Morocco
- Senegal

North America

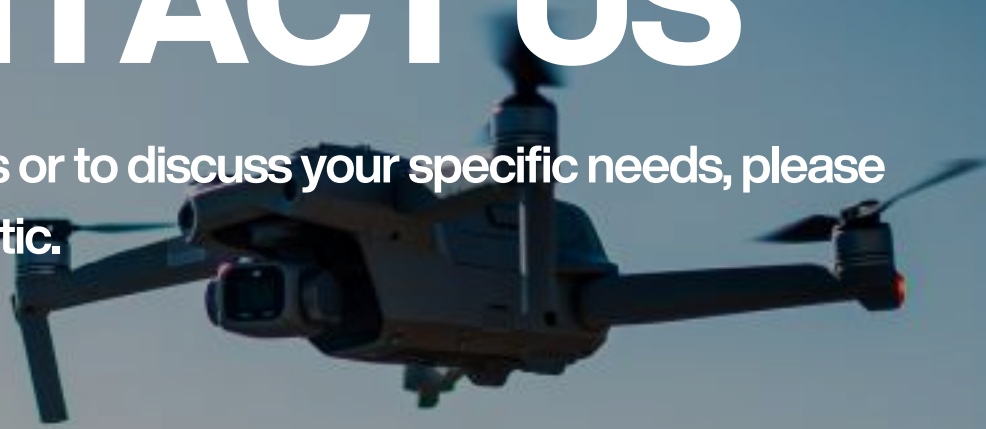
- Canada
- United States of America



[Learn More](#)

CONTACT US

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About Nicomatic

Nicomatic is an ISO 9001-2015 and AS9100 certified designer, manufacturer and leader of Harsh Flex assemblies and micro-connectors. We specialize in standard and custom interconnect solutions for the harsh mil/aero and medical environments.