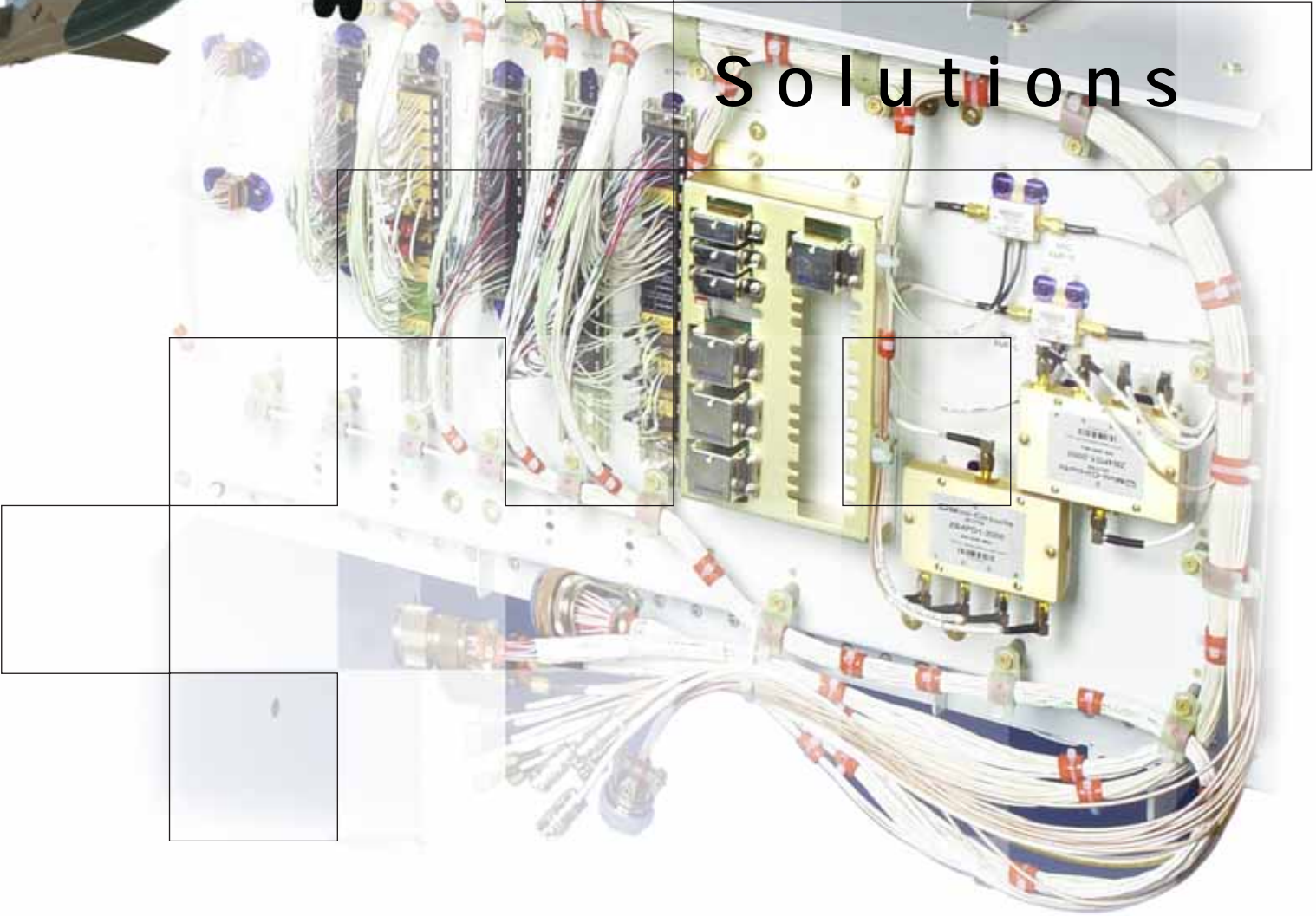




Solutions



Manufacturing
Quality

Organized to meet the challenges of a global market,

ECS is a leading manufacturer and global supplier of proven electrical and structural products and services

for the aviation industry. We are a team of dedicated professionals whose mission is to provide complete

customer satisfaction by delivering integrated

solutions and high-quality products and services for air

transport, general aviation, and military avionics

installation initiatives.

Since our founding in 1984, our customers have come to rely on ECS as a single-source provider of specialized, high-reliability electronic cables and connectors, cable and wire harness assemblies, fully integrated avionics installation kits, ARINC support structures, racks and shelf systems, antenna doublers and adapters.

Our corporate headquarters and state-of-the-art manufacturing facility in Franklin, WI, offers comprehensive design, manufacturing, and assembly under one roof. Setup to support the stringent demands of the aviation industry, we have the latest in CNC equipment.

The ECS organizational structure lets us provide efficient and economical solutions for both retrofit and forward fit avionics and instrument installations. Our retrofit programs offer cost-effective solutions that help our global customers meet the changing requirements of aviation standards. Our forward fit programs combine advanced technologies and custom design to give our customers the competitive edge they need for today's global market. At ECS, we also offer worldwide AOG support, 24 hours a day, seven days a week.

Our vision is based on an established core competencies infrastructure that combines technical sales, design & engineering, project management, manufacturing, and quality control to deliver a unified, seamless solution. Made up of highly skilled and motivated individuals, these groups work together as a team to ensure a quality product and a quality ECS experience for you.



TECHNICAL SALES

Design Engineering

PROJECT MANAGEMENT

Electrical Solutions



Combining unsurpassed industry expertise and the latest technology to deliver RF Cabling, Custom Specialty Cables, and Wire Harnessing that offer high-performance and proven reliability.



At ECS, we measure excellence by how quickly and completely we can provide solutions for our customers' needs while continuing to meet industry standards. Our standard and specialized wire products include innovative design features that maximize system integrity and minimize aircraft downtime.

Today's highly competitive aircraft manufacturers and operators market requires cost effective, lightweight and high-performance solutions. ECS RF products are lighter and more flexible than conventional cables. They provide minimal insertion loss, superior protection against EMI/RFI interference, and steadfast resistance to harsh environmental variations.

The ECS application engineering group supplies the aviation industry with a variety of specialized cable designs and assemblies that offer advanced engineering solutions for: Databus, Triaxial, Quadaxial, Aircraft-Video, Ethernet, Multiconductor, Composite, and Custom Specialty Cables.

Our solutions for wire harness assemblies are based on fabrication processes that meet airframe manufacturers' standard practices. We use a computer programmable Laser Wire Marking System that accepts direct input from CAD systems, prints on convoluted surfaces, eliminates risk of damage to insulation, and complies with industry requirements for legibility and durability.

At ECS, we make sure our comprehensive electrical solutions are completed efficiently and on-time. In addition, every ECS RF cable, specialty cable design, and wire harness is fully tested to guarantee electrical and physical integrity, compliance with system requirements, and adherence to all critical industry standards.

- RF Cables
- Connectors & Assemblies
- Multiconductor/Composite
- Custom Specialty Cables
- Fiber Optic Cable Assemblies
- Databus Cables
- Triaxial & Quadaxial
- Aircraft-Video Cables
- Ethernet Cables
- Wire Harness Assemblies
- Injection Mold Assemblies
- Build-To-Print Harnessing



Structural Solutions



A worldwide industry leader in the manufacturing of standard and custom ARINC trays and support structures.



We are strongly committed to the highest standards in quality management. Through the interaction of the ECS team of Design Engineers, Customer Support, and Manufacturing personnel, we are organized to meet and exceed industry standards.

Our ARINC support structures are designed and fabricated in-house, in our state-of-the-art manufacturing facility. This allows us to have tight control over all stages of design and fabrication, while meeting even the most aggressive lead-times in the industry. We use superior design and manufacturing techniques, and each ECS tray, shelf, and rack assembly is made using top quality aircraft grade materials that conform to all aviation industry standards.

ECS ARINC support structures are built to conform to the operational shock, crash safety, and vibration requirements specified in current RTCA documents. ECS also offers designs with special shock/vibration solutions that can withstand even more rigorous environments when required.

Our custom cooling systems conform to all ARINC criteria and excel at reducing heat build-up. In addition, ECS air filtration designs minimize moisture and dirt ingress, significantly increasing MTBF for the avionics systems they support.

Our rugged structural solutions are thoroughly tested to guarantee required performance. At ECS, we ensure that your avionics systems equipment will always fit securely and operate safely.

ARINC 404 Support Trays

ARINC 600 Support Trays

ARINC 628/Part 7

Cooling & Filtration

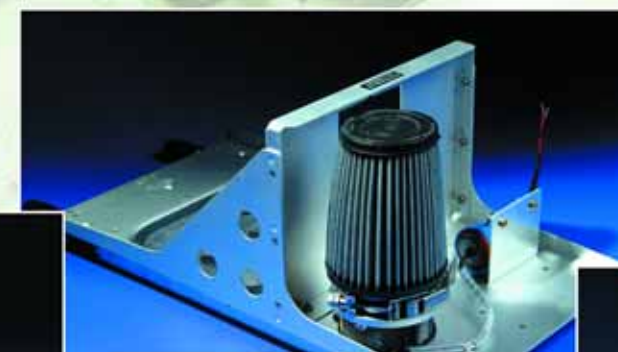
Shock/Vibration Support

Adapter Plates

Instrument Panels

Control Panels

Sidewall Shrouds



Integrated Solutions



We have the knowledge, facilities, and technology necessary to deliver comprehensive solutions for your most complicated installation programs.



At ECS, we have earned a reputation as an innovator by combining cutting-edge technology with creative design to integrate avionics systems with aircraft. Our unique core competencies infrastructure allows us to bring together top-end RF cables, wire harnesses, support structures, and cooling and filtration applications into seamless aircraft system installation solutions.

Our state-of-the-art structural fabrication facility offers economical solutions for the manufacturing of: LRU mounting trays, integrated racking systems, adapter plates, instrument panels, control panels, chassis construction, and more. ECS maintains an extensive inventory of parts and materials so that we can promptly manufacture and deliver your product.

Our custom shelf and racking systems feature original design solutions that are weight optimized while standing up to even the most rigorous environmental hazards for both in-flight and on-the-ground operations. All ECS support structures and integrated shelf and racking systems are assembled using only the finest quality aircraft grade materials to meet or exceed industry requirements.

As part of our ongoing commitment to serve the aviation industry, ECS functions as a single source for integrated installation kits and system interface packages. We streamline each customer's installation process to take the worry out of avionics system provisioning, minimizing installation labor and aircraft downtime.

Our dedicated professional staff takes the time to research complex system specifications, source optimum components, and develop integrated solutions for each installation program. The end result is a customized, cost-effective product, which can support even the most demanding program requirements.

Complex Shelf Assemblies

Integrated Racks

Installation Kits

Loose Parts Kits

Display Mounting Arms



We are capable of providing engineering and design services in accordance with ARINC specifications. At ECS, we maintain our expertise and ongoing industry certifications while offering services including product design, avionics system installation design, electrical engineering, mechanical engineering, system engineering, cooling and filtration, and engineering certification documentation. As part of the services we offer our customers, ECS applies for and holds numerous STCs for FAA certification, as well as coordinates with EASA and other regulatory bodies around the world.

As a company committed to providing you with flexible solutions quickly and efficiently, we can develop an approved Design Data Package — or customize an existing one — backed by support from on-staff FAA DERs, who provide critical support in facilitating STC installation approval and PMA coordination. Our quality department also includes on-staff FAA DMIR and DAR personnel, ensuring timely product conformity inspections and approved design data.

ECS build-to-print programs allow our customers full control over the design process. Our fabrication facility can manufacture avionics support products directly from customer-supplied drawings, and product modifications can be made directly by the customer. Build-to-print also provides a proven formalized program for tracking customer documents, revisions and updates. Approved drawings are entered into the ECS Customer Document Log (CDL), which ensures customer authorized change control.

In ECS you will find a partner that understands your business needs and works closely with you to lower the total cost of ownership. With our core competencies organization and flexible production services, you can be confident in receiving superior, reliable products; expert, available service; and a dedication to providing the best solution for your needs.

- Engineering Disciplines:
 - Avionics Systems Integration
 - RF/Electrical
 - Structural/Mechanical
 - Cooling & Filtration
 - Certification
- FAA Certified Staff:
Resident DER, DAR,
and DMIR personnel



From custom design programs to build-to-print, our flexible design, engineering, and manufacturing processes mean you can choose the solution that best fits your project needs.



Strongly committed to the highest standards in quality management, we believe that our earning dual certification under both the ISO9001 + AS9100 standards symbolizes our readiness to meet and exceed industry standards in order to maintain product and service excellence. Our commitment to maintaining quality excellence has been acknowledged through the high ratings we continue to receive in customer supplier performance awards.

ECS is dedicated to complete customer satisfaction, delivering innovative solutions with quality products and services...**Efficiently, On-Time, and Right the First Time.**



Electronic Cable Specialists, Inc.

5300 West Franklin Drive

Franklin, Wisconsin 53132

Tel: 414.421.5300

800.327.9473

Fax: 414.421.5301

email: sales@ecsdirect.com

website: www.ecsdirect.com