



Harsh Environment Connectors for Military UAVs



cinch

CONNECTIVITY SOLUTIONS

a bel group

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High Performance, Lightweight, Harsh Environment Connectors for Military UAVs

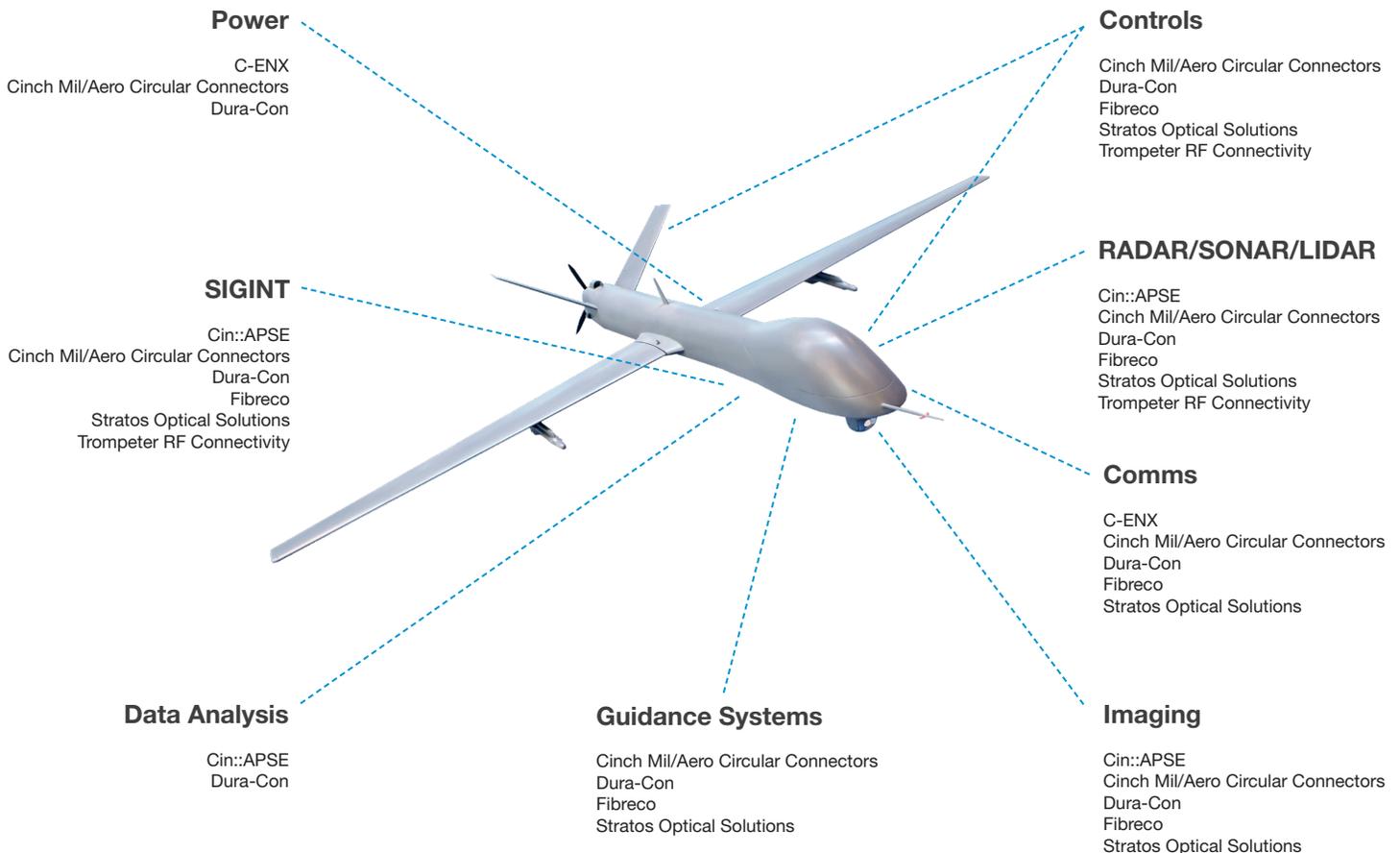
It takes a lot of connections to get a drone up in the air, to get the information you need and get it back to the ground.

Be it video, photographs, navigation, geographic measurements, environmental readings, or defense measures, a drone has a variety of electronic components that need highly reliable, lightweight, and high-performance connectivity throughout a myriad of harsh environmental conditions.

At Cinch Connectivity Solutions, we design, manufacture and supply connectors that meet the small size, light weight, and onboard power (SWaP) needs of the new breed military UAVs.

		CIN::APSE®		Dura-Con™	FIBRECO®		
Comms	●		●	●	●	●	
Controls			●	●	●	●	●
Data Analysis		●		●			
Power	●		●	●			
Guidance Systems			●	●	●	●	
Imaging		●	●	●	●	●	●
RADAR/SONAR/LIDAR		●	●	●	●	●	●
SIGINT		●		●	●		●

Unmanned Aerial Vehicle (UAV)

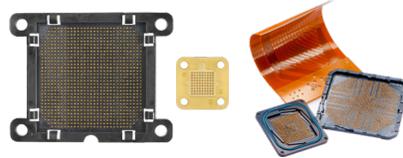




Modular Series

Cinch's C-ENX connectors allow optimized stacking of connectors, reducing weight and space compared to standard circular connectors. Their modularity reduces rework and complexity as the same panel cutout and shell cavities are used on all variations. Configurations are available for signal, power, data, RF, fiber. Cinch's C-ENX™ line of connectors, designed to EN4644, are the next generation of aerospace connectors.

CIN::APSE®



Compression

Cinch's CIN::APSE high density, custom interconnects are used for board to board, IC to board, flex to board and component to board applications. CIN::APSE interconnects have proven reliability under the most extreme mechanical shock and vibration, ideal for UV applications. CIN::APSE connectors are built to maximize SWaP. Their solderless installation reduces weight and also allows for a reversible mating process within multiple cycles. They are also extremely stable, both thermally and electronically, ideal for use in demanding applications.

CINCH MIL/AERO Circulars



MD Series

Nano Circular Series

Cinch Mil/Aero Circulars connectors are available with hermetic sealing in any circular configuration. These glass-sealed packages are used mostly in critical components and assemblies for aerospace use, where leakage must be prevented even under extreme changes in temperature, pressure, and humidity.

Dura-Con™



Metal Shell PCB Mounted

Hermetic Micro-Ds

Micro-D (MIL-DTL 83513)

Cinch DURA-CON D-shaped micro miniature rectangular connectors are designed for applications that require a rugged, high performance, densely compacted interconnect where weight and space must be kept to a minimum while maintaining maximum reliability.

FIBRECO



MIL-DTL-38999 Series

Dura-Con™ Expanded Beam

Fibreco fiber optic connectors and cable assemblies are ideal for military, security, outside broadcast, offshore, mining and other industrial harsh environment applications. The Fibreco expanded beam connectors and cable assemblies offers high performance, flexibility and cost effectiveness, combined with a simple termination process, allowing for rapid in-field termination and repair.

STRATOS optical technologies



Hybrid Transceivers

Low Rider

The Cinch Stratos line of optical connectivity products is globally recognized as highly reliable and cost-effective. Stratos provides optical connectivity solutions that are virtually immune to dust, mud, oil, water, an and contaminants.

TROMPETER RF connectivity

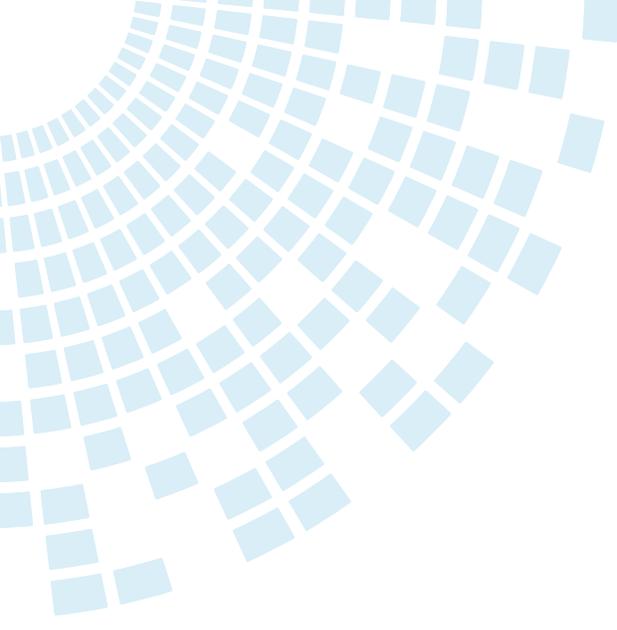


Twinax Connector Series

Triax Connector Series

The Trompeter connectivity solutions provide products that continually deliver the highest quality signal integrity for the most demanding applications in Telecom, Central Office, Broadcast, Military Aerospace, and Instrumentation markets worldwide. Trompeter supports applications including MIL-STD-1553B, DS3, and broadcast video systems through our offering of connectors, adapters, terminators, and cable assemblies.





About Cinch Connectivity Solutions

For over 100 years, Cinch Connectivity Solutions has manufactured high quality and reliable high-performance connectors and cable assemblies. Cinch is recognized as a world class connectivity supplier of RF, fiber optic, hybrid, microwave components, circular, d-subminiatures, modular rectangular, electronic enclosures and cable assemblies.

Cinch provides innovative solutions to the military, commercial aerospace, networking, telecommunication, test and measurement, oil and gas and other harsh environment industries. We aim to exceed our customers' expectations and continually offer innovative solutions to the rapidly changing needs of the markets and customers we serve.



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