

# ALYSIUM

EVOLUTIONARY INTERCONNECTS

what  
you  
expect  
**+more**



● Alysium ○ Factory



## The perfect connectivity solution? It just works!

We aim to offer wires, connectors and cable assemblies that you can plug in and forget about. Our global success path is grounded on three pillars:

- Continuous engineering innovation.
- Rigorous production quality.
- Trusted customer service.

These pillars make us the leader in addressing both individual customer needs as well as efficiently exceeding market requirements.

### +more

A+ versions of Ethernet, USB3.1 Gen 1 and CameraLink™ assemblies with patented unique features.

Automotive FFCs with cost effective, patented tin zinc-nano coat plating for effective whisker control.

Customized connector designs, such as our unique (patent pending) T-Latch design vertical LIF FFC / FPC connector.

Machine Vision assemblies, configurable online (with specifications); available from 20pcs/lot.

## Product Quality

We supply products to the most demanding of industries: Robotics requires mechanical durability, Automotive requires temperature and vibration resistance and Medical requires longevity of chemical resistance.

Raw materials are carefully selected from our audited and stable supply chain.

Stable processes are employed in development, manufacturing and logistics, appraised using methods such as PFMEA. Continuous improvement is core to our culture.

Alysium has production facility certifications to ISO9001:2008, ISO/TS 16949 and ISO14001:2004.

We supply material release documentation like PPAP, PSW and ISIR where suitable.

what  
you  
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**+more**

## Alysium Products

Alysium has a broad range of interconnect products to support numerous applications.

If you need raw cable or a connector, alternatively the full assembly - Alysium provides all the options and benefits, from a single supplier.



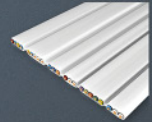
ABS Sensor Cables



Coax Cables



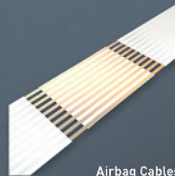
Digital Cables



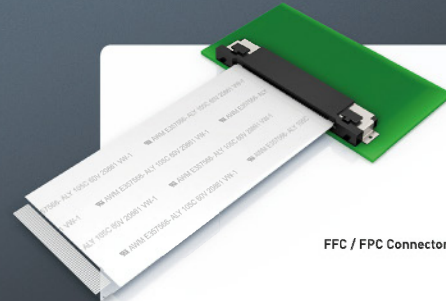
Ribbon Cables



FFC - Flexible Flat Cables



Airbag Cables



FFC / FPC Connectors



Board to Board Connectors

## Alysium Cables

**Flexible Flat Cables (FFC)** are synonymous for high density, low cost, flexible interconnects – all tailored to your needs.

**Complete quality-driven production process** (ISO/TS16949).

**Enhanced material tolerances.**

**Various solutions** for reduced whisker formation with anti-migration, elution-free materials and cost sensitive solutions.

**Enhanced EMC shielding**, incl. impedance matched FFCs.

**Variants for high temperatures** beyond 125°C / 260°F.

components  
wire & cable



Memory Card Connectors



Interface Datacom Connectors



Circular Connectors

## Alysium Components

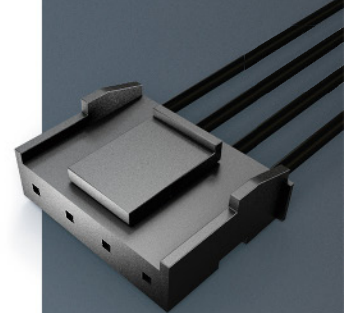
Compact, robust, high performance - we offer innovative solutions for the transmission of power, control signals or data.

**High density with Circular Connectors:** M8, M12 fixations.

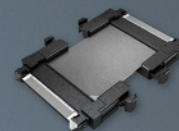
**Fully compatible** with other defacto industrial standards (e.g. FFC/FPC Connectors and Circular Connectors).

**Unique handling advantages** like AutoLock FFC/FPC Connectors.

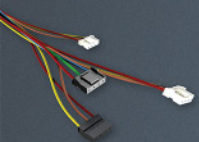
**Efficient customization services** available, even for lower quantities.



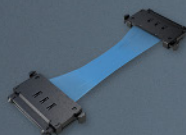
Automotive Assemblies



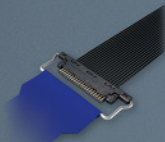
Impedance Matched FFC Assemblies



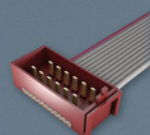
Discrete Wire Assemblies



Microcoax Assemblies



LVDS Assemblies



Ribbon Assemblies

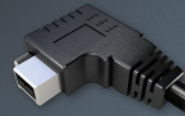
# assemblies



### Turnkey Solutions

Experience the unique benefits of Alysium as a dedicated connectivity expert with design and production resources at your disposal for customized cable, terminations and assemblies. Find out more about our customization services at the "and more..." section of this brochure.

**Please allow us to find the optimal solution for your application!**



1394A / 1394B Assemblies



Coax / IO Assemblies



CameraLink™ Assemblies



CameraLink HST™ Assemblies



USB Assemblies

## Alysium Assemblies

Extreme reliability and enhanced performance are the key benefits to your application.

### USB 3.1 Gen1 and 2:

Gen 1 with up to 5 Gigabit per second over 8 meters (passive) or 20+ meters (active, powered by USB-port).

**CameraLink™** 10+ meters at 80+ MHz.

**Extreme high-flex** variants for multi-million cycles of bending and torsion.

### Industry leading A+ Generation

tailored to Machine Vision applications.

Rich variety of plug types, cable grades, lengths available from single piece quantities.

RJ45  
Ethernet  
Assemblies



## Your Automotive Supplier

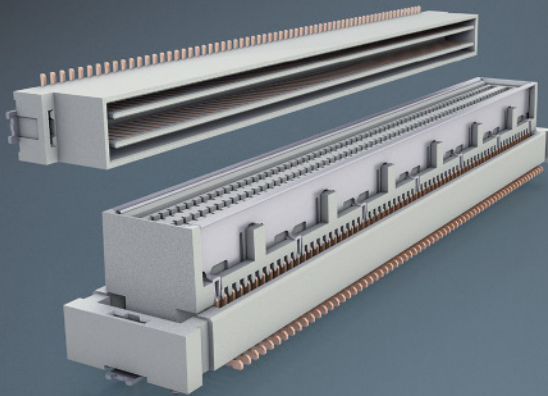
Automotive is considered the supreme discipline of electronic design, manufacturing and logistics.

### Technologically demanding

High temperature and strong vibration.  
Narrow space and low weight.  
Superior EMC performance and longevity.

### Logistically stringent

High volume quantities.  
Variable call-off schedules.  
Short-term delivery periods.



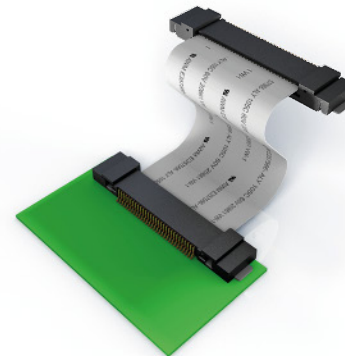
## Alysium Automotive

Technical capability, unique benefits, consistent production and strong partners have allowed us to become the preferred supplier to car manufacturers of distinction, including German luxury class OEMs.

Our specialties are Flexible Flat Cables (FFC) and connectors, for data transmission to and control of displays. They are available as single components or integrated into assemblies, specifically tailored to a given specification, and ready to be mounted as part of a subassembly module.

### Customers select Alysium as their preferred supplier based on the following factors:

- Exceptional project development support.
- Complete quality-driven production process in-house.
- Enhanced material tolerances.
- Unique solutions for reduced whisker formation with anti-migration / elution-free materials.
- Enhanced EMC shielding, incl. impedance matched FFCs.
- Variants for high temperatures beyond 125°C / 260°F.
- Strong marks from qualified automotive supplier audits.
- ISO/TS 16949:2009 facility certification.



automotive  
assemblies  
+more

**A+**  
what  
you expect  
+more

From Ethernet to USB, CameraLink™, 1394B, Coaxial and I/O cabling – Automation and Machine Vision integrators and OEMs can benefit from products that enhance the operation and reliability of their systems.



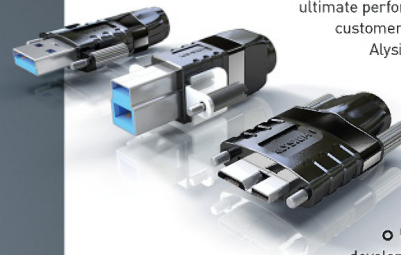
## Plug variants

- Assembled or die-cast.
- Waterproof, dustproof or non-IP-rated.
- Straight or 90° angled in all directions.
- With or without locking; push-pull, horizontal or vertical screws.
- A+ RJ45: 40 RJ45 plug variants, configurable by the user on site.
- Series 60 circular I/O plugs and receptacles, up to 12 pins, compatible with many other connectors.

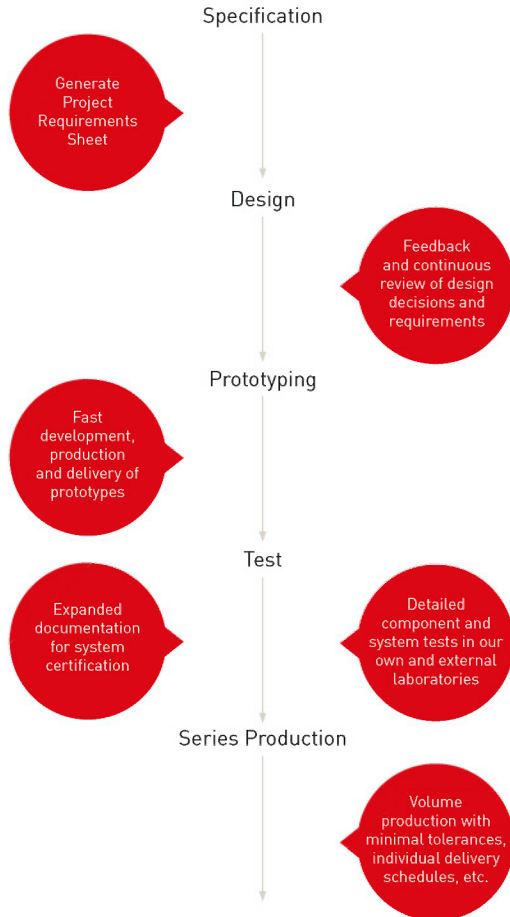
## Cable variants

- Standard, moderate, high-flex or extreme flexibility for robot and dragchain installations.
- Budget or high-performance lines with elegant designs, good shielding and reliable, market leading extended cable possibilities.
- Designs that are water, oil or extreme temperature resistant.
- Option of customized labeling; pre-marked for final assembly, white-labelled, or branded.

In addition to our comprehensive portfolio of highly configurable standard components, from budget to ultimate performance solutions, our global customers from the industrial sector choose Alysium because of the following factors:



- Outstanding performance parameters in cable length and signal quality.
- Personal contact and advice from our technical experts in regional locations.
- Unprecedented flexibility in the development of tailored connectors, cables and assemblies.



## Alysium OEM

Experienced System Engineers know it by heart:

The importance of cabling must not be underestimated and should be considered from the onset of the system design.

Alysium provides you with personal support to identify the technically and commercially optimal solution from our broad portfolio of wires, cables, connectors and ready-to-use assemblies.

If the analysis of your requirements still calls for a tailored solution, we utilize all our expertise in electronics, material sciences and production engineering to fulfill your expectations and more...

A supportive involvement in your system development process has proven to lead to optimal results:

Do you prefer to have your own branded or white-labelled cable assemblies? These options are standard at Alysium. Please just contact us and let us know your preferences.





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