

Aviation and Spaceflight Products

## ESCC, MIL-PRF 39012, and DIN EN 9100 Qualified Components

AEROSPACE



# About Rosenberger



## Company Profile

For over half a century, Rosenberger has been a world-wide leading supplier of impedance-controlled and optical connectivity technology. Rosenberger plays a key-role in many high-tech industries – telecommunications, site solutions for mobile networks, test & measurement, automotive electronics, medical and industrial technology, data centers or aerospace industry.

The Rosenberger group operates manufacturing and assembly locations in over 10 countries as well as a global sales network.

Our core competencies – state-of-the-art manufacturing technologies, extreme production efficiency and continuous development – guarantee not only fast delivery and strict delivery reliability, but also superior product quality.

## Rosenberger at a Glance

- Complete in-house production – all under one roof
- R&D – scientific based high-frequency know-how, in-house RF- and EMC laboratories
- Technology and innovation leadership
- State-of-the art manufacturing technologies – mechanical design – in-house electro-plating shop
- High flexibility – continuous quality controls
- Family-owned company with a flat organization and short decision-making processes

# Aviation Applications



## DIN EN 9100 Certification

Besides the need for higher data rates, aviation applications often demand special requirements, e.g. in terms of weight.

Rosenberger designs and manufactures connectors and cable assemblies for aviation applications in accordance with DIN EN 9100 – renowned customers in the aircraft industries trust in our high-quality products.

We support innovation and development at any stage of the project and at any Technology Readiness Level (TRL). Complete traceability of our aerospace components is available.



# Spaceflight Applications



©ESA–Pierre Carril - Galileo is a joint initiative between the European Space Agency and the European Commission.

## ESCC Certification

The European Space Agency (ESA) developed the ESCC (European Space Components Coordination) qualification process to provide a standard for electrical components which are used onboard spacecraft.

Rosenberger is an ESCC qualified manufacturer and fulfills the high requirements on manufacturing, assembling, quality assurance, and testing which are mandatory for reliable suppliers to the space industry. In addition to our ESCC-qualified standard product portfolio we also develop customer-specific cable assemblies and solutions to meet individual requirements.

Rosenberger has achieved „Space Heritage“ in recent years by participating in various space missions with different requirement profiles:

Mission	Type	Altitude	Lifetime
Globalstar	Communications Satellite	1.400 km	15 years
Galileo	Navigation Satellite	23.222 km	12 years
Iridium	Communications Satellite	780 km	8 years
SMOS	Earth Observation Satellite	770 km	5 years
ExoMars 2016	Exploration Spacecraft	Mars Orbit	6 years

# Aerospace Products

## Spaceflight Products

	<b>SMP</b> for applications up to 40 GHz in accordance with ESCC 3402/024 to 026
	<b>TNC</b> for applications up to 18 GHz in accordance with ESCC 3402/008 to 010
	<b>SMA</b> for applications up to 18 GHz in accordance with ESCC 3402/001 to 003
	<b>SMA 2.92</b> for applications up to 40 GHz in accordance with ESCC 3402/021 to 023
	<b>Cable Assemblies</b> Semi-rigid cables, flexible cables

Available according to ESCC and MIL-PRF 39012 standard.  
Other connector types and customized products available on request.

## Aviation Products

	<b>Standard</b> Any product from our standard product portfolio can be manufactured and qualified for aviation application.
	<b>Customized</b> Rosenberger designs and develops new products to meet customer specific requirements.
	<b>Fiber Optic</b> Besides RF products Rosenberger offers a wide range of Fiber Optic components, which can be used for aviation application.

## Product Portfolio

### The comprehensive product range covers:

- Cable assemblies
- Board-to-board connections
- Board-to-cable connections
- SMD types
- PCB connectors

With the latest analysis and simulation equipment, e.g. our EMC lab, and an expansive expertise in testing and qualification the development of all Rosenberger products is accompanied by our test laboratory – from prototype to series production.

All our aerospace components are manufactured, assembled and tested at our headquarters in Germany. To ensure the highest level of quality the products are assembled in our class 8 clean room.



## Aerospace Website

For further information refer to our website:  
[www.rosenberger.com/aerospace](http://www.rosenberger.com/aerospace)

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