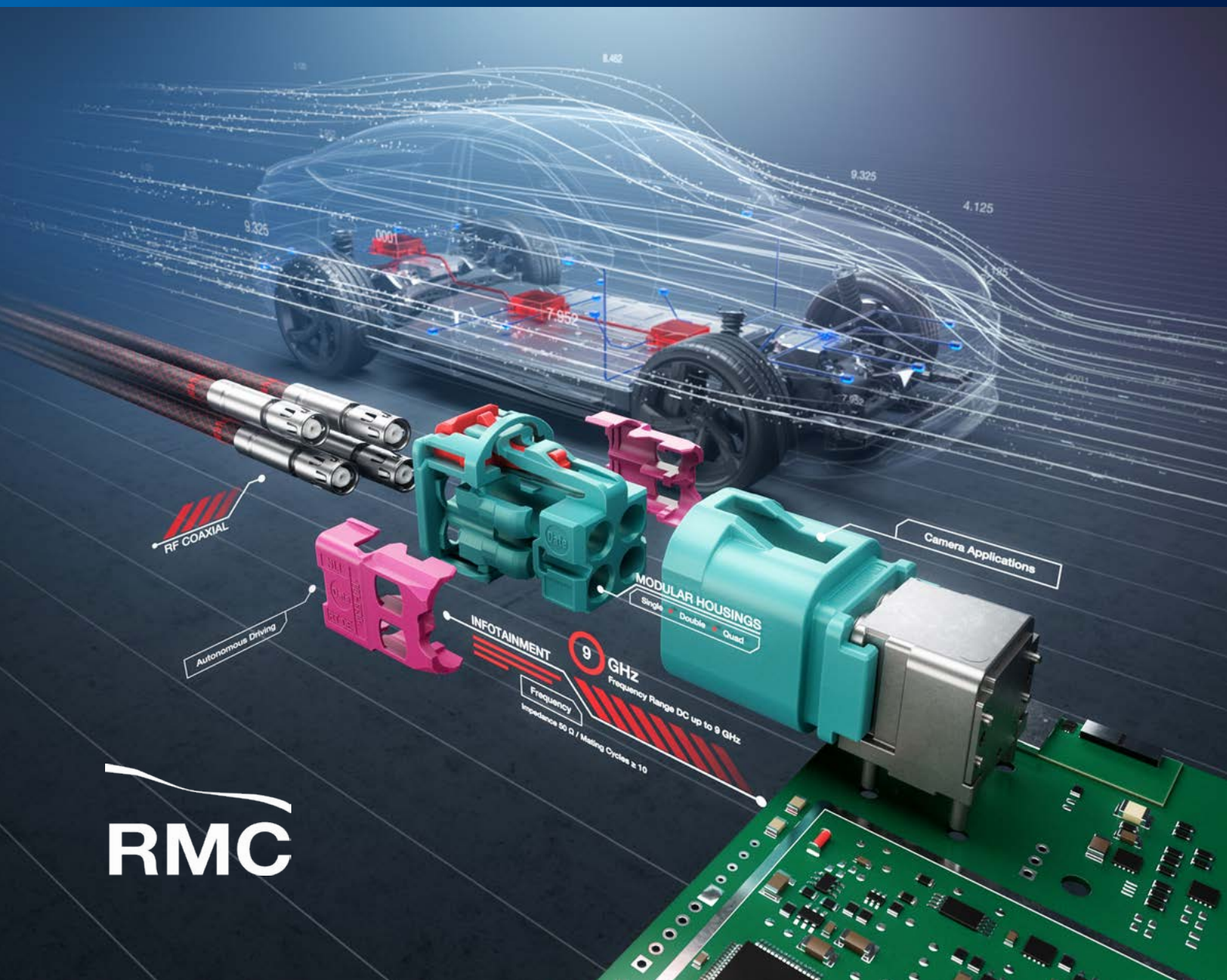


Automotive Connector System up to 9 GHz

## RMC® Products Rosenberger Mini-Coax

### AUTOMOTIVE DATA CONNECTORS







## About Rosenberger

Rosenberger, a leading global electronics manufacturer headquartered in Germany, provides innovative high-frequency, high-voltage, and fiber optic solutions. With worldwide sales and production facilities, the company develops both standardized and customized connectivity technologies for demanding applications.

Our products are trusted across industries such as telecommunications, test and measurement, automotive, medical, industrial electronics, and aerospace. Additionally, our CNC machining division manufactures precision components for automotive, commercial vehicles, shipbuilding, and mechanical engineering.

Since its founding in 1958, Rosenberger has been committed to innovation and top quality. As a family-owned business, we value long-term relationships with customers and employees.



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The Rosenberger online catalog contains the current RMC® product range with specific details, including data sheets, assembly instructions and panel piercings.

[www.rosenberger.com/ok/rmc](http://www.rosenberger.com/ok/rmc)





# Rosenberger Automotive

At Rosenberger, we firmly believe in developing technology for the future. We are currently working on products and solutions that will shape our lives in the future.

We want to get faster and smarter in what we do and how we do it. Advanced driver assistance systems, connected car technology, electric mobility, infotainment systems – Rosenberger is extremely committed to designing innovative connector systems for future automotive electronics.





In 2000, Rosenberger started working in the automotive sector, designing and producing customized and standard products for these specific markets.

Rosenberger Automotive is a specialist development partner when it comes to integrating connector designs and customer-specific solutions with the highest quality and best performance – while continuing to meet customer price targets.

The contact systems have been specially designed to fulfill the tough requirements of the automotive industry. From the beginning, Rosenberger has developed a close and open relationship with its customers.

The priority in the most automotive applications, such as autonomous driving and driver assistance systems, is to ensure safety. It is necessary to determine exact positions, continuously calculate routes, and detect and classify objects. High data volumes from several cameras, various sensors, and navigation sources must be combined and transported for this purpose – in real time.

#### Application Areas

- Autonomous driving
- Driver assistance systems
- Navigation
- Infotainment
- Rear seat entertainment
- Internet & mobile communication
- "WiGig" (Wireless Gigabit)

# RMC® Overview

## RMC® – Rosenberger Mini-Coax

The Rosenberger RMC® connector is designed to meet the growing demand for high-frequency data transmission in modern vehicles. As the number of sensors, cameras, and communication modules increases, reliable and space-efficient connectivity solutions become essential for advanced vehicle electronics, including driver assistance technologies, infotainment systems and V2X communication.

The Rosenberger RMC® offers an innovative mini-coax connection solution with an impedance of 50  $\Omega$  and a frequency range from DC up to 9 GHz. RMC® enables reliable high-frequency transmission in a compact design.

Its optimized space utilization and modular design contribute to space savings in vehicles while providing a cost-efficient solution for various applications. Its small dimensions allow for easy integration into limited installation spaces, while the robust construction with waterproof variants ensures reliable performance even under demanding conditions.

With a durability of  $\geq 10$  mating cycles and an interface compliant with USCAR 888-U-xxx-Z03, RMC® meets the stringent requirements of the automotive industry. RMC® is ideal for applications requiring a space-saving, high quality but cost effective RF connection solution.

### Applications

- Camera applications
- Autonomous driving
- Driver assistance systems
- Navigation
- Infotainment
- Rear seat entertainment
- Internet and mobile communication
- Car-2-X
- In-cabin monitoring



### Product Portfolio

- Cable connectors (straight, right angle)
- PCB connectors (straight, right angle)
- Modular housings (single, double, quad)
- Cable assemblies
- Waterproof versions

### Benefits

- Small dimensions for an optimized use of space
- Modular system for saving installation space
- Cost optimized
- Waterproof variants







### Features

- Impedance 50  $\Omega$
- Frequency range DC up to 9 GHz
- Mating cycles  $\geq 10$
- Interface according USCAR 888-U-xxx-Z03

### Protocols

- APIX®
- FPD-Link
- GMSL™
- MIPI A-PHY<sup>SM</sup>
- PCIe®
- USB
- GVIF
- HDBase-T™
- ASA Motion Link

## Housing Designs



Single



Single waterproof



Double



Quad



Quad horizontal



Single CPA



Single waterproof CPA



Double CPA

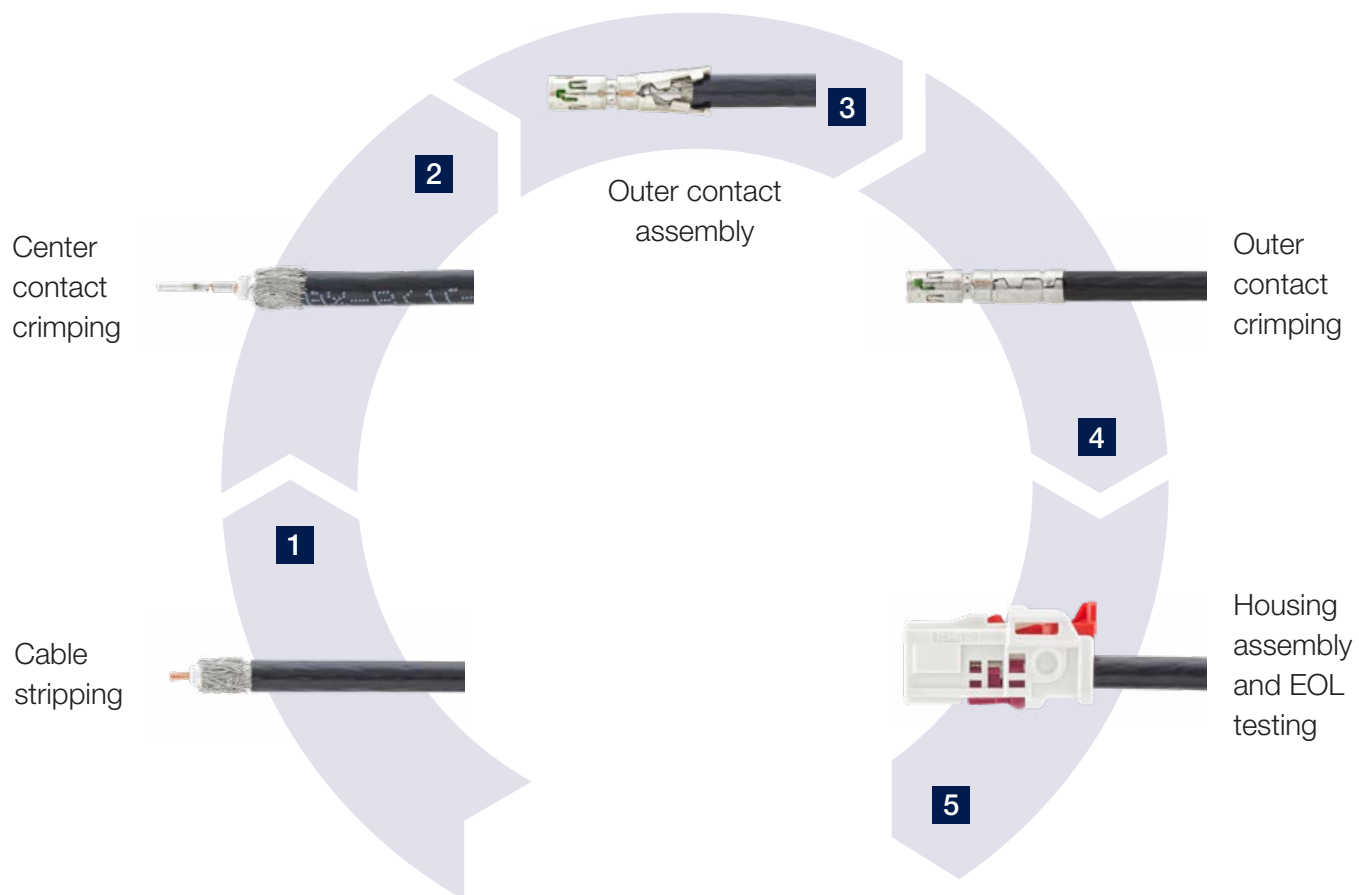


Quad CPA



Single clip rail

## Automated Assembly of RMC® Cable Connectors

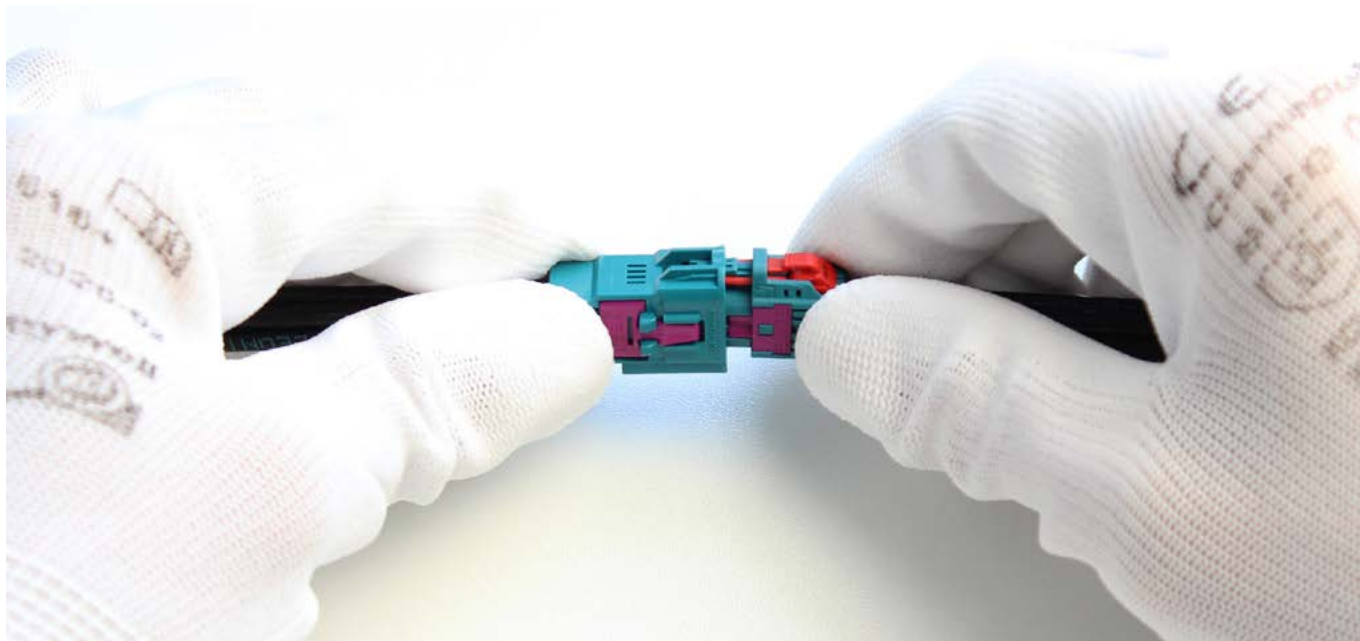




## Connector Position Assurance – CPA prevents Unintentional Disengagement

High-speed data connectors are increasingly required in safety applications such as autonomous driving and driver assistance systems. In response, Rosenberger has developed an optional CPA (Connector Position Assurance) solution which improves connection reliability.

The CPA cannot be activated if the connector has not been completely mated. When aligned correctly the CPA can be closed. Additional products are available on request.



CPA (Connector Position Assurance)

TPA (Terminal Position Assurance)

# Technologies

## Stamping

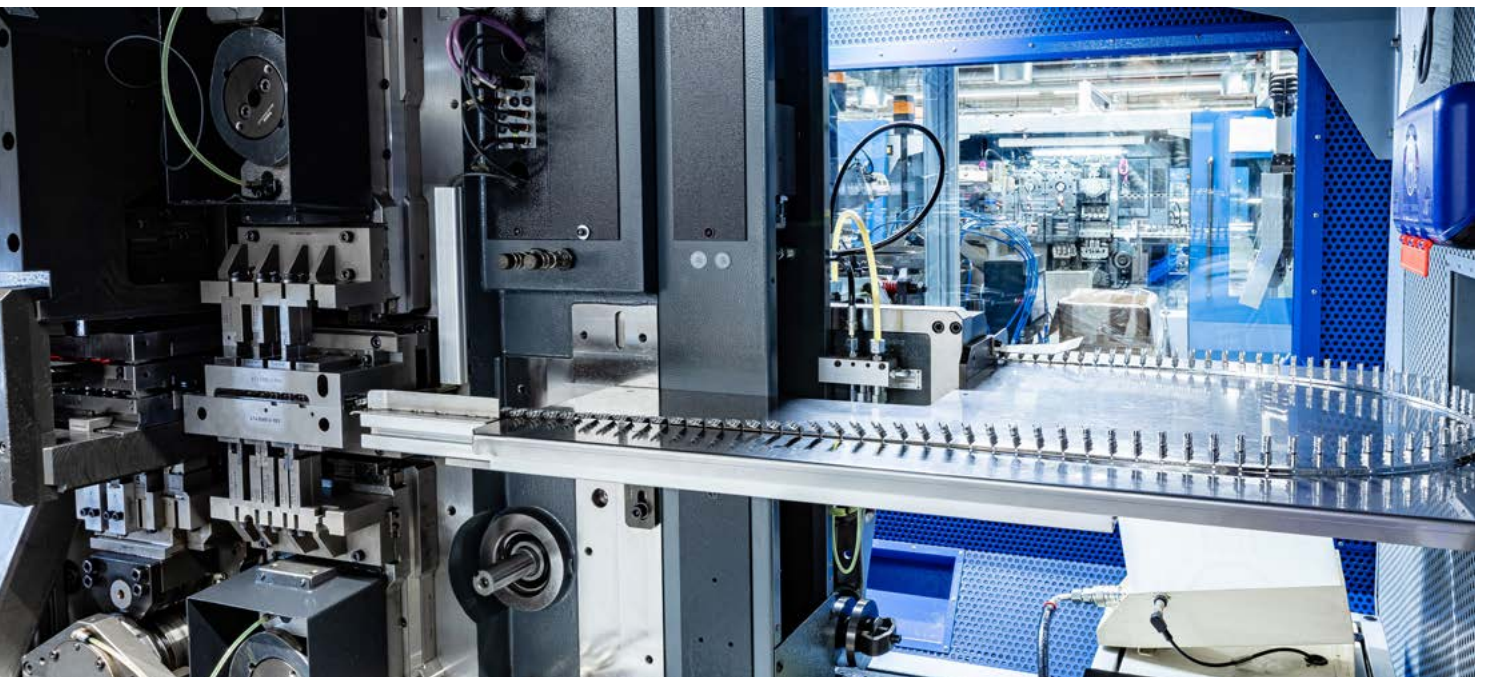
The Rosenberger Group meets the increasing requirements with its high-quality stamping technology. Competence and experience guarantees reliable pluggability as well as highly resilient, stamped and formed (SF) connectors; especially under demanding conditions such as those found in the automotive industry. Rosenberger quality is assured by the adoption of fully automated processes with 100 % repeatability. Maximum efficiency is achieved by the involvement of the potential harness makers as early as the design phase of the respective SF connectors.

### Benefits of Stamping & Forming

- Cost optimization
- Reduced use of materials
- Fast production of large quantities
- Process-safe manufacturing
- Precision

Learn more about the stamping technologies at Rosenberger.

[www.rosenberger.com/stamping-technologies](http://www.rosenberger.com/stamping-technologies)







## Belting & Packing

For high volume production, stamped and formed connector parts such as outer contacts/connector bodies, center/inner contacts or support sleeves can be delivered on reels only.

Information about high-volume production and assembly, special tools for cable assembly and ordering procedure of packing units is available on request: [automotive@rosenberger.com](mailto:automotive@rosenberger.com)

## Scope of Delivery

For cable connectors in the following product section, the specified "Rosenberger No." includes the three components on reels:

- 1** SF connector body
- 2** SF center contact
- 3** SF support sleeve



# RMC® Number Code

Connector or Housing only							Connector/Housing
BM	S	2	E1 -	4	0M	T1	-y
							Coding A-Z see coding table
							-y Placeholder for required coding
						Plating	
					01-Z9 Cable group		
					00 Blank		
					0M Surface mount device		
					xx Blank cable group		
				1 Crimp			
				4 PCB mounting			
			Successive number				
		1 Straight					
		2 Right angle					
	K Female, jack						
	S Male, plug						
	Z Plastic housings and accessories						
Connector series BM RMC®							

## RMC® Cable Groups

Cables according to assembly instructions.

## RMC® Plating Code

### Outer Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
Z	Special plating			
T	Tin/lead leadfree	Sn	min. 1.5–8.0 µm	Non magnetic




































### Center Contact

Code	Plating	Symbol	Layer thickness	Magnetic properties
1	Silver	Ag	2.0 µm	Non magnetic



# RMC® Codings

## Coding Rosenberger RMC® Single

Coding	Jack	Plug	Color / RAL-No. (similar)
A			Jet Black / 9005 
B			Pure White / 9010 
C			Light Blue / 5012 
D			Claret Violet / 4004 
E			May Green / 6017 
F			Nut Brown / 8011 
G			Blue Gray / 7031 
H			Heather Violet / 4003 
J			Beige / 1001 
K			Curry / 1027 
L			Pastel Green / 6019 
M			Leaf Green / 6002 
Z (neutral coding)			Water Blue / 5021 

Availability of specific codings upon request. Color of the plastic housing defined in accordance to the listed RAL colors. Minor color differences due to manufacturing possible.

# RMC® Technical Data (Code BM)

## Applicable Standards

Interface according to	USCAR 888-U-001-1-Z03 USCAR 888-U-002-1-Z03 USCAR 888-U-004-2-Z03 USCAR 888-S-001-1-Z02 USCAR 888-S-004-2-Z02
------------------------	---

## Electrical Data

Impedance	50 $\Omega$
Frequency range (depends on cable)	DC to 9 GHz
Return loss	$\geq 23$ dB, DC to $\leq 2$ GHz $\geq 20$ dB, $> 2$ GHz to $\leq 7$ GHz $\geq 15$ dB, $> 7$ GHz to $\leq 9$ GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 1 \times 10^3$ M $\Omega$
Center contact resistance	$\leq 15$ m $\Omega$
Outer contact resistance	$\leq 5$ m $\Omega$
Test voltage	$\leq 500$ V rms
Working voltage	$\leq 60$ V DC
Contact current (depending on cable size)	$\leq 1$ A DC

## Mechanical Data

Mating cycles (standard, non waterproof)	$\geq 10$
Mating cycles (waterproof)	$\geq 5$
Engagement force (single)	$\leq 25$ N
Engagement force (double)	$\leq 45$ N
Engagement force (quad)	$\leq 45$ N
Disengagement force terminal	$\geq 2$ N
Retention force latch	$\geq 110$ N
Retention force primary lock	$\geq 80$ N
Retention force secondary lock	$\geq 80$ N
Coding efficiency	$\geq 150$ N

## Environmental Data

Temperature range	-40 °C – +105 °C
Thermal shock	DIN EN 60068-2-14
Humidity	DIN EN 60068-2-30 at +40 °C
Dry heat	DIN EN 60068-2-2 at +105 °C
Vibration	DIN EN 60068-2-64
Mechanical shock	DIN EN 60068-2-27
RoHS	compliant



Materials

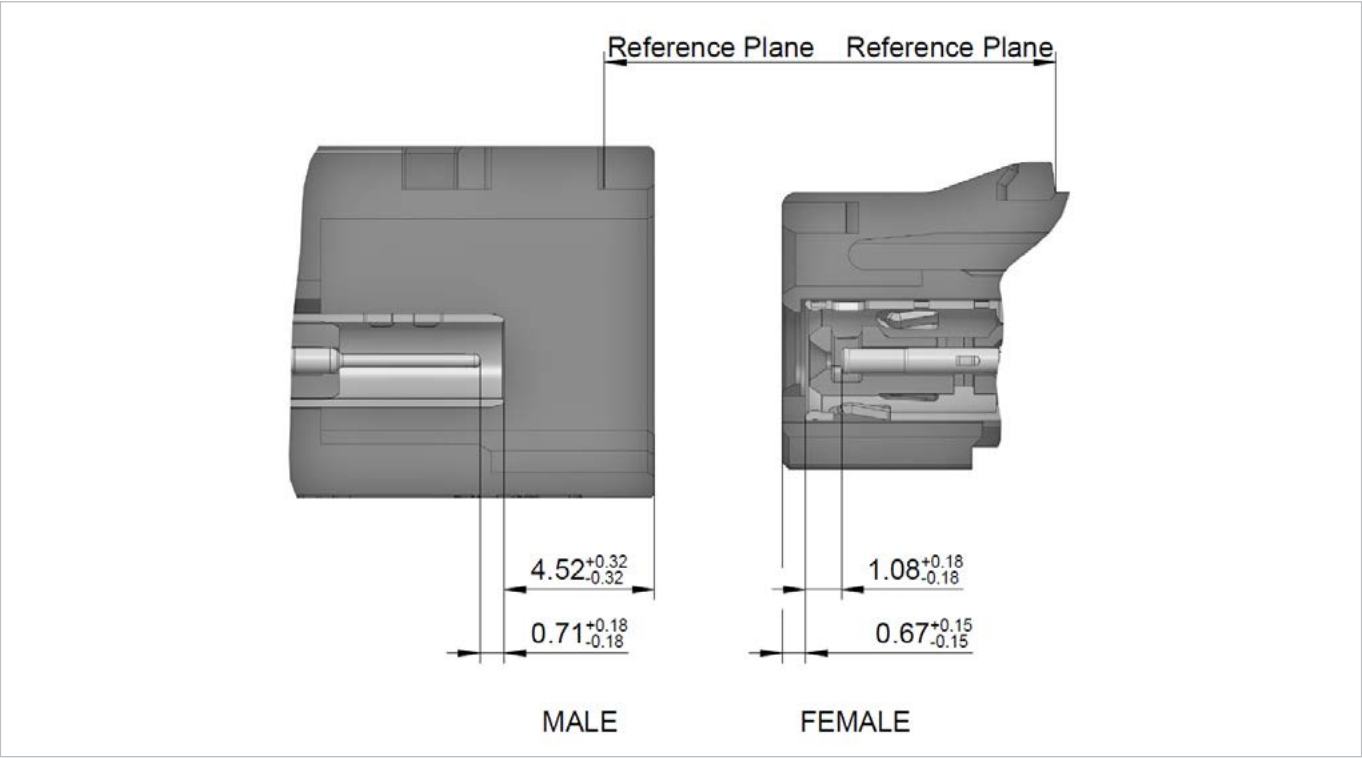
Outer contact	Bronze, Zinc alloy
Center contact	Bronze, Brass
Dielectric	PK, PA, LCP
Gasket	Silicone, Rubber
Crimping ferrule	Stainless steel
Plastic housings	PBT, PA
Secondary lock	PBT

Platings

Outer contact	Sn
Center contact	Ag, Sn

Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.

RMC® Interface



# RMC® Cable Connectors & Housings

## Compatibility

Housings	Connectors					
	BMS12A-1xxZ1	BMK12A-1xxZ1	BMK21A-1xxZ1	BMK23A-1xxZ1	BMK23D-1xxZ1	BMK24K-1xxZ1
BMZ010-000-y	✓					
BMZ010-C00-y	✓					
BMZ042-C00-y <sup>3)</sup>	✓					
BMZ040-D00-y	✓					
BMZ001-000-y		✓				
BMZ017-000-y <sup>2)</sup>		✓				
BMZ045-002-y <sup>3)</sup>		✓				
BMZ041-002-y <sup>2)3)</sup>		✓				
BMZ003-000-y		✓				
BMZ031-000-y <sup>2)</sup>		✓				
BMZ005-001-y		✓				
BMZ025-001-y <sup>2)</sup>		✓				
BMZ144-000-y		✓				
BMZ016-000-y			✓			
BMZ086-000-y <sup>2)</sup>			✓			
BMZ011-001-y			✓			
BMZ015-000-y				✓		
BMZ085-000-y <sup>2)</sup>				✓		
BMZ092-000-y <sup>2)</sup>				✓ <sup>1)</sup>	✓ <sup>1)</sup>	
BMZ093-000-y				✓ <sup>1)</sup>	✓ <sup>1)</sup>	
BMZ178-001-y <sup>3)</sup>						✓
BMZ189-001-y <sup>2)3)</sup>						✓
BMZ178-00R-y <sup>3)</sup>						✓
BMZ178-00L-y <sup>3)</sup>						✓

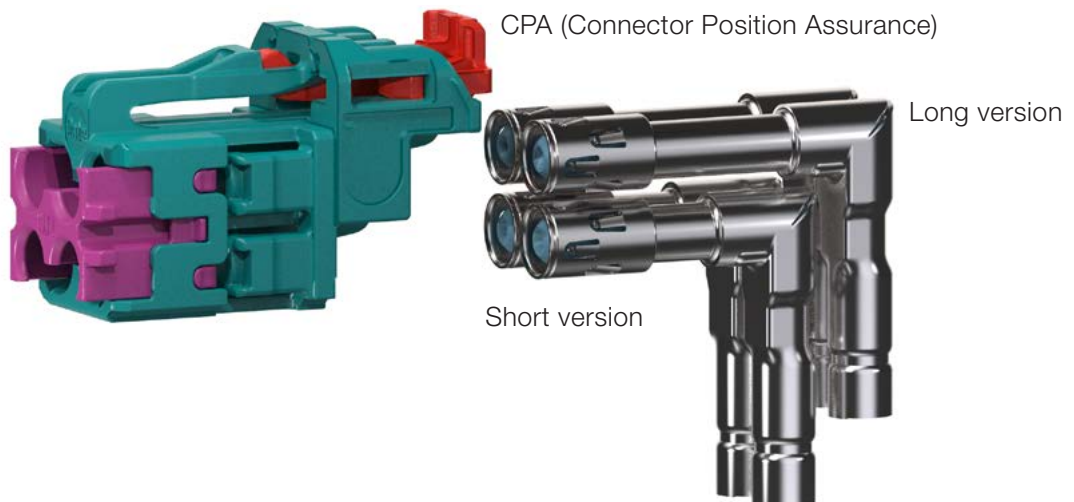
xx For cable group 02 and M4

-y Please fill in requested coding

1) Up to two contacts each (2 × short, 2 × long)



2) With CPA

3) For some waterproof versions, please order additional seals and caps separately!






## Cable Connector &amp; Housing Plugs, Straight


## Straight Plug

Rosenberger No.	Description	Assembly Instruction	Product
BMS12A-102Z1	Straight plug	MA_BMV003	
BMS12A-1M4Z1	Straight plug	MA_BMV003	

## Housing Plug, Single

Rosenberger No.	Description	Assembly Instruction	Product
BMZ010-000-y	Straight Single		
BMZ010-C00-y	Straight Single Clip rail		
BMZ042-C00-y	Straight Single Clip rail Waterproof – Please order additional parts separately: Cable group 02: cable seal BMK14A-102/51, cap BMZ045-000/52; Cable group M4: cable seal BMK14A-1M4/51, cap BMZ045-000/52	MA_BMV006	

## Housing Plug, Quad



Rosenberger No.	Description	Product
BMZ040-D00-y	Straight Quad Clip rail (side)	

Connectors work with all housings on this page only  
-y Please fill in requested coding



# Cable Connector Jacks, Straight



## Straight Jack

Rosenberger No.	Description	Assembly Instruction	Product
BMK12A-102Z1	Straight jack	MA_BMV002	
BMK12A-1M4Z1	Straight jack	MA_BMV002	



Connectors work with all housings on the next page only

## Housing Jacks, Straight




### Housing Jack, Single

Rosenberger No.	Description	Assembly Instruction	Product
BMZ001-000-y	Straight Single		
BMZ017-000-y	Straight Single With CPA		
BMZ045-002-y	Straight Single Waterproof – Please order additional parts separately: Cable group 02: cable seal BMK14A-102/51, cap BMZ045-000/52; Cable group M4: cable seal BMK14A-1M4/51, cap BMZ045-000/52	MA_BMV007	
BMZ041-002-y	Straight Single With CPA Waterproof – Please order additional parts separately: Cable group 02: cable seal BMK14A-102/51, cap BMZ045-000/52; Cable group M4: cable seal BMK14A-1M4/51, cap BMZ045-000/52	MA_BMV007	

### Housing Jack, Double

Rosenberger No.	Description	Product
BMZ003-000-y	Straight Double	
BMZ031-000-y	Straight Double With CPA	

### Housing Jack, Quad



Rosenberger No.	Description	Assembly Instruction	Product
BMZ005-001-y	Straight Quad		
BMZ025-001-y	Straight Quad With CPA		
BMZ144-000-y	Straight Quad Waterproof – Including cable seal and cap	MA_BMV004	

Housings work with all connectors on the previous page only



-y Please fill in requested coding

## Cable Connector & Housing Jacks, Right Angle


### Right Angle Jack

Rosenberger No.	Description	Assembly Instruction	Product
BMK21A-102Z1	Right angle Short version RT chamber	MA_BMV001	
BMK21A-1M4Z1	Right angle Short version RT chamber	MA_BMV001	

### Housing Jack, Single

Rosenberger No.	Description	Product
BMZ016-000-y	Right angle Single RT chamber	
BMZ086-000-y	Right angle Single RT chamber With CPA	



### Housing Jack, Quad

Rosenberger No.	Description	Product
BMZ011-001-y	Right angle Quad horizontal RT chamber	

Connectors work with all housings on this page only  
 -y Please fill in requested coding



## Right Angle Jack





Rosenberger No.	Description	Assembly Instruction	Product
BMK23A-102Z1	Right angle Short version Chamber according USCAR 888-U-xxx-Z03	MA_BMV008	
BMK23A-1M4Z1	Right angle Short version Chamber according USCAR 888-U-xxx-Z03	MA_BMV008	

## Housing Jack, Single

Rosenberger No.	Description	Product
BMZ015-000-y	Right angle Single Chamber according USCAR 888-U-xxx-Z03	
BMZ085-000-y	Right angle Single Chamber according USCAR 888-U-xxx-Z03	

Connectors work with all housings on this page only  
-y Please fill in requested coding

## Right Angle Jack

Rosenberger No.	Description	Assembly Instruction	Product
BMK23A-102Z1	Right angle Short version Chamber according USCAR 888-U-xxx-Z03	MA_BMV008	
BMK23A-1M4Z1	Right angle Short version Chamber according USCAR 888-U-xxx-Z03	MA_BMV008	
BMK23D-102Z1	Right angle Long version	MA_BMV008	
BMK23D-1M4Z1	Right angle Long version	MA_BMV008	

## Housing Jack, Quad



Rosenberger No.	Description	Product
BMZ093-000-y	Right angle Quad Chamber according USCAR 888-U-xxx-Z03	
BMZ092-000-y	Right angle Quad Chamber according USCAR 888-U-xxx-Z03 With CPA	

Connectors work with all housings on this page only





-y Please fill in requested coding

## Cable Connector &amp; Housing Jacks Waterproof, Right Angle

## Right Angle Jack

Rosenberger No.	Description	Assembly Instruction	Product
BMK24K-102Z1	Right angle Waterproof	MA_BMV005	
BMK24K-1M4Z1	Right angle Waterproof	MA_BMV005	

## Housing Jack, Single

Rosenberger No.	Description	Assembly Instruction	Product
BMZ178-001-y	Right angle Single Waterproof – Please order additional parts separately: Cable group 02: cap BMZ178-102/54 Cable group M4: cap BMZ178-1M4/54	MA_BMV005	
BMZ178-00R-y	Right angle Single Cable right Waterproof – Please order additional parts separately: Cable group 02: cap BMZ178-102/58 Cable group M4: cap BMZ178-1M4/58	MA_BMV005	
BMZ178-00L-y	Right angle Single Cable left Waterproof – Please order additional parts separately: Cable group 02: cap BMZ178-102/58 Cable group M4: cap BMZ178-1M4/58	MA_BMV005	
BMZ189-001-y	Right angle Single With CPA Waterproof – Please order additional parts separately: Cable group 02: cap BMZ178-102/54 Cable group M4: cap BMZ178-1M4/54	MA_BMV005	

Connectors work with all housings on this page only

-y Please fill in requested coding



# RMC® Accessories

## Compatibility

Waterproof Connectors	Additional Parts		
	BMK14K-1xx/51 + BMZ045-000/52	BMZ178-1xx/54	BMZ178-1xx/58
BMZ042-C00-y	✓		
BMZ045-002-y	✓		
BMZ041-002-y	✓		
BMZ178-001-y		✓	
BMZ189-001-y		✓	
BMZ178-00R-y			✓
BMZ178-00L-y			✓

xx For cable group 02 and M4  
-y Please fill in requested coding

## Additional Parts for Waterproof Connectors


Rosenberger No.	Description	For Connector	Product
BMK14A-102/51	Cable seal Cable group 02	BMZ042-C00-y BMZ045-002-y BMZ041-002-y (see pages 17, 19)	
BMK14A-1M4/51	Cable seal Cable group M4	BMZ042-C00-y BMZ045-002-y BMZ041-002-y (see pages 17, 19)	
BMZ045-000/52	Cap Cable groups 02 and M4	BMZ042-C00-y BMZ045-002-y BMZ041-002-y (see pages 17, 19)	
BMZ178-102/54	Cap Cable group 02	BMZ178-001-y BMZ189-001-y (see page 23)	
BMZ178-1M4/54	Cap Cable group M4	BMZ178-001-y BMZ189-001-y (see page 23)	
BMZ178-102/58	Cap Cable group 02	BMZ178-00R-y BMZ178-00L-y (see page 23)	
BMZ178-1M4/58	Cap Cable group M4	BMZ178-00R-y BMZ178-00L-y (see page 23)	

Please order additional parts for waterproof connectors separately!


# RMC® PCB Connectors

## PCB Connector Plugs, Right Angle

### Right Angle Plug PCB, Single

Rosenberger No.	Description	Panel Piercing/Footprint	Product
BMS2E1-40MT1-y	Right angle Single Pin-in-paste With housing	MB_1001	

### Right Angle Plug PCB, Double

Rosenberger No.	Description	Panel Piercing/Footprint	Product
BMS2E2-40MT1-y	Right angle Double Pin-in-paste With housing	MB_1002	

### Right Angle Plug PCB, Quad

Rosenberger No.	Description	Panel Piercing/Footprint	Product
BMS2D4-40MT1-y	Right angle Quad Pin-in-paste With housing	MB_705	
BMS2U6-40MT1-y	Right angle Cable up Quad Pin-in-paste With housing	MB_745	
BMS2U7-40MT1-y	Right angle Cable up Quad Pin-in-paste With housing	MB_788	
BMS2DU-40MT1-y	Right angle Cable up Quad Pin-in-paste With housing	MB_705	

-y Please fill in requested coding

# RMC® Cable Assemblies

Rosenberger offers a comprehensive range of standard cable assemblies as well as customized solutions for high speed data transmissions. Configure RMC® connectors as straight, right-angle, single, double or quad versions. Choose between connectors assembled on both sides or one open end, or combine them with connectors from FAKRA or HFM® series.

We also offer the combination of one connector on side A with different modular options such as single, double, and/or quad housings on side B. Additionally, selected waterproof variants complete the portfolio.

Custom specific versions on request, please feel free to contact us.

## Example Standard Cable Assemblies: Single, Double or Quad



## Example Cable Assemblies: Combined

Combination of one connector on side A with different modular options such as single, double, and/or quad housings on side B.



### Example Cable Assemblies: Open End







### Example Cable Assemblies: Waterproof





# RMC® Test Equipment

## Test Adaptors without Housing for Universal Use

Rosenberger No.	Description	Connectors	Product
02K1BM-K00S3	Adaptor Without RMC® housing	RPC-2.92 female RMC® female	
02K1BM-S00S3	Adaptor Without RMC® housing	RPC-2.92 female RMC® male	
02S1BM-K00S3	Adaptor Without RMC® housing	RPC-2.92 male RMC® female	
02S1BM-S00S3	Adaptor Without RMC® housing	RPC-2.92 male RMC® male	

Universal adaptors can be used with each RMC® connector (single, double, quad, standard and waterproof)

## Test Adaptors

Rosenberger No.	Description	Connectors	Product
02K8BM-K00S3	Adaptor With RMC® housing quad	4 × RPC-2.92 female 1 × RMC® female	
02K8BM-S00S3	Adaptor With RMC® housing quad	4 × RPC-2.92 female 1 × RMC® male	
02S8BM-K00S3	Adaptor With RMC® housing quad	4 × RPC-2.92 male 1 × RMC® female	
02S8BM-S00S3	Adaptor With RMC® housing quad	4 × RPC-2.92 male 1 × RMC® male	

Test PC-boards are available on request.

# Quality & Environment

The quality of Rosenberger products, solutions and services is an essential part of our corporate strategy.

Ensuring the optimum quality of products and services and taking responsibility for our environment are fundamental elements of Rosenberger's corporate philosophy. Our quality philosophy does not only cover the optimization of parts and products, but also the continuous improvement of all company processes: from product development, planning, procurement, production, sales, logistics right through to environmental policy. To summarize, we want to offer maximum benefits for our customers all over the world.

We aim to act in an environmentally conscious manner, use materials economically, protect natural resources, recycle, and ensure energy efficiency.

In recognition of continuously improving processes and applying quality management systems, Rosenberger has won a number of prestigious quality and environmental excellence awards.

## Complete Control with Innovative Technology

Industrial image processing guarantees fully automatic machine inspection. A combination of hardware and software ensures error-free execution of complex production. Digital sensors inside industrial cameras with special optics for image acquisition analyze and monitor all process steps. If products are in need of adjustment they are immediately scanned prior to checking for errors against the respective design data.

## Certificates

- IATF 16949
- DIN EN 9100
- ISO 9001
- DaKKs accreditation according to DIN EN ISO 17025
- ISO 14001
- ISO 45001
- ISO 50001



Learn more about Rosenberger certifications:

[www.rosenberger.com/company/certifications/](http://www.rosenberger.com/company/certifications/)





## IMDS System

Rosenberger has been registered in the IMDS data-base (International Material Data System) since 2001.

IMDS reports for automotive customers are provided as a part of the PPAP documentation.

For more information  
refer to the website:  
[www.mdssystem.com](http://www.mdssystem.com)



## Information Security – TISAX®

Information security is an integral part of our corporate culture. Rosenberger was audited at TISAX® (Trusted Information Security Assessment Exchange).

Learn more about Rosenberger  
information security:  
[www.rosenberger.com/company/  
information-security](http://www.rosenberger.com/company/information-security)





# Rosenberger Global Network

Rosenberger is one of the world's leading manufacturers of impedance controlled and optical connectivity solutions. It provides connectivity solutions in high-frequency, high-voltage, and fiber-optic technology for mobile communication networks, data centers, test & measurement applications, automotive electronics, as well as high-voltage contact systems, medical electronics or aerospace engineering.

A global network of R&D, manufacturing and assembly locations provides innovation, optimized cost structure and excellent customer services world-wide.

## Contacts Automotive

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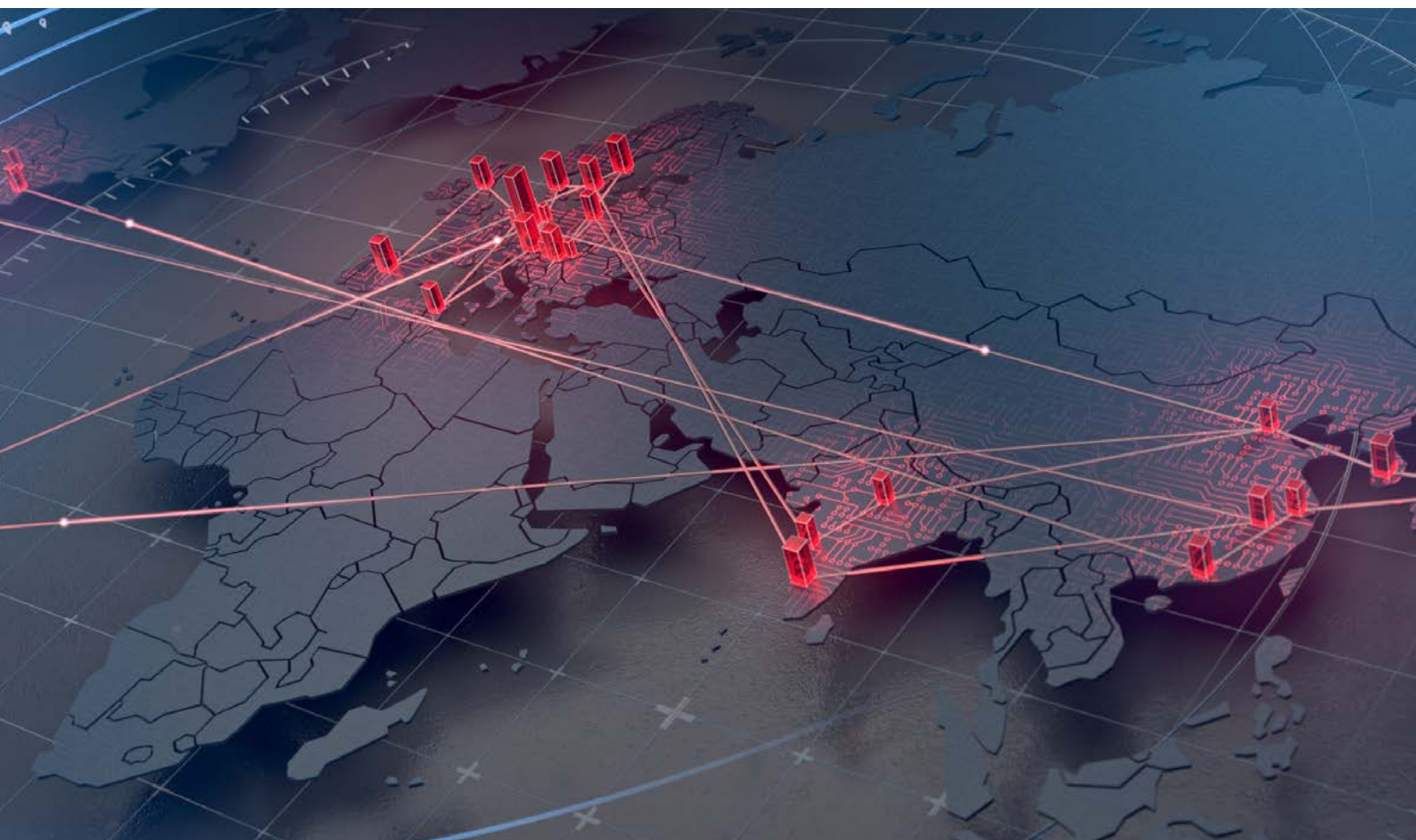
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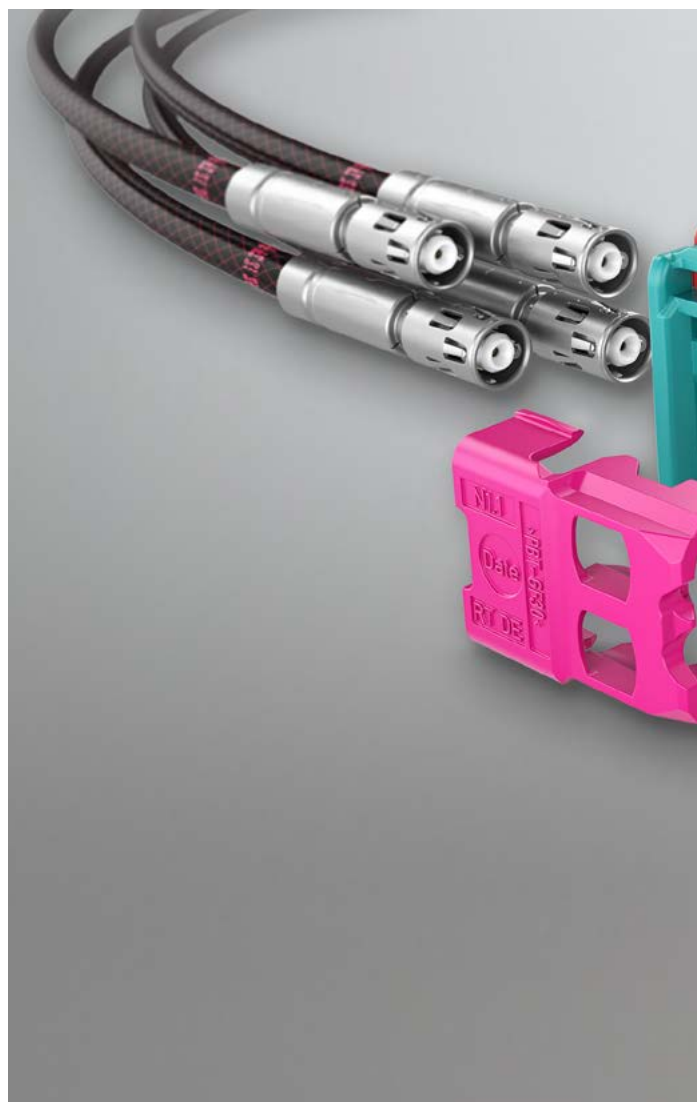
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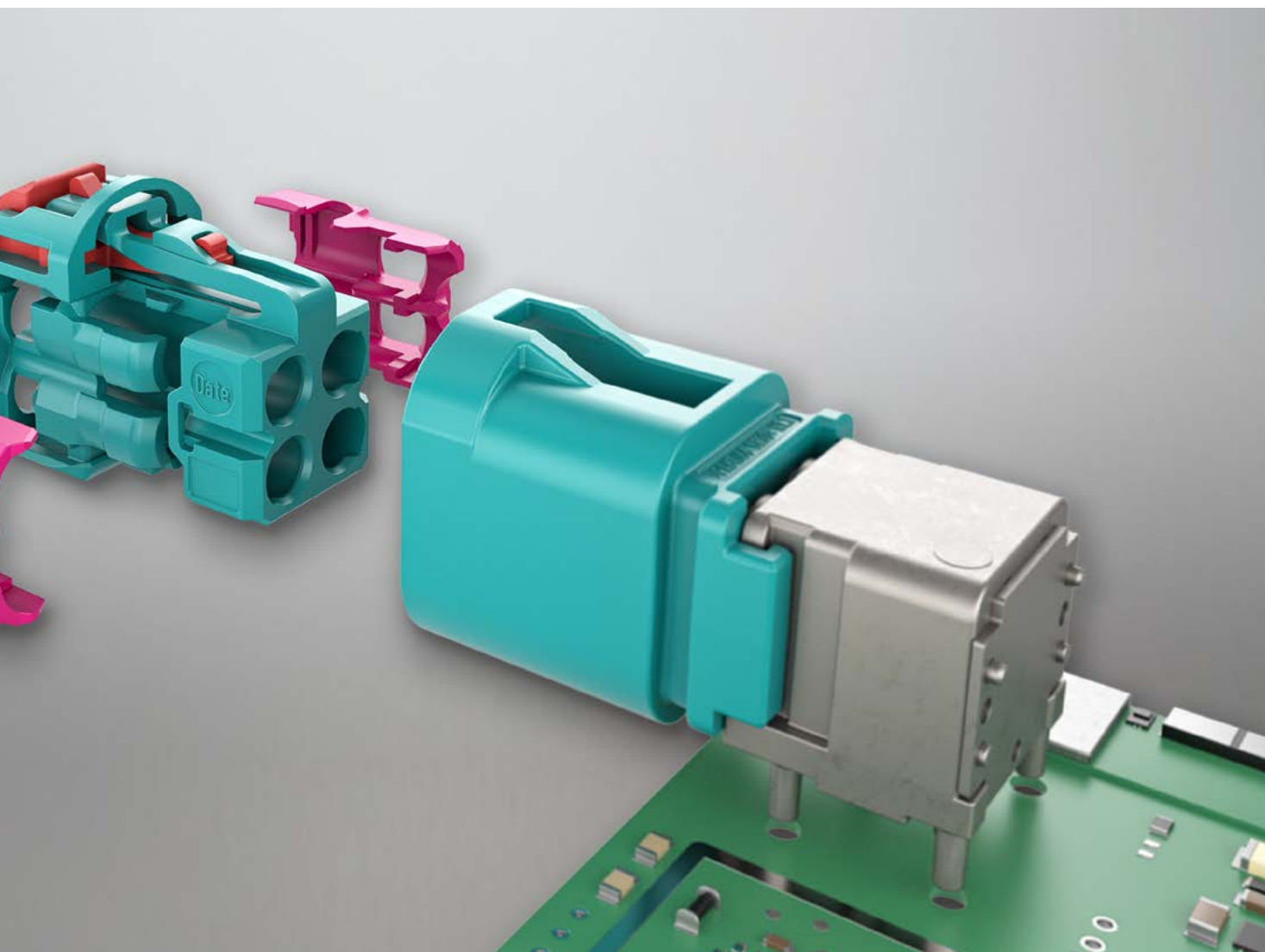
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