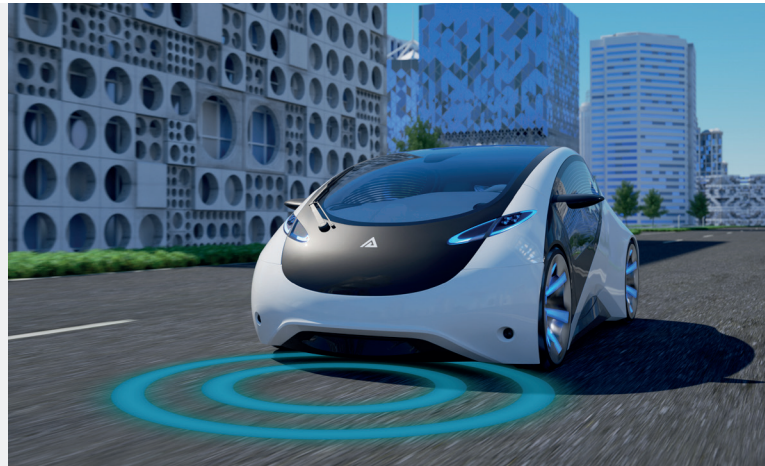


# H-MTD – High-Speed Modular Twisted-Pair Data

## Perfectly Assembled Cables – Our USPs

- › Highly automated production line with modular transfer technology and process monitoring
- › Compliance with the smallest processing tolerances
- › Handling of various cable variants (STP, SPP)
- › Globally standardized machinery



## Your Advantages

- › High frequency range and high data rates
- › Less mating processes due to a modular package concept (standard connector with 1-, 2- and 4-way housings)
- › Automated assembly with process monitoring
- › Small but robust design

## Technical Information

### Electrical

Return loss  $\geq 30$  dB, 0.01 GHz  
up to 3 GHz

### Mechanical

Keying efficiency  $\geq 150$  N  
Engagement force  $< 45$  N  
Retention force latch  $\geq 110$  N  
Mating cycles  $\geq 25$

### Environmental

Temperature range  $-40$  °C up to  $+105$  °C  
Qualification according to DIN EN 60068 -2

*Specification according to Rosenberger datasheet*

## Requirements

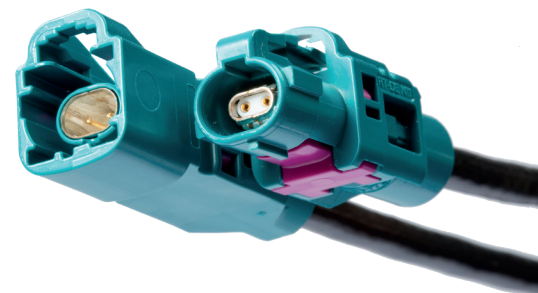
Combination of high-performance data transmission up to 15 GHz and 20 Gbps and a small and robust design

## Applications

- › 4K camera systems
- › Autonomous driving
- › 4K high-resolution displays
- › Rear seat entertainment

## Protocols & Signals

- › LVDS
- › Automotive Ethernet
- › FPD-Link
- › GMSL
- › APIX
- › PCIe
- › MIPI A-PHY
- › Next generation protocols



# MD in a Nutshell



The C.A.S.E. megatrend describes the four essential future topics for the automotive industry: Connected, Autonomous, Shared & Service and Electric. Data plays a central role and drives the future of the automotive industry. Data is generated, transferred, merged and evaluated. We are experts in the transmission of the rapidly increasing data volumes and have developed the latest technological solutions for this future topic.

# 25

years experience  
in the automotive industry



# 100 %

automotive



Supplier of products for  
over 350 car models from  
more than 60 OEMs



Volume supplier – over  
160 million products in more than  
20,000 variants annually



Global production- &  
sales network in NAFTA,  
Europe and APAC



Stable  
ownership structure



Worldwide leading  
company for data transmission  
solutions in vehicles



Approx. 5,000 employees  
worldwide



Accredited in-house  
test laboratory

Do you have any questions or need a data transmission solution in vehicles?  
Please contact us: [product-info@md-elektronik.com](mailto:product-info@md-elektronik.com)

[www.md-elektronik.com](http://www.md-elektronik.com)