

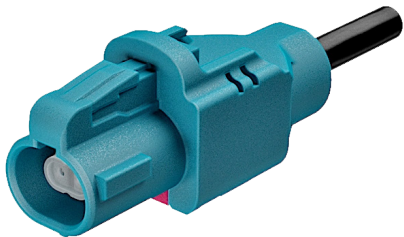


Our USPs

- › Semi-automated production line with modular transfer technology and process monitoring
- › Compliance with the smallest processing tolerances
- › Handling of various sheathed cable variants (UTP) and individual stranded wires (FLRY) as well as cross-sections (0.13 mm² / 0.14 mm² and 0.35 mm²)
- › Globally standardized machinery and processes

Your Advantages

- › High frequency range and high data rates
- › Less mating processes due to a modular package concept
- › Semi-automated assembly with complete process monitoring
- › Small but robust design
- › Installation with waterproof components possible
- › Mating and cavity compatibility with H-MTD*1 and GEMnet**2 housings
- › High cable retention forces



Requirements

Combination of high-performance data transmission up to 600 MHz and 1 Gbps and a small and robust design

Applications

LiDAR	Radar
Sensors	

Technical Information

Electrical	
Return loss	≥ 12.8 dB, 1 MHz up to 66 MHz

Mechanical	
Polarization efficiency	≥ 150 N (depending on housing)
Engagement force	< 25 N (depending on housing)
Retention force latch	≥ 110 N
Mating cycles	≥ 10

Environmental	
Temperature range	-40 °C up to +105 °C (depending on cable)

Interface	
USCAR	777-U-002-1-Z01
Rosenberger	RN121-01

Protocols & Signals

LVDS	A²B
Automotive Ethernet (10BASE-T1, 100BASE-T1)	

Specification according to datasheet

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*1 H-MTD is a Rosenberger product

*2 GEMnet is a TE product

MD in a Nutshell



Cable Assembler

with 50 years of experience



Flexible Volume Supplier

more than 190 million products in over 20.000 variants every year and more than 450 car models from over 90 OEMs



Automotive Supplier

for more than 30 years



Global MD Academy

for knowledge sharing from employees for employees



Leading Global Specialist

for data transfer solutions in vehicles



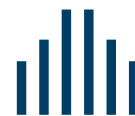
Globally Accredited Test Laboratories

as a quality factor for standard-compliant methodology and reliable assessments



Over 6000 Employees

worldwide with a global manufacturing & distribution network in North America, Europe and APAC



Foundation-owned Company

with a clear focus on sustainable preservation of the company, constant innovation and secure jobs

Do you have any questions or need a data transmission solution in vehicles?

Please contact us: product-info@md-elektronik.com

www.md-elektronik.com