

# MATE-AX – Miniaturized Automotive Terminals for Coax

## Perfectly Assembled Cables – Our USPs

- › Hybrid cable assemblies
- › (FAKRA (ISO 20860-1) – MATE-AX)
- › Assembly of different cable types such as: RTK031 and RG174
- › Special solutions
- › Globally standardized machinery



## Your Advantages

- › Save up to 70 % of installation space
- › Very high data rate with very short latency time
- › Weight reduction
- › Automated assembly with automated process monitoring

## Technical Information

### Electrical

Screening attenuation	≤ -50 dB up to 6 GHz
Return loss	≤ -15 dB up to 9 GHz
Crosstalk (NEXT)	≤ -50 dB up to 6 GHz

### Mechanical

Engagement force	≤ 55 N
Cable retention force	≥ 100 N (depending on cable)
Angled pull	≥ 75 N
Keying efficiency	≥ 130 N
Dynamic load	Load level 2

### Environmental

Temperature range	-40 °C up to +105 °C (depending on cable)
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Specification according to TE datasheet

## Requirements

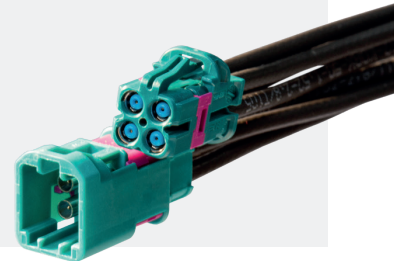
- › Data cables for high-bitrate data transmission according to automotive quality standards while saving installation space and weight.
- › Component tested according to LV 214 / USCAR

## Applications

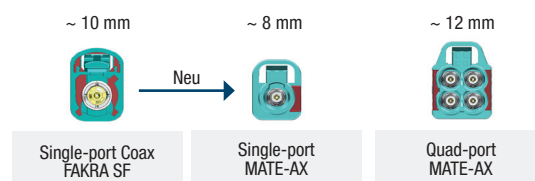
- › Autonomous driving (LiDAR)
- › Rear seat entertainment
- › Driver assistance system
- › Surround view
- › Display applications

## Protocols & Signals

- › LVDS
- › GMSL / FPD-Link
- › APIX 3
- › CoaXPress
- › AM / FM / 5G
- › Bluetooth / Wi-Fi
- › GPS
- › MIPI A-PHY



## Dimensions FAKRA SF and MATE-AX



# 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?  
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