

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 \leq -50 dB up to 6 GHz Return loss \leq -15 dB up to 9 GHz Crosstalk (NEXT) \leq -50 dB up to 6 GHz

Mechanical

Engagement force \leq 55 N Cable retention force \geq 100 N

(depending on cable)

Angled pull $\geq 75 \text{ N}$ Keying efficiency $\geq 130 \text{ N}$ Dynamic load Load level 2

Environmental

Temperature range $-40 \, ^{\circ}\text{C}$ up to $+105 \, ^{\circ}\text{C}$

(depending on cable)

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

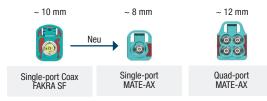
- > Autonomous driving (LiDAR)
- > Rear seat entertainment
- Driver assistance system
- > Surround view
- Display applications

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. 6,000 employees worldwide



Accredited in-house test laboratory