# **HSD** – **High-Speed Data**



## **Perfectly Assembled Cables - Our USPs**

- Automated production line with transfer technology and process monitoring
- > Compliance with the smallest processing tolerances
- Globally standardized machinery
- > Various cable variants available
- Handling of various cable cross-sections, such as 0.14 mm<sup>2</sup>, 0.35 mm<sup>2</sup> and 0.5 mm<sup>2</sup>



## **Your Advantages**

- Robust data transmission with LVDS principle and double shielding
- Less mating processes due to a unit chamber concept and different housings (double HSD, HSD+2, HSD+4, HSD+8)
- Various applications due to various cable variants (static, dynamic, engine compartment)
- > Small installation space with a robust design
- 14 codings and 4 exit directions for all installation space situations

#### **Technical Information**

#### **Electrical**

Return loss > 20 dB, DC up to 1 GHz Screening attenuation  $\geq$  75 dB, DC up to 1 GHz  $\geq$  65 dB, 1 GHz up to 2 GHz

#### Mechanical

Keying efficiency $\geq$  80 NEngagement force $\leq$  30 NRetention force latch $\geq$  110 NMating cycles $\geq$  25

#### **Environmental**

Temperature range -40 °C up to +105 °C Qualification according to LV 214 / USCAR

Specification according to Rosenberger datasheet

## Requirements

2 data pairs for bi-directional data transmission or simultaneous voltage and data supply in a compact design for frequencies up to 3 GHz

## **Applications**

- Cameras
- > ADS / ADAS
- Displays
- > Rear seat entertainment

## **Protocols & Signals**

- , LVDS
- , APIX
- , USB
- > Automotive Ethernet
- > LIN
- FPD-Link
- , GMSL
- PCle



## **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