



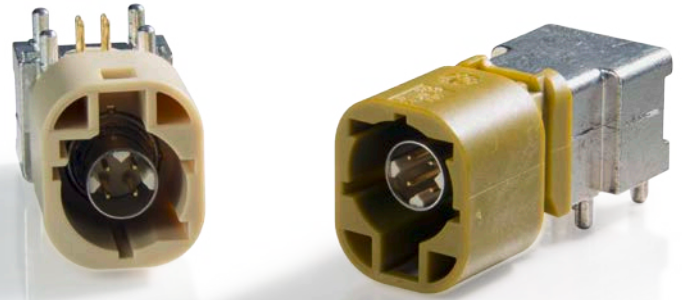
## HSD

# High Speed Data interconnection

Fast, safe and robust

- Very high data bit rate up to 5 Gbit/s
- SSR "smart strain relief" enables unstressed solder joints
- Excellent resistance against cross-talk and RF-EMC

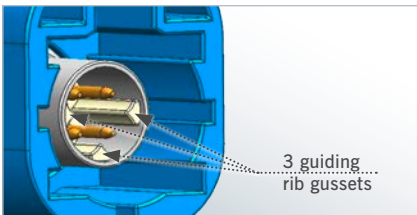




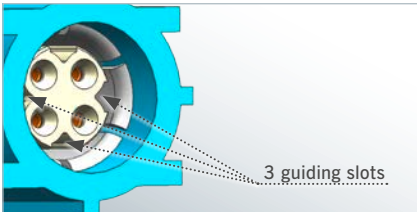
# HSD

## High Speed Data interconnection

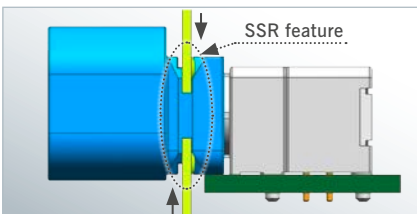
This newly developed digital HSD interconnection enables excellent data transmission via LVDS (low voltage differential signaling) by preventing interference both from cross-talk and other external sources. Due to its optimized shielding concept the 100 Ohm impedance matched interconnection works at a superior level. The product's highlight SSR (smart strain relief) offers a uniquely unstressed soldering joint construction, for PCB types. This SSR feature, in combination with the guiding rib gussets on the connector interface, provide outstanding mechanical mating security and robustness.



Protection of plug pins by "guiding rib gussets"



Protection of jack sockets by "guiding slots"



SSR (smart strain relief) feature

### Product features

- SSR enables unstressed solder joints for PCB types
- Tilt safety
- Very high data bit rate up to 5 Gbit/s
- Excellent resistance against cross-talk and RF-EMC
- Mechanical robustness according to automotive requirements
- THR and THT capable for automated assemblies
- Mechanical and colour coding prevents mismatching
- Primary & secondary locking mechanism ensures highest interconnection security

### Applications

- Infotainment systems
- HD-entertainment systems
- Driver assistance systems
- Telematics applications
- LVDS camera systems
- GVIF video transmission
- IEE 1394, USB, ethernet data links
- Further 100 Ohm high speed data links

### Characteristics

- Data bit rate: up to 5 Gbit/s\*
- Impedance: 100 Ohm
- Near/far end cross talk:  $\leq 33$  dB/ $\leq 28$  dB
- Frequency range: up to 2 GHz
- Return loss: at 1 GHz  $\geq 20$  dB; at 2 GHz  $\geq 17$  dB
- Mating cycles:  $\geq 25$
- Lock retention force:  $\geq 110$  N
- Further details:

Please refer to product data sheets

\* referring to PCB mount plugs

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