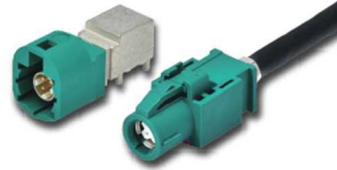


HSD connector

The digital HSD connector system enables excellent data transfer through LVDS (Low Voltage Different signaling) / MHL / Flexray / USB2.0 / USB3.0 / IEEE1394 / Ethernet / APIX / CAN .

The optimized impedance connector system offers a first-class quality : external source of interference and crosstalk are prevented.

The main product Characteristic S.S.R. (Smart Strain Relief), an intelligent strain relief unit, leaves the soldering points free or stain in circuit board connections.



[PRODUCT FEATURE]

- S.S.R. enables unstressed solder joints for PCB types.
- Tilt safety.
- High data bit rate up to 6 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 color coding prevents mismatching.
- Primary and secondary locking mechanism ensures highest interconnection security.

HSD PLUG for P.C.B.

HSD PLUG Vertical for P.C.B.



MATERIAL

- Insulator : Thermo-plastic
- Contacts : Copper alloy
- Shell : Zinc alloy

CONTACT PLATING

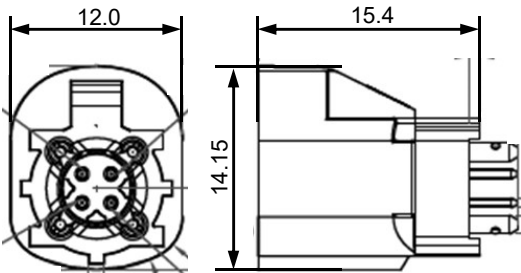
- Contact area : Gold Flush
- Solder tails area : Tin

ELECTRICAL

- Impedance, differential mode: 100 Ω differential signaling, for one pair or quad cable shielded
- Frequency : DC to 2.0 GHz
- Return loss : ≥ 20 dB to 1.0 GHz, ≥ 17 dB to 2.0 GHz
- Insertion loss : ≤ 0.1 dB @ 1.0 GHz
- Insulation resistance : 1000 M Ω Min.
- Signal contact resistance : 10 m Ω Max.
- Temperature range : -40 degree to +105 degree

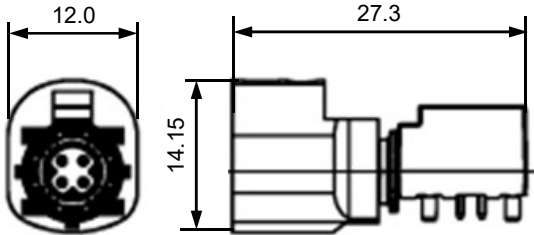
MECHANICAL

- Mating Cycles : 25 Cycles Max.
- Engagement force : 30 N Max.
- Disengagement force : 5 N Min.
- Retention force latch : 110 N Min.
- Coding efficiency : 80 N Min.



HSD PLUG for P.C.B.

**HSD PLUG R/A
for P.C.B.**



MATERIAL

- Insulator : Thermo-plastic
- Contacts : Copper alloy
- Shell : Zinc alloy

CONTACT PLATING

- Contact area : Gold Flush
- Solder tails area : Tin

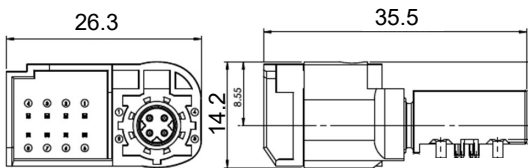
ELECTRICAL

- Impedance, differential mode : 100 Ω differential signaling, for one pair or quad cable shielded
- Frequency : DC to 2.0 GHz
- Return loss : ≥ 20 dB to 1.0 GHz, ≥ 17 dB to 2.0 GHz
- Insertion loss : ≤ 0.1 dB @ 1.0 GHz
- Insulation resistance : ≥ 1000 M Ω
- Signal contact resistance : ≤ 10 m Ω
- Temperature range : -40 degree to +105 degree

MECHANICAL

- Mating Cycles : 25 Cycles
- Engagement force : ≤ 30 N
- Disengagement force : ≥ 5 N
- Retention force latch : ≥ 110 N
- Coding efficiency : ≥ 80 N

**HSD + MQS 8pin,
PLUG R/A
for P.C.B.**



MATERIAL

- Insulator : Thermo-plastic
- Contacts : Copper alloy
- Shell : Zinc alloy

CONTACT PLATING

- Contact area : Gold Flush
- Solder tails area : Tin

ELECTRICAL

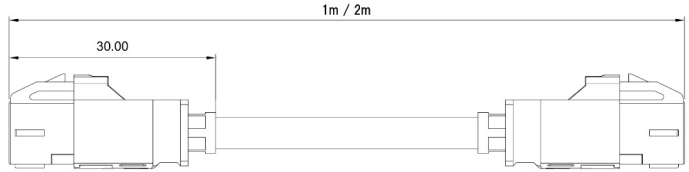
- Impedance, differential mode: 100 Ω differential signaling, for one pair or quad cable shielded
- Frequency : DC to 2.0 GHz
- Return loss : ≥ 20 dB to 1.0 GHz, ≥ 17 dB to 2.0 GHz
- Insertion loss : ≤ 0.1 dB @ 1.0 GHz
- Insulation resistance : 1000 M Ω Min.
- Signal contact resistance : 10 m Ω Max.
- Temperature range : -40 degree to +105 degree

MECHANICAL

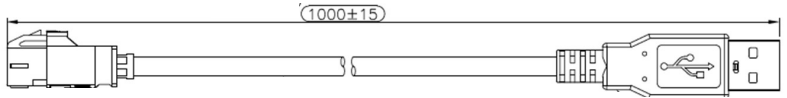
- Mating Cycles : 25 Cycles Max.
- Engagement force : 30 N Max.
- Disengagement force : 5 N Min.
- Retention force latch : 110 N Min.
- Coding efficiency : 80 N Min.

HSD for CABLE

HSD JACK to HSD JACK (1m , 2m)



HSD JACK to USB 2.0 A type Male



HSD JACK to USB 2.0 A type Female

