

# PRODUCT INFORMATION

## HSD 180° CONNECTORS



- HSD connectors is a 100 Ohm controlled connection system for High Speed Data transfer. They are designed for a differential signal transmission, suitable for symmetrical & shielded cables, based on the "star quad" principle with following fields of application:
  - Mobile entertainment
  - Driver information & assistance systems
  - C2C Communication
  - USB connection
  - LVDS Cameras
  - Telematics
  - IEEE 1394 Applications (FireWire)
  - Flat-panel displays for digital infotainment applications
  - Bus systems (Data transfer inside a computer)
- High Speed Data transfer up to 1.9 Gbit/s
- Primary and secondary locking mechanisms
- Different codings for error free mating
- High cable retention force
- Coding effectiveness
- Suitable for fully automated assembling
- Deep drawn external conductor
- Compatible with German Arbeitskreis (AK) HSD interface

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### ELECTRICAL SPECIFICATIONS

Impedance	100 Ω
Frequency	DC to 2 GHz
Return loss	≥ 20 dB (1GHz) ≥ 17 dB (2GHz)
Insertion loss	≥ 0,1 dB @1GHz
Skew (between signal contacts)	≤ 5 ps
Nearend-crosstalk	≤ 30 dB
Farend-crosstalk	≤ 35 dB
Contact resistance (inner contact)	≤ 10 mΩ
Contact resistance (outer contact)	≤ 7,5 mΩ
Insulation resistance	≥ 1,000MΩ
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1,5 A DC
RF-Leakage	≥ 65 dB to 1GHz ≥ 60 dB to 2GHz





### MECHANICAL SPECIFICATIONS

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 5 N & ≤ 25 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 50 N
Cable retention force	≥ 110 N
Coding efficiency	≥ 80 N
Temperature range	-40°C to +105°C
Temperature & humidity	Acc. to LV214-1 PG19
High temperature exposure	Acc. to LV214-1 PG21
Vibrations	Acc. to LV214-1 PG17
Suitable cables	FL9YBC11Y 4x 0,14sn-A FL9YBCY 4x 0,14sn-A DACAR 535/ 535-2 & similar

### ROKA No. Male plug

510 335 0	Plug tube, UOP 1k box	
500 134 0	Support clamp, ~2,5k reel	
510 337 0	Contact carrier, UOP 1k box	
510 336 0	Inner contact, ~20k reel	
510 338 A-Z	Housing, different codings, UOP 1k box	

### ROKA No. Female plug

520 335 0	Jack tube, UOP 1k box	
500 134 0	Support clamp, ~2,5k reel	
520 337 0	Contact carrier, UOP 1k box	
520 336 0	Inner contact, ~20k reel	
520 338 A-Z	Housing, different codings, UOP 1k box	