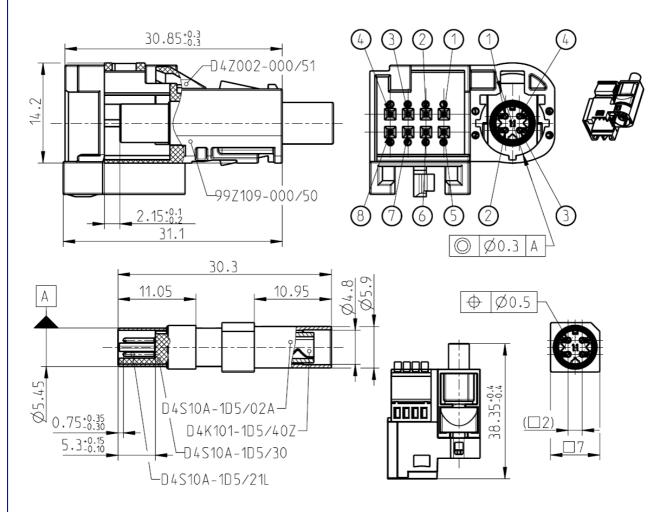
TECHNICAL DATA SHEET

Rosenberger

HSD

STRAIGHT PLUG WITH MQS CONTACTS

99S15A-1D5A5-Y



All dimensions are in mm; tolerances according to ISO 2768 m-H EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

Interface

side according to

RN 066-02

Documents

Assembly instruction
Pinning instruction
Test specification – HSD side

MA_D4V033 RN_053-01 RN 061-01 **Preliminary**

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STRAIGHT PLUG WITH MQS **CONTACTS**

99S15A-1D5A5-Y

Material and plating

Connector parts

Center contact

Outer contact Dielectric

Crimping ferrule

Housing Secondary lock **Material Plating**

Gold, 0.15 µm (Interface) Spring bronze

Tin, min.1µm (Crimp)

Nickel, 3-6 µm

PA12 Spring bronze

Brass

PBT

PBT

Tin, 0.5-2 µm

Electrical data HSD side

Impedance, even mode

Impedance, differential mode

Frequency Return loss

Insertion loss

Skew (between signal contacts)

Nearend-Crosstalk Farend-Crosstalk Insulation resistance Signal contact resistance Outer contact resistance Test voltage

Working voltage Test current capability at 80°C

Test current capability at 80°C MQS pins

RF-leakage (shielding effectiveness)

 \approx 32 Ω common mode only

100 Ω differential signalling, for one pair or quad cable **shielded**

DC to 2.0 GHz \geq 20 dB to 1.0 GHz \geq 17 dB to 2.0 GHz

 $\leq 0.1 \text{ dB} @ 1.0 \text{ GHz}$

≤ 20 psec. (can be reduced by layout)

≤ 30 dB \leq 35 dB $\geq 1 \times 10^3 \text{ M}\Omega$ \leq 10 m Ω \leq 7.5 m Ω 500 V rms 100 V rms ≤ 1.5 A DC

≤ 5.0 A DC (dependent on mating connector and cable)

≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data HSD side

Mating cycles ≥ 25 Engagement force each contact 30 N Disengagement force each contact 5 N Retention force latch ≥ 110 N Coding efficiency ≥ 80 N

Environmental data

Temperature range Thermal shock

Temperature and humidity

Vibration (Random) Mechanical Shock High-Temp. Exposure 2002/95/EC (RoHS)

-40°C to +105°C

DIN IEC 60068-2-14 Test Na

USCar 2 – 4 5.6.2 DIN IEC 60068-2-64 DIN IEC 60068-2-27 DIN IEC 60068-2-2 compliant

Tooling

Crimping tool on request Crimp insert on request **Preliminary**

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TECHNICAL DATA SHEET

Rosenberger

HSD

STRAIGHT PLUG WITH MQS CONTACTS

99S15A-1D5A5-Y

Suitable cables

Cable type

Dacar 535

Packing

Standard Weight TBD in Box 10.3 g/pce

Preliminary

Coding

Part Number has to be accomplished by codification

Standard coding	Plug	Colour	RAL	Part-Number		
A (A+A)	Ö	graphite black	sim. 9011	99S15A-1D5A5-A		
B (B+B)		creme	sim. 9001	99S15A-1D5A5-B		
C (C+C)		light blue	sim. 5012	99S15A-1D5A5-C		
D (D+D)		bordeauxviolet	sim. 4004	99S15A-1D5A5-D		
Z		waterblue	sim. 5021	99S15A-1D5A5-Z		

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engine
Volker Pangritz	03/12/10	W. Lankes	29/11/11	100	

Rev.Engineering change numberNameDate10011-v025Volker Pangritz29/11/11