

All dimensions are in mm

Interface

According to

RN_059-01

Documents

Pinning instruction

RN_053-01

Panel piercing

MB_680

Test specification

RN_061-01

Material and plating

Connector parts

Center contact

Material

Brass

Plating

Gold, 0.15 μ m (Interface)

Outer contact 1 (Interface)

Brass

Tin, min. 1.0 μ m (PCB)

Outer contact 2 (PCB)

Zinc alloy

Ni min. 3 μ m

Dielectric

LCP

Tin min. 2 μ m, over Ni

Housing

HTN

Electrical data*

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 6.0 GHz
Return loss	≥ 30 dB to 3.0 GHz ≥ 25 dB to 6.0 GHz ≥ 20 dB to 8.0 GHz ≥ 15 dB to 10.0 GHz
Insertion loss	≤ 0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 25 psec.
Nearend-Crosstalk	≤ -40 dB to 3.0 GHz ≤ -30 dB to 6.0 GHz
Farend-Crosstalk	≤ -40 dB to 1.0 GHz ≤ -35 dB to 3.0 GHz ≤ -30 dB to 6.0 GHz
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage	500 V rms
Working voltage	60 V rms
Power current	≤ 1.5 A DC
RF-leakage (shielding effectiveness)	≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7)

* Connector only, VSWR in application depends decisive on PCB layout

Mechanical data

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

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	IEC 60068-2-14 Test Na
Temperature and humidity	USCar 2, Rev. 4, 5.6.2
Vibration (Random)	IEC 60068-2-64 (class 2)
Mechanical Shock	IEC 60068-2-27
High-Temp. Exposure	IEC 60068-2-2 (temperature +105°C)
Soldering profile	acc. to IEC 60068-2-58; Group 3 (250°C/30s)
RoHS	compliant

Packing

Standard	200 pcs in tape & reel
Weight	8,0 g/pce

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RF_35/09_14/6.2

Technical Data Sheet

Rosenberger








Rosenberger
HSD®

RIGHT ANGLE PLUG
FOR PCB

D4S23M-40MA5-Y

Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S23M-40MA5-A
B		white	sim. 9001	D4S23M-40MA5-B
C		blue	sim. 5005	D4S23M-40MA5-C
D		bordeaux	sim. 4004	D4S23M-40MA5-D
E		green	sim. 6002	D4S23M-40MA5-E
F		brown	sim. 8011	D4S23M-40MA5-F
Z		waterblue	sim. 5021	D4S23M-40MA5-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.	Engineering change number	Name	Date
P. Schroeder	17.10.16	F.Westenkirchner	29.11.19	400	19-1836	M. Rolshausen	29.11.19

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