

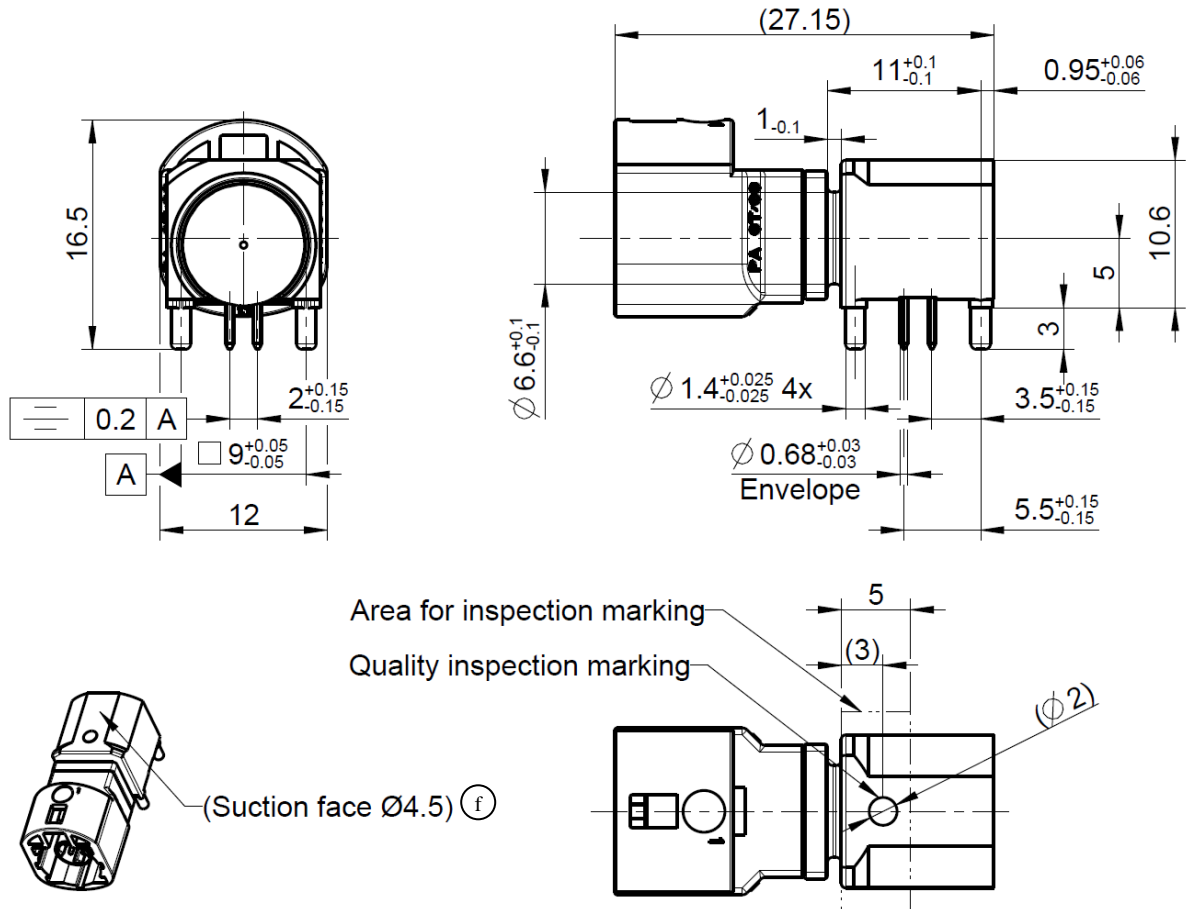
Technical Data Sheet

Rosenberger

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HSD®

RIGHT ANGLE PLUG
FOR PCB

D4S20G-400A5-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

According to RN_059-01

Documents

Assembly instruction	D4V013
Panel piercing	MB_261
Pinning instruction	RN_053-01
Test specification	RN_061-01

Material and plating

Connector parts

Center contact

Outer contact (Interface)

Outer contact (PCB)

Cover

Dielectric

Housing

Material

Spring bronze

Brass

Zinc Alloy

Alpaca

LCP

PA 6T/66

Plating

Gold, 0.15 µm (Interface)

Tin, 0.5-2 µm (PCB)

Nickel, 3-6 µm

Tin, 2-5 µm, over nickel 1-5 µm

Electrical data

Impedance, differential mode

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

Frequency

DC to 2.0 GHz

Return loss

≥ 20 dB, DC to ≤ 1 GHz
≥ 17 dB, > 1 GHz to ≤ 2 GHz

Insertion loss

≤ 0.1 dB @ 1.0 GHz

Skew (between signal contacts)

≤ 5 psec

Nearend-Crosstalk

≤ 30 dB

Farend-Crosstalk

≤ 35 dB

Insulation resistance

≥ 1x10³ MΩ

Signal contact resistance

≤ 10 mΩ

Outer contact resistance

≤ 7.5 mΩ

Test voltage

250 V rms

Working voltage

100 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)

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

DIN IEC 60068-2-14 Test NA

Temperature and humidity

USCar 2 – 4 5.6.2

Vibration (Random)

DIN IEC 60068-2-64

Mechanical shock

DIN IEC 60068-2-27

High-Temp. Exposure

DIN IEC 60068-2-2

Soldering profile

acc. to IEC 60068-2-58; Group 3&4

RoHS

compliant

Packing

Standard

175 pcs in tape & reel








1050 pcs (175 pcs in tape & reel, 6 reels in box) g

Weight

8.6 g

Coding

Part number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S20G-400A5-A
B		white	sim. 9001	D4S20G-400A5-B
C		blue	sim. 5005	D4S20G-400A5-C
D		bordeaux	sim. 4004	D4S20G-400A5-D
E		green	sim. 6002	D4S20G-400A5-E
F		brown	sim. 8011	D4S20G-400A5-F
Z		waterblue	sim. 5021	D4S20G-400A5-Z

Coding for special use

Part number has to be accomplished by codification

Control box manufacturer is responsible for pinning

Coding	Plug	Colour	RAL	Part-Number
G		grey	sim. 7031	D4S20G-400A5-G
H		violet	sim. 4003	D4S20G-400A5-H
J		beige	sim. 1001	D4S20G-400A5-J
O		light green	sim. 6027	D4S20G-400A5-O

h

Change History

Rev.	Date	Change
f00	09.05.16	Note "Suction face Ø4.5" changed to "(Suction face Ø4.5)"
g00	02.06.16	Bundle size changed from "1200 pcs in box (6 X 200 pcs in blister tray)" To "1050 pcs in box (6 x 175 pcs/reel)"
h00	07.12.20	Coding J added

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Bippus	11.06.07	T. Georg	07.12.20	h00	20-2333	M. Jacobs	07.12.20

RF_35/09_14/6.2