



All dimensions are in mm; tolerances according to ISO 2768 m-H

General data

Connector

D-SUB High Voltage Plug for cable with max. \varnothing 7.8 mm

8 pins for power transmission; solder type; wires max. AWG 28

2 pins for HVIL (High Voltage Interlock Loop);
solder/crimp type; wires max. AWG 26

Pluggable with D-SUB High Voltage receptacle 99K076-299A5

Documents

Rosenberger:

Applicable document	Designation
99S114-299	Production drawing
MA_99S114-299	Assembly instruction

99

D-SUB High Voltage Connector
(Cable Plug)

99S114-299A5

Material data

Connector parts

Spring loaded HVIL pin:

- Piston
- Ferrule
- Spring

Power pin

Insulator

Cable grommet

Clamp

D-Sub housing (top & bottom)

D-Sub front

Screw

Jackscrew

Material

Brass
Brass
Steel
Brass
Grivory XE4063
Brass
Brass
Steel
Steel
Steel
Steel

Plating

0.25µm Au over 2.5µm NiP
0.25µm Au over 2.5µm NiP
0.1µm Au over 2.5µm NiP
AuroDur®, gold plated
Nickel
Nickel

RoHS

Compliant

Electrical data

High voltage pin:

Operating voltage 5,000 V rms
Peak voltage 7,000 V rms
Operating current 1.5 A
Peak current 2.0 A

HVIL pin:

Max. voltage 48 V rms
Max. current 1.5 A

Insulation resistance

≥ 5 x10³ MΩ

Mechanical data

Mating cycles

> 500

Environmental data

Temperature range

-25°C to + 75°C

Suitable cables

RTK 014

Rosenberger High Voltage cable (with 8 single coaxial wires)

Packing

Standard

1 pce in plastic bag
20 bags in box

Weight

117.9 g/pce

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
H. Wurm	25.10.12	H. Wurm	31.01.18	b00	18-0206	A.Schuster	31.01.18

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