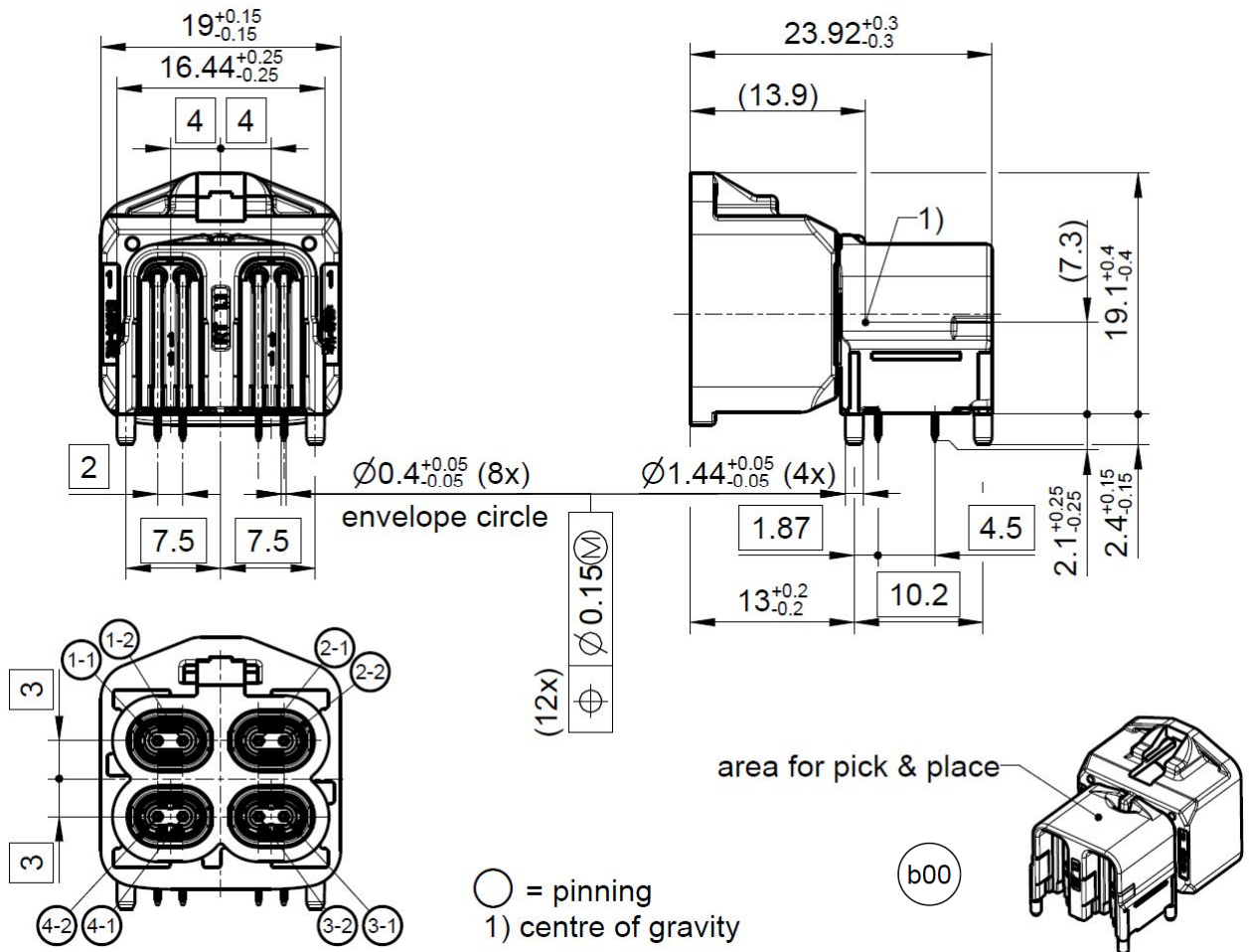




All dimensions are in mm

Documents

Interface	RN_121-04
Panel piercing	MB_869
Pinning	RN_143-04
Tape & reel packaging	VG520.11000

Material and plating

Connector parts

Signal contact

Material

Brass

Plating / Colour

Gold, min. 0.12 µm, over Nickel (Interface)
Tin, min. 3 µm, over Nickel (PCB)
Tin, min. 3 µm, over Nickel
Tin, min. 3 µm
nature
nature
see section "Coding"

Outer contact
Screening shield
Dielectric (short channel)
Dielectric (long channel)
Housing

Zinc alloy
Steel
LCP
HTN
HTN

Electrical data

Impedance	100 Ω
Frequency	DC to 10 GHz
Return loss	≥ 30 dB, 0.01 GHz to 3 GHz
	≥ 25 dB, 3 GHz to 6 GHz
	≥ 20 dB, 6 GHz to 10 GHz
Insulation resistance	≥ 100 M Ω
Signal contact resistance	≤ 10 m Ω
Outer contact resistance	≤ 7.5 m Ω
Working voltage	≤ 60 V DC
Power current	≤ 1.5 A DC

Connector only, electrical data in application depends decisively on PCB layout

Mechanical data

Mating cycles	min. 25
Engagement force	≤ 45 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N
Weight	14.5 g

Environmental data

Temperature range	- 40 °C to + 105 °C
Thermal shock	DIN EN 60068-2-14
Humidity	DIN EN 60068-2-30 @ +40 °C
Dry heat	DIN EN 60068-2-2 @ +105 °C
Vibration	DIN EN 60068-2-64
Mechanical shock	DIN EN 60068-2-27
Soldering profile	DIN EN 60068-2-58; Group 3 (250 °C / 30 sec.)
RoHS	compliant

Packing

Standard	110 pcs in tape & reel
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Change history

Revision	Description	Position
b00	quality inspection marking removed	Sheet 1

Technical Data Sheet

Rosenberger

H-MTD®

RIGHT ANGLE PLUG
FOR PCB

E6S20D-40MT5-Y

Coding

Part number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		jet black	sim. 9005	E6S20D-40MT5-A
B		pure white	sim. 9010	E6S20D-40MT5-B
C		light blue	sim. 5012	E6S20D-40MT5-C
D		claret violet	sim. 4004	E6S20D-40MT5-D
E*		may green	sim. 6017	E6S20D-40MT5-E
F*		nut brown	sim. 8011	E6S20D-40MT5-F
G*		platinum grey	sim. 7036	E6S20D-40MT5-G
H*		light pink	sim. 3015	E6S20D-40MT5-H
J*		beige	sim. 1001	E6S20D-40MT5-J
K*		curry	sim. 1027	E6S20D-40MT5-K
L*		yellow green	sim. 6018	E6S20D-40MT5-L
M*		pastel orange	sim. 2003	E6S20D-40MT5-M
O*		light green	sim. 6027	E6S20D-40MT5-O
Z		water blue	sim. 5021	E6S20D-40MT5-Z

* Coding on request

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
J. Schmid	18.04.2017	A. Görzen	27.05.2025	b00	25-0480	P. Schroeder	27.05.2025
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