

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 MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
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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**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	S. Mittermeier	04.02.2022	a00	22-s048	M. Steinbach	04.02.2022