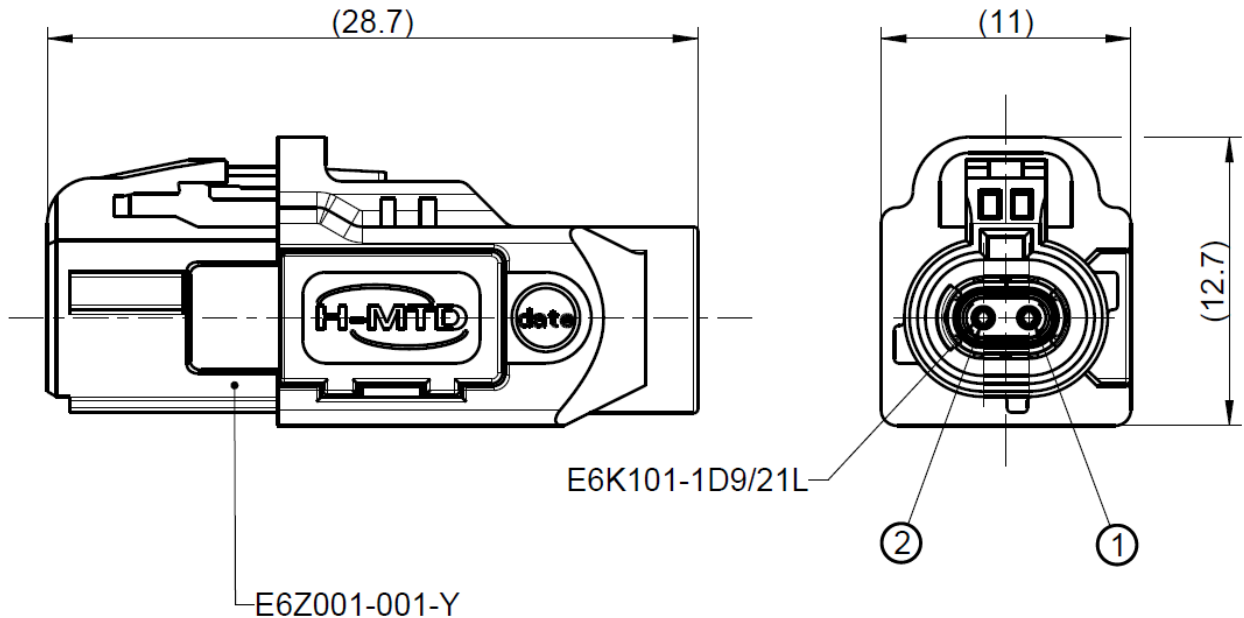




Preliminary

○ = pinning

All dimensions are in mm

Interface

According to

RN_121-01

Documents

Assembly instruction

MA_E6V001

Test specification

TBD

Material and plating

Connector parts

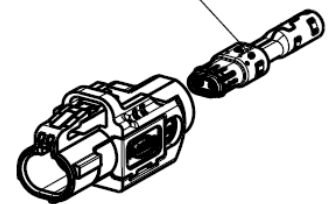
Inner contact
Outer contact 1 (Protection ring)
Outer contact 2 (Interface)
Outer contact 3 (Crimp)
Dielectric
Housing
Secondary lock

Material

Spring bronze
Spring bronze
Spring bronze
Steel
PA
PBT
PBT

Plating

Gold, min. 0.15 µm, over chemical nickel
Tin, 1,5-3 µm
Tin, 1,5-3 µm
Tin, 1,5-3 µm



Electrical data

Impedance	100 Ω
Frequency	DC to 1 GHz
Return loss *	≥ 30 dB, DC to 1 GHz
	TBD, DC to 15 GHz
Skew	TBD
Insulation resistance	$\geq 1 \times 10^3$ M Ω
Signal contact resistance	≤ 10 m Ω
Outer contact resistance	≤ 7.5 m Ω
Test voltage (at sea level)	250 V rms
Working voltage (at sea level)	100 V rms
Power current	$\leq 1,5$ A DC
RF-leakage	TBD

* Limitations are possible due to the used cable type and termination

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 80 N
Coding efficiency	≥ 80 N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14
Humidity	DIN EN 60068-2-30 @ +40°C
Dry heat	DIN EN 60068-2-2 @ +105°C
Vibration	DIN IEC 60068-2-64 Class 1
Mechanical Shock	DIN IEC 60068-2-27 Class 1

Tooling

Crimping tool	TBD
Crimp insert	TBD

Suitable cables

Dacar 647

Packing

Standard	TBD
Weight	3g/pcs

Preliminary

Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		black	sim. 9005	E6K101-1AQZ5-A
B*		white	sim. 9010	E6K101-1AQZ5-B
C*		blue	sim. 5012	E6K101-1AQZ5-C
D*		bordeauxviolet	sim. 4004	E6K101-1AQZ5-D
E*		green	sim. 6017	E6K101-1AQZ5-E
F*		brown	sim. 8011	E6K101-1AQZ5-F
G*		grey	sim. 7036	E6K101-1AQZ5-G
H*		light pink	sim. 3015	E6K101-1AQZ5-H
J*		beige	sim. 1001	E6K101-1AQZ5-J
K*		curry	sim. 1027	E6K101-1AQZ5-K
L*		yellow green	sim. 6018	E6K101-1AQZ5-L
M*		pastel orange	sim. 2003	E6K101-1AQZ5-M
O*		light green	sim. 6027	E6K101-1AQZ5-O
Z		water blue	sim. 5021	E6K101-1AQZ5-Z

* Coding on request

Preliminary

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	17.11.16	J. Schmid	11.12.17	100	17-m259	M. Rolshausen	11.12.17
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