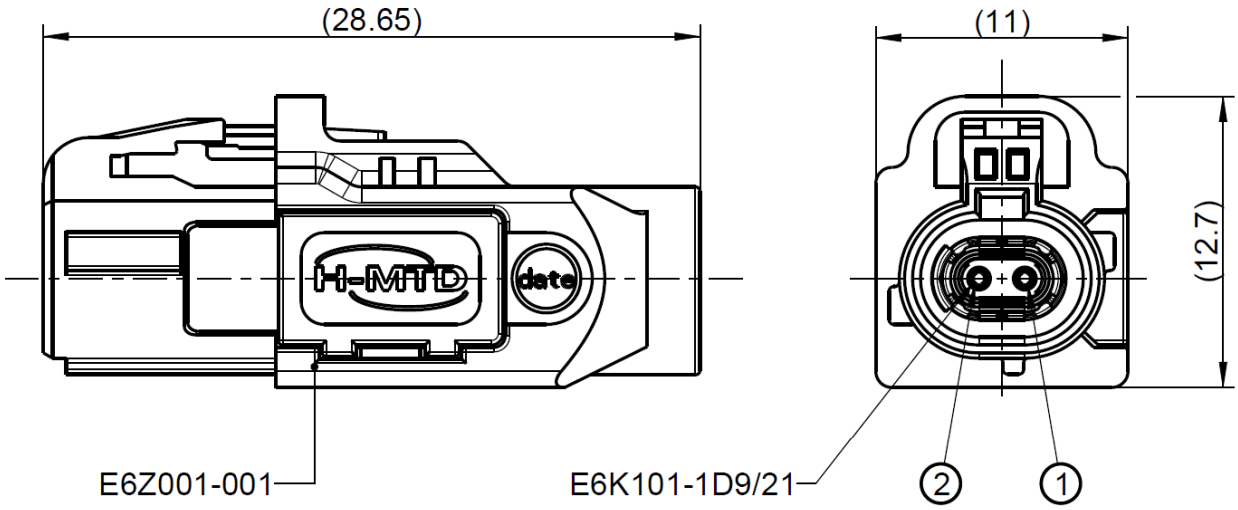
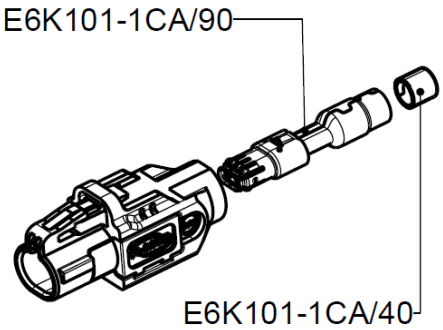
Technical Data Sheet		Rosenberger
H-MTD®	STRAIGHT JACK	**E6K101-1CAZ5-Y**





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	**Material**	**Plating**
Inner contact	Spring bronze	Gold, min. 0.15 µm, over chemical nickel
Outer contact 1 (Interface)	Spring bronze	Tin, 1,5-3 µm
Outer contact 2 (Crimp)	Steel	
Dielectric	PA	
Crimping ferrule	Steel	Tin, 1,5-3 µm
Housing	PBT	
Secondary lock	PBT	

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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	≥ 1 x10^3 MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage (at sea level)	250 V rms
Working voltage (at sea level)	100 V rms
Power current	≤ 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 686-3, Dacar 666-1, GG X9305

Packing

Standard	TBD
Weight	3g/pcs

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Coding

Part Number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		black	sim. 9005	E6K101-1CAZ5-A
B*		white	sim. 9010	E6K101-1CAZ5-B
C*		blue	sim. 5012	E6K101-1CAZ5-C
D*		bordeauxviolet	sim. 4004	E6K101-1CAZ5-D
E*		green	sim. 6017	E6K101-1CAZ5-E
F*		brown	sim. 8011	E6K101-1CAZ5-F
G*		grey	sim. 7036	E6K101-1CAZ5-G
H*		light pink	sim. 3015	E6K101-1CAZ5-H
J*		beige	sim. 1001	E6K101-1CAZ5-J
K*		curry	sim. 1027	E6K101-1CAZ5-K
L*		yellow green	sim. 6018	E6K101-1CAZ5-L
M*		pastel orange	sim. 2003	E6K101-1CAZ5-M
O*		light green	sim. 6027	E6K101-1CAZ5-O
Z		water blue	sim. 5021	E6K101-1CAZ5-Z

** Coding on request*

Preliminary

Draft	Date	Approved	Date
J. Schmid	02.04.18	J. Schmid	19.04.18

Rev.	Engineering change number	Name	Date
100	17-m259	C. Giwolies	19.04.18

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