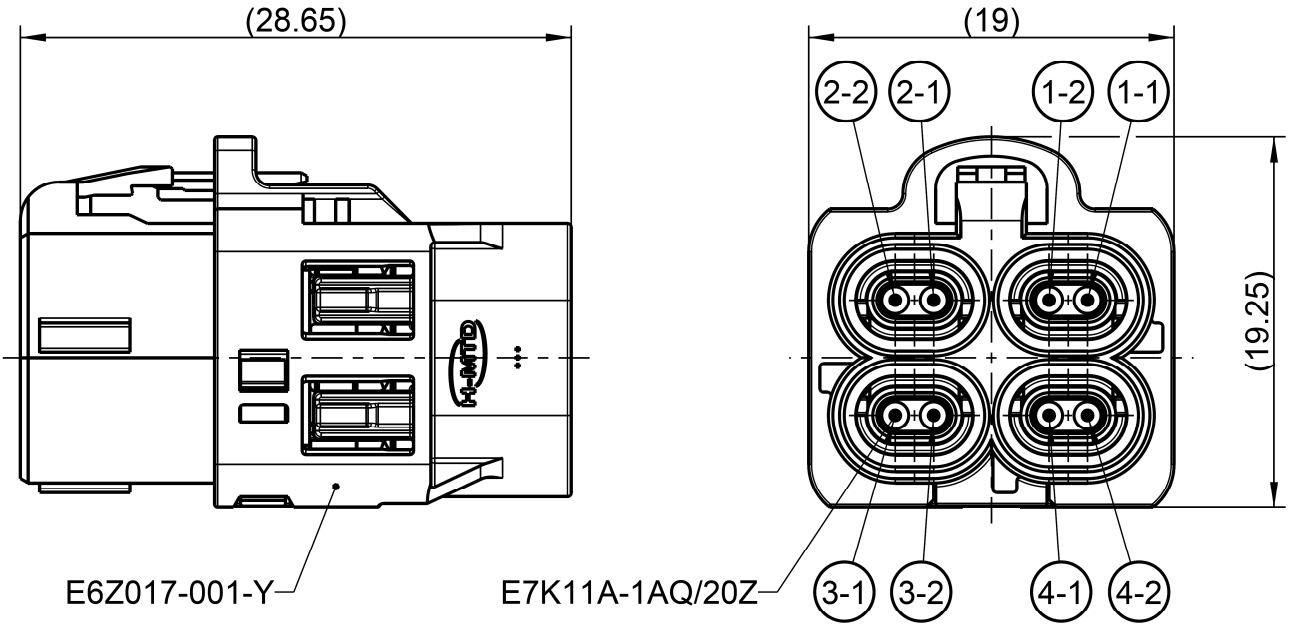
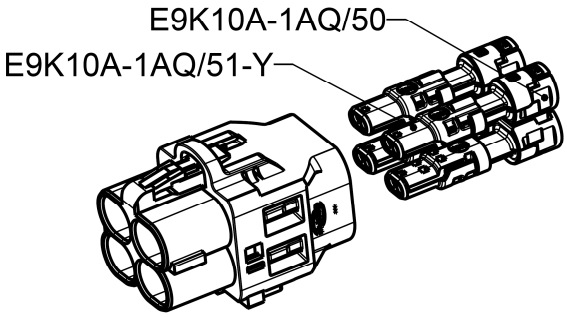
Technical Data Sheet		Rosenberger
H-MTD®e	STRAIGHT JACK	**E9K10D-1AQX5-Y**





◯ = pinning

All dimensions are in mm

Documents

Interface	RN_121-04
Assembly instruction	MA_E9V001
Pinning	RN_143-04

Material and plating

Connector parts	**Material**	**Plating / Colour**
Signal contact	Bronze	Gold, 0.15 µm, over Nickel (Interface) Tin, min. 1 µm, over Nickel (Crimp)
Housing	PBT-GF20	see section “Coding”
Upper housing	PK-GF30	depending on coding of upper housing
Lower housing	PK-GF30	grey, sim. RAL 7000
Secondary lock	PBT-GF30	traffic purple, sim. RAL 4006

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Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

Electrical data

Differential impedance	100 Ω ± 5% at 500 ps rise time		
Frequency range	DC to 1.0 GHz		
Return loss	≥ 38 dB	1 MHz to	75 MHz
	$\geq 20 - 20\log(\frac{f}{600})$ dB	75 MHz to	600 MHz
Insertion loss	$\leq 0.01\sqrt{f}$ dB	1 MHz to	600 MHz
Mode conversion loss	≥ 55 dB	10 MHz to	50 MHz
	$\geq 89 - 20\log(f)$ dB	50 MHz to	600 MHz
PSANEXT loss	≥ 57 dB	1 MHz to	100 MHz
	≥ 37.8 dB	100 MHz to	600 MHz
PSAFEXT loss	$\geq 46.67 - 20\log(\frac{f}{100})$ dB	1 MHz to	600 MHz
AFEXTDC loss	≥ 50 dB	10 MHz to	80 MHz
	$\geq 72 - 11.51\ \log(f)$	80 MHz to	600 MHz
Insulation resistance	≥ 100 MΩ		
Signal contact resistance	≤ 10 mΩ		
Test voltage	250 V rms		
Working voltage	≤ 60 V DC		
Power current	≤ 1.5 A DC		

Connector only, electrical data in application depends decisively on cable type

Mechanical data

Mating cycles	min. 25
Engagement force	≤ 25 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 80 N
Retention force secondary lock	≥ 120 N
Coding efficiency	≥ 225 N
Weight	6.9 g

Environmental data

Temperature range	-40 °C to +105 °C
RoHS	compliant

Tooling

acc. to assembly instruction

Suitable cables

GG 2Speed® 132

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Coding

Part number has to be accomplished by codification

Coding	Jack	Colour	RAL	Part-Number
A		jet black	sim. 9005	E9K10D-1AQX5-A
B		pure white	sim. 9010	E9K10D-1AQX5-B
C		light blue	sim. 5012	E9K10D-1AQX5-C
D*		claret violet	sim. 4004	E9K10D-1AQX5-D
E*		may green	sim. 6017	E9K10D-1AQX5-E
F*		nut brown	sim. 8011	E9K10D-1AQX5-F
G*		platinum grey	sim. 7036	E9K10D-1AQX5-G
H*		light pink	sim. 3015	E9K10D-1AQX5-H
J*		beige	sim. 1001	E9K10D-1AQX5-J
K*		curry	sim. 1027	E9K10D-1AQX5-K
L*		yellow green	sim. 6018	E9K10D-1AQX5-L
M*		pastel orange	sim. 2003	E9K10D-1AQX5-M
O*		light green	sim. 6027	E9K10D-1AQX5-O
Z		water blue	sim. 5021	E9K10D-1AQX5-Z

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