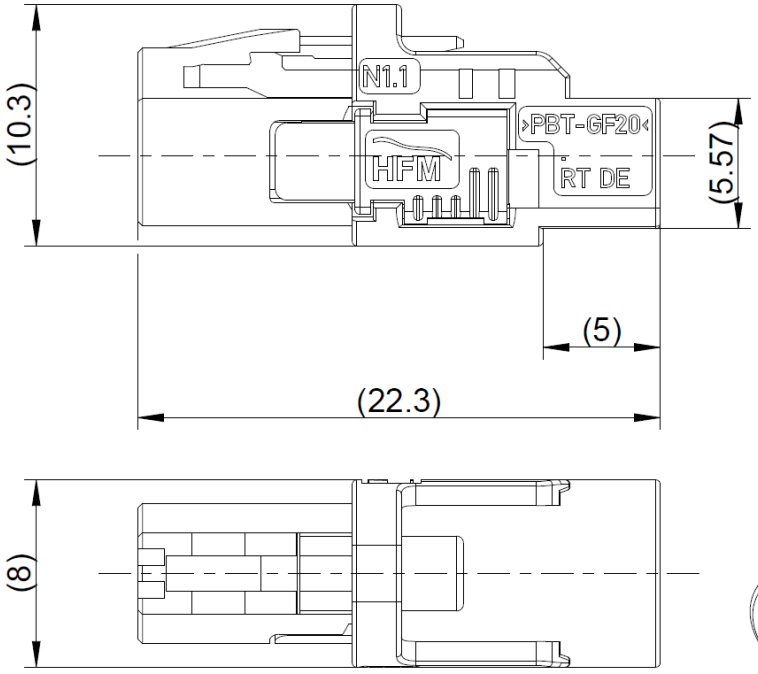
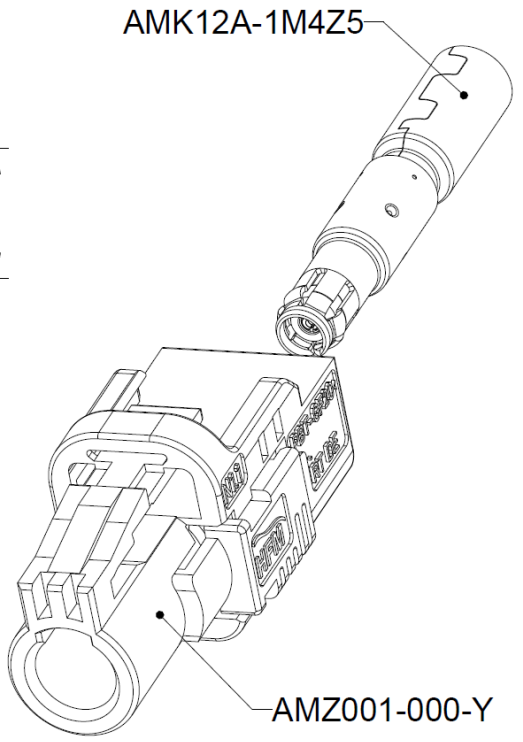
Technical Data Sheet	Rosenberger
HFM® High-Speed FAKRA Mini	STRAIGHT JACK w. HOUSING
	AMK12A-1M4Z5-Y





All dimensions are in mm

Interface

According to	RN_108-01

Documents

Assembly instruction	MA_AMV003

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Spring bronze	
- Interface		Gold, min. 0.15 µm, over chemical nickel
- Crimp area		Tin, min. 1 µm, over chemical nickel
Outer contact (contact part)	Spring bronze	Tin, 1.5-3 µm
Outer contact (crimp part)	Stainless steel	Tin, 1.5-3 µm
Dielectric	PA12-GB30	
Crimping sleeve	Stainless steel	none
Housing	PBT-GF20	
Secondary lock	PBT-GF20	

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Electrical data

Impedance	50 Ω
Frequency	DC to 15 GHz
Return loss	≥ 25 dB, DC to ≤3 GHz ≥ 20 dB, >3 GHz to ≤6 GHz ≥ 15 dB, >6 GHz to ≤12 GHz ≥ 12 dB, >12 GHz to ≤15 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 1x10^3 MΩ
Center contact resistance	≤ 15 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	≤ 800 V rms
Working voltage	≤ 60 V DC
Power current	≤ 1 A DC

- Limitations are possible due to the used cable type -
- Measurement procedure according to RN_107-1 -

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 15 N*
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 80 N
Retention force secondary lock	≥ 80 N
Coding efficiency	≥ 150 N

** according to USCAR 25 Rev. 3 and the tests specified in USCAR 17 Rev.5 TG-G*

Environmental data

Temperature range	-40°C to + 105°C
Thermal shock	ISO 20860-2 clause 9.2
Temperature and humidity	ISO 20860-2 clause 9.3
Vibration and mechanical shock	ISO 20860-2 clause 9.1
Dry heat	ISO 20860-2 clause 9.4
RoHS	compliant

- Limitations are possible due to the used cable type -

Tooling

Crimp dimension acc. to assembly instruction

Series tool:

Crimping applicator (AMK12A-1M4/90)	11WR024_A
Crimping applicator (AMK12A-1M4/21)	11WB013_A
Crimping applicator (AMK12A-1M4/41)	11WS001_A

Hand tool:

Crimping applicator	AMW001-SET

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Suitable cables

Dacar 302, Dacar 302-3, G&G 59998

Packing

Standard (optional)	N/A
Weight	1.5 g / pce

Coding

Part Number must be accomplished by codification

Coding		Color	RAL	Part-Number-RT
	A	black	sim. 9005	AMK12A-1M4Z5-A
	B	white	sim. 9010	AMK12A-1M4Z5-B
	C	blue	sim. 5012	AMK12A-1M4Z5-C
	D	bordeauxviolet	sim. 4004	AMK12A-1M4Z5-D
	E	green	sim. 6017	AMK12A-1M4Z5-E
	F	brown	sim. 8011	AMK12A-1M4Z5-F
	G	grey	sim. 7036	AMK12A-1M4Z5-G
	H	light pink	sim. 3015	AMK12A-1M4Z5-H
	J	beige	sim. 1001	AMK12A-1M4Z5-J
	K	curry	sim. 1027	AMK12A-1M4Z5-K
	Z	waterblue	sim. 5021	AMK12A-1M4Z5-Z
		traffic purple	sim. 4006	secondary lock

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