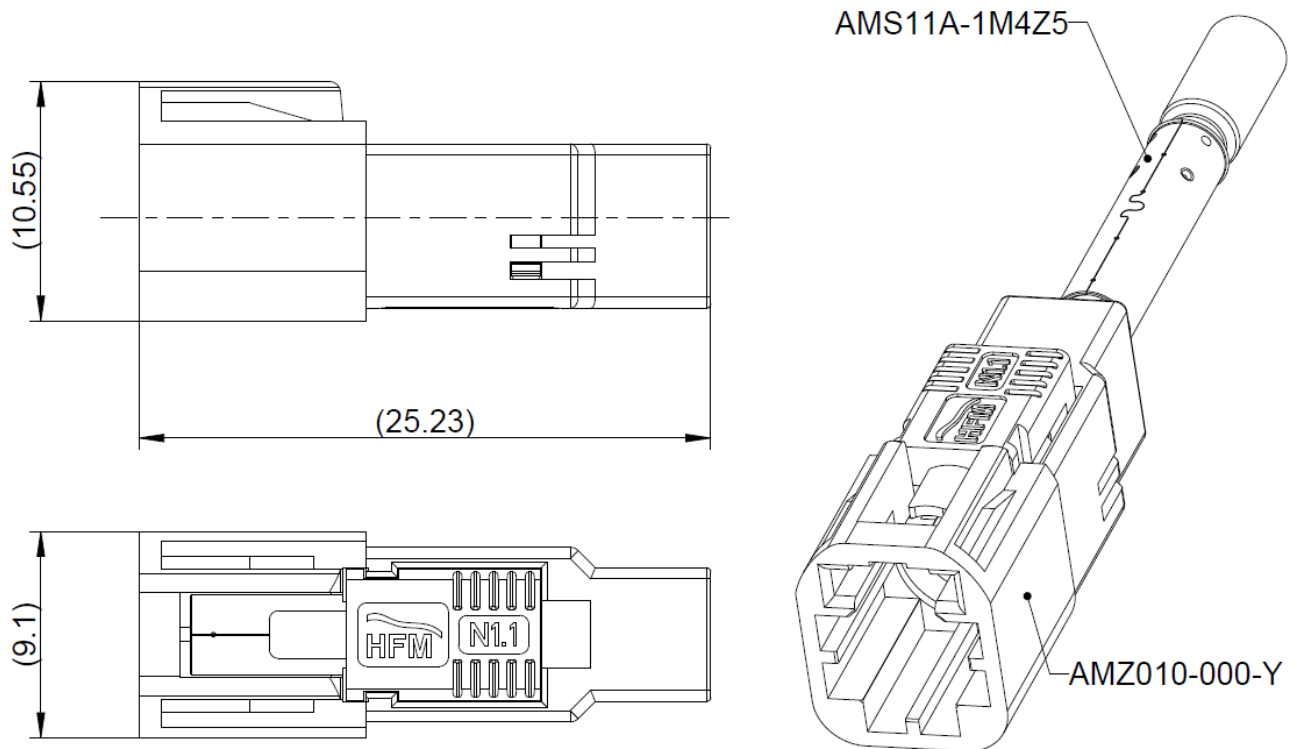




All dimensions are in mm

Interface

According to RN_108-01

Documents

Assembly instruction MA_AMV004

Material and plating

Connector parts

- Center contact
- Interface
- Crimp area
- Outer contact (outer part)
- Outer contact (crimp part)
- Dielectric
- Crimping sleeve
- Housing
- Secondary lock

Material

- Spring bronze
- Spring bronze
- Stainless steel
- PA12-GB30
- Spring bronze
- PBT-GF20
- PBT-GF20

Plating

- Gold, min. 0.15 µm, over chemical nickel
- Tin, min. 1µm, over chemical nickel
- Tin, 1.5-3 µm
- Tin, 1.5-3 µm
- Tin, 1.5-3 µm

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 $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	750 V rms
Working voltage	335 V rms
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	≤ 15N*
Disengagement force	≥ 2N
Retention force latch	≥ 110N
Retention force primary lock	≥ 80N
Retention force secondary lock	≥ 80N
Coding efficiency	≥ 150N

* 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 (AMS11A-1M4/90)	11WR024_A01
Crimping applicator (AMS11A-1M4/21)	11WB013_A01
Crimping applicator (AMK12A-1M4/40)	11WR017_A01

Hand tool:

Crimping applicator	AMW001-SET
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Technical Data Sheet

Rosenberger

HFM®
High-Speed FAKRA Mini

**STRAIGHT PLUG
W. HOUSING**

AMS11A-1M4Z5-Y

Suitable cables

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

Packing

Standard (optional)

N/A

Weight

2.0 g/pce

Coding

Part Number has to be accomplished by codification

Coding		Color	RAL	Part-Number-RT
	A	black	sim. 9005	AMS11A-1M4Z5-A
	B	white	sim. 9010	AMS11A-1M4Z5-B
	C	blue	sim. 5012	AMS11A-1M4Z5-C
	D	bordeauxviolet	sim. 4004	AMS11A-1M4Z5-D
	E	green	sim. 6017	AMS11A-1M4Z5-E
	F	brown	sim. 8011	AMS11A-1M4Z5-F
	G	grey	sim. 7036	AMS11A-1M4Z5-G
	H	light pink	sim. 3015	AMS11A-1M4Z5-H
	J	beige	sim. 1001	AMS11A-1M4Z5-J
	K	curry	sim. 1027	AMS11A-1M4Z5-K
	Z	waterblue	sim. 5021	AMS11A-1M4Z5-Z
		traffic purple	sim. 4006	secondary lock

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
N. Seidel	07.03.16	C. Anfang	06.12.18	400	18-0719	R. Sadic	05.12.18

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