

All dimensions are in mm; tolerances according to ISO 2768 m-H

**Interface**

According to RN 119-01

**Documents**

Assembly instruction MA\_D2V003  
 Pinning instruction RN 119-11  
 Test specification tbd

**Preliminary**

**Material and plating**

**Connector parts**

- Center contact
- Cable clamp
- Dielectric
- Housing
- Secondary lock

**Material**

- Spring bronze
- Brass
- PA12-GF30
- PBT-I-GB20
- PBT-GF10

**Plating**

Contact=Gold min. 0.15µm; Crimp=Sn min. 1µm  
 Nickel, 3-6 µm

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**Electrical data**

Differential impedance	100 Ω ± 5% at 500 ps rise time
Frequency range	DC to 1.0 GHz
Return loss	$\geq \begin{pmatrix} 38 & 1 \leq f < 75 \\ 20 - 20\log\left(\frac{f}{600}\right) & 75 \leq f \leq 600 \end{pmatrix} dB^*$
Insertion loss	$\leq (0.01\sqrt{f})dB^*$
Mode conversion loss	$\geq \begin{pmatrix} 55 & 10 \leq f \leq 50 \\ 89 - 20\log(f) & 50 < f \leq 600 \end{pmatrix} dB^*$
	<i>* f in MHz</i>
Insulation resistance	$\geq 1 \times 10^3 M\Omega$
Signal contact resistance	$\leq 10 m\Omega$
Test voltage	250 V rms
Working voltage	100 V rms
Power current	$\leq 1.5 A DC$

**Mechanical data**

Mating cycles	$\geq 25$
Engagement force	$\leq 30 N$
Disengagement force	tbd
Retention force latch	$\geq 110 N$
Retention force primary lock	$\geq 80 N$
Coding efficiency	$\geq 80 N$

**Environmental data**

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 Test NA
Temperature and humidity	USCar 2 – 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
RoHS	compliant

**Tooling**

Crimping tool	on request
Crimp insert	on request

**Suitable cables**

Cable type	Dacar 676
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**Packing**

Standard	tbd
Weight	4.5 g/pce








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**Coding**

Part Number has to be accomplished by codification.

Coding	Jack	Colour	RAL	Part-Number
A		black	sim. 9005	D2K10A-1AQA5-A
B		white	sim. 9001	D2K10A-1AQA5-B
C		blue	sim. 5005	D2K10A-1AQA5-C
D		bordeaux	sim. 4004	D2K10A-1AQA5-D
E		green	sim. 6002	D2K10A-1AQA5-E
F		brown	sim. 8011	D2K10A-1AQA5-F
Z		waterblue	sim. 5021	D2K10A-1AQA5-Z
		traffic purple	sim. 4006	secondary lock

**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
M. Kolbe	06.07.16	F. Mayer	19.01.17	201	17-0114	B. Döring	19.01.17
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