

All dimensions are in mm;

Interface

According to RN 119-01

Documents

Assembly instruction MA_D2V002
Pinning instruction RN 119-11

Material and plating

Connector parts

Center contact	Material	Bronze
Outer contact		Brass
Dielectric		PA12-GF30
Crimping ferrule		Bronze
Housing		POM
Secondary lock		PBT-GF10

Plating

Contact=Gold min. 0.15µm; Crimp=Sn min. 1µm
Nickel, 3-6 µm
Tin, 1.5-4 µm

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RF_35/09.14/6.2

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	≥ 25
Engagement force	$\leq 30 N$
Disengagement force	$\geq 5 N$
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	D9 (e.g. Gebauer & Griller X9096D2)
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Packing

Standard	not packed
Weight	5.3 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		jet black	sim. 9005	D2S10A-1D9A5-A
B		crème white	sim. 9001	D2S10A-1D9A5-B
C		signal blue	sim. 5005	D2S10A-1D9A5-C
D		claret bordeaux	sim. 4004	D2S10A-1D9A5-D
E		leaf green	sim. 6002	D2S10A-1D9A5-E
F		nut brown	sim. 8011	D2S10A-1D9A5-F
Z		water blue	sim. 5021	D2S10A-1D9A5-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
F. Mayer	25.02.16	F. Mayer	13.02.19	a00	18-s433	J. Engelhardt	13.02.19