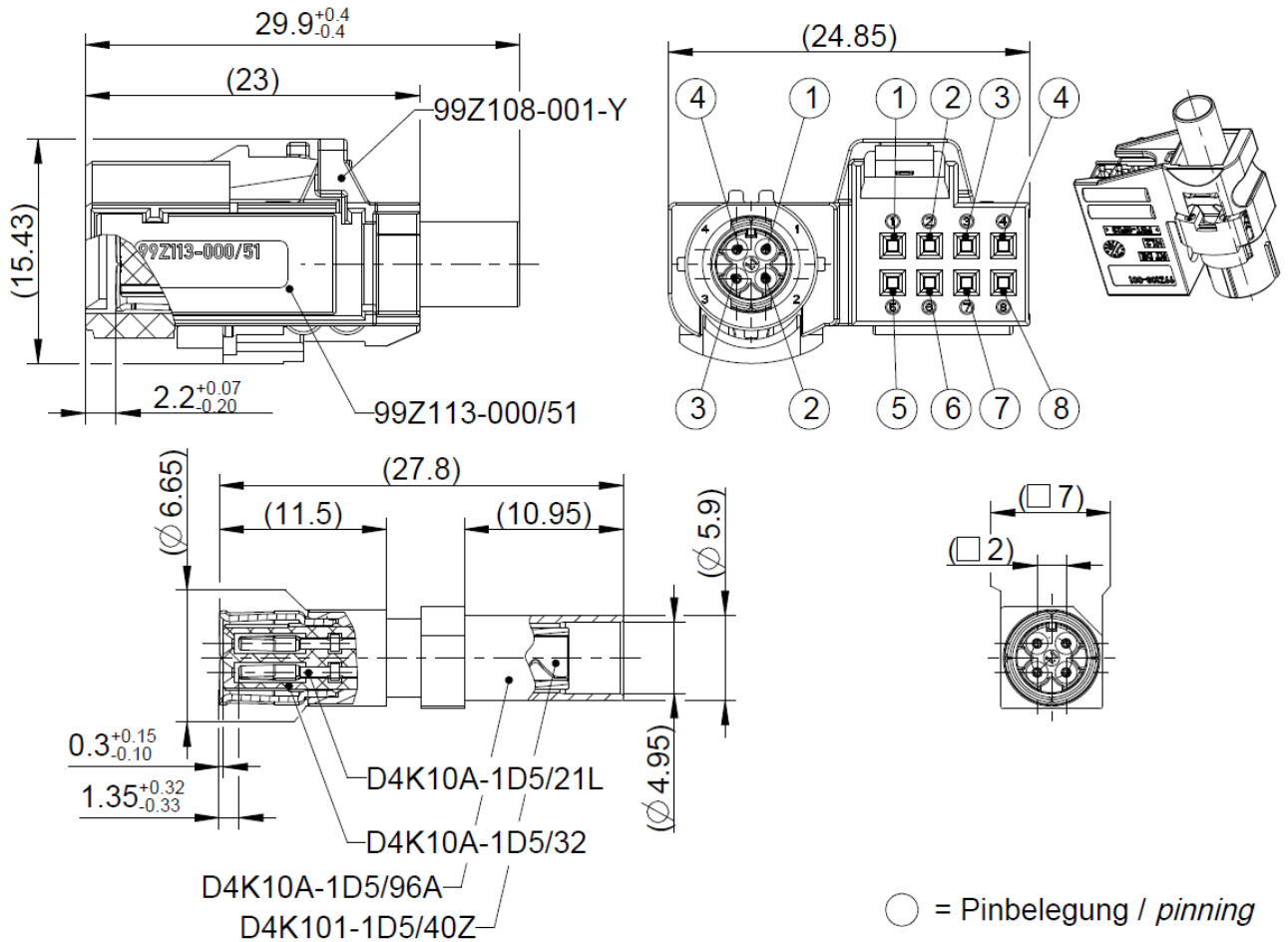


99

STRAIGHT JACK WITH
MQS CONTACTS

99K15A-1D5A5-Y



All dimensions are in mm

Interface

According to

RN 066-02

Documents

Assembly instruction

Pinning instruction

Test specification

MA_D4V034

RN 053-01 HSD side

RN 061-01 HSD side

Material and plating

Connector parts

- Outer contact
- Outer contact sleeve
- Center contact
- Dielectric
- Crimping ferrule
- HSD - housing
- MQS - housing
- Secondary Lock HSD side

Material

- Brass
- Bronze
- Bronze
- PA12-GF30
- Bronze
- PBT-I-GF23
- PBT-I-GF30
- PBT-GF10

Plating

- Nickel, 3-6 µm
- Nickel, 3-6 µm
- Gold, min. 0.15 µm, over chemical nickel
- Tin, 1.5-3 µm

Preliminary

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Electrical data HSD side

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB to 1.0 GHz ≥ 17 dB to 2.0 GHz
Insertion loss	≤ 0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 5 psec
Nearend-Crosstalk	≤ 30 dB
Farend-Crosstalk	≤ 35 dB
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage	250 V rms
Working voltage	100 V rms
Test current capability at 80°C	≤ 1.5 A DC
Test current capability at 80°C Lin-contacts	≤ 2.0 A DC
RF-leakage (shielding effectiveness)	≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data

Mating cycles	≥ 25
Engagement force max.	≤ 75 N
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 80 N

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 (-40°C/+105°C)
Temperature humidity cycling	USCar 2 – 4 – 5.6.2 (test temperature +105°C)
Vibration	DIN IEC 60068-2-64 (class 2)
Mechanical shock	DIN IEC 60068-2-27
Dry Heat	DIN IEC 60068-2-2 (temperature +105°C)
RoHS	compliant

Tooling

Crimping tool	on request
Crimp insert	on request

Suitable cables

Cable type	Dacar 535
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Packing

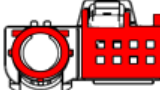
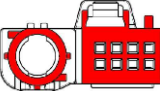

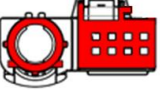

Standard	not packed
Weight	7.74 g/pce

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Coding

Part number has to be accomplished by codification

Coding	Jack	Color	RAL	Part-Number
A (A+A)		graphite black	sim. 9011	99K15A-1D5A5-A
B (B+B)		natural	sim. 9001	99K15A-1D5A5-B
C (C+C)		light blue	sim. 5012	99K15A-1D5A5-C
D (D+D)		claret violet	sim. 4004	99K15A-1D5A5-D
Z		water blue	sim. 5021	99K15A-1D5A5-Z

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
V. Pangritz	19.11.10	J. Schröck	25.03.19	300	18-v387	C. Ostermaier	25.03.19