

All dimensions are in mm; tolerances according to ISO 2768 m-H
Y = Part number has to be accomplished by codification

Interface

According to DIN 72594-1

Documents

Assembly instruction MA_59V051
Panel piercing MB_141

Material and plating

Connector parts

Center contact	Material	Brass
Outer contact		Brass
Dielectric		PTFE
Housing		PA 6.6T

Plating

Gold, min. 0.8 µm, over chemical nickel
Nickel, 2.5-5 µm

Electrical data

Impedance	50 Ω
Frequency	DC to 3 GHz / 6 GHz
Return loss	≥ 18 dB
Insertion loss	≤ 0.1 dB $\sqrt{f(\text{GHz})}$
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	≤ 1.0 A DC

- Connector only, VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles	min. 25
Engagement force	≤ 25 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Retention force primary lock	≥ 80 N
Coding efficiency	≥ 40 N

Environmental data

Temperature range	-40°C to 105°C
Thermal shock	DIN 72594-2 clause 6.2
Temperature and humidity	DIN 72594-2 clause 6.3
Vibration and mechanical shock	DIN 72594-2 clause 6.1
Dry heat	DIN 72594-2 clause 6.4












Tooling

N/A

Packing

Standard	100 pcs in blister
Weight	1,66 g/pce

Coding

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S50F-500A4_A
 B	white	sim. 9001	59S50F-500A4_B
 C	blue	sim. 5005	59S50F-500A4_C
 D	bordeauxviolet	sim. 4004	59S50F-500A4_D
 E	green	sim. 6002	59S50F-500A4_E
 F	brown	sim. 8011	59S50F-500A4_F
 G	grey	sim. 7031	59S50F-500A4_G
 H	violet	sim. 4003	59S50F-500A4_H
 I	beige	sim. 1001	59S50F-500A4_I
 K	curry	sim. 1027	59S50F-500A4_K
 Z	waterblue	sim. 5021	59S50F-500A4_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
Oberhöller, Denis	15/09/05	Höfling, Thomas	15/09/05	d00	05-0490	Oberhöller, Denis	15/09/05
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