

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
 Waterproof only guaranteed with 59S0WP-FAK

Remarks

Available Waterproof plug
 59S50E-500A4-Y
 59S50F-500A4-Y
 59S50H-500A4-Y

Documents

Assembly instruction MA_59V050

Material and plating

Connector parts

	Material	Plating
Center contact	Spring bronze	Gold, min. 0.8 µm, over nickel
Outer contact	Brass	Nickel, 2.5-5 µm
Contact spring	Stainless steel	N/A
Dielectric	PA 12	
Crimping ferrule	Brass	Nickel, 2.5-5 µm
Sealing ring	Silicone	Red
Cable gasket	Silicone	Red
Plastic sleeve	PA12	Black
Housing	PA12	
Secondary lock	PA12	

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 30 dB, DC to 1 GHz ≥ 26 dB, DC to 3 GHz ≥ 20 dB, DC to 6 GHz
Insertion loss	≤ 0.1 x √f(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
RF-leakage	≥ 65 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Mechanical data

Mating cycles	≥ 5
Engagement force	≤ 25 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Retention force secondary lock	≥ 60 N
Coding efficiency	≥ 40 N

Environmental data

Temperature range	-40°C to +130°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

- Limitations are possible due to the used cable type -

Tooling

Crimping tool	11W150-000
Crimp insert	11W15D-104
Crimp insert center contact	11W161-8M4

Suitable cables

Cable type RTK 031












Packing

Standard 1000 pce in box; plastic sleeve in blister

Weight 4.07 g/pcs

Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59K14B-1M4A4_A
 B	white	sim. 9001	59K14B-1M4A4_B
 C	blue	sim. 5005	59K14B-1M4A4_C
 D	bordeauxviolet	sim. 4004	59K14B-1M4A4_D
 E	green	sim. 6002	59K14B-1M4A4_E
 F	brown	sim. 8011	59K14B-1M4A4_F
 G	grey	sim. 7031	59K14B-1M4A4_G
 H	violet	sim. 4003	59K14B-1M4A4_H
 I	beige	sim. 1001	59K14B-1M4A4_I
 K	curry	sim. 1027	59K14B-1M4A4_K
 Z	waterblue	sim. 5021	59K14B-1M4A4_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
Mühlfellner	20/04/05	Lankes	09/11/05	a00	05-s401	Mühlfellner	07/11/05