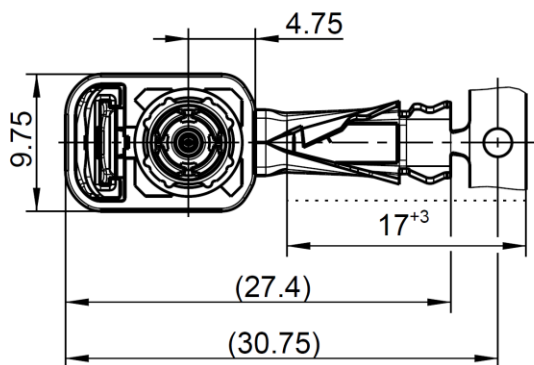
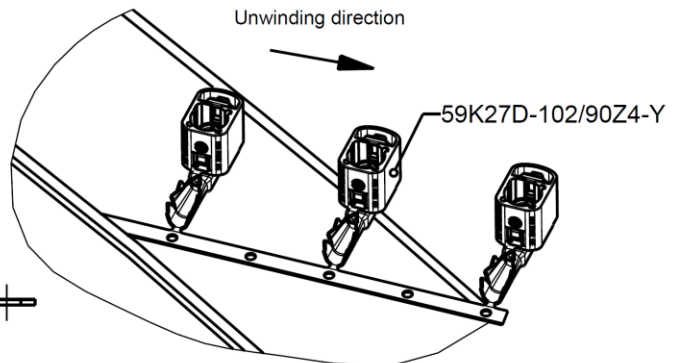
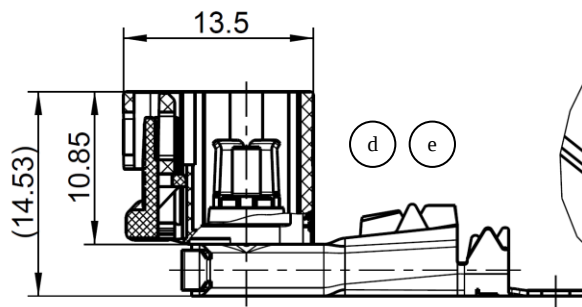


..... Area selective tin-plated

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
ISO 20860-1

Documents

Assembly instruction

MA_59V080

Material and plating

Connector parts

Center contact 1 (Interface)
Center contact 2 (Cable)
Outer contact

Dielectric
Crimping ferrule
Housing
Clamp

Material

Spring bronze
Spring bronze
Stainless steel

PBT-GB20
Spring bronze
PA 12-GF23
PA 12-GF23

Plating

Gold, min. 0.8 μm , over chemical nickel
Gold, min. 0.15 μm , over chemical nickel
Stainless steel (Interface)
Tin, 2-4 μm (Crimp)

Tin, 2-3 μm

Electrical data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
Return loss	≥ 25 dB, DC to 1 GHz	ⓓ
	≥ 18 dB, DC to 2 GHz	
	≥ 16 dB, DC to 3 GHz	
Insertion loss	≤ 0.1 x √f(GHz) dB	
Insulation resistance	≥ 1x10 ³ MΩ	
Center contact resistance	≤ 15 mΩ	
Outer contact resistance	≤ 10 mΩ	
Test voltage	750 V rms	
Working voltage	335 V rms	
Power current	≤ 1 A DC	
RF-leakage	≥ 65 dB up 1 GHz	

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 25 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 40 N
Radial torque	15 ± 5 Ncm

Environmental data

Temperature range	-40°C to +105°C	
Thermal shock	DIN 72594-2 clause 8.2	
Temperature and humidity	DIN 72594-2 clause 8.3	ⓓ
Vibration and mechanical shock	DIN 72594-2 clause 8.1	
Dry heat	DIN 72594-2 clause 8.4	
RoHS	compliant	

- Limitations are possible due to the used cable type -

Tooling

Crimp dimension acc. to assembly instruction	
Serie Tool:	
Crimping applicator (59K27D-102/90)	19150032
Crimping applicator (59S16A-102/40)	19150012
Crimping applicator (59K27A-102/21)	19150008
Hand tool:	
Crimping applicator (59K27A-102/21)	11W161-8M4

Suitable cables

Cable type	RG 174, RG 316
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Packing

Standard

59K27D-102/90Z4-Y

59S16A-102/40

59K27A-102/21E

Weight

21250 pcs (25 reels in carton; 850 pcs on reel)

120000 pcs (30 reel/carton; 4000 pcs on reel)

25000 pcs on reel

2.75 g/pce

Coding

Part Number has to be accomplished by codification

Coding	Colour	RAL	Part-Number
 A	black	sim. 9005	59K27D-102Z4-A
 B	white	sim. 9001	59K27D-102Z4-B
 C	blue	sim. 5005	59K27D-102Z4-C
 D	bordeaux violet	sim. 4004	59K27D-102Z4-D
 E	green	sim. 6002	59K27D-102Z4-E
 F	brown	sim. 8011	59K27D-102Z4-F
 G	grey	sim. 7031	59K27D-102Z4-G
 H	violet	sim. 4003	59K27D-102Z4-H
 I	beige	sim. 1001	59K27D-102Z4-I
 K	curry	sim. 1027	59K27D-102Z4-K
 L	carmine red	sim. 3002	59K27D-102Z4-L*
 M	pastel orange	sim. 2003	59K27D-102Z4-M*
 N	pastel green	sim. 6019	59K27D-102Z4-N*
 Z	water blue	sim. 5021	59K27D-102Z4-Z

* on request



Technical Data Sheet

Rosenberger

FAKRA-
HF

RIGHT ANGLE JACK
TURNABLE

59K27D-102Z4-Y

Change History

Rev.	Date	Change
c00	16.09.11	Coding - added Coding L, M, N
d00	09.09.15	Adjusted the crimp area to actual state. Electrical data - Adjust data for return loss. Environmental data - Changed DIN 72594-2 from clause 6.x to 8.x
e00	28.09.17	Adjusted the crimp area to actual state.

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
J. Maier	27.04.10	C. Anfang	28.09.17	e00	17-1595	C. Biermann	28.09.17
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel. : +49 8684 18-0 Email : info@rosenberger.de		Page 4 / 4