

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

**Interface**

According to ISO 20860-1; DIN 72594-1

**Documents**

Assembly instruction MA\_59V111

**Material and plating**

**Connector parts**

Housing	<b>Material</b> PBT-GF30	<b>Colour</b>
Sealing ring	Silicone	green
Lock ring	Beryllium Copper	

**Mechanical data**

Mating cycles max. 5 <sup>(e)</sup>  
 Retention force latch ≥ 110 N  
 Coding efficiency ≥ 40 N

**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

**Application**

Applicable for connector: 59K16B-1xx \*\*  
 59K13O-1xx \*\*  
 Required additional piece parts: 59K14B-1XX/50 Cable Seal  
 59Z163-000/51 Sealing Cap

\*\* -xx for all available cable variations, except cable variation 09

**Packing**

Standard\*\*\* 250 pcs in box, 1000 pcs in reusable container <sup>(d)</sup>  
 Weight 2.1 g/pce <sup>(c)</sup>








\*\*\*Cable Seal and Sealing Cap must be ordered separately

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RF\_35/09.14/6.2

**Coding**

Part Number has to be accomplished by codification

Coding	Colour	RAL	Part-Number-RT	
	A	black	sim. 9005	59Z163-000-A
	B	white	sim. 9001	59Z163-000-B
	C	blue	sim. 5005	59Z163-000-C
	D	bordeauxviolet	sim. 4004	59Z163-000-D
	E	green	sim. 6002	59Z163-000-E
	F	brown	sim. 8011	59Z163-000-F
	G	grey	sim. 7031	59Z163-000-G
	H	violet	sim. 4003	59Z163-000-H
	I	beige	sim. 1001	59Z163-000-I
	K	curry	sim. 1027	59Z163-000-K
	L	carmine red	sim. 3002	59Z163-000-L
	M	pastel orange	sim. 2003	59Z163-000-M
	N	pastel green	sim. 6019	59Z163-000-N
	Z	waterblue	sim. 5021	59Z163-000-Z

**Change history**

Rev.	Date	Change
c00	21.06.16	-Visualized correct Z-Coding in picture -Removed text in german from picture -Weight from '2.3 g/pce' to '2.1 g/pce'
d00	25.10.17	- Standard changed: From "250 pcs in box" to "250 pcs in box, 1000 pcs in reusable container"
e00	29.11.17	Changed mating cycles from max. 25 to max. 5

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	12.04.13	J. Falk	20.12.17	f00	17-0020	C. Biermann	20.12.17

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