

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

Material and plating

Connector parts

Housing PBT-I-GB20 (d)
 Secondary lock PPE

Mechanical data

Mating cycles \geq 25
 Retention force latch \geq 110 N
 Coding efficiency \geq 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 (c)
Dry heat	DIN 72594-2 clause 8.4
RoHS	compliant (c)

Suitable cables

Applicable e.g. for following connectors: 59K23B-1xx*; 59K23F-1xx*; 59K28A-1xx*; 59K28H-1xx*












* -xx for all available cable variations

Packing

Standard	250 pcs in box, 1200 pcs in reusable container
Weight	1.60 g/pce

Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59Z027-001-A
 B	white	sim. 9001	59Z027-001-B
 C	blue	sim. 5005	59Z027-001-C
 D	bordeauxviolet	sim. 4004	59Z027-001-D
 E	green	sim. 6002	59Z027-001-E
 F	brown	sim. 8011	59Z027-001-F
 G	grey	sim. 7031	59Z027-001-G
 H	violet	sim. 4003	59Z027-001-H
 I	beige	sim. 1001	59Z027-001-I
 K	curry	sim. 1027	59Z027-001-K
 Z	waterblue	sim. 5021	59Z027-001-Z
	traffic purple	sim. 4006	secondary lock

(d)

Change History

Rev.	Date	Change
c00	19.12.16	Housing material data from PBT to PBT-GB20 Environmental data: DIN 72594-2 from clause 6... to clause 8... RoHS from "2002/95/EC (RoHS)" to "RoHs"
c01	19.06.17	more precise change description for change c00: Housing material data: Added GB20 to PBT-GB20 according to precise material specification and delivery situation
d00	24.01.18	- tolerance change from 8±0.1 to 8±0.05 - housing material change from PBT-GB20 to PBT-I-GB20 - Change Part-Number from 59Z027-001_X to 59Z027-001-X

c01

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
W. Lankes	02.01.07	P. Blaßfeld	05.06.18	d00	18-0178	C. Ostermaier	05.06.18