



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; USCAR

Documents

Assembly instruction

MA_59V116



Material and plating

Connector parts

Housing
 Lock ring

Material

PBT
 Beryllium Copper

Mechanical data

| | |
|-----------------------|---------|
| Mating cycles | ≥ 5 |
| 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: | 59S10O-1xx **, 59S16A-1xx** |
| Required additional piece parts: | 59K14B-1xx/50 ** Cable Seal 59Z163-000/51 Sealing Cap |

(d)

** -xx for all available cable variations up to 27mm connector length, except cable variation 09

(e)

Packing

| | |
|-------------|----------------|
| Standard*** | 250 pcs in box |
| Weight | 1.6 g/pce |

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

Coding

Part Number has to be accomplished by codification.



| | Coding | Colour | RAL | Part-Number |
|--|--------|----------------|-----------|--------------|
| | A | black | sim. 9005 | 59Z176-C01-A |
| | B | white | sim. 9001 | 59Z176-C01-B |
| | C | blue | sim. 5005 | 59Z176-C01-C |
| | D | bordeauxviolet | sim. 4004 | 59Z176-C01-D |
| | E | green | sim. 6002 | 59Z176-C01-E |
| | F | brown | sim. 8011 | 59Z176-C01-F |
| | G | grey | sim. 7031 | 59Z176-C01-G |
| | H | violet | sim. 4003 | 59Z176-C01-H |
| | I | beige | sim. 1001 | 59Z176-C01-I |
| | K | curry | sim. 1027 | 59Z176-C01-K |
| | L | carmine red | sim. 3002 | 59Z176-C01-L |
| | M | pastel orange | sim. 2003 | 59Z176-C01-M |
| | N | pastel green | sim. 6019 | 59Z176-C01-N |
| | Z | waterblue | sim. 5021 | 59Z176-C01-Z |



Change History

| Rev. | Date | Change |
|------|----------|--|
| c00 | 21.06.16 | Removed 'Coding Z is reserved for blank plugs' under Coding Coding Z is available |
| d00 | 25.09.17 | Added applicable for connector 59S16A-1xx** |
| e00 | 13.08.21 | Note (**) updated |

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 |
| M. Henning | 21.04.15 | F. Danzl | 21.09.21 | e00 | 21-1231 | J. Engelhardt | 21.09.21 |
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