

## Standard Data

### Materials and finishes

|                     |                                    |
|---------------------|------------------------------------|
| Plug and receptacle | Perbunan or Nitril-Butadien rubber |
| Contacts, stamped   | Copper alloy, tin plate            |
| Contacts, machined  | Copper alloy, hard silver plate    |

### Mechanical Data

|                   |   |
|-------------------|---|
| Crimp contacts    | Semi-automatic or hand crimpable  |
| Contact positions | 1 thru 10 inclusive   |
| Polarization      | Stepped plane positive polarization and visual polarization   |
| Contact retention | 35 N minimum  |
| Contact insertion | From rear with simple hand tool, or simultaneous insertion of multiple crimped contacts with semi-automatic insertion machine |

Max. operating temperature acc. to DIN IEC 68, part 1 -40/105° C

## Test Criteria

|  |  |
|--|--|
| Sealing capability                         | IP 67 acc. to DIN 40050  |
| Weather, ozone and ultra violet resistance | In accordance with ASTM D-1149 (100 pphm) and ASTM D-1171 (outdoor exposure) |
| Industrial gas                             | Equivalent to MIL-C-23216, para 4.6.13                                       |
| Durability                                 | 50 cycles mating and unmating  |
| Salt spray                                 | In accordance with MIL-STD-202D, Method 101 D and DIN 400046, part 11        |
| Humidity                                   | 95% at 95° C/1000 hours  |
| Dry heat                                   | 105° C for 1000 hours  |
| Vibration                                  | 10 to 55 Hz, .06" DA, 1 hour, X and Y planes                                 |
| Shock                                      | 50 g, 11ms, 30 cycles, X and Y planes  |

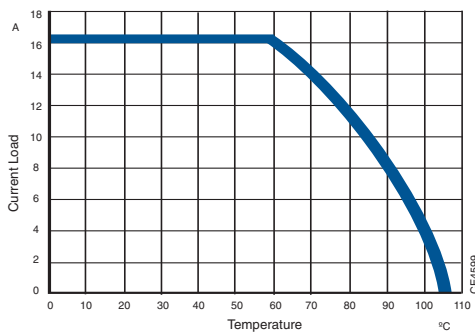
## Electrical Data SURE-SEAL

|                                 |  |
|---------------------------------|--|
| Contact resistance              | 10 Milliohms max.  |
| Insulation resistance           | 100 Mohms min.   |
| Dielectric withstanding voltage | 1200 VAC at sea level  |
| Wire range                      | 0,75–1.5 mm <sup>2</sup> (AWG 18—14)<br>0,50–1,0 mm <sup>2</sup> (AWG 20—16) |
| Wire insulation Sealing range   | 2,4–3,3 resp. 1,8–2,8 mmØ  |
| Insulation stripping length     | 3,9–4,7 mm   |

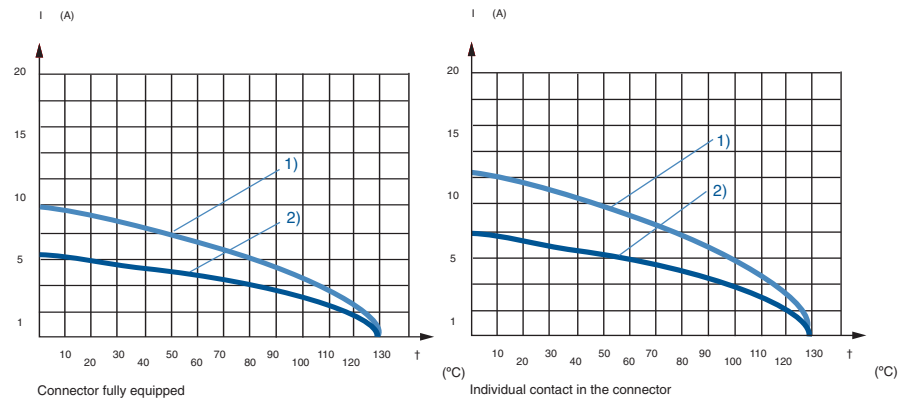
## Electrical Data Mini SURE-SEAL

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Contact resistance              | 10 Milliohms max.                    |
| Insulation resistance           | 100 Mohms min.                       |
| Dielectric withstanding voltage | 1200 VAC at sea level                |
| Wire range                      | 0,4–0,75 mm <sup>2</sup> (AWG 20—18) |
| Wire insulation sealing range   | 1,4–1,8 mmØ                          |
| Insulation stripping length     | 3,0–3,3 mm                           |

### Current rating - SURE-SEAL



### Current rating - Mini SURE-SEAL



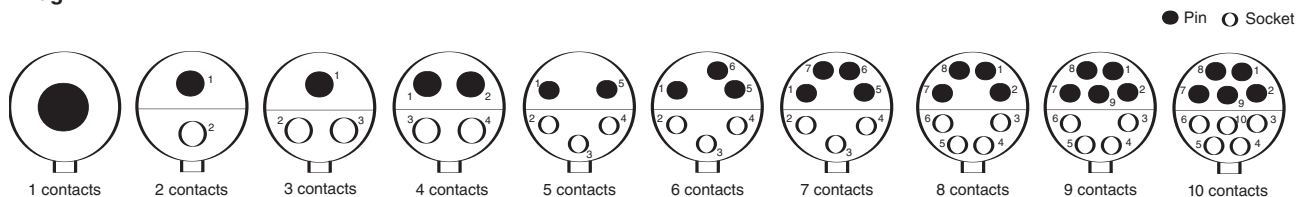
1) APK -- 10\_07-0,75qmm\*  
2) APK -- 10\_07-0,35qmm\*

Dimensions shown in mm  
Specifications and dimensions subject to change

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## Plug



## Contact Arrangements

### Part Numbers

| Plug<br>No. of contacts | Shell size | black        | red          | green        | yellow       |
|-------------------------|------------|--------------|--------------|--------------|--------------|
| 1                       | SS1P       | 120-182-000* |              |              |              |
| 2                       | SS2P       | 120-8552-000 | 120-8552-010 | 120-8552-020 | 120-8552-030 |
| 3                       | SS3P       | 120-8552-001 | 120-8552-011 | 120-8552-021 | 120-8552-031 |
| 4                       | SS4P       | 120-8552-002 | 120-8552-012 | 120-8552-022 | 120-8552-032 |
| 5                       | SS5P       | 120-8552-005 | 120-8552-015 | 120-8552-025 | 120-8552-035 |
| 6                       | SS6P       | 120-8552-006 | 120-8552-016 | 120-8552-026 | 120-8552-036 |
| 7                       | SS7P       | 120-8552-007 | 120-8552-017 | 120-8552-027 | 120-8552-037 |
| 8                       | SS8P       | 120-8552-308 |              |              |              |
| 9                       | SS9P       | 120-8552-309 |              |              |              |
| 10                      | SS10P      | 120-8552-310 |              |              |              |

\*) cable entry 2,4 — 3,3 mm Ø (all others 1,8 — 2,8 mm Ø)

| Plug with flange<br>No. of contacts | Shell size | black        | red          | green        | yellow       |
|-------------------------------------|------------|--------------|--------------|--------------|--------------|
| 2                                   | SSF2P      | 120-8552-200 | 120-8552-210 | 120-8552-220 | 120-8552-230 |
| 3                                   | SSF3P      | 120-8552-201 | 120-8552-211 | 120-8552-221 | 120-8552-231 |
| 4                                   | SSF4P      | 120-8552-202 | 120-8552-212 | 120-8552-222 | 120-8552-232 |
| 8                                   | SSF8P      | 120-8552-305 |              |              |              |
| 9                                   | SSF9P      | 120-8552-306 |              |              |              |
| 10                                  | SSF10P     | 120-8552-307 |              |              |              |