

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

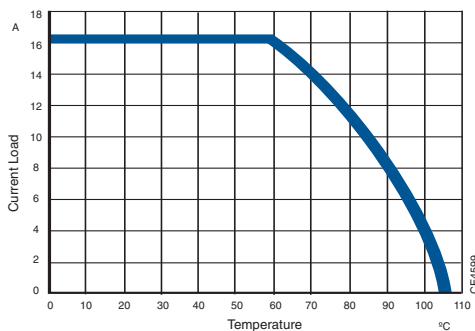
Electrical Data SURE-SEAL

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 ² (AWG 18—14) 0,50–1,0 mm ² (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

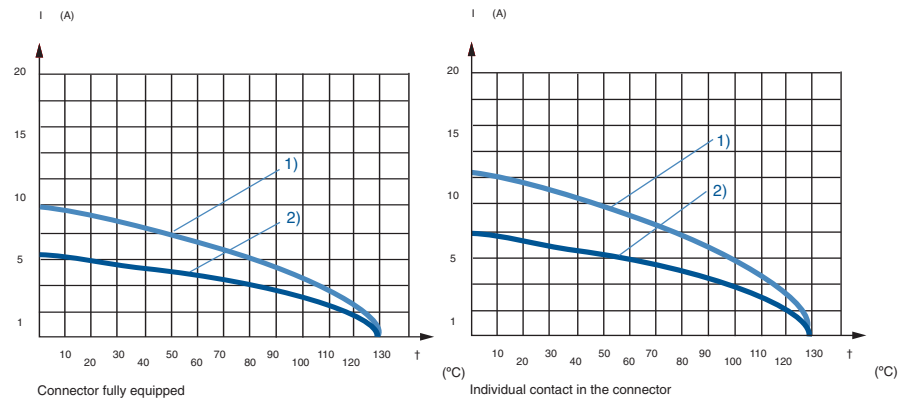
Electrical Data Mini SURE-SEAL

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 ² (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



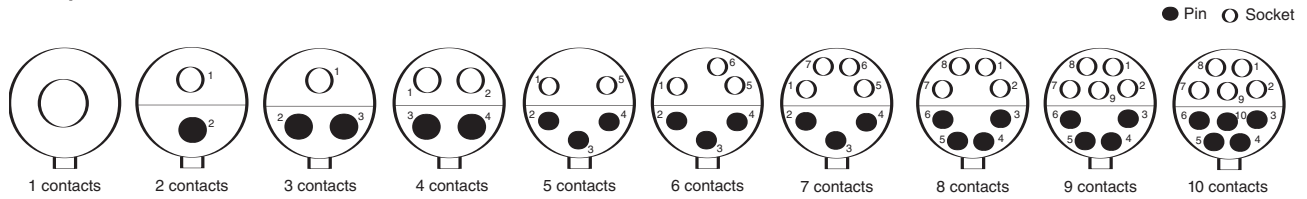
1) APK -__ 10_07-0,75qmm*
2) APK -__ 10_07-0,35qmm*

Dimensions shown in mm
Specifications and dimensions subject to change

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Receptacle



Contact Arrangements

Part Numbers

Receptacle

No. of contacts	Shell size	black	red	green	yellow
1	SS1R	120-1833-000*			
2	SS2R	120-8551-000	120-8551-010	120-8551-020	120-8551-030
3	SS3R	120-8551-001	120-8551-011	120-8551-021	120-8551-031
4	SS4R	120-8551-002	120-8551-012	120-8551-022	120-8551-032
5	SS5R	120-8551-005	120-8551-015	120-8551-025	120-8551-035
6	SS6R	120-8551-006	120-8551-016	120-8551-026	120-8551-036
7	SS7R	120-8551-007	120-8551-017	120-8551-027	120-8551-037
8	SS8R	120-8551-308			
9	SS9R	120-8551-309			
10	SS10R	120-8551-310			

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

Contacts, stamped with insulation support

		Pins	Sockets	Wire hole fillers
SURE-SEAL 0,5–1,0 mm ²	individual	330-8672-001	031-8703-001	
	on reels, 5000 pcs.	SS121348-20	SS121347-20	225-0093-000
SURE-SEAL 0,75–1,5 mm ²	individual	330-8672-000	031-8703-000	
	on reels, 5000 pcs.	SS121348-10	SS121347-10	

Pin Socket Wire hole filler *

* Wire hole fillers are inserted into unused cavities instead of a contact in order to create a watertight sealing.

Contacts, machined without insulation support

	Pins	Sockets	Wire hole
SURE-SEAL 0,5–1,0 mm ²	330-8672-002	031-8703-050	225-0093-000
SURE-SEAL 0,75–1,5 mm ²	330-8672-003	031-8703-051	

Pin Socket Wire hole filler *

* Wire hole fillers are inserted into unused cavities instead of a contact in order to create a watertight sealing.

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