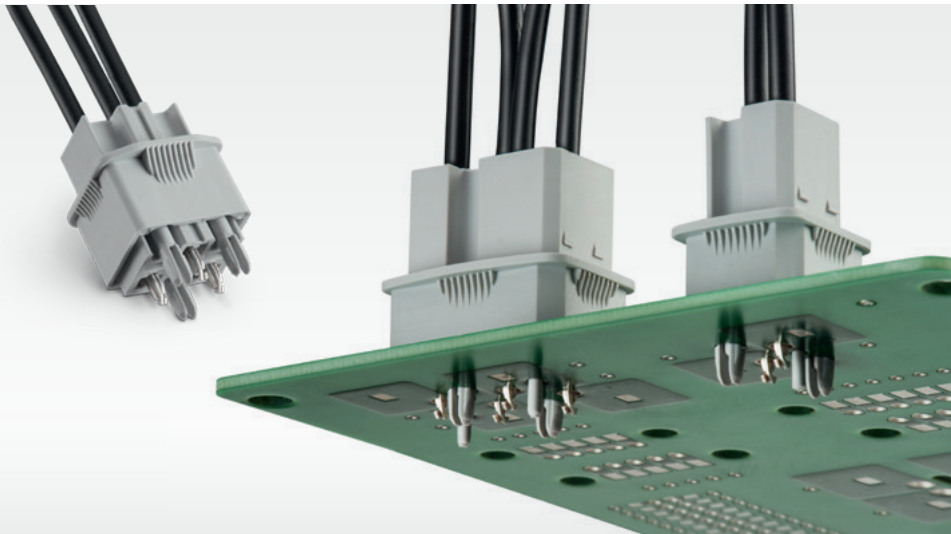


SKW Connector

with contact K98104-AG



SKEDD

The connection technology SKEDD offers a simple and reliable alternative to soldering or press-fit technology. SKEDD enables direct and reversible connection to PCBs. A stamped contact is fixed mechanically on a housing and the board serves as a contact partner. The socket base as an intermediate component falls off. Therefore, up to 50 % less material is used and an elaborate and thermally troublesome process for electronics is omitted. This simplifies the system by omitting one connection level; it maintains at least the same level of functionality and quality, and is easy to handle.

SKEDD can be used in place of many common connection solutions in a wide variety of application categories, such as high-voltage/signal connectors and board-to-board connectors, or in the assembly of components on PCBs.

Features

- Currents to 20 A at 85 °C
- Connector with 2,3 or 4 chambers
- Repeatedly pluggable without tools
- Large air and creepage clearance for high voltage
- Design with hood for contact protection and secure locking
- Secure prepositioning through pilot pin on casing

Processing

The SKW connector can be inserted into and extracted from the PCB by hand.



Tested and certified* according to **VDE 0627**

*VDE certificate is currently only valid for 2- and 4-pin connectors. Parameters for the connectors can be found under VDE certification number 40047751.

Electrical parameters

Current carrying capacity	20 A at 85 °C
Voltage max	500 V
Contact resistance	< 0.5 mΩ

Mechanical parameters

Mating cycles	5
Grid	5.0 mm (offset)
Wire cross-section	1.0 mm ² to 2.5 mm ²
Insertion forces	Fi ≤ 80 N (after 1 to 5 insertions)
Extraction force	Fe ≥ 30 N (after 1 to 5 insertions)
Pull-out or push-out forces of contacts	Fmax > 120 N
Locking in PCB	Fi max ≥ 120 N

Ambient conditions

Operating temperature	-40 °C to +85 °C
-----------------------	------------------

Material

Plastic body	PA
Contact material	CuFe2P
Contact surface (SKEDD fork)	Silver
Contact surface (crimp zone)	Galvanic Sn

PCB

PCB thickness	1.5 to 1.6 mm
Final diameter	2.4 + 0.1 / -0.06 mm *
Final copper layer thickness	min. 25 μm
Residual ring	≥ 0.1 mm

*For environments with high mechanical vibration and/or shocks
(For environments with low mechanical vibrations and shocks, the final diameter of 2.5 + 0.1 / -0.06 mm is also possible. Smaller holes lead to slightly higher insertion forces.)

Further tests

- Service life test (temperature / current change test)
- Mechanical vibration and shocking based on IEC 60068 T2-6/27
- Temperature shock test based on IEC 60068-2-14
- PE connection based on EN 60335-1
- Insulation of the SKW connector
 - Clearance: 4.2 mm / Creepage: 9 mm
 - CTI: IEC 60112=400V / UL=1

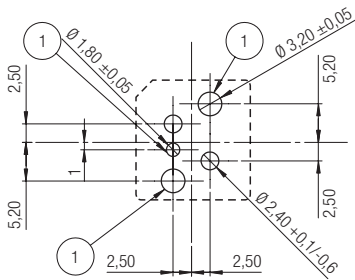
SKW Connector with contact K98104-AG



Drill pattern

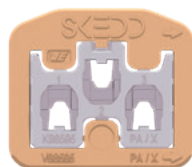
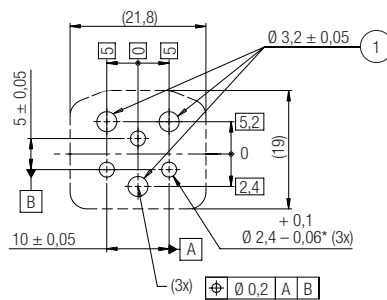
S98593 2-pin version

1) without plated-through hole (3 x)



S98595-P0 3-pin version with coding option 0**

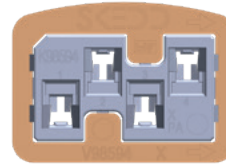
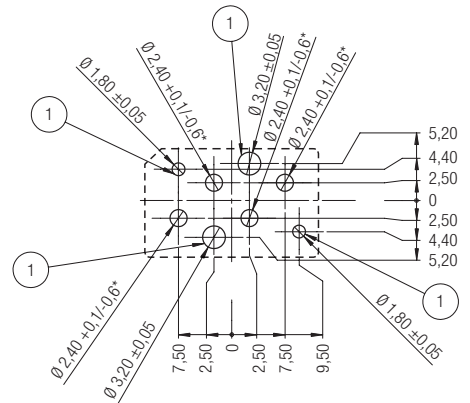
1) without plated-through hole (3 x)



**Up to 4 further coding options
upon your request

S98594 4-pin version

1) without plated-through hole (4 x)



* Final diameter metalized with
min. Cu25 μ m (partially lower is
not permitted). Accepted for HAL
(edge covered) chem. Ni/Au or
chem. Sn

Tools



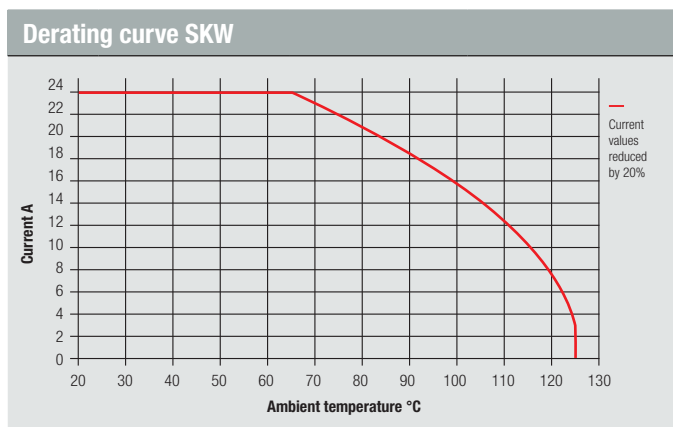
Crimp base tool X98914
Crimp die for 1.0 - 1.5 mm² X99928
Crimp die for 2.5 mm² X99929



Extraction tool K98502

Current rating

Consult the corrected derating curve for the SKW current rating.



Subject to change

Note:

The dimensions and specifications of the current customer drawing shall take precedence. Data sheet is not subject to Product Change Notification (PCN).

For more information visit us at
www.we-online.com/skedd or call
+49 7940 9810-0.