

SKEDD

DIEHL

Metal Applications



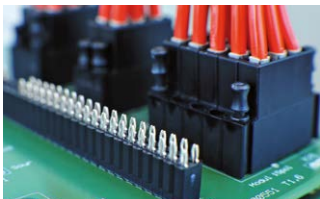
THE DIRECT PLUG-IN TECHNOLOGY

SKEDD is the new type of contact on printed circuit boards (PCBs): Single cables, connectors and other components can now be inserted into the PCB reversibly and directly – without the need for a socket base.

The technology is contributing to the miniaturization trend in passenger and commercial vehicle manufacture as well as in domestic equipment. SKEDD reduces assembly space and weight, simplifies assembly and enables a sustainable recycling process.

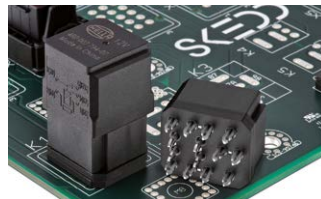
SKEDD

APPLICATION & ADVANTAGES



Board-to-board

- Connection of two or more PCBs
- 180° or 90° angle possible



Component-to-board

- Direct contact between the connector and the PCB
- No PCB socket base required



Wire-to-board

- The crimping area enables a simple snap-in connection in insulating housings


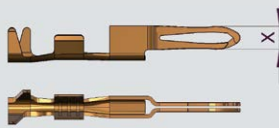
TYPICAL VALUES

Parts

Material (standard): CuSn6, CuNiSi, CuFeP
 Material thickness: 0.3 mm; 0.4 mm; 0.8 mm
 Plating SKEDD: Ag, Au or Sn on Ni

PCB

Material: FR4
 Thickness: 1.6 mm (standard)
 PCB design: Double and multilayer

Typical values / SKEDD	2 contact legs			4 contact legs	
	2-KS03	2-KS04	2-KS08	4-KS03	4-KS04
Sheet metal thickness	0.3 mm	0.4 mm	0.8 mm	0.3 mm	0.4 mm
Ampacity at 85 °C*	3 A	5 A	20 A	12 A	20 A
Insertion forces	~ 0.7 – 2 N	~ 2 – 3 N	~ 10 – 12 N	~ 6 – 8 N	~ 8 – 10 N
Nominal hole PCB	Ø 1.2 mm	Ø 1.4 mm	Ø 2.4 mm	Ø 1.7 mm	Ø 2.4 mm
Geometry					
Fork width (see X in graphic)	1.55 mm	1.7 mm	2.8 mm	1.9 mm	2.8 mm

The typical values may vary depending on the PCB type, type of SKEDD fork and the plating combination, and thus deviate from the typical values.

*The design of the PCB affects the ampacity (heat management).

QUALIFICATION

In our test laboratory, all major tests for assessing the connection are carried out. The laboratory operates according to DIN EN 60352-5 as well as customer specifications. The scope of tests, the procedure and the characteristic values are agreed on with the customer, bearing in mind the specific application.

- Visual and dimension inspection
- Insertion and push-out force
- Micro sectioning / analysis
- Contact resistance
- Rapid change of temperature (temperature shock)
- Climate sequence (cold, dry and damp heat, cyclical)

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