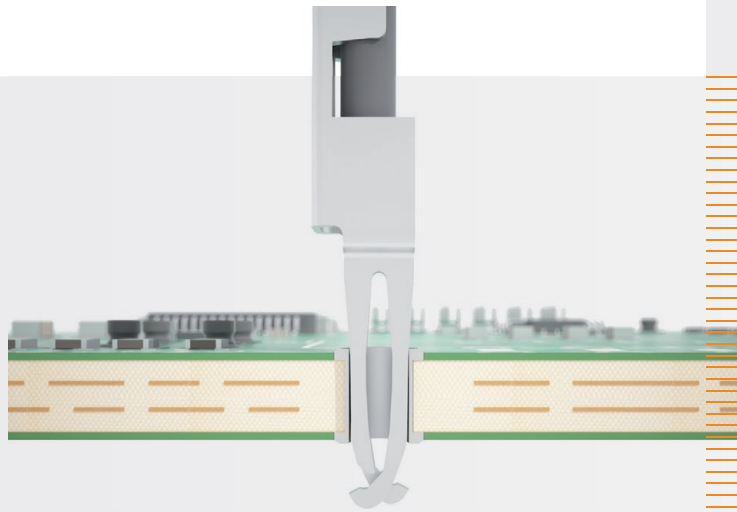


# Direct Plug-in Technology SKEDD

**SKEDD**

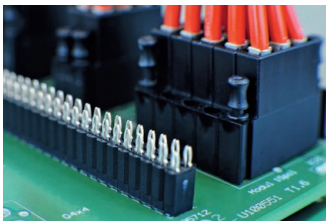


SKEDD is the new type of contact on printed circuit boards: Single cables, connectors and other components can now be inserted into the printed circuit board reversibly and directly – without the need for a socket base.

The technology is contributing to the miniaturization trend in passenger and commercial vehicle manufacture as well as in domestic equipment:

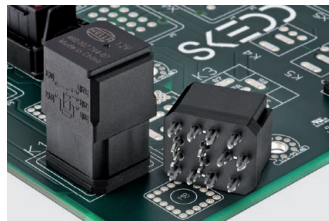
- Reduction in assembly space and weight
- Simplified assembly
- Sustainable recycling process

## APPLICATION & ADVANTAGES



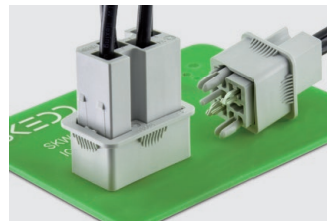
### Board-to-board

- Connection of two or more printed circuit boards
- 180° or 90° angle possible



### Component-to-board

- Direct contact between the connector and the printed circuit board
- No printed circuit board socket base required



### Wire-to-board

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


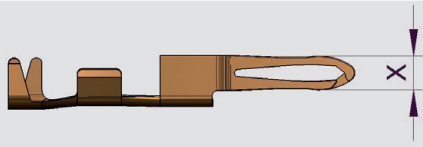
## QUALIFICATION

In our test laboratory, all major tests for assessing the connection can be 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 can be agreed on with the customer depending on the application.

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

## TYPICAL CHARACTERISTIC VALUES

Part		Printed Circuit Board	
Material (standard):	CuSn6, CuNiSi, CuFeP	Material:	FR4
Material thickness:	0.3 mm; 0.4 mm; 0.8 mm	Thickness:	1.6 mm (standard)
Plating SKEDD:	Ag, Au or Sn on Ni	Printed circuit board 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 (X)	1.55 mm	1.7 mm	2.8 mm	1.9 mm	2.8 mm

The characteristic 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 printed circuit board affects the ampacity (heat management).

## FIND OUT MORE

We offer a broad portfolio from one source. We would be pleased to inform you about:



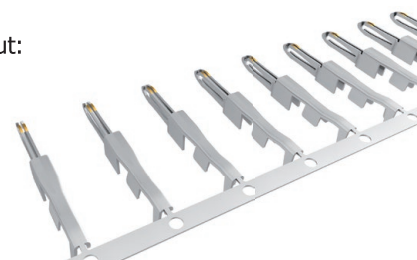
### Prototyping

Production of sample parts with SKEDD forks or press-fit zones



### Press-fit Zones

Compliant press-fit technology for solder-free applications



### Plating Technology

Surface plating for SKEDD contacts & press-fit zones

**Diehl Metal Applications GmbH**  
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**14167 Berlin**  
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