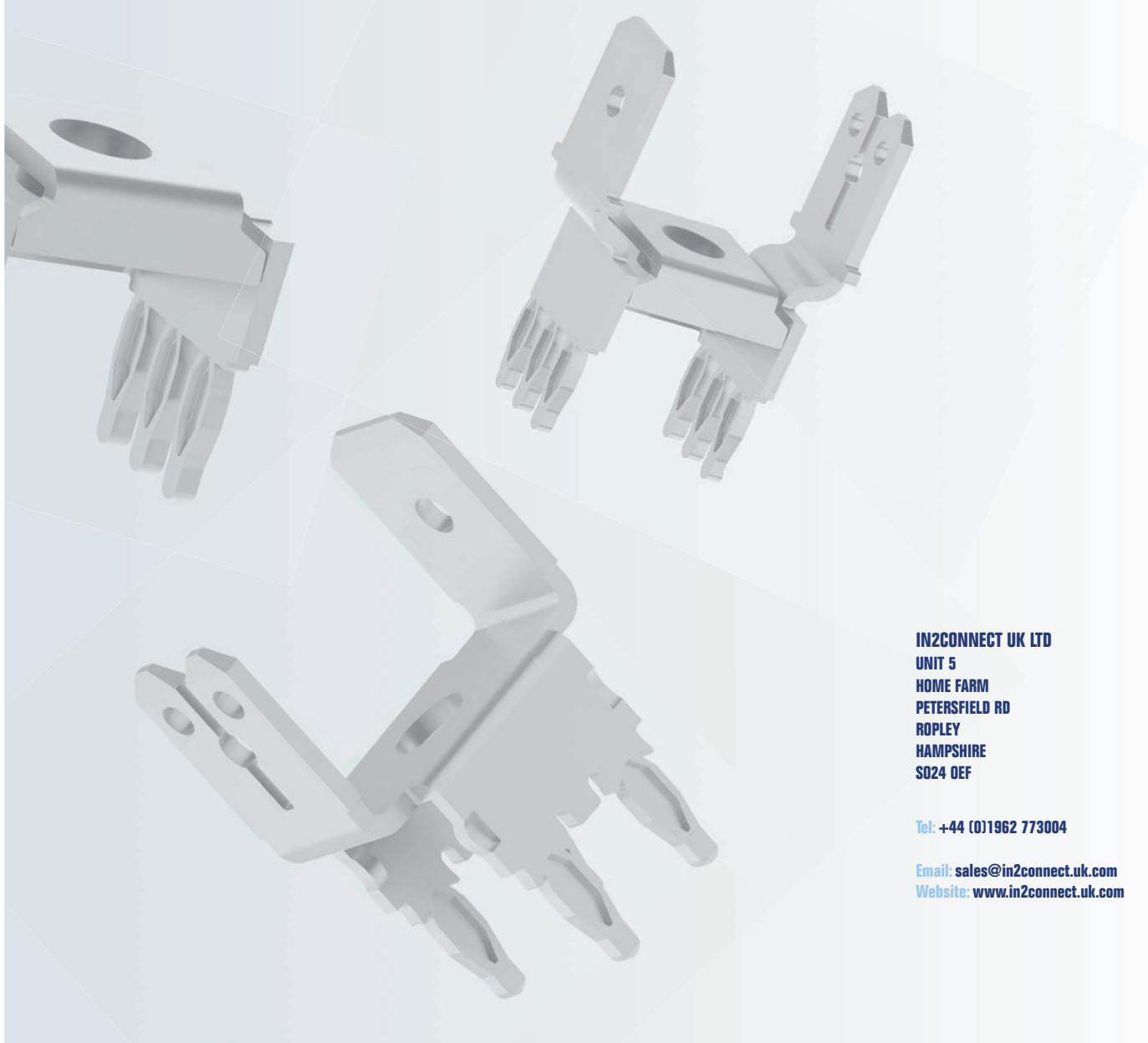




IN2CONNECT
ELECTRONIC CONNECTORS

Power Terminals



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Power Terminals - Power Supply on the PCB

Power Supply Connections based on Press-Fit Technology

Opt power terminals and flat plugs are specially designed to provide power supply connections to circuit boards. The cable is connected using a cable lug that is screwed in place or via a tab terminal (Faston).

Key Features:

- easy connection of power cables
- individual variants such as angled or offset connectors are possible
- easy processing via press-in
- accessories: M4 or M5 screws

Applications:

- power supply through screw connection or faston contact

Termination



Press-fit

Mating Configuration

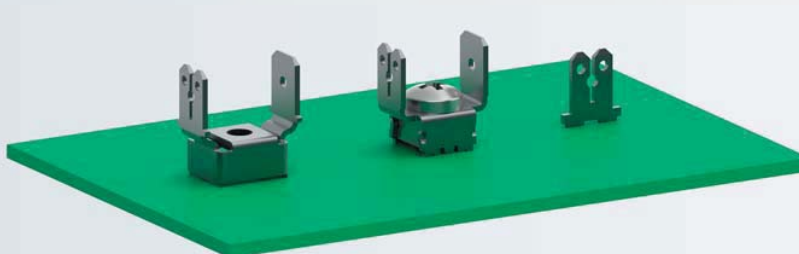





Cable-to-Board

Application



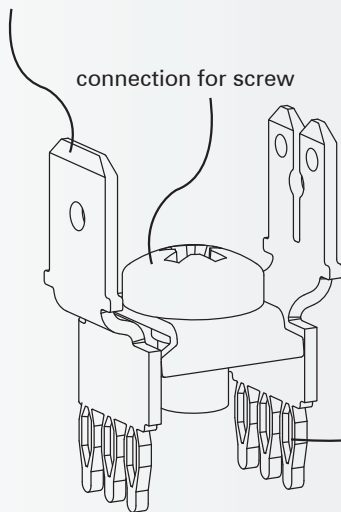
Power



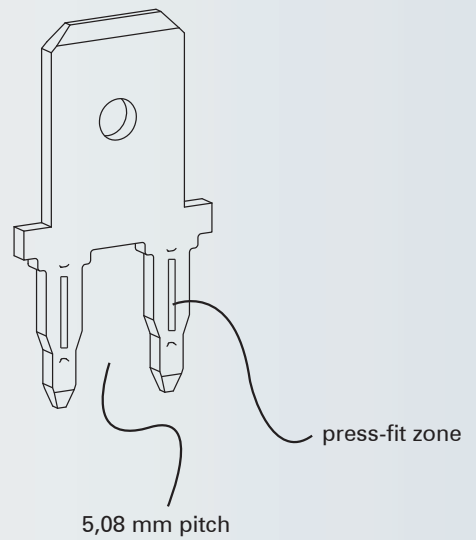
Type	Number of pins	Termination	Page reference
 5.08 x 7.62	4	Press-fit M4 / M5	p. 286
 5.08 x 10.16	4 / 6 / 8 / 9	Press-fit M4	p. 288
 Blade connector	1 / 2	Press-fit	p. 290

connection for faston contact

connection for screw



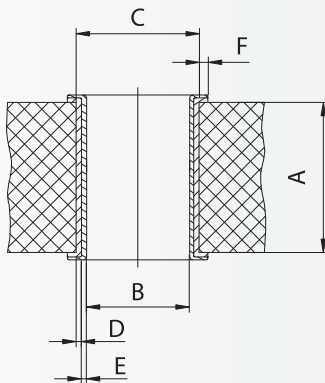
press-fit zone Tcom press®



Technical Specifications

Technical Specifications	Power Terminals / Blade connector		
	Pitch 5.08 x 7.62 mm	Pitch 5.08 x 10.16 mm	Blade connector
Basics			
Termination	Press-fit		
Operating temperature	-55°C to +125°C		
Material			
Contact material	Copper alloy		
Contact surface	2-8 µm Sn		
Mechanical			
Insertion force	Type 150 N/Pin	max. 300 N/Pin	
Retention force	min. 60 N/Pin		
Electrical			
Operational current*	20°C: 45 A 70°C: 30 A 100°C: 25 A	20°C: 25 A 70°C: 20 A 100°C: 15 A	
Processing			
Thread	M4 / M5	M4	-
Max. tightening or torque	1.3 Nm		-
Packaging	Bulk		
Approval			
Environment	RoHS compliant		

*The operational current is determined by the printed circuit board, the cable diameter and the cable lug used.



Hole Specifications Press-fit

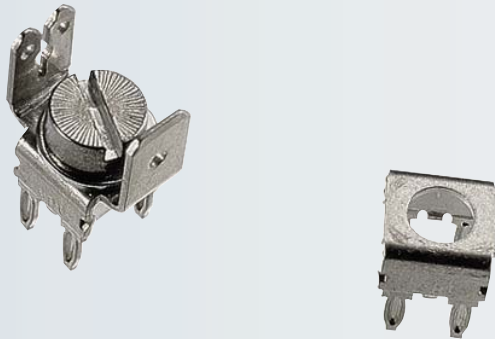
Plated through-hole according to IEC 60352-5

ept offers adapted press-fit zones for various new board surfaces.

		Pitch 5.08 x 10.16 mm	Pitch 5.08 x 7.62 mm
	Nominal hole	Ø 1.45 mm	Ø 1.6 mm
imm. Sn printed circuit boards			
A	PCB thickness	min. 2.9 mm	min. 2.9 mm
B	Plated hole	Ø 1.45 + 0.09/- 0.06 mm	Ø 1.6 + 0.09/- 0.06 mm
C	Drill hole	1.6 ± 0.025 mm	1.75 ± 0.025 mm
D	Cu plating	min. 25 µm	min. 25 µm
E	imm. Sn plating	max. 1.5 µm	max. 1.5 µm
F	Annular ring	min. 0.1 mm	min. 0.1 mm
Ni, Au printed circuit boards			
A	PCB thickness	min. 2.9 mm	min. 2.9 mm
B	Plated hole	Ø 1.45 + 0.09/- 0.06 mm	Ø 1.6 + 0.09/- 0.06 mm
C	Drill hole	1.6 ± 0.025 mm	1.75 ± 0.025 mm
D	Cu plating	min. 25 µm	min. 25 µm
E	Ni, Au plating	0.05 – 0.2 µm Au over 2.5 – 5 µm Ni	0.05 – 0.2 µm Au over 2.5 – 5 µm Ni
F	Annular ring	min. 0.1 mm	min. 0.1 mm
HAL Sn printed circuit boards			
A	PCB thickness	min. 2.9 mm	min. 2.9 mm
B	Plated hole	Ø 1.45 + 0.09/- 0.06 mm	Ø 1.6 + 0.09/- 0.06 mm
C	Drill hole	1.6 ± 0.025 mm	1.75 ± 0.025 mm
D	Cu plating	min. 25 µm	min. 25 µm
E	HAL Sn	5 – 15 µm	5 – 15 µm
F	Annular ring	min. 0.1 mm	min. 0.1 mm

Power Terminals

5.08 x 7.62 mm



Type: Power Terminal

Termination: Press-fit

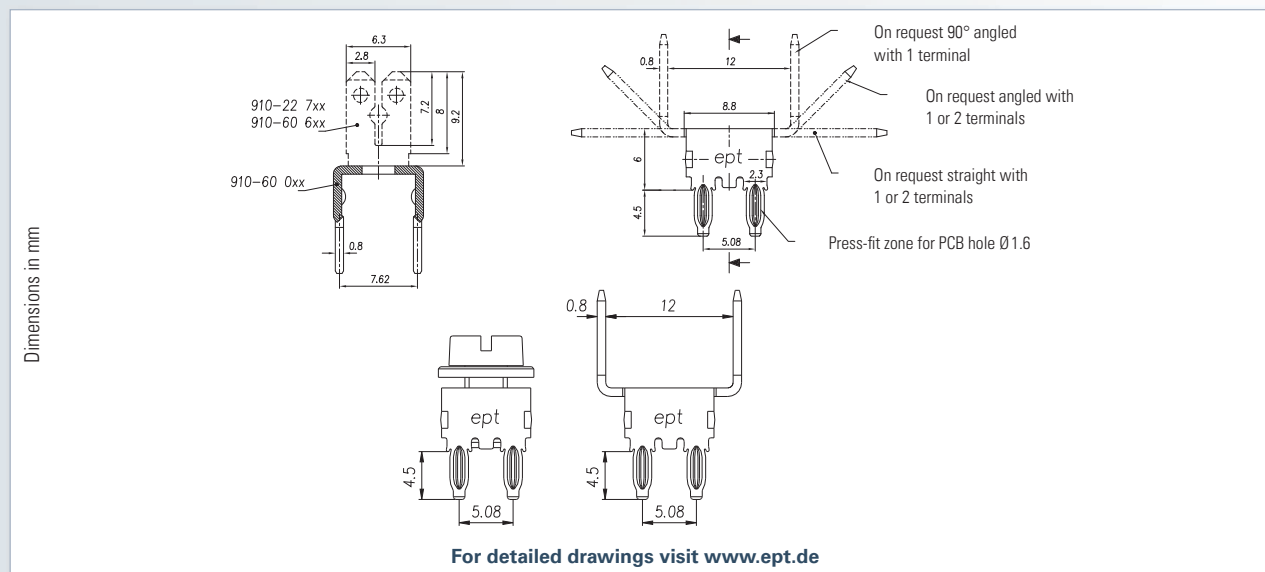
Pitch: 5.08 x 7.62 mm

Operational current: 20° 45 A, 70° 30 A, 100° 25 A

Packaging: Bulk

Standard: 

Technical Specifications on page 284



Accessories

- Screws DIN 84 p. 292
- Washer p. 292
- Lock nut p. 292
- Philips screw p. 292
- Processing tools p. 324





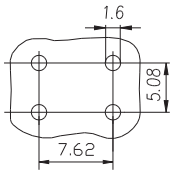
Application:



Power supply through screwed connection or faston contact



Press-fit - Thread M4





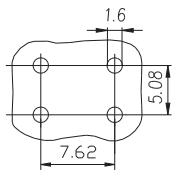
Pins	Contact arrangement				
		Part number			
4		910-60045	910-22015	910-60645/1	910-22715/1

On request

- with 1 or 2 terminals angled
- with 1 or 2 terminals straight
- with 1 terminal 90°



Press-fit - Thread M5

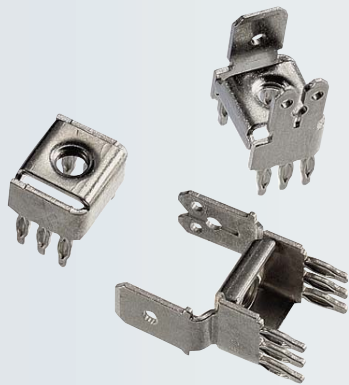
Pins	Contact arrangement				
		Part number			
4		910-60050	910-22020	910-60650/1	910-22720/1

On request

- Philips screw
- with 1 or 2 terminals angled
- with 1 or 2 terminals straight
- with 1 terminal 90°

Power Terminals ■ ■ ■

5.08 x 10.16 mm



Type: Power Terminal

Termination: Press-fit

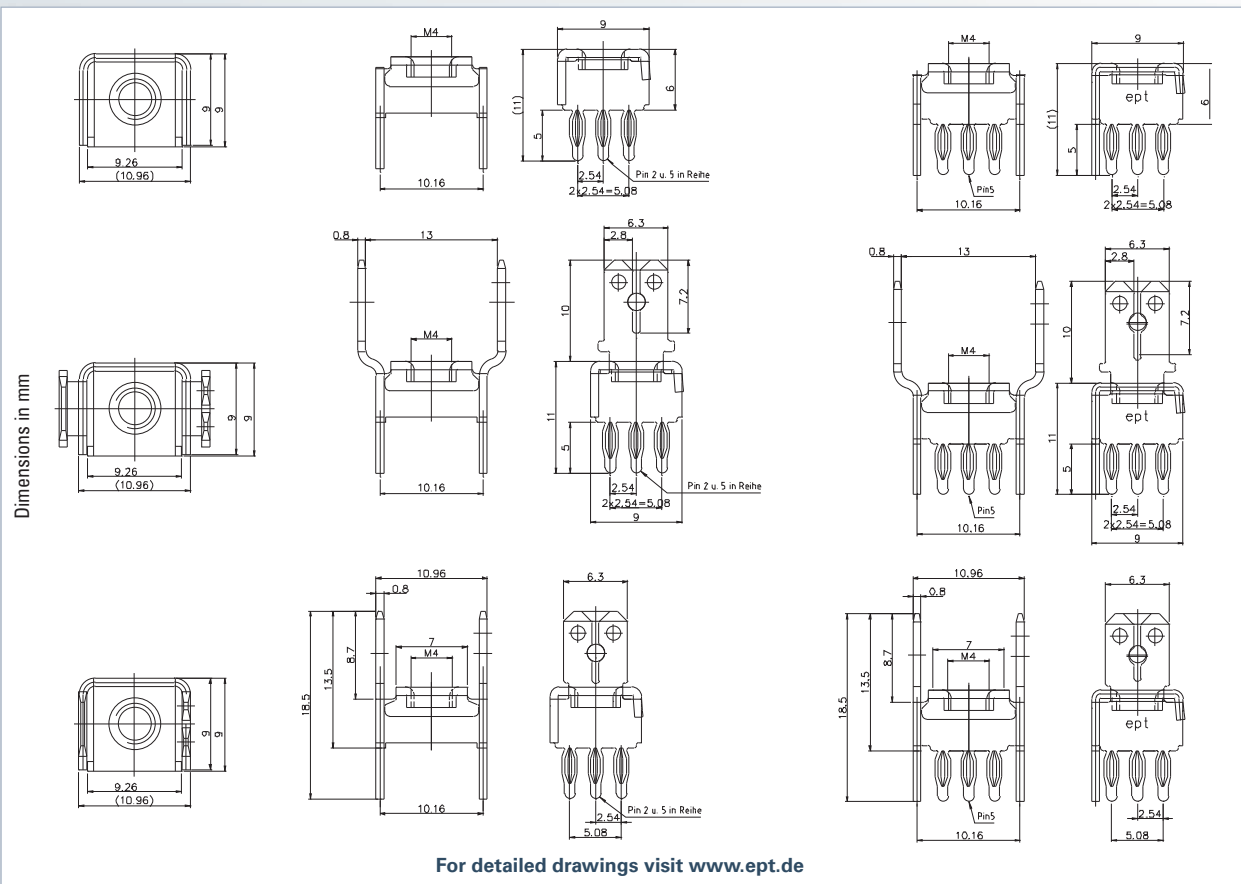
Pitch: 5.08 x 10.16 mm

Operational current: 20° 45 A, 70° 30 A, 100° 25 A

Packaging: Bulk

Standard: RoHS COMPLIANT

Technical Specifications on page 284



Accessories

- Processing tools p. 324
- Washer p. 292
- Screws DIN 84 p. 292
- Philips screw p. 292

Application:

Power supply through screwed connection or faston contact



Press-fit - Thread M4

Pins	Contact arrangement	Part number		
4		911-32004	911-32244	911-32044
6		911-32006	911-32246	911-32046
8		911-33008	911-33248	911-33048
9		911-33009	911-33249	911-33049

Power Terminals

Blade Connector



Type: Blade connector

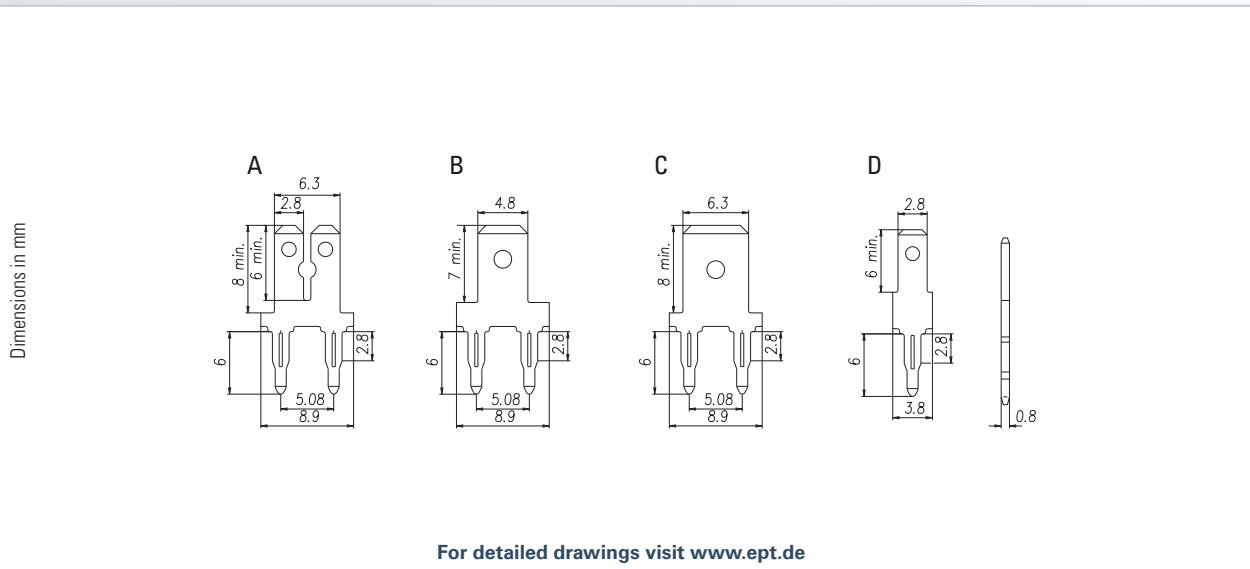
Termination: Press-fit

Operational current: 20° 25 A, 70° 20 A, 100° 15 A

Packaging: Bulk

Standard: 

Technical Specifications on page 284



Accessories


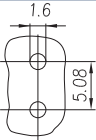
- Processing tools p. 324





Note

Plated hole \varnothing 1.6 (solid pin)

Application:

 Power supply through screwed connection or faston contact

Pins	Contact arrangement	A	B	C	D
		Part number			
1		-	-	-	090-10164
2		090-10162	090-10161	090-10163	-

Thread	Side view	Part number	
		M4	M5
Socket cap screw DIN 84		910-20145	910-20150
Philips screw		910-20146	–
Washer		910-20320	910-20330
Lock nut		910-20015	910-20020

On request

- Philips screw in M5