



2.54 mm Power Taps for Backplanes





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2.54 mm Power Taps for Backplanes

Electrical and Mechanical Characteristics



	Standard	6 pin Version	10 pin Version
Number of Pins		6	10
Technical data			
Climate Category	DIN EN 60068-1 test b	-55/125/56	-55/125/56
Bearing and operating temperature area		-55/125 °C	-55/125 °C
Current rating	IEC60512 test 5b	by ambient temperature: 20°C 40 A 70°C 24 A 100°C 8 A The operating current is determined by characteristics of the PCB and the cable termination.	by ambient temperature: 20°C 40 A 70°C 24 A 100°C 8 A The operating current is determined by characteristics of the PCB and the cable termination.
Process-conditions			
Solder temperature max.	IEC 68-2-20		
Hand soldering temperature max.		3.5 s at 350 °C	3.5 s at 350 °C
Dip soldering temperature max.		10 s at 260 °C	10 s at 260 °C
Warning		Soldering of pressfit connectors not to be recommended.	Soldering of pressfit connectors not to be recommended.
Contact and mating area			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
Transfer area			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
Environment compatibility			
Recycling		Easy recycling	Easy recycling
Assembly information			
Max. tightening torque M3		0.5 Nm	0.5 Nm
Max. tightening torque M4		1.2 Nm	1.2 Nm
Max. tightening torque 6-32 UNC		0.5 Nm	0.5 Nm
Max. tightening torque 8-32 UNC		1.2 Nm	1.2 Nm
		For assembly scheme see page 14.	For assembly scheme see page 14.

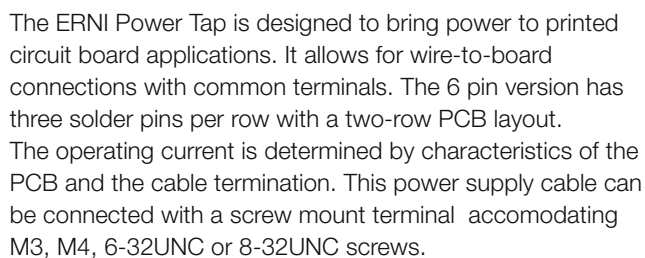


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10

5,2

6,1

(1,96)

2,54

$2 \times 2,54 = 5,08$

Leiterplatten Oberkante

9

8,64

Leiterplattenbohrbild
PCB drillhole pattern

$2 \times 2,54 = 5,08$

2,54

0,7

0,7

1,4

7,62

Dieser Bereich muß gleiches Potential auf LP-Oberfläche haben
This area must have same electrical potential on surface of PCB

$\varnothing 1 \pm 0,1$

$\Phi \varnothing 0,05$

(alle Löcher/all holes)

3



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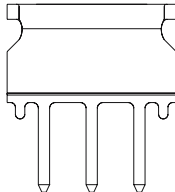
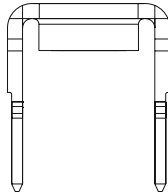
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2.54 mm Power Taps for Backplanes 6 pin with Screw Mount Terminal, Solder

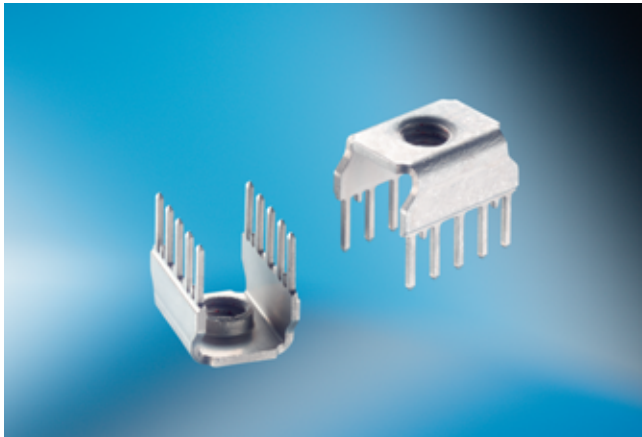


Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
6 pin Version; M3	Solder	6	10 mm	214801
6 pin Version; M4	Solder	6	10 mm	214788
6 pin Version; 6-32UNC	Solder	6	10 mm	214802
6 pin Version; 8-32UNC	Solder	6	10 mm	214803

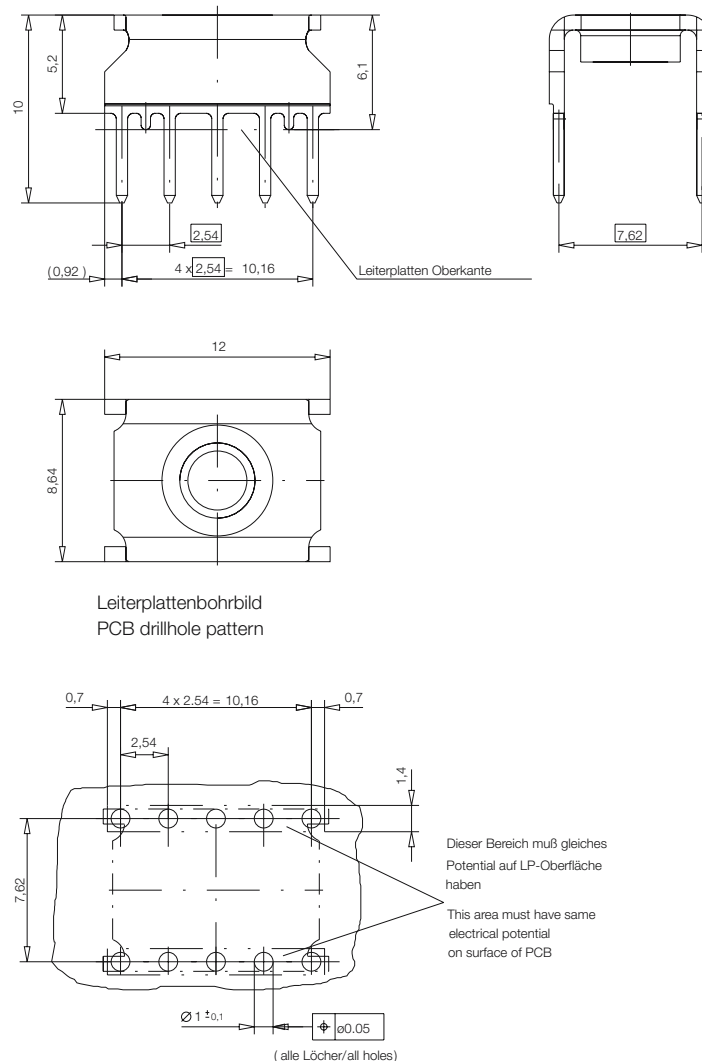


2.54 mm Power Taps for Backplanes 10 pin with Screw Mount Terminal, Solder



The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five solder pins per row with a two-row PCB layout. The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings



All dimensions in mm



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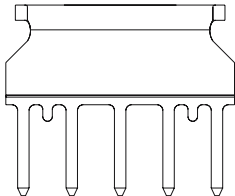
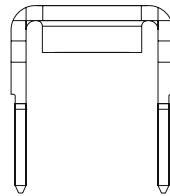
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2.54 mm Power Taps for Backplanes 10 pin with Screw Mount Terminal, Solder



Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
10 pin Version; M3	Solder	10	10 mm	214785
10 pin Version; M4	Solder	10	10 mm	214786
10 pin Version; 6-32UNC	Solder	10	10 mm	214784
10 pin Version; 8-32UNC	Solder	10	10 mm	214783

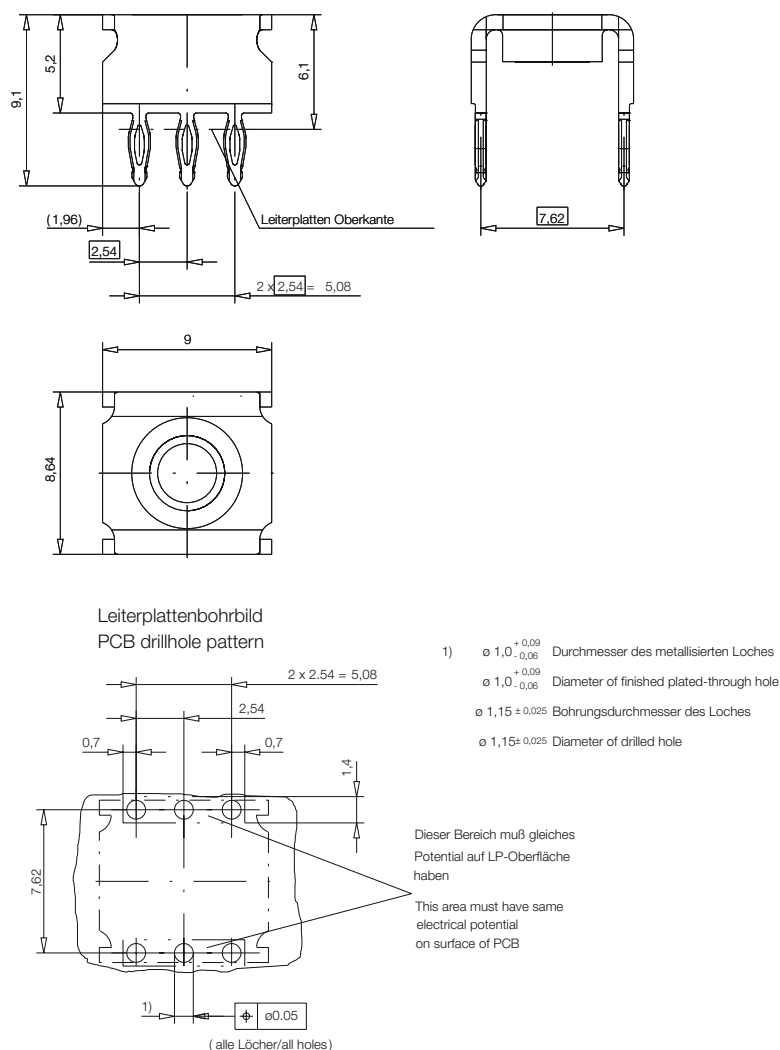


2.54 mm Power Taps for Backplanes 6 pin with Screw Mount Terminal, Pressfit



The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 6 pin version has three pressfit pins per row with a two-row PCB layout. The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings

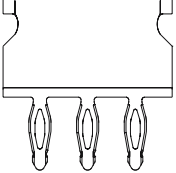
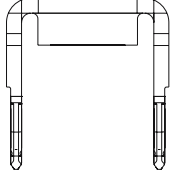


All dimensions in mm

2.54 mm Power Taps for Backplanes 6 pin with Screw Mount Terminal, Pressfit



Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
	Pressfit	6	9.1 mm	214796
	Pressfit	6	9.1 mm	214787
	Pressfit	6	9.1 mm	214797
6 pin Version; 8-32UNC	Pressfit	6	9.1 mm	214798

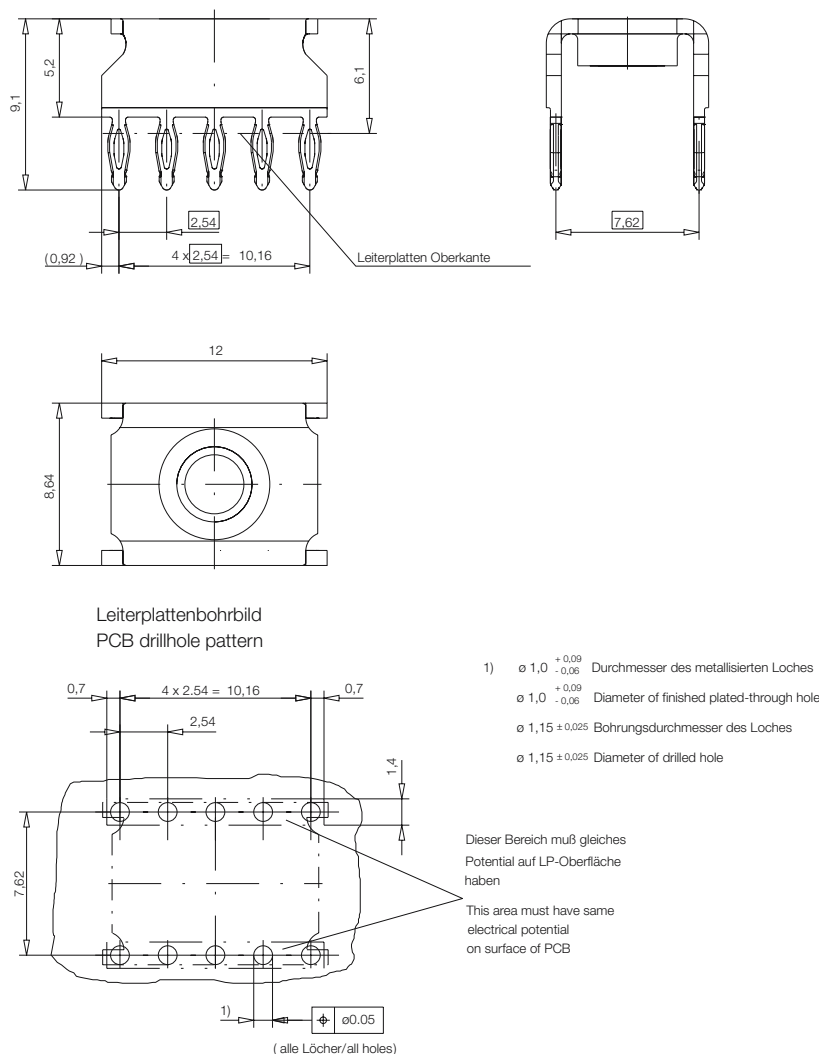


2.54 mm Power Taps for Backplanes 10 pin with Screw Mount Terminal, Pressfit



The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five pressfit pins per row with a two-row PCB layout. The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accommodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings



All dimensions in mm

2.54 mm Power Taps for Backplanes

10 pin with Screw Mount Terminal, Pressfit



Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
10 pin Version; M3	Pressfit	10	9.1 mm	214781
10 pin Version; M4	Pressfit	10	9.1 mm	214782
10 pin Version; 6-32UNC	Pressfit	10	9.1 mm	214780
10 pin Version; 8-32UNC	Pressfit	10	9.1 mm	214779



2.54 mm Power Taps for Backplanes 10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

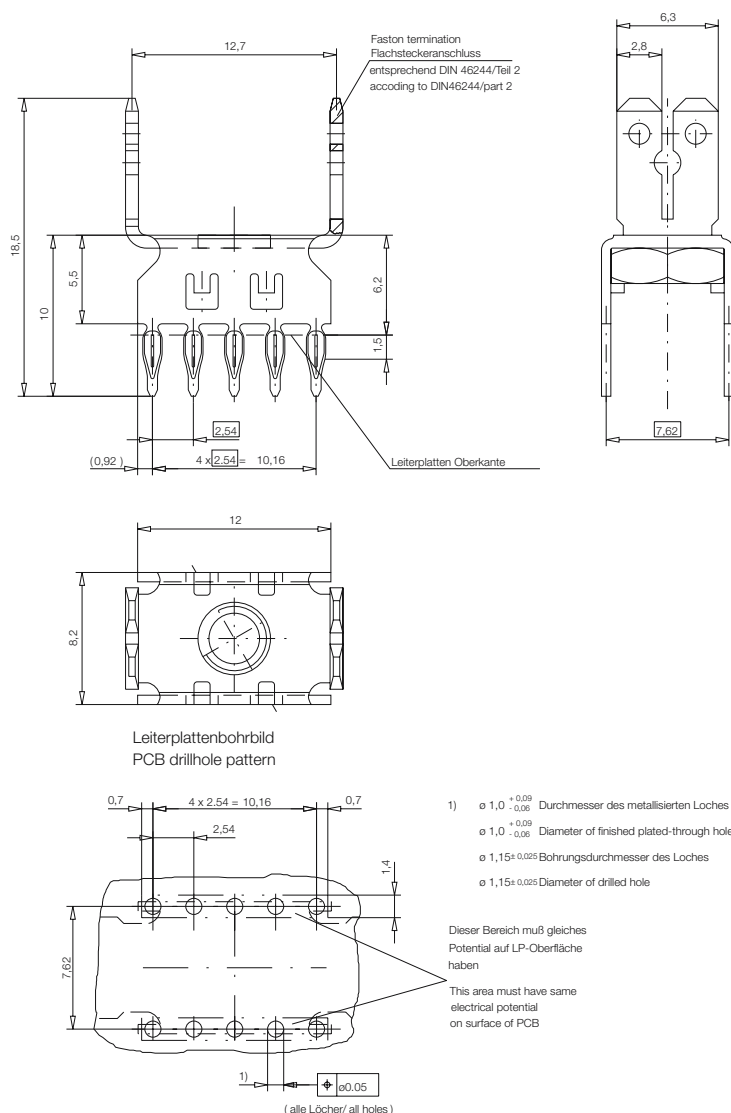


The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five pressfit pins per row with a two-row PCB layout. The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected through either slip-on pluggable terminals or a screw mount terminal.

The slip-on terminal is designed for two terminal sizes: 6.3 x 0.8 mm or 2.8 x 0.8 mm, per DIN 46244. The screw mount terminal accommodates an M4 screw.

Dimensional Drawings

90° angled Slip-on



All dimensions in mm

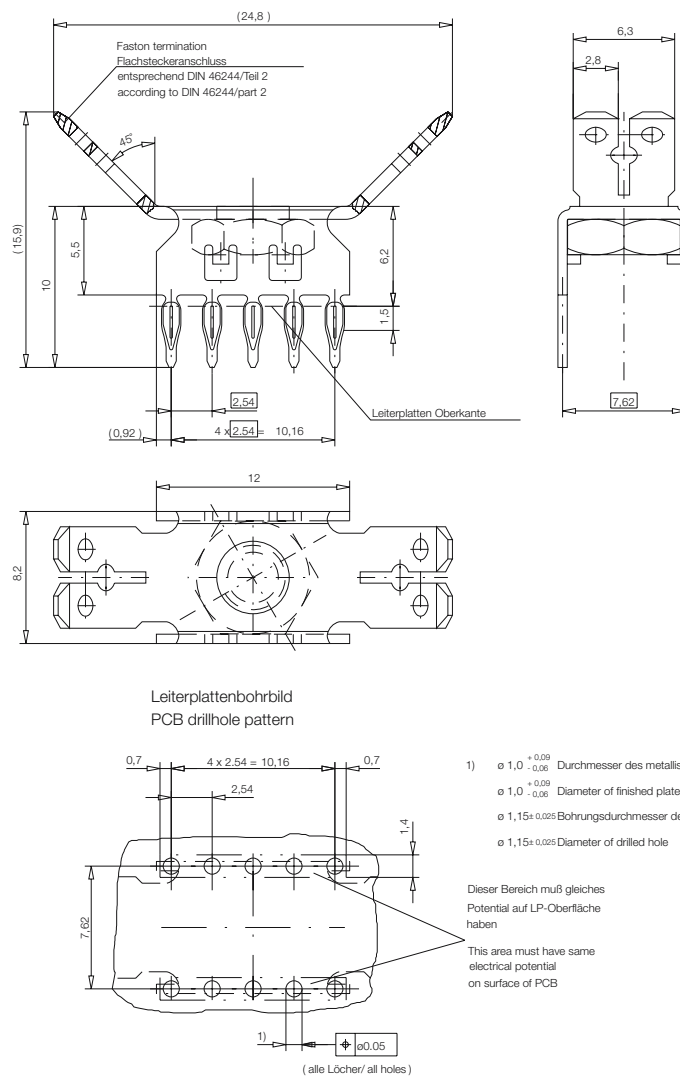


2.54 mm Power Taps for Backplanes

10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

Dimensional Drawings

45° angled Slip-on

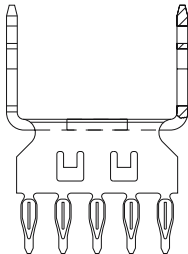
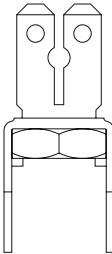
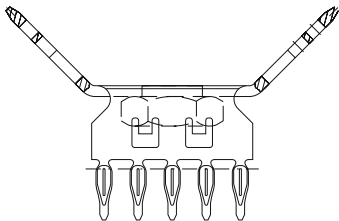
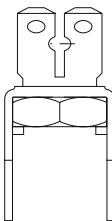


All dimensions in mm



2.54 mm Power Taps for Backplanes 10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

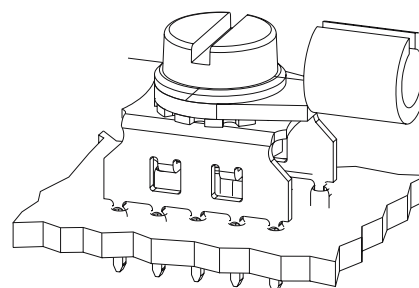
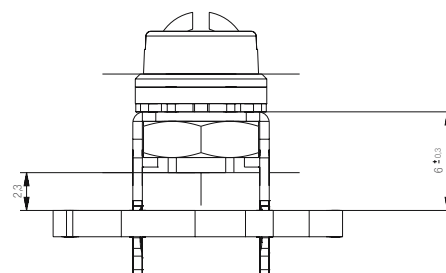
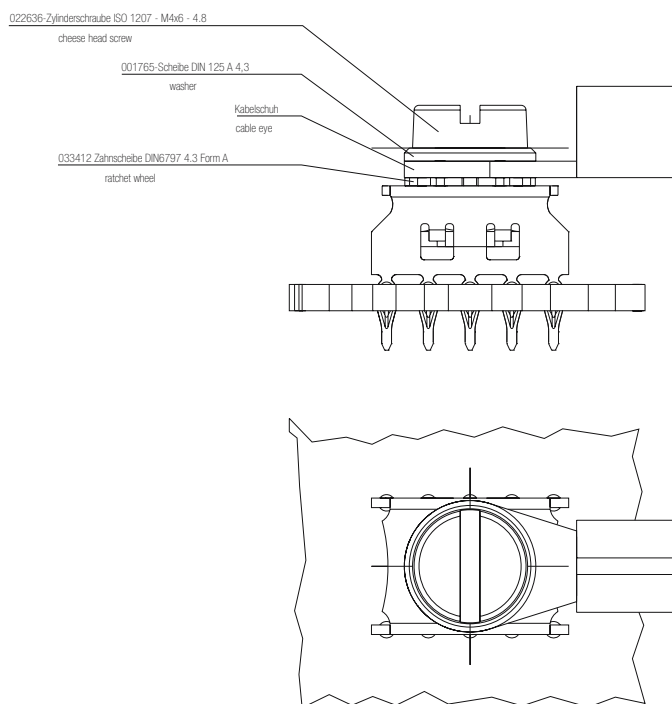
Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
	Pressfit	10	18.5 mm	134989
10 pin Version; M4 / 90° angled Slip-on	Pressfit	10	18.5 mm	134990
				
	Pressfit	10	15.9 mm	134999

2.54 mm Power Taps for Backplanes Accessories



Assembly Scheme



Ordering Information

Description	Part Number
Cheese head screw M4x6 - 4.8 ISO 1207	022636
Washer A 4.3 DIN 125	001765
Star Washer A 4,3 DIN 6797	033412

Press-In-Tooling

Ordering Information

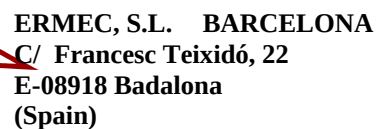
Description	Comment	Part Number
Upper Tool	With Quick Change	471870
Lower Tool	With Quick Change	220140



2.54 mm Power Taps for Backplanes

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214782	10
214783	6
214784	6
214785	6
214786	6
214787	8
214788	4
214796	8
214797	8
214798	8
214801	4
214802	4
214803	4
220140	14
471870	14



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