Electrical and Mechanical Characteristics



	Standard	B, B/2, B/3, C, C/2, C/3, Q, Q/2, Q/3, R, R/2, R/3, CD, RD, TE, E80, E160, ECC	М	
Number of Pins		20, 30, 32, 48, 64, 80, 96, 128, 160	6, 24, 42, 60, 78	
Technical data				
Climate Category	DIN EN 60068-1 test b	55/125/56	55/125/56	
Temperature range		-55/125 °C	-55/125 °C	
Current rating	IEC60512 test 5b	Ambient temperature 20 °C 2.0 A 70 °C 1.6 A 100 °C 1.0 A	Ambient temperature 20 °C 2.0 A 70 °C 1.6 A 100 °C 1.0 A	
Clearance and creepage distance		contact - contact 1.2 mm contact - ground 1.8 mm contact - ground 1.6 mm (clearance)	contact - contact 1.2 mm contact - ground 3.0 mm contact - ground 2.5 mm (clearance)	
CTI value	IEC 60112	225 (Standard and THR) 250 (Inverted Versions)	225	
Voltage rating	IEC 60664	Has to be determined according to customer application (degree of environmental pollution) according to IEC 60664	Has to be determined according to customer application (degree of environmental pollution) according to IEC 60664	
Dielectric strength	IEC 60512	contact - contact 1000 V _{rms} contact - ground 1550 V _{rms}	contact - contact 1000 V _{rms} contact - ground 1550 V _{rms}	
Contact resistance	IEC 60512 test 2a	< 20 mΩ	< 20 mΩ	
Insulation resistance	IEC 60512 test 3a	$> 10^4 \mathrm{M}\Omega$	$> 10^4 \text{M}\Omega$	
Vibration sine	IEC 60512 test 6d	10 – 2000 Hz 20 g	10 – 2000 Hz 20 g	
Contact interruption (while vibration test)	IEC 60512 test 2e	< 1 µs	< 1 µs	
Shock halfsine	IEC 60512 test 6c	50 g 11 ms	50 g 11 ms	
Contact interruption (while shock test)	IEC 60512 test 2e	< 1 µs	< 1 µs	
Mechanical operation (mating cycles)	IEC 60512 test 9a	Class 1: 500 mating cycles Class 2: 400 mating cycles	Class 1: 500 mating cycles Class 2: 400 mating cycles	
Insertion and withdrawal force	IEC 60512 test 13b	20 cont.: 18 N max. 30 cont.: 28 N max. 32 cont.: 30 N max. 48 cont.: 45 N max. 64 cont.: 60 N max. 96 cont.: 90 N max. 128 cont.: 100 N max. 160 cont.: 110 N max.	6 cont.: 5 N max. 24 cont.: 22 N max. 42 cont.: 40 N max. 60 cont.: 57 N max. 78 cont.: 74 N max. With special contacts max. 100 N	
Gauge retention force IEC 60512 wer contact test 16e		> 0.15 N	> 0.15 N	

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Electrical and Mechanical Characteristics

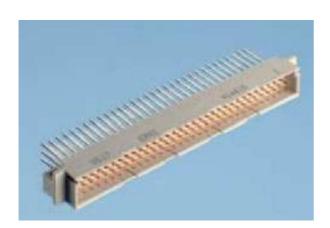


	Standard	B, B/2, B/3, C, C/2, C/3, Q, Q/2, Q/3, R, R/2, R/3, CD, RD, TE, E80, E160, ECC	M
Number of Pins		20, 30, 32, 48, 64, 80, 96, 128, 160	6, 24, 42, 60, 78
Process-conditions			
Solder temperature max.	IEC 68-2-20		
Hand soldering temperature max.		3.5 s at 350 °C	3.5 s at 350 °C
Dip soldering temperature max.		10 s at 260 °C	10 s at 260 °C
Reflow soldering temperature max.		10 s at 260 °C (THR versions)	
Warning		Soldering of pressfit connectors not recommended.	Soldering of pressfit connectors not recommended.
Materials			
Housing: Plastic material (symbol)		PBT GF PA 46 GF (THR)	PBT GF
CTI value	IEC 60112	225 (Standard and THR) 250 (Inverted Versions)	225
UL flame rating		UL 94 V-0	UL 94 V-0
UL file		E47960 (Standard and THR) E41938 (Inverted Versions)	E47960
Contact and mating area			
Base material		Cu alloy	Cu alloy
Plating		Gold plated	Gold plated
Termination area			
Base material		Cu alloy	Cu alloy
Solder, pressfit and THR		Sn	Sn
Environment compatibility			
Recycling		no flame-retardent additives, no to	oxic additives, allows easy recycling
Product-approval and cust	omer specific tests		
UL		E84703	E84703
CSA		LR62504	LR62504

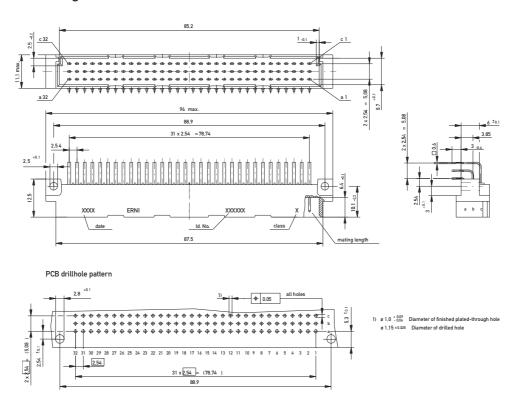
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Type C Male





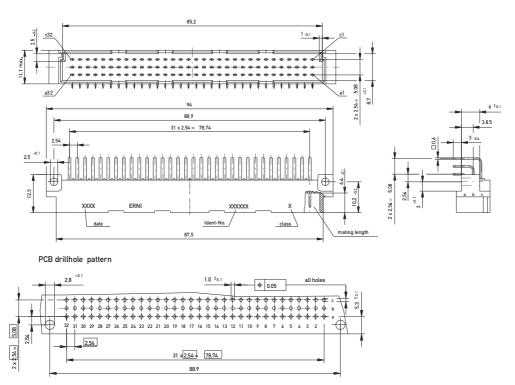
Dimensional Drawing Pressfit



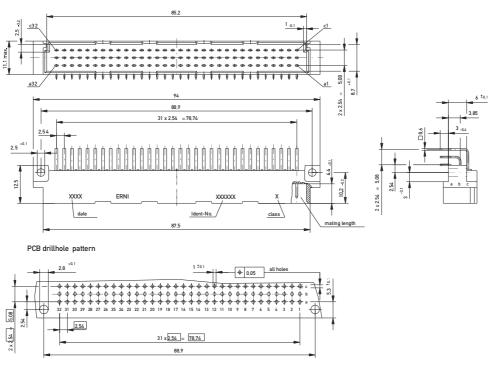
Type C Male



Dimensional Drawing Solder



Dimensional Drawing THR



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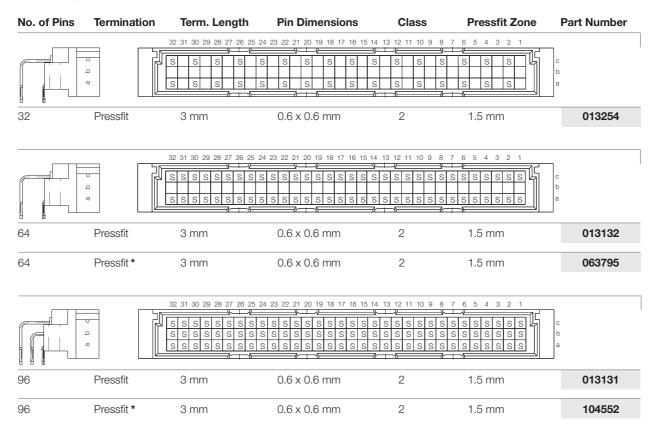
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Type C Male



Ordering Information

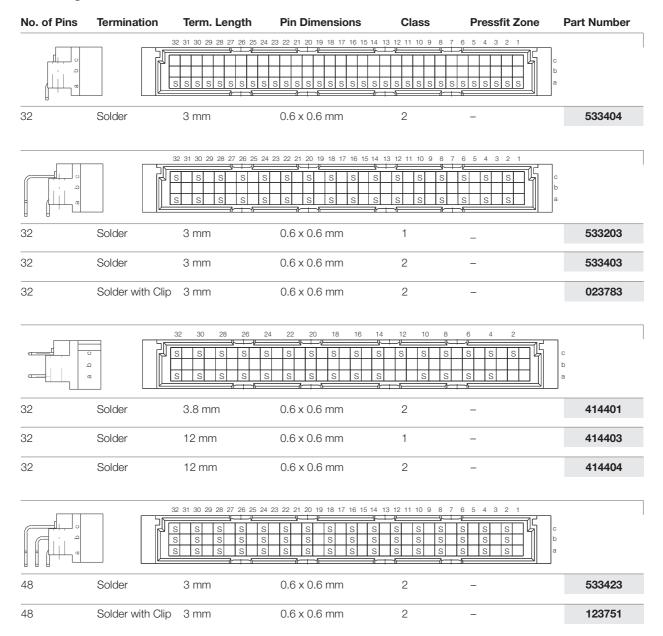


^{*}For flat press-in tool.

Type C Male



Ordering Information



Type C Male

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Ordering Information

No. of Pins	Termination	Term. Length	Pin Dimensions	Class	Pressfit Zone	Part Number			
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS									
64	Solder	3 mm	0.6 x 0.6 mm	1	_	533201			
64	Solder	3 mm	0.6 x 0.6 mm	2	_	533401			
64	Solder with Clip	3 mm	0.6 x 0.6 mm	2	_	004413			
	a b c	32 31 30 29 28 27 26 25 24	23 22 21 20 19 18 17 16 15 14 13 S S S S S S S S S S S S S S S S S S S		6 5 4 3 2 1 S S S S S S S S S S S S S S S S S S S				
64	Solder	3.8 mm	0.6 x 0.6 mm	1	_	414406			
64	Solder	3.8 mm	0.6 x 0.6 mm	2	-	414407			
64	Solder	12 mm	0.6 x 0.6 mm	1	-	414409			
64	Solder	12 mm	0.6 x 0.6 mm	2	_	414410			
		32 31 30 29 28 27 26 25 24 S S S S S S S S S S S S S S S S S S S	S S S S S S S S S S S S S S S S S S S			a			
96	Solder	3 mm	0.6 x 0.6 mm	1	_	533202			
96	Solder	3 mm	0.6 x 0.6 mm	2	_	533402			
96	Solder with Clip	3 mm	0.6 x 0.6 mm	2	_	434325			
# L ±0;	9 p c	8 S S S S S S S S S S S S S S S S S S S	23 22 21 20 19 18 17 16 15 14 13 S S S S S S S S S S S S S S S S S S S	S S S S S S	6 5 4 3 2 1 S S S S S S S S S S S S S S S S S S S				
96	Solder	3.8 mm	0.6 x 0.6 mm	1	-	414412			
96	Solder	3.8 mm	0.6 x 0.6 mm	2	_	414413			
96	Solder	12 mm	0.6 x 0.6 mm	1	_	414415			
96	Solder	12 mm	0.6 x 0.6 mm	2	-	414416			

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Type C Male



Ordering Information

