



Pushing Performance



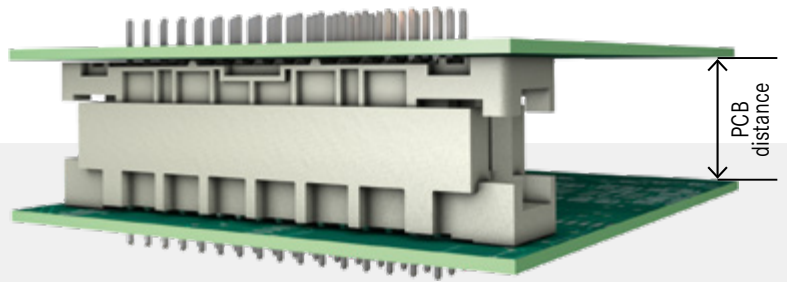
People | Power | Partnership

HARTING

Selection Guide for Mezzanine Applications

HARTING solutions for Mezzanine connections

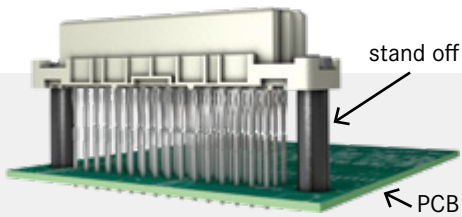
HARTING Connectivity & Networks generates PCB connectivity for all automation lifelines – namely data, signal and power. In line with this strategic course, the HARTING board-to-board connector range provides solutions for all specific user applications. A consistent, ongoing innovation process ensures that



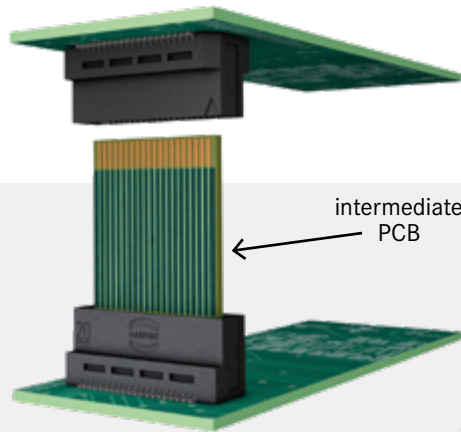
users of HARTING's continuously expanding connector range always benefit from the latest connector technology. Always the best solution for your I4.0 device.

PCB distance	har-flex®				SEK
	har-flex® Signal	har-flex® Hybrid	har-flex® Power	har-flex® HD-Card Edge	Mezzanine
40 mm					
35 mm					
30 mm					
25 mm					
20 mm					
15 mm					
10 mm					
5 mm					
Connector Range					
Pitch	1.27 mm	Signal: 1.27 mm Power: 2.54 mm	2.54 mm	0.8 mm	2.54 mm
Number of pins	6 - 100	Power + Signal: 2+08 4+16 6+26 8+36	2 - 12	20, 40, 60, 80, 100, 120, 140	6 - 64
Number of rows	2	Signal: 2 Power: 1	1	2	2
Current per pin	2.1 A - 3.3 A	Signal: 2.1 A - 3.3 A Power: 20 A	18 A - 29 A	3 A	2 A
Termination	SMT, THR	SMT, THR	SMT, THR	SMT, THR	THT THR Press-in

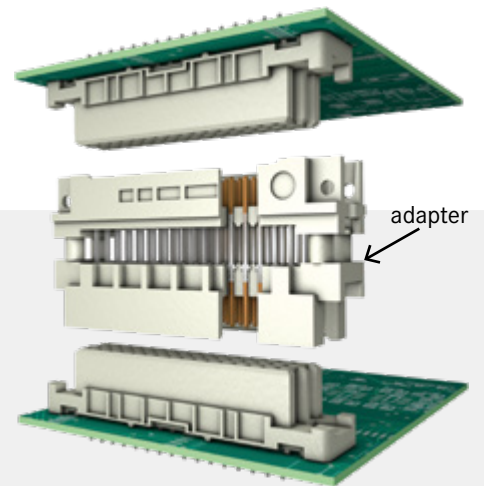
Usage of stand offs:



Usage of intermediate PCB:



Usage of adapter:



					PCB distance	
						40 mm
						35 mm
						30 mm
						25 mm
						20 mm
						15 mm
						10 mm
						5 mm
DIN 41612				har-modular [®] <small>CREATE YOUR OWN</small>	Connector Range	
DIN Signal	DIN Signal type M	DIN Power types D, E, F	DIN Power type H		Pitch	
2.54 mm	2.54 mm	5.08 mm	5.08 mm	2.54 mm 5.08 mm		
20 - 96	24+8 42+6 60+4 78+2	32, 48	15	1 - 144	Number of pins	
2 - 3	3	2 - 3	2	1 - 3	Number of rows	
2 A	Signal: 2 A Power: 40 A	6 A	15 A	2, 6, 15 A 10, 20, 40 A	Current per pin	
THT THR Press-in	THT Press-in	THT Press-in	THT Press-in	THT THR	Termination	

PCB distance	Type	Pictures	Number of contacts	Working current max. (at 20°C)	Termination*	Female	Male	Termination*
						Part number	Part number	
8.0 - 9.5 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 21 xxx 2601 000	15 11 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 100	2.1 A - 2.2 A				
9.5 - 11.0 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 21 xxx 2601 000	15 12 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 100	2.1 A - 2.2 A				
10.8 - 12.3 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 22 xxx 2601 000	15 11 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 100	2.1 A - 2.2 A				
11.1 - 12.6 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 21 xxx 2601 000	15 13 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 80	2.1 A - 2.2 A				
12.3 - 13.8 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 22 xxx 2601 000	15 12 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 100	2.1 A - 2.2 A				
13.9 - 15.4 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 22 xxx 2601 000	15 13 xxx 26 01 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 80	2.1 A - 2.2 A				
15.4 - 16.9 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 23 xxx 2601 000	15 11 xxx 2601 000	SMT
			34 - 68	2.2 A - 2.4 A				
			70 - 80	2.1 A - 2.2 A				

Please insert digit xxx for number of contacts; see column "Number of contacts"
*Terminations: SMT = surface mount technology; THR = through hole reflow

PCB distance	Type	Pictures	Number of contacts	Working current max. (at 20°C)	Termination*	Female	Male	Termination*
						Part number	Part number	
16.9 - 18.4 mm	har-flex®		6 - 32	2.4 A	SMT	15 23 xxx 2601 000	15 12 xxx 2601 000	SMT
				-				
			34 - 68	3.3 A	THR	15 23 xxx 2401 000	15 12 xxx 2401 000	THR
				2.2 A				
			70 - 80	-	THR	15 23 xxx 2401 000	15 12 xxx 2401 000	THR
				2.4 A				
	2.1 A							
	2.2 A							
18.5 - 20.0 mm	har-flex®		6 - 32	2.4 A	SMT	15 23 xxx 2601 000	15 13 xxx 2601 000	SMT
				-				
			34 - 68	3.3 A	THR	15 23 xxx 2401 000	15 13 xxx 2401 000	THR
				2.2 A				
			70 - 80	-	THR	15 23 xxx 2401 000	15 13 xxx 2401 000	THR
				2.4 A				
	2.1 A							
	2.2 A							

har-flex® Hybrid & Power

PCB distance	Type	Pictures	Number of contacts	Working current max. per power contact (at 20°C)	Termination*	Female	Male	Termination*
						Part number	Part number	
12.3 - 13.8 mm	har-flex® Hybrid		2+08	20 A	SMT	15 82 xxx 2601 000	15 72 xxx 2601 000	SMT
			6+26	21.5 A	THR	15 82 xxx 2701 000	15 72 xxx 2701 000	THR
	har-flex® Power		2 - 12	18 A	SMT	15 62 xxx 2601 000	15 52 xxx 2601 000	SMT

har-flex® HD-Card Edge

Using two har-flex® HD-Card Edge connectors and an adapter PCB, it is possible to realise any mezzanine distance beginning at 20 mm.

Also, the adapter card can be customised to add functionalities and convert pole counts, for example from 40 to 100 poles.



PCB distance	Type	Pictures	No. of contacts	Termination*	Part number	Termination*
20.0 - ∞ mm	har-flex® HD-Card Edge		20, 40, 60	SMT	2 x 15 03 xxx 2001 000 ¹⁾ mating with intermediate PCB	SMT
				SMT	2 x 15 03 xxx 2601 000 ²⁾ mating with intermediate PCB	SMT
				THR	2 x 15 03 xxx 2401 000 ³⁾ mating with intermediate PCB	THR
			80, 100, 120, 140	SMT	2 x 15 04 xxx 2001 000 ¹⁾ mating with intermediate PCB	SMT
				SMT	2 x 15 04 xxx 2601 000 ²⁾ mating with intermediate PCB	SMT
				THR	2 x 15 04 xxx 2401 000 ³⁾ mating with intermediate PCB	THR

Please insert digit xxx for number of contacts; see column "Number of contacts"

*Terminations: SMT = surface mount technology; THR = through hole reflow

¹⁾without hold-downs ²⁾with SMT hold-downs ³⁾with THR hold-downs

har-modular® allows to combine each module to each other with a total connector length between 20.32 and 172.72 mm. You can choose the modules from the following list or build your own connector in our online configurator on: https://b2b.harting.com/ebusiness/en/hcp/HAR_MOD_CONF/config



Based on MOQ of 200 pieces preassembled connectors can be ordered. Please get in contact with your local sales organisation.




PCB distance	har-modular®					Female		Male	
	Type	Pictures	Number of contacts	Current	Length (mm)	Termination*	Part number	Part number	Termination*
16.8 - 18.6 mm	C9		9	2 A	10.16	THR THT	02 52 909 1101	02 53 909 1101	THR THT
	F4		4	6 A	10.16	THR THT	02 52 904 1201	02 53 904 1201	THR THT
	H3		3	15 A	20.32	THR THT	02 52 903 1301	02 53 903 1301	THR THT
	M1 ¹⁾	 power contacts	1	Up to 40 A	10.16	THR THT	02 52 901 0451	02 53 901 0451	THR THT
						THT	09 03 000 6225	09 03 000 6136	THT
	P		2 sets of guiding modules (P and/or T) are needed per connector, one on each end	5.08	without clip	02 52 900 0001	02 53 900 0002	Fixing pin	
					with clip	02 52 900 0002	02 53 900 0006	Guiding pin	
	T	 	10.16	02 52 900 0003	02 53 900 0001	Fixing pin			
				02 09 500 0004 ²⁾	02 53 900 0003	02 53 900 0004	Guiding pin		
	Spacer 5		(-)	(-)	5.08	02 52 900 0004	02 53 900 0002	Fixing pin	
02 53 900 0005						02 53 900 0006	Guiding pin		
Spacer 10		(-)	(-)	10.06	02 52 900 0003	02 53 900 0001	Fixing pin		
					02 53 900 0003	02 53 900 0004	Guiding pin		

*Terminations: THR = through hole reflow; THT = through hole technology (wave solder)

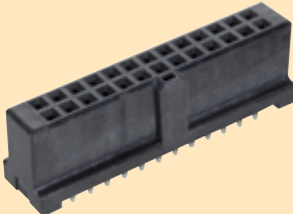
¹⁾Special contacts for high power, high voltage and fiber optic see catalogue DIN 41612 or online configurator

²⁾Termination: screw

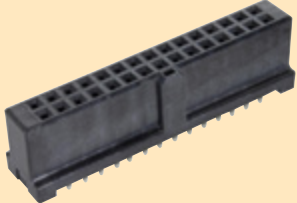
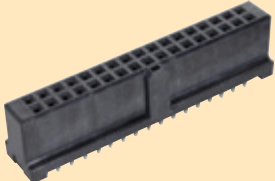
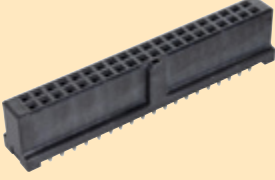
PCB distance	<i>har-modular</i> [®]			
16.8 - 18.6 mm	Fixing rails	The modules are combined to each other by two fixing rails. Please choose depending on total length of your connector.	Connector length	Part number
		<i>har-modular</i> [®] fixing rail 20.22	20.32 mm	02 09 500 1004
		<i>har-modular</i> [®] fixing rail 25.30	25.40 mm	02 09 500 1005
		<i>har-modular</i> [®] fixing rail 30.38	30.48 mm	02 09 500 1006
		<i>har-modular</i> [®] fixing rail 35.46	35.56 mm	02 09 500 1007
		<i>har-modular</i> [®] fixing rail 40.54	40.64 mm	02 09 500 1008
		<i>har-modular</i> [®] fixing rail 45.62	45.72 mm	02 09 500 1009
		<i>har-modular</i> [®] fixing rail 50.70	50.80 mm	02 09 500 1010
		<i>har-modular</i> [®] fixing rail 55.78	55.88 mm	02 09 500 1011
		<i>har-modular</i> [®] fixing rail 60.86	60.96 mm	02 09 500 1012
		<i>har-modular</i> [®] fixing rail 65.94	66.04 mm	02 09 500 1013
		<i>har-modular</i> [®] fixing rail 71.02	71.12 mm	02 09 500 1014
		<i>har-modular</i> [®] fixing rail 76.10	76.20 mm	02 09 500 1015
		<i>har-modular</i> [®] fixing rail 81.18	81.28 mm	02 09 500 1016
		<i>har-modular</i> [®] fixing rail 86.26	86.36 mm	02 09 500 1017
		<i>har-modular</i> [®] fixing rail 91.34	91.44 mm	02 09 500 1018
		<i>har-modular</i> [®] fixing rail 96.42	96.52 mm	02 09 500 1019
		<i>har-modular</i> [®] fixing rail 101.50	101.60 mm	02 09 500 1020
		<i>har-modular</i> [®] fixing rail 106.58	106.68 mm	02 09 500 1021
		<i>har-modular</i> [®] fixing rail 111.66	111.76 mm	02 09 500 1022
		<i>har-modular</i> [®] fixing rail 116.74	116.84 mm	02 09 500 1023
		<i>har-modular</i> [®] fixing rail 121.82	121.92 mm	02 09 500 1024
		<i>har-modular</i> [®] fixing rail 126.90	127.00 mm	02 09 500 1025
		<i>har-modular</i> [®] fixing rail 131.98	132.08 mm	02 09 500 1026
		<i>har-modular</i> [®] fixing rail 137.06	137.16 mm	02 09 500 1027
		<i>har-modular</i> [®] fixing rail 142.14	142.24 mm	02 09 500 1028
		<i>har-modular</i> [®] fixing rail 147.22	147.32 mm	02 09 500 1029
		<i>har-modular</i> [®] fixing rail 152.30	152.40 mm	02 09 500 1030
<i>har-modular</i> [®] fixing rail 157.38	157.48 mm	02 09 500 1031		
<i>har-modular</i> [®] fixing rail 162.46	162.56 mm	02 09 500 1032		
<i>har-modular</i> [®] fixing rail 167.54	167.64 mm	02 09 500 1033		
<i>har-modular</i> [®] fixing rail 172.62	172.72 mm	02 09 500 1034		

PCB distance	Type	Pictures	Number of contacts	Performance level	Female			Male			
					Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)	
14.7 - 16.7 mm	SEK		6	PL2	2.9	THT THR	09 19 506 6824	09 18 506 6324 09 19 506 6324	THT THR	2.9	
						THR (T&R)	09 19 506 6824741	09 19 506 6324740 09 19 506 6324741	THR (T&R)		
					4.5	THT THR	09 19 506 6822	09 18 506 6322 09 19 506 6322	THT THR	4.5	
				Press-in	09 19 506 6829	09 18 506 6329	Press-in	5.5			
					PL3	2.9	THT THR	09 19 506 7824	09 18 506 7324 09 19 506 7324	THT THR	2.9
							THR (T&R)	09 19 506 7824741	09 19 506 7324740 09 19 506 7324741	THR (T&R)	
			4.5	THT THR		09 19 506 7822	09 18 506 7322 09 19 506 7322	THT THR	4.5		
			Press-in	09 19 506 7829	09 18 506 7329	Press-in	5.5				
				10	PL2	2.9	THT THR	09 19 510 6824	09 18 510 6324 09 19 510 6324	THT THR	2.9
							THR (T&R)	09 19 510 6824741	09 19 510 6324740 09 19 510 6324741	THR (T&R)	
			4.5			THT THR	09 19 510 6822	09 18 510 6322 09 19 510 6322	THT THR	4.5	
			Press-in		09 19 510 6829	09 18 510 6329	Press-in	5.5			
		PL3			2.9	THT THR	09 19 510 7824	09 18 510 7324 09 19 510 7324	THT THR	2.9	
						THR (T&R)	09 19 510 7824741	09 19 510 7324740 09 19 510 7324741	THR (T&R)		
			4.5	THT THR	09 19 510 7822	09 18 510 7322 09 19 510 7322	THT THR	4.5			
		Press-in	09 19 510 7829	09 18 510 7329	Press-in	5.5					
			14	PL2	2.9	THT THR	09 19 514 6824	09 18 514 6324 09 19 514 6324	THT THR	2.9	
						THR (T&R)	09 19 514 6824741	09 19 514 6324740 09 19 514 6324741	THR (T&R)		
		4.5			THT THR	09 19 514 6822	09 18 514 6322 09 19 514 6322	THT THR	4.5		
		Press-in		09 19 514 6829	09 18 514 6329	Press-in	5.5				
				PL3	2.9	THT THR	09 19 514 7824	09 18 514 7324 09 19 514 7324	THT THR	2.9	
						THR (T&R)	09 19 514 7824741	09 19 514 7324740 09 19 514 7324741	THR (T&R)		
		4.5	THT THR		09 19 514 7822	09 18 514 7322 09 19 514 7322	THT THR	4.5			
		Press-in	09 19 514 7829	09 18 514 7329	Press-in	5.5					
	10		PL2	2.9	THT THR	09 19 510 6824	09 18 510 6324 09 19 510 6324	THT THR	2.9		
					THR (T&R)	09 19 510 6824741	09 19 510 6324740 09 19 510 6324741	THR (T&R)			
		4.5		THT THR	09 19 510 6822	09 18 510 6322 09 19 510 6322	THT THR	4.5			
Press-in	09 19 510 6829	09 18 510 6329	Press-in	5.5							
	PL3	2.9	THT THR	09 19 510 7824	09 18 510 7324 09 19 510 7324	THT THR	2.9				
			THR (T&R)	09 19 510 7824741	09 19 510 7324740 09 19 510 7324741	THR (T&R)					
4.5		THT THR	09 19 510 7822	09 18 510 7322 09 19 510 7322	THT THR	4.5					
Press-in	09 19 510 7829	09 18 510 7329	Press-in	5.5							
		14	PL2	2.9	THT THR	09 19 514 6824	09 18 514 6324 09 19 514 6324	THT THR	2.9		
					THR (T&R)	09 19 514 6824741	09 19 514 6324740 09 19 514 6324741	THR (T&R)			
4.5				THT THR	09 19 514 6822	09 18 514 6322 09 19 514 6322	THT THR	4.5			
Press-in	09 19 514 6829	09 18 514 6329	Press-in	5.5							
	PL3	2.9	THT THR	09 19 514 7824	09 18 514 7324 09 19 514 7324	THT THR	2.9				
			THR (T&R)	09 19 514 7824741	09 19 514 7324740 09 19 514 7324741	THR (T&R)					
4.5		THT THR	09 19 514 7822	09 18 514 7322 09 19 514 7322	THT THR	4.5					
Press-in	09 19 514 7829	09 18 514 7329	Press-in	5.5							

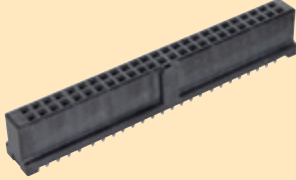
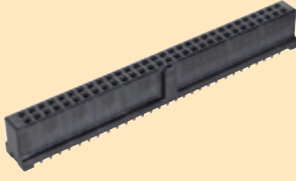
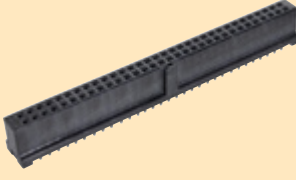
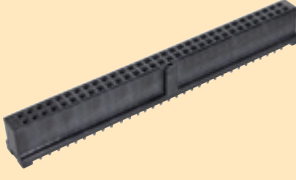
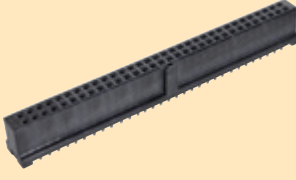
*Terminations: THT = through hole technology (Wave Solder); THR = through hole reflow; T&R = tape&reel packaging

PCB distance	Type	Pictures	Number of contacts	Performance level	Female			Male			
					Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)	
14.7 - 16.7 mm	SEK		16	PL2	2.9	THT THR	09 19 516 6824	09 18 516 6324 09 19 516 6324	THT THR	2.9	
						THR (T&R)	09 19 516 6824741	09 19 516 6324740 09 19 516 6324741	THR (T&R)		
					4.5	THT THR	09 19 516 6822	09 18 516 6322 09 19 516 6322	THT THR	4.5	
				Press-in		09 19 516 6829	09 18 516 6329	Press-in	5.5		
				PL3	2.9	THT THR	09 19 516 7824	09 18 516 7324 09 19 516 7324	THT THR	2.9	
						THR (T&R)	09 19 516 7824741	09 19 516 7324740 09 19 516 7324741	THR (T&R)		
			4.5		THT THR	09 19 516 7822	09 18 516 7322 09 19 516 7322	THT THR	4.5		
				Press-in	09 19 516 7829	09 18 516 7329	Press-in	5.5			
				20	PL2	2.9	THT THR	09 19 520 6824	09 18 520 6324 09 19 520 6324	THT THR	2.9
							THR (T&R)	09 19 520 6824741	09 19 520 6324740 09 19 520 6324741	THR (T&R)	
						4.5	THT THR	09 19 520 6822	09 18 520 6322 09 19 520 6322	THT THR	4.5
					Press-in		09 19 520 6829	09 18 520 6329	Press-in	5.5	
		PL3			2.9	THT THR	09 19 520 7824	09 18 520 7324 09 19 520 7824	THT THR	2.9	
						THR (T&R)	09 19 520 7824741	09 19 520 7324740 09 19 520 7324741	THR (T&R)		
				4.5	THT THR	09 19 520 7822	09 18 520 7322 09 19 520 7322	THT THR	4.5		
		Press-in			09 19 520 7829	09 18 520 7329	Press-in	5.5			
				26	PL2	2.9	THT THR	09 19 526 6824	09 18 526 6324 09 19 526 6324	THT THR	2.9
							THR (T&R)	09 19 526 6824741	09 19 526 6324740 09 19 526 6324741	THR (T&R)	
						4.5	THT THR	09 19 526 6822	09 18 526 6322 09 19 526 6322	THT THR	4.5
					Press-in		09 19 526 6829	09 18 526 6329	Press-in	5.5	
			PL3		2.9	THT THR	09 19 526 7824	09 18 526 7324 09 19 526 7324	THT THR	2.9	
						THR (T&R)	09 19 526 7824741	09 19 526 7324740 09 19 526 7324741	THR (T&R)		
				4.5	THT THR	09 19 526 7822	09 18 526 7322 09 19 526 7322	THT THR	4.5		
			Press-in		09 19 526 7829	09 18 526 7329	Press-in	5.5			

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PCB distance	Type	Pictures	Number of contacts	Performance level	Female			Male			
					Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)	
14.7 - 16.7 mm	SEK		30	PL2	2.9	THT THR	09 19 530 6824	09 18 530 6324 09 19 530 6324	THT THR	2.9	
					4.5	THT THR	09 19 530 6822	09 18 530 6322 09 19 530 6322	THT THR	4.5	
						Press-in	09 19 530 6829	09 18 530 6329	Press-in	5.5	
				PL3	2.9	THT THR	09 19 530 7824	09 18 530 7324 09 19 530 7324	THT THR	2.9	
					4.5	THT THR	09 19 530 7822	09 18 530 7322 09 19 530 7322	THT THR	4.5	
						Press-in	09 19 530 7829	09 18 530 7329	Press-in	5.5	
				34	PL2	2.9	THT THR	09 19 534 6824	09 18 534 6324 09 19 534 6324	THT THR	2.9
							THR (T&R)	09 19 534 6824741	09 19 534 6324740 09 19 534 6324741	THR (T&R)	
						4.5	THT THR	09 19 534 6822	09 18 534 6322 09 19 534 6322	THT THR	4.5
					Press-in		09 19 534 6829	09 18 534 6329	Press-in	5.5	
					PL3	2.9	THT THR	09 19 534 7824	09 18 534 7324 09 19 534 7324	THT THR	2.9
							THR (T&R)	09 19 534 7824741	09 19 534 7324740 09 19 534 7324741	THR (T&R)	
		4.5		THT THR		09 19 534 7822	09 18 534 7322 09 19 534 7322	THT THR	4.5		
				Press-in	09 19 534 7829	09 18 534 7329	Press-in	5.5			
				40	PL2	2.9	THT THR	09 19 540 6824	09 18 540 6324 09 19 540 6324	THT THR	2.9
							THR (T&R)	09 19 540 6824741	09 19 540 6324740 09 19 540 6324741	THR (T&R)	
						4.5	THT THR	09 19 540 6822	09 18 540 6322 09 19 540 6322	THT THR	4.5
					Press-in		09 19 540 6829	09 18 540 6329	Press-in	5.5	
			PL3		2.9	THT THR	09 19 540 7824	09 18 540 7324 09 19 540 7324	THT THR	2.9	
						THR (T&R)	09 19 540 7824741	09 19 540 7324740 09 19 540 7324741	THR (T&R)		
				4.5	THT THR	09 19 540 7822	09 18 540 7322 09 19 540 7322	THT THR	4.5		
			Press-in		09 19 540 7829	09 18 540 7329	Press-in	5.5			

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; T&R = tape&reel packaging

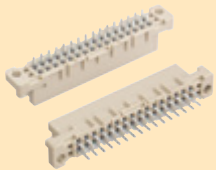
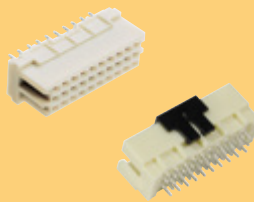
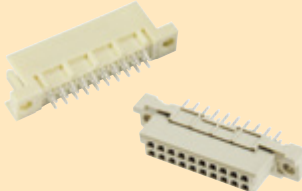
PCB distance	Type	Pictures	Number of contacts	Performance level	Female			Male				
					Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)		
14.7 - 16.7 mm	SEK		50	PL2	2.9	THT THR	09 19 550 6824	09 18 550 6324 09 19 550 6324	THT THR	2.9		
					4.5	THT THR	09 19 550 6822	09 18 550 6322 09 19 550 6322	THT THR	4.5		
						Press-in	09 19 550 6829	09 18 550 6329	Press-in	5.5		
				PL3	2.9	THT THR	09 19 550 7824	09 18 550 7324 09 19 550 7324	THT THR	2.9		
					4.5	THT THR	09 19 550 7822	09 18 550 7322 09 19 550 7322	THT THR	4.5		
						Press-in	09 19 550 7829	09 18 550 7329	Press-in	5.5		
			60	PL2	2.9	THT THR	09 19 560 6824	09 18 560 6324 09 19 560 6324	THT THR	2.9		
					4.5	THT THR	09 19 560 6822	09 18 560 6322 09 19 560 6322	THT THR	4.5		
						Press-in	09 19 560 6829	09 18 560 6329	Press-in	5.5		
				PL3	2.9	THT THR	09 19 560 7824	09 18 560 7324 09 19 560 7824	THT THR	2.9		
					4.5	THT THR	09 19 560 7822	09 18 560 7322 09 19 560 7322	THT THR	4.5		
						Press-in	09 19 560 7829	09 18 560 7329	Press-in	5.5		
		64	PL2	2.9	THT THR	09 19 564 6824	09 18 564 6324 09 19 564 6324	THT THR	2.9			
				4.5	THT THR	09 19 564 6822	09 18 564 6322 09 19 564 6322	THT THR	4.5			
					Press-in	09 19 564 6829	09 18 564 6329	Press-in	5.5			
			PL3	2.9	THT THR	09 19 564 7824	09 18 564 7324 09 19 564 7324	THT THR	2.9			
				4.5	THT THR	09 19 564 7822	09 18 564 7322 09 19 564 7322	THT THR	4.5			
					Press-in	09 19 564 7829	09 18 564 7329	Press-in	5.5			
			SEK		60	PL2	2.9	THT THR	09 19 560 6824	09 18 560 6324 09 19 560 6324	THT THR	2.9
							4.5	THT THR	09 19 560 6822	09 18 560 6322 09 19 560 6322	THT THR	4.5
								Press-in	09 19 560 6829	09 18 560 6329	Press-in	5.5
						PL3	2.9	THT THR	09 19 560 7824	09 18 560 7324 09 19 560 7824	THT THR	2.9
							4.5	THT THR	09 19 560 7822	09 18 560 7322 09 19 560 7322	THT THR	4.5
								Press-in	09 19 560 7829	09 18 560 7329	Press-in	5.5
	SEK		64	PL2	2.9	THT THR	09 19 564 6824	09 18 564 6324 09 19 564 6324	THT THR	2.9		
					4.5	THT THR	09 19 564 6822	09 18 564 6322 09 19 564 6322	THT THR	4.5		
						Press-in	09 19 564 6829	09 18 564 6329	Press-in	5.5		
				PL3	2.9	THT THR	09 19 564 7824	09 18 564 7324 09 19 564 7324	THT THR	2.9		
					4.5	THT THR	09 19 564 7822	09 18 564 7322 09 19 564 7322	THT THR	4.5		
						Press-in	09 19 564 7829	09 18 564 7329	Press-in	5.5		

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; T&R = tape&reel packaging

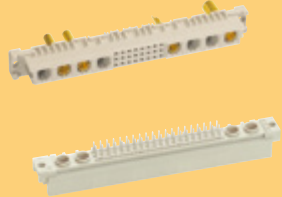

DIN Signal

PCB distance	Type	Pictures	Number of contacts	Female			Male								
				Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)						
16.8 - 18.6 mm	DIN 41612 types C/R		96	2.9	THT	09 03 296 6824	09 73 196 6902								
					THR	09 03 296 6841									
					K	09 03 296 6855									
				4.5	THT	09 03 296 6825				09 73 196 6903	THT	4.5			
					THR	09 03 296 6829				09 73 196 6520	THR				
					K	09 03 296 6845				09 73 196 6904	P		5.0		
			94	2.9	THT	09 03 264 6824	09 73 164 6902								
					THR	09 03 264 6841					09 73 164 6519	THT	2.5		
					K	09 03 264 6855					09 73 164 6519	THR			
				4.5	THT	09 03 264 6825					09 73 164 6903	THT		4.5	
					THR	09 03 264 6829					09 73 164 6520	THR			
					K	09 03 264 6845					09 73 164 6904	P	5.0		
	64	DIN 41612 types B/Q		2.9	THT	09 02 264 6824	09 72 164 6902								
					THR	09 02 264 6841				09 72 164 6519	THT	2.5			
					4.5	THT				09 02 264 6825	09 72 164 6903				
						THR				09 02 264 6829	09 72 164 6904	P	5.0		
				48	DIN 41612 types 2C/2R					2.9	THT	09 23 248 6824	09 28 148 6902		
											THR	09 23 248 6841			
	32	DIN 41612 types 2C/2R		4.5	THT	09 23 248 6825	09 28 148 6903	THT	4.0						
					THR	09 23 248 6829	09 28 148 6520	THR							
				2.9	P	09 23 248 6850	09 28 148 6904	P	5.0						
					4.5	THT	09 23 232 6824	09 28 132 6902	THT	2.5					
	THR	09 23 232 6841	09 28 132 6519	THR											
	4.5	THT	09 23 232 6825	09 28 132 6903	THT	4.0									
THR		09 23 232 6829	09 28 132 6520	THR											
P		09 23 232 6850	09 28 132 6904	P	5.0										

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; K = THT with kinked pins; P = press-in

PCB distance	Type	Pictures	Number of contacts	Female				Male						
				Termination length (mm)	Termination*	Without flange	Part number	Part number	Without flange	Termination*	Termination length (mm)			
16.8 - 18.6 mm	DIN 41612 types 2B/2Q		32	2.9	THT		09 22 232 6824	09 27 132 6902		THT	2.5			
					THR		09 22 232 6841					09 27 132 6903	4.0	
				4.5	THT		09 22 232 6825				09 27 132 6903	P	5.0	
					THR		09 22 232 6829				09 27 132 6904			
					P		09 22 232 6850							
	DIN 41612 types 3C/3R		30	2.9	THT		09 25 230 6824	09 29 130 6902	X	THT	2.5			
					THR		09 25 230 6841	09 29 130 6592				09 29 130 6519		
						X	09 25 230 6414	09 29 130 6569				09 29 130 6903		
				4.5	THT		09 25 230 6825	09 29 130 6593	X	THT	4.0			
					THR		09 25 230 6829	09 29 130 6520				09 29 130 6570		
					P		09 25 230 6850	09 29 130 6904				P	5.0	
						X	09 25 230 6870	09 29 130 6504						
				20	2.9	THT		09 25 220 6824	09 29 120 6902		THT	2.5		
					4.5	THT		09 25 220 6825	09 29 120 6903				09 29 120 6904	P
				DIN 41612 types 3B/3Q		20	2.9	THT		09 24 220 6824	09 75 120 6902	X	THT	2.5
								THR		09 24 220 6841	09 75 120 6592			
		X	09 24 220 6414					09 75 120 6569	09 75 120 6903					
	4.5	THT					09 24 220 6825	09 75 120 6593	X	THT	4.0			
								09 75 120 6520				THR	5.0	
		P					09 24 220 6850	09 75 120 6570						
			X				09 24 220 6870	09 75 120 6904				P	5.0	
							09 75 120 6504							

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; P = press-in


PCB distance	Type	Pictures	Number of contacts	Female			Male		
				Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)
16.8 - 18.6 mm	DIN 41612 types M/ M invers ¹⁾		24 + 8	2.9	THT	09 03 224 6804	09 73 124 6902	THT	2.5
						09 03 224 6805	09 73 124 6903		4.0
				4.5	P	09 03 224 6850	09 73 124 6904	P	5.0
			42 + 6	2.9	THT	09 03 242 6804	09 73 142 6902	THT	2.5
						09 03 242 6805	09 73 142 6903		4.0
				4.5	P	09 03 242 6850	09 73 142 6904	P	5.0
			60 + 4	2.9	THT	09 03 260 6804	09 73 160 6902	THT	2.5
						09 03 260 6805	09 73 160 6903		4.0
				4.5	P	09 03 260 6850	09 73 160 6904	P	5.0
			78 + 2	2.9	THT	09 03 278 6804	09 73 178 6902	THT	2.5
						09 03 278 6805	09 73 178 6903		4.0
				4.5	P	09 03 278 6850	09 73 178 6904	P	5.0
	DIN 41612 types M flat/ M invers ¹⁾		24 + 8	2.9	THT	09 03 224 6864	09 73 124 6902	THT	2.5
						09 03 224 6865	09 73 124 6903		4.0
				4.5	P	09 03 224 6830	09 73 124 6904	P	5.0
			42 + 6	2.9	THT	09 03 242 6864	09 73 142 6902	THT	2.5
						09 03 242 6865	09 73 142 6903		4.0
				4.5	P	09 03 242 6830	09 73 142 6904	P	5.0
			60 + 4	2.9	THT	09 03 260 6864	09 73 160 6902	THT	2.5
						09 03 260 6865	09 73 160 6903		4.0
4.5				P	09 03 260 6830	09 73 160 6904	P	5.0	
78 + 2			2.9	THT	09 03 278 6864	09 73 178 6902	THT	2.5	
					09 03 278 6865	09 73 178 6903		4.0	
			4.5	P	09 03 278 6830	09 73 178 6904	P	5.0	

*Terminations: THT = through hole technology (wave solder); P = press-in

¹⁾Special contacts for high power, coaxial, high voltage and fiber optic see catalogue DIN 41612

PCB distance	Type	Pictures	Number of contacts	Female				Male			
				Termination length (mm)	Termination*	Without flange	Part number	Part number	Without flange	Termination*	Termination length (mm)
18.3 - 20.0 mm	DIN 41612 type C		96	2.9	THT		09 03 296 6824	09 03 196 6922		THT	3.0
					THR		09 03 296 6841				
					K		09 03 296 6855				
				4.5	THT		09 03 296 6825				
					THR		09 03 296 6829				
					K		09 03 296 6845				
			64	2.9	THT		09 03 264 6824	09 03 164 6922		THT	3.0
					THR		09 03 264 6841				
					K		09 03 264 6855				
				4.5	THT		09 03 264 6825				
					K		09 03 264 6845				
					P		09 03 264 6850				
	DIN 41612 type B		64	2.9	THT		09 02 264 6824	09 02 164 6922		THT	3.0
					THR		09 02 264 6841				
					K		09 02 264 6855				
				4.5	THT		09 02 264 6825				
					THR		09 02 264 6829				
					P		09 02 264 6850				
	DIN 41612 type 2C		48	2.9	THT		09 23 248 6824	09 23 148 6922		THT	3.0
					THR		09 23 248 6841				
					K		09 23 248 6855				
				4.5	THT		09 23 248 6825				
					THR		09 23 248 6829				
					P		09 23 248 6850				
32			2.9	THT		09 23 232 6824	09 23 132 6922		THT	3.0	
				THR		09 23 232 6841					
				K		09 23 232 6855					
			4.5	THT		09 23 232 6825					
				THR		09 23 232 6829					
				P		09 23 232 6850					
DIN 41612 type 2B		32	2.9	THT		09 22 232 6824	09 22 132 6922		THT	3.0	
				THR		09 22 232 6841					
				K		09 22 232 6855					
			4.5	THT		09 22 232 6825					
				THR		09 22 232 6829					
				P		09 22 232 6850					
DIN 41612 type 3C		30	2.9	THT		09 25 230 6824	09 25 130 6922		THT	3.0	
				THR	X	09 25 230 6841					
				K		09 25 230 6414					
			4.5	THT		09 25 230 6825					
				THR		09 25 230 6829					
				P	X	09 25 230 6850					
		20	2.9	THT		09 25 230 6870	09 25 130 6590	X	THR	3.0	
				THR		09 25 230 6825					
				K		09 25 230 6850					
			4.5	THT		09 25 220 6824					
				THR		09 25 220 6825					
				K		09 25 220 6850					
DIN 41612 type 3B		20	2.9	THT		09 24 220 6824	09 24 120 6922		THT	3.0	
				THR	X	09 24 220 6841					
				K		09 24 220 6414					
			4.5	THT		09 24 220 6825					
				THR		09 24 220 6850					
				P	X	09 24 220 6870					

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; K = THT with kinked pins; P = press-in

PCB distance	Type	Pictures	Number of contacts	Female				Male					
				Termination length (mm)	Termination*	Stand off needed	Part number	Part number	Termination*	Termination length (mm)			
18.3 - 20.0 mm	DIN 41612 type M ¹⁾		24 + 8	2.9	THT		09 03 224 6804	09 03 124 6922	THT	3.0			
				4.5	P		09 03 224 6805 09 03 224 6850						
			42 + 6	2.9	THT		09 03 242 6804	09 03 142 6922	THT	3.0			
				4.5	P		09 03 242 6805 09 03 242 6850						
			60 + 4	2.9	THT		09 03 260 6804	09 03 160 6922	THT	3.0			
				4.5	P		09 03 260 6805 09 03 260 6850						
			78 + 2	2.9	THT		09 03 278 6804	09 03 178 6922	THT	3.0			
				4.5	P		09 03 278 6805 09 03 278 6850						
	DIN 41612 types M flat/M ¹⁾		24 + 8	2.9	THT		09 03 224 6864	09 03 124 6922	THT	3.0			
				4.5	P		09 03 224 6865 09 03 224 6830						
			42 + 6	2.9	THT		09 03 242 6864	09 03 142 6922	THT	3.0			
				4.5	P		09 03 242 6865 09 03 242 6830						
			60 + 4	2.9	THT		09 03 260 6864	09 03 160 6922	THT	3.0			
				4.5	P		09 03 260 6865 09 03 260 6830						
			78 + 2	2.9	THT		09 03 278 6864	09 03 178 6922	THT	3.0			
				4.5	P		09 03 278 6865 09 03 278 6830						
18.8 - 20.5 mm	DIN 41612 type M flat/M invers ¹⁾		24 + 8	2.5	THT		09 03 224 6864	09 73 124 6991	THT	6.0			
				4.5	P		09 03 224 6865 09 03 224 6830						
			42 + 6	2.9	THT		09 03 242 6864	09 73 142 6991	THT	6.0			
				4.5	P		09 03 242 6865 09 03 242 6830						
			60 + 4	2.9	THT		09 03 260 6864	09 73 160 6991	THT	6.0			
				4.5	P		09 03 260 6865 09 03 260 6830						
			78 + 2	2.9	THT		09 03 278 6864	09 73 178 6991	THT	6.0			
				4.5	P		09 03 278 6865 09 03 278 6830						
					coax contacts	50 Ω		THT		09 03 000 6182	09 03 000 6265	THT	
					power contacts	40 A		THT		09 03 000 6225	09 03 000 6135	THT	
					P		09 03 000 6250						
19.0 - 22.3 mm	DIN 41612 types C/R		96	7.0	THR	X	09 03 296 6827	09 73 196 6902	THT	2.5			
					THR	X	09 03 296 6876	09 73 196 6519	THR	4.0			
				6.75	THR	X	09 03 296 6876	09 73 196 6903	THR	4.0			
					THR	X	09 03 296 6876	09 73 196 6520	THR	4.0			
					P		09 73 196 6904	P	5.0				
20.0 - 28.4 mm	DIN 41612 type B/Q		64	13.0	THT	X	09 02 264 6421	09 72 164 6902	THT	2.5			
								09 72 164 6903			P	5.0	
								09 72 164 6904					
	DIN 41612 types 2C/2R		48	13.0	THT	X	09 23 248 6421	09 28 148 6902	THT	2.5			
								09 28 148 6519					
								09 28 148 6903	THR	4.0			
								09 28 148 6520					
								09 28 148 6904					
						P		09 28 148 6904	P	5.0			
	DIN 41612 types 2B/2Q		32	13.0	THT	X	09 22 232 6421	09 27 132 6902	THT	2.5			
								09 27 132 6903					
								09 27 132 6904	P	5.0			

*Terminations: THT = through hole technology (Wave Solder); THR = through hole reflow; P = press-in
¹⁾Special contacts for high power, coaxial, high voltage and fiber optic see catalogue DIN 41612

PCB distance	Type	Pictures	Number of contacts	Female				Male			
				Termination length (mm)	Termination*	Stand off needed	Part number	Part number	Without flange	Termination*	Termination length (mm)
20.0 - 28.4 mm	DIN 41612 type 3C/3R		30	13.0	THT	X	09 25 230 6421	09 29 130 6902		THT	2.5
								09 29 130 6592	X		
								09 29 130 6519			
								09 29 130 6569	X	THR	
								09 29 130 6903			
								09 29 130 6593	X		
								09 29 130 6520		THT	
								09 29 130 6570	X		
								09 29 130 6904		THR	
09 29 130 6504	X										
21.0 - 23.3 mm	DIN 41612 type C/R		96	8.0	THR	X	09 03 296 6877	09 73 196 6902		THT	2.5
								09 73 196 6519		THR	
								09 73 196 6903		THT	4.0
								09 73 196 6520		THR	
								09 73 196 6904		P	5.0
22.0 - 23.7 mm	DIN 41612 type C		96	7.0	THR	X	09 03 296 6827	09 03 196 6922		THT	3.0
				6.75					09 03 296 6876	09 03 196 6920	
23.0 - 24.7 mm	DIN 41612 type C		96	8.0	THR	X	09 03 296 6877	09 03 196 6922		THT	3.0
								09 03 196 6920		THR	
24.0 - 28.4 mm	DIN 41612 type C/R		96	13.0	THT	X	09 03 296 6421	09 73 196 6902		THT	2.5
								09 73 196 6519		THR	
								09 73 196 6903		THT	4.0
								09 73 196 6520		THR	
								09 73 196 6904		P	5.0
			64	13.0	THT	X	09 03 264 6421	09 73 164 6902		THT	2.5
								09 73 164 6519		THR	
								09 73 164 6903		THT	4.0
								09 73 164 6520		THR	
								09 73 164 6904		P	5.0
27.0 - 29.8 mm	DIN 41612 type C		96	13.0	THT	X	09 03 296 6421	09 03 196 6922		THT	3.0
			64					09 03 264 6421	09 03 164 6922	THR	
	DIN 41612 type B		64	13.0	THT	X	09 03 264 6421	09 02 164 6922		THT	3.0
								09 02 164 6920		THR	
	DIN 41612 type 2C		48	13.0	THT	X	09 23 248 6421	09 23 148 6922		THT	3.0
								09 23 148 6920		THR	
DIN 41612 type 2B		32	13.0	THT	X	09 22 232 6421	09 22 132 6922		THT	3.0	
							09 22 132 6920		THR		
DIN 41612 type 3C		30	13.0	THT	X	09 25 230 6421	09 25 130 6922		THT	3.0	
							09 25 130 6572	X	THR		
							09 25 130 6590	X	THR		

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; K = THT with kinked pins; P = press-in

PCB distance	Type	Pictures	Number of contacts	Female				Male			
				Termination length (mm)	Termination*	Stand off needed	Part number	Part number	Termination*	Termination length (mm)	
29.0 - 31.6 mm	DIN 41612 types C/R		96	16.2	P/S	X	09 03 296 6411	09 73 196 6902	THT	2.5	
								09 73 196 6519	THR		
								09 73 196 6903	THT		
								09 73 196 6520	THR		
			09 73 196 6904	P	5.0						
			64	16.2	P/S	X	09 03 264 6411	09 73 164 6902	THT	2.5	
								09 73 164 6519	THR		
								09 73 164 6903	THT		
09 73 164 6520	THR										
09 73 164 6904	P	5.0									
30.0 - 32.4 mm	DIN 41612 types C/R		96	17.0	P/S	X	09 03 296 6862	09 73 196 6902	THT	2.5	
								09 73 196 6519	THR		
								09 73 196 6903	THT		
								09 73 196 6520	THR		
			09 73 196 6904	P	5.0						
			64	17.0	P/S	X	09 03 264 6862	09 73 164 6902	THT	2.5	
								09 73 164 6519	THR		
								09 73 164 6903	THT		
09 73 164 6520	THR										
09 73 164 6904	P	5.0									
31.0 - 33.0 mm	DIN 41612 type C		96	16.2	P/S	X	09 03 296 6411	09 03 196 6922	THT	3.0	
									09 03 196 6920		THR
64	16.2	P/S	X	09 03 264 6411	09 03 164 6922	THT	3.0				
32.2 - 33.8 mm	DIN 41612 type C		96	17.0	P/S	X	09 03 296 6862	09 03 196 6922	THT	3.0	
								09 03 196 6920	THR		
			64	17.0	P/S	X	09 03 264 6862	09 03 164 6922	THT	3.0	

PCB distance	Type	Pictures	Number of contacts	Female		Adapter	Female			
				Termination length (mm)	Termination*		Termination length (mm)	Termination*		
37.05 - 37.8 mm	DIN 41612 type 2C		48	2.9	THT	09 23 248 6824	09 28 148 6532	09 23 248 6824	THT	2.9
					THR	09 23 248 6841		09 23 248 6841	THR	
				4.5	THT	09 23 248 6825		09 23 248 6825	THT	4.5
					THR	09 23 248 6829		09 23 248 6829	THR	
					P	09 23 248 6850		09 23 248 6850	P	
40.05 - 41.5 mm	DIN 41612 types C/R		96	2.9	THT	09 03 296 6824	09 73 196 5531	09 03 296 6824	THT	2.9
					THR	09 03 296 6841		09 03 296 6841	THR	
				4.5	K	09 03 296 6855		09 03 296 6855	K	4.5
					THT	09 03 296 6825		09 03 296 6825	THT	
					THR	09 03 296 6829		09 03 296 6829	THR	
					K	09 03 296 6845		09 03 296 6845	K	
	P	09 03 296 6850	09 03 296 6850	P						
	DIN 41612 types 2C/2R		48	2.9	THT	09 23 248 6824	09 28 148 5531	09 23 248 6824	THT	2.9
					THR	09 23 248 6841		09 23 248 6841	THR	
				4.5	THT	09 23 248 6825		09 23 248 6825	THT	4.5
					THR	09 23 248 6829		09 23 248 6829	THR	
					P	09 23 248 6850		09 23 248 6850	P	

*Terminations: THT = through hole technology (wave solder); THR = through hole reflow; K = THT with kinked pins; P = Press-in; P/S = press-in pins soldered

DIN Power

PCB distance	Type	Pictures	Number of contacts	Female			Male			
				Termination length (mm)	Termination*	Stand off needed	Part number	Part number	Termination*	Termination length (mm)
17.5 - 19.4 mm	DIN 41612 type E		48	2.9	THT		09 05 248 6832	09 05 048 6924	THT	4.0
				4.5			09 05 248 6831			
					P		09 05 248 2854			
18.3 - 20.0 mm	DIN 41612 type D		32	2.9	THT		09 04 232 6832	09 04 132 6922	THT	3.0
				4.5			09 04 232 6831			
19.0 - 28.0 mm	DIN 41612 type E		48	11.5	P	X	09 05 248 6851	09 05 048 6924	THT	4.0
20.0 - 22.6 mm	DIN 41612 type F		48	3.7	THT		09 06 248 6833	09 06 048 2905	THT	3.5
				4.5			P			
			32	3.7	THT		09 06 232 6833	09 06 032 2905	THT	3.5
				4.5			P			
			32	3.7	THT		09 06 232 6893	09 06 032 2941	THT	3.5
				4.5			P			
22.0 - 31.9 mm	DIN 41612 type F		48	13.0	P/S	X	09 06 248 6838	09 06 048 2905	THT	3.5
				32			13.0			
27.9 - 29.1 mm	DIN 41612 type H		15	2.7	THT		09 06 215 2812	09 06 015 2913	THT	2.8
				4.0			09 06 215 2821			
				5.5			09 06 215 2890			
				3.6	P		09 06 215 2854			
28.0 - 33.4 mm	DIN 41612 type H		15	7.0	THT	X	09 06 215 2831	09 06 015 2913	THT	2.8

*Terminations: THT = through hole technology (Wave Solder); THR = through hole reflow; K = THT with kinked pins; P = press-in; P/S = press-in pins soldered



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