



Pushing Performance



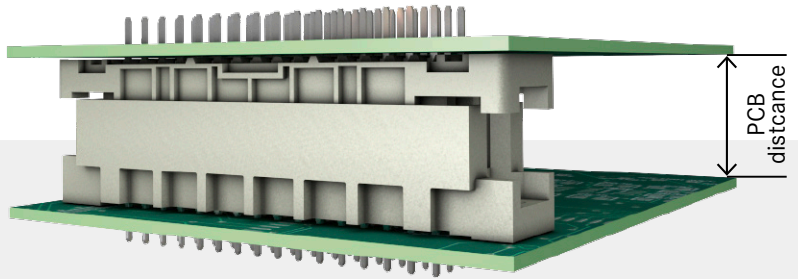
People | Power | Partnership

HARTING

Selection Guide for Mezzanine Applications

HARTING solutions for Mezzanine connections

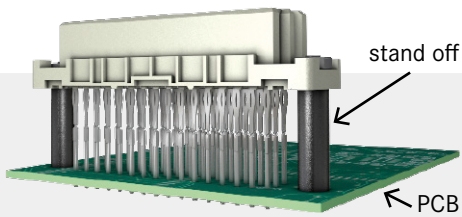
HARTING Connectivity & Networks generates PCB connectivity for all automation lifelines – namely data, signal and power. In line with this strategic course, the HARTING board-to-board connector range provides solutions for all specific user applications. A consistent, ongoing innovation process ensures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



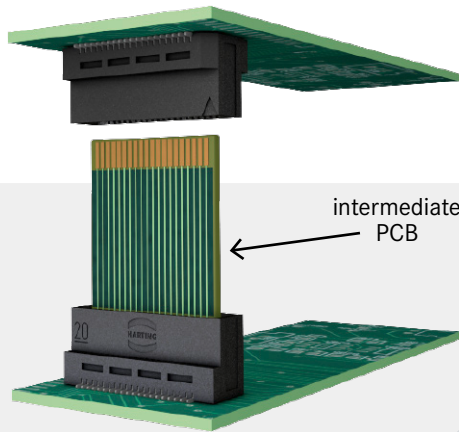
users of HARTING's continuously expanding connector range always benefit from the latest connector technology. Always the best solution for your I4.0 device.

PCB distance	har-flex®			
	har-flex® Signal	har-flex® Hybrid	har-flex® Power	har-flex® HD-Card Edge
40 mm				
35 mm				
30 mm				
25 mm				
20 mm				
15 mm				
10 mm				
5 mm				
Connector Range	har-flex®			
Pitch	1.27 mm	Signal: 1.27 mm Power: 2.54 mm	2.54 mm	0.8 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
Number of rows	2	Signal: 2 Power: 1	1	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
Termination	SMT, THR	SMT, THR	SMT, THR	SMT, THR

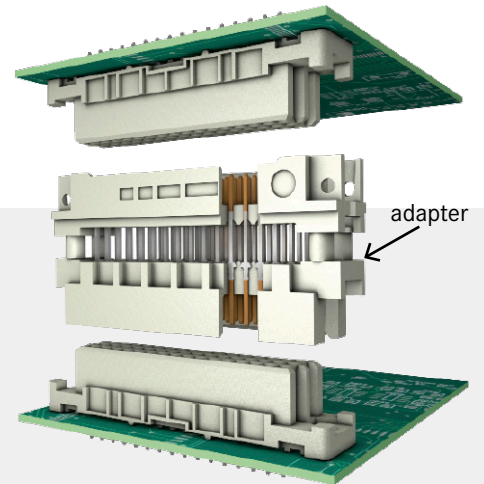
Usage of stand offs:




Usage of intermediate PCB:



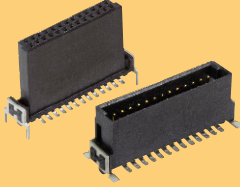
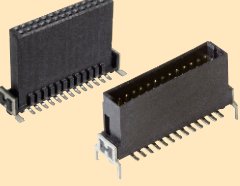
Usage of adapter:



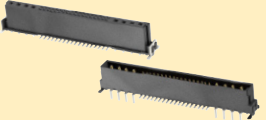
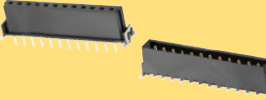
					40 mm	PCB distance
					35 mm	
					30 mm	
					25 mm	
					20 mm	
					15 mm	
					10 mm	
					5 mm	
DIN 41612				har-modular [®] <small>CREATE YOUR OWN</small> 	Connector Range	
DIN Signal	DIN Signal type M	DIN Power types D, E, F	DIN Power type H			
2.54 mm	2.54 mm	5.08 mm	5.08 mm	2.54 mm 5.08 mm	Pitch	
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 col. "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 - 3.3 A	SMT	15 23 xxx 2601 000	15 12 xxx 2601 000	SMT			
			34 - 68	2.2 A -							
			70 - 80	2.4 A 2.1 A 2.2 A	THR	15 23 xxx 2401 000	15 12 xxx 2401 000	THR			
			18.5 - 20.0 mm	har-flex®		6 - 32	2.4 A - 3.3 A	SMT	15 23 xxx 2601 000	15 13 xxx 2601 000	SMT
						34 - 68	2.2 A -				
70 - 80	2.4 A 2.1 A 2.2 A	THR				15 23 xxx 2401 000	15 13 xxx 2401 000	THR			

har-flex® Hybrid & Power

PCB distance	Type	Pictures	Number of contacts	Working current max. per Power pin (at 20°C)	Termination*	Female	Male	Termination*
						Part number	Part number	
12.3 - 13.8 mm	har-flex® Hybrid		2+08	20 A - 21,5 A	SMT	15 82 xxx 2601 000	15 72 xxx 2601 000	SMT
			4+16					
			6+26		THR	15 82 xxx 2701 000	15 72 xxx 2701 000	THR
			8+36					
	har-flex® Power		2 - 12	18 A - 29 A	SMT	15 62 xxx 2601 000	15 52 xxx 2601 000	SMT
					THR	15 62 xxx 2701 000	15 52 xxx 2701 000	THR

har-flex® HD-Card Edge

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

Also, the adapter card can be customized 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 col. "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 organization.

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	 	„2 sets of guiding modules (P and/or T) are needed per connector, one on each end”	10.16	02 52 900 0003	02 53 900 0001	Fixing pin		
					02 09 500 0004 ²⁾	02 53 900 0003	Guiding pin		
	Spacer 5		(-)	(-)	5.08	02 52 900 0004	02 53 900 0002	Fixing pin	
						02 53 900 0005	Guiding pin		
Spacer 10		(-)	(-)	10.06	02 52 900 0003	02 53 900 0001	Fixing pin		
						02 53 900 0003	Guiding pin		
						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

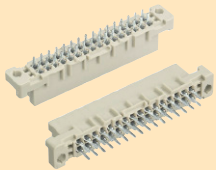
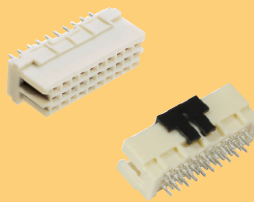
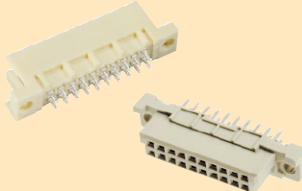
²⁾ Termination: Screw

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		

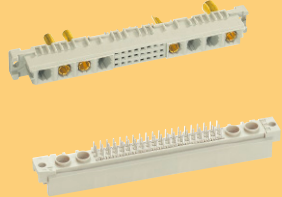
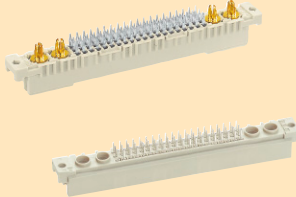
DIN Signal

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 41 612 types C / R		96	2.9	THT	09 03 296 6824	09 73 196 6902	THT	2.5			
					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	
			94	4.5	P	09 03 296 6850						
					THT	09 03 264 6824	09 73 164 6902	THT	2.5			
					THR	09 03 264 6841						
					K	09 03 264 6855				09 73 164 6519	THR	
					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							
	94	4.5	P	09 03 264 6850								
			THT	09 02 264 6824	09 72 164 6902	THT	2.5					
			THR	09 02 264 6841								
			THT	09 02 264 6825				09 72 164 6903	THT	4.0		
			THR	09 02 264 6829				09 72 164 6904	THR			
			P	09 02 264 6850					P		5.0	
	DIN 41 612 types B / Q		64	2.9				THT	09 02 264 6824	09 72 164 6902	THT	2.5
					THR	09 02 264 6841						
					THT	09 02 264 6825	09 72 164 6903	THT	4.0			
				THR	09 02 264 6829	09 72 164 6904	THR					
				4.5	P	09 02 264 6850		P				
THT					09 23 248 6824	09 28 148 6902	THT	2.5				
THR			09 23 248 6841									
THT			09 23 248 6825	09 28 148 6903	THT				4.0			
THR			09 23 248 6829	09 28 148 6520	THR							
4.5			P	09 23 248 6850	09 28 148 6904					P	5.0	
			THT	09 23 232 6824	09 28 132 6902				THT	2.5		
			THR	09 23 232 6841								
THT	09 23 232 6825	09 28 132 6903	THT	4.0								
THR	09 23 232 6829	09 28 132 6520	THR									
4.5	P	09 23 232 6850	09 28 132 6904			P	5.0					
	THT	09 23 248 6824	09 28 148 6902	THT		2.5						
	THR	09 23 248 6841										
THT	09 23 248 6825	09 28 148 6903			THT		4.0					
THR	09 23 248 6829	09 28 148 6520			THR							
4.5	P	09 23 248 6850			09 28 148 6904			P	5.0			
	THT	09 23 232 6824			09 28 132 6902		THT	2.5				
	THR	09 23 232 6841										
THT	09 23 232 6825	09 28 132 6903	THT	4.0								
THR	09 23 232 6829	09 28 132 6520	THR									
4.5	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 41 612 types 2B / 2Q		32	2.9	THT		09 22 232 6824	09 27 132 6902						
					THR		09 22 232 6841							
				4.5	THT		09 22 232 6825					09 27 132 6903	THT	2.5
					THR		09 22 232 6829					09 27 132 6904	P	5.0
					P		09 22 232 6850							
	DIN 41 612 types 3C / 3R		30	2.9	THT		09 25 230 6824	09 29 130 6902			2.5			
							09 25 230 6825	09 29 130 6592				X	THT	
					THR		09 25 230 6841	09 29 130 6519					THR	
						X	09 25 230 6414	09 29 130 6569				X		
				4.5	THT		09 25 230 6825	09 29 130 6903		THT	4.0			
							09 25 230 6829	09 29 130 6593	X					
					THR		09 25 230 6829	09 29 130 6520		THR				
						X	09 25 230 6570	09 29 130 6570	X					
				P			09 25 230 6850	09 29 130 6904		P	5.0			
						X	09 25 230 6870	09 29 130 6504	X					
	DIN 41 612 types 3B / 3Q		20	2.9	THT		09 24 220 6824	09 75 120 6902			2.5			
							09 24 220 6825	09 75 120 6592				X	THT	
					THR		09 24 220 6841	09 75 120 6519					THR	
						X	09 24 220 6414	09 75 120 6569				X		
				4.5	THT		09 24 220 6825	09 75 120 6903		THT	4.0			
							09 24 220 6829	09 75 120 6593	X					
					THR		09 24 220 6829	09 75 120 6520		THR				
					X	09 24 220 6570	09 75 120 6570	X						
P			09 24 220 6850	09 75 120 6904		P	5.0							
		X	09 24 220 6870	09 75 120 6504	X									

*Terminations: THT = Through Hole Technology (Wave Solder); THR = Through Hole Reflow; P = Press-in


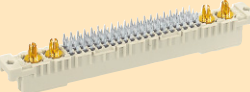
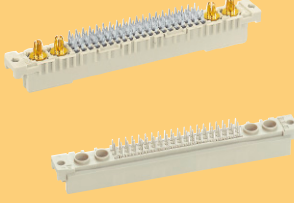
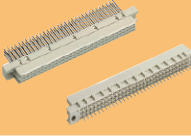

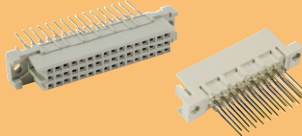
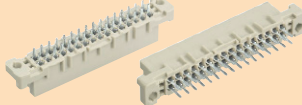
PCB distance	Type	Pictures	Number of contacts	Female			Male		
				Termination length (mm)	Termination*	Part number	Part number	Termination*	Termination length (mm)
16.8 - 18.6 mm	DIN 41 612 types M / M invers ¹⁾		24 + 8	2.9	THT	09 03 224 6804	09 73 124 6902	THT	2.5
						09 03 224 6805	09 73 124 6903		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 41 612 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 41 612 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 03 296 6850	09 03 196 6920		THR	3.0
					THR		09 03 264 6824				
					K		09 03 264 6841				
				4.5	THT		09 03 264 6855				
					THR		09 03 264 6825				
					K		09 03 264 6845				
	64	2.9	THT		09 03 264 6850	09 03 164 6922		THT	3.0		
			THR		09 03 264 6824						
			K		09 03 264 6841						
		4.5	THT		09 03 264 6855						
			THR		09 03 264 6825						
			K		09 03 264 6845						
	64	2.9	THT		09 03 264 6850	09 02 164 6922		THT	3.0		
			THR		09 02 264 6824						
			K		09 02 264 6841						
		4.5	THT		09 02 264 6855						
			THR		09 02 264 6825						
			K		09 02 264 6845						
64	2.9	THT		09 02 264 6850	09 02 164 6920		THR	3.0			
		THR		09 02 264 6824							
		K		09 02 264 6841							
	4.5	THT		09 02 264 6855							
		THR		09 02 264 6825							
		K		09 02 264 6845							
48	DIN 41 612 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				
					K		09 23 248 6845				
32			2.9	THT		09 23 248 6850	09 23 148 6920		THR	3.0	
				THR		09 23 232 6824					
				K		09 23 232 6841					
			4.5	THT		09 23 232 6855					
				THR		09 23 232 6825					
				K		09 23 232 6845					
32	2.9	THT		09 23 232 6850	09 23 132 6922		THT	3.0			
		THR		09 23 232 6824							
		K		09 23 232 6841							
	4.5	THT		09 23 232 6855							
		THR		09 23 232 6825							
		K		09 23 232 6845							
32	2.9	THT		09 23 232 6850	09 23 132 6920		THR	3.0			
		THR		09 22 232 6824							
		K		09 22 232 6841							
	4.5	THT		09 22 232 6855							
		THR		09 22 232 6825							
		K		09 22 232 6845							
30	DIN 41 612 type 3C		30	2.9	THT		09 25 230 6824	09 25 130 6922		THT	3.0
					THR		09 25 230 6841				
					K	X	09 25 230 6414				
				4.5	THT		09 25 230 6825				
					THR		09 25 230 6829				
					K		09 25 230 6850				
			20	2.9	THT		09 25 230 6850	09 25 130 6590	X	THR	3.0
					THR		09 25 230 6824				
					K	X	09 25 230 6870				
				4.5	THT		09 25 220 6824				
					THR		09 25 220 6841				
					K		09 25 220 6855				
20	2.9	THT		09 25 220 6850	09 25 120 6922		THT	3.0			
		THR		09 25 220 6824							
		K		09 25 220 6841							
	4.5	THT		09 25 220 6855							
		THR		09 25 220 6825							
		K		09 25 220 6845							
20	DIN 41 612 type 3B		20	2.9	THT		09 24 220 6824	09 24 120 6922		THT	3.0
					THR		09 24 220 6841				
					K	X	09 24 220 6414				
				4.5	THT		09 24 220 6825				
					THR		09 24 220 6829				
					K		09 24 220 6850				
20			2.9	THT		09 24 220 6850	09 24 120 6922		THT	3.0	
				THR		09 24 220 6824					
				K	X	09 24 220 6870					
			4.5	THT		09 24 220 6855					
				THR		09 24 220 6825					
				K		09 24 220 6845					

*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 41 612 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 41 612 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 41 612 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 contact	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 41 612 types C / R		96	7.0	THR	X	09 03 296 6827	09 73 196 6902	THT	2.5			
				6.75	THR	X	09 03 296 6876	09 73 196 6519	THR	4.0			
									09 73 196 6903	THT			
									09 73 196 6520	THR			
							09 73 196 6904	P	5.0				
20.0 - 28.4 mm	DIN 41 612 type B/Q		64	13.0	THT	X	09 02 264 6421	09 72 164 6902	THT	2.5			
								09 72 164 6903		4.0			
								09 72 164 6904		P	5.0		
	DIN 41 612 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	5.0			
	DIN 41 612 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				

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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 41 612 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		THR	
								09 29 130 6569	X		
								09 29 130 6903		THT	4.0
								09 29 130 6593	X		
								09 29 130 6520		THR	
								09 29 130 6570	X		
09 29 130 6904		P	5.0								
09 29 130 6504	X										
21.0 - 23.3 mm	DIN 41 612 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 41 612 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	THR	
23.0 - 24.7 mm	DIN 41 612 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 41 612 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 41 612 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 41 612 type B		64	13.0	THT	X	09 03 264 6421	09 02 164 6922		THT	3.0
								09 02 164 6920		THR	
	DIN 41 612 type 2C		48	13.0	THT	X	09 23 248 6421	09 23 148 6922		THT	3.0
								09 23 148 6920		THR	
DIN 41 612 type 2B		32	13.0	THT	X	09 22 232 6421	09 22 132 6922		THT	3.0	
							09 22 132 6920		THR		
DIN 41 612 type 3C		30	13.0	THT	X	09 25 230 6421	09 25 130 6922		THT	3.0	
							09 25 130 6572	X			
							09 25 130 6590	X	THR		

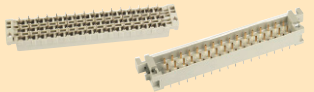
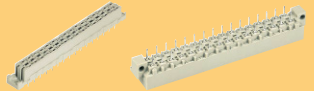
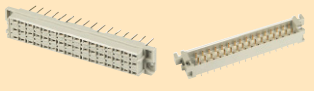
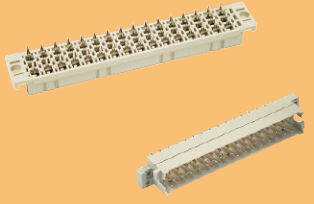
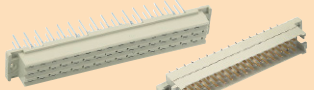

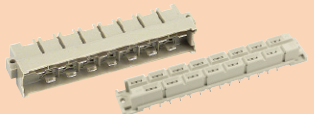
*Terminations: THT = Through Hole Technology (Wave Solder); THR = Through Hole Reflow; K = THT with kinked pins; P = Press-in

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 - 31.6 mm	DIN 41 612 types C / R		96	16.2	P/S	X	09 03 296 6411	09 73 196 6902	THT	2.5			
								09 73 196 6519					
								09 73 196 6903	THT	4.0			
								09 73 196 6520					
			09 73 196 6904	P	5.0								
			09 73 164 6902										
30.0 - 32.4 mm	DIN 41 612 types C / R		96	17.0	P/S	X	09 03 296 6862	09 73 196 6902	THT	2.5			
								09 73 196 6519					
								09 73 196 6903	THT	4.0			
								09 73 196 6520					
			09 73 196 6904	P	5.0								
			09 73 164 6902										
31.0 - 33.0 mm	DIN 41 612 type C		96	16.2	P/S	X	09 03 296 6411	09 03 196 6922	THT	3.0			
								09 03 196 6920					
								09 03 264 6411	THT	3.0			
								09 03 164 6922					
			32.2 - 33.8 mm	DIN 41 612 type C		96	17.0	P/S	X	09 03 296 6862	09 03 196 6922	THT	3.0
											09 03 196 6920		
64	17.0	P/S				X	09 03 264 6862	09 03 164 6922	THT	3.0			
									THT				

PCB distance	Type	Pictures	Number of contacts	Female		Adapter	Female				
				Termination length (mm)	Termination*		Termination*	Termination length (mm)			
37.05 - 37.8 mm	DIN 41 612 type 2C		48	2.9	THT	09 28 148 6532	09 23 248 6824	THT	2.9		
					THR		09 23 248 6841				
				4.5	THT		09 23 248 6825	THT	4.5		
					THR		09 23 248 6829				
					P		09 23 248 6850			P	4.5
							09 23 248 6850				
40.05 - 41.5 mm	DIN 41 612 types C / R		96	2.9	THT	09 73 196 5531	09 03 296 6824	THT	2.9		
					THR		09 03 296 6841				
				4.5	K		09 03 296 6855	THT	4.5		
					THT		09 03 296 6825				
					THR		09 03 296 6829				
					K		09 03 296 6845				
	DIN 41 612 types 2C / 2R		48	2.9	THT	09 28 148 5531	09 23 248 6824	THT	2.9		
					THR		09 23 248 6841				
				4.5	THT		09 23 248 6825	THT	4.5		
					THR		09 23 248 6829				
					P		09 23 248 6850			P	4.5
							09 23 248 6850				

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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 41 612 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 41 612 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 41 612 type E		48	11.5	P	X	09 05 248 6851	09 05 048 6924	THT	4.0	
20.0 - 22.6 mm	DIN 41 612 type F		48	3.7	THT		09 06 248 6833	09 06 048 2905	THT	3.5	
				4.5			P				09 06 248 6834
			32	3.7	THT		09 06 232 6833	09 06 032 2905	THT	3.5	
				4.5			P				09 06 232 6834
			32	3.7	THT		09 06 232 6832	09 06 032 2941	THT	3.5	
				4.5			P				09 06 232 6893
22.0 - 31.9 mm	DIN 41 612 type F		48	13.0	P/S	X	09 06 248 6838	09 06 048 2905	THT	3.5	
				32			13.0				P/S
27.9 - 29.1 mm	DIN 41 612 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 41 612 type H		15	7.0	THT	X	09 06 215 2831	09 06 015 2913	THT	2.8	

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