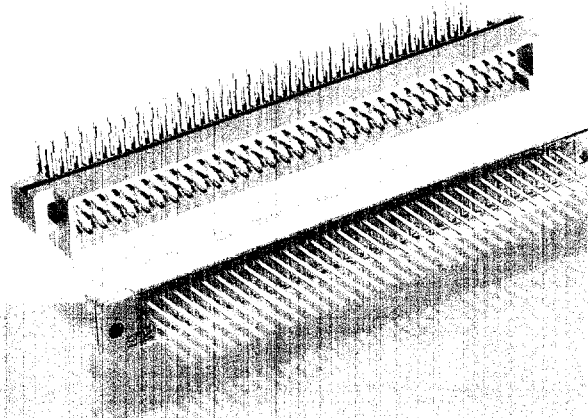


DIN Connectors

DIN 41 612 - VG - 95324



HARTS00003



Certified according to DIN EN ISO 9001
in design/development, production,
installation and servicing

Series Gds A-	2B	B	2C	C	M**	2Q	Q	
Current Rating (A)	2	2	2	2	2	2	2	
Clearance/Creepage (mm)	≥ 1.2	≥ 1.2	≥ 1.2	≥ 1.2	≥ 1.2	≥ 1.2	≥ 1.2	
Pitch for Assembly	2 x 5.08 mm (0.20")	2 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	2 x 5.08 mm (0.20")	2 x 5.08 mm (0.20")	
Number of Contacts	32	32 64	32 48	32 64 96	78 + 2 42 + 6 60 + 4 24 + 6	16 32	32 64	
Contact Arrangement Termination Side								
Catalog No.	09 22	09 02	09 23	09 03	09 03 ²⁾	09 27	09 72	
Male Connector Terminations	Solder Post, Angled for 1.6 mm (.063") PCB	132 <input type="checkbox"/> 921	132 <input type="checkbox"/> 921 164 <input type="checkbox"/> 921	132 <input type="checkbox"/> 921 148 <input type="checkbox"/> 921	132 <input type="checkbox"/> 921 164 <input type="checkbox"/> 921 196 <input type="checkbox"/> 921	124 <input type="checkbox"/> 901 142 <input type="checkbox"/> 901 160 <input type="checkbox"/> 901 178 <input type="checkbox"/> 901		
	Solder Post, Straight for 1.6 mm (.063") PCB	132 <input type="checkbox"/> 922	132 <input type="checkbox"/> 922 164 <input type="checkbox"/> 922	132 <input type="checkbox"/> 922 148 <input type="checkbox"/> 922	132 <input type="checkbox"/> 922 164 <input type="checkbox"/> 922 196 <input type="checkbox"/> 922		116 <input type="checkbox"/> 902 132 <input type="checkbox"/> 902	
	Solder Post, Straight for 3.2 mm (.126") PCB						116 <input type="checkbox"/> 903 132 <input type="checkbox"/> 903	132 <input type="checkbox"/> 903 164 <input type="checkbox"/> 903
	Wrap Post, Straight*						116 <input type="checkbox"/> 907 132 <input type="checkbox"/> 907	132 <input type="checkbox"/> 907 164 <input type="checkbox"/> 907
	Wrap Post, Angled		132 <input type="checkbox"/> 928 164 <input type="checkbox"/> 928		132 <input type="checkbox"/> 928 164 <input type="checkbox"/> 928 196 <input type="checkbox"/> 928			
	Press-in (5.5 mm) (Compliant Pin)	132 <input type="checkbox"/> 935 ⁹⁾	164 <input type="checkbox"/> 935 ⁹⁾	132 <input type="checkbox"/> 935 ⁹⁾ 148 <input type="checkbox"/> 935 ⁹⁾	164 <input type="checkbox"/> 935 ⁹⁾ 196 <input type="checkbox"/> 935 ⁹⁾		116 <input type="checkbox"/> 904 132 <input type="checkbox"/> 904	132 <input type="checkbox"/> 904 164 <input type="checkbox"/> 904
	Press-in a. Wrap Post (13 mm) (Compliant Pin)						116 <input type="checkbox"/> 985 132 <input type="checkbox"/> 985	132 <input type="checkbox"/> 985 164 <input type="checkbox"/> 985
	Crimp							
Interface Wrap Post		064 2 981						
Female Connector Terminations	Solder Post, Angled for 1.6 mm (.063") PCB						116 <input type="checkbox"/> 801 132 <input type="checkbox"/> 801	132 <input type="checkbox"/> 801 164 <input type="checkbox"/> 801
	Solder Post, Straight for 1.6 mm (.063") PCB	132 <input type="checkbox"/> 824	132 <input type="checkbox"/> 824 164 <input type="checkbox"/> 824	132 <input type="checkbox"/> 824 148 <input type="checkbox"/> 824	132 <input type="checkbox"/> 824 164 <input type="checkbox"/> 824 196 <input type="checkbox"/> 824	124 <input type="checkbox"/> 804 142 <input type="checkbox"/> 804 160 <input type="checkbox"/> 804 178 <input type="checkbox"/> 804		
	Solder Post, Straight for 3.2 mm (.126") PCB	132 <input type="checkbox"/> 825	132 <input type="checkbox"/> 825 164 <input type="checkbox"/> 825	132 <input type="checkbox"/> 825 148 <input type="checkbox"/> 825	132 <input type="checkbox"/> 825 164 <input type="checkbox"/> 825 196 <input type="checkbox"/> 825	124 <input type="checkbox"/> 805 142 <input type="checkbox"/> 805 160 <input type="checkbox"/> 805 178 <input type="checkbox"/> 805		
	Wrap Post, Straight*	132 <input type="checkbox"/> 821	132 <input type="checkbox"/> 821 164 <input type="checkbox"/> 821	132 <input type="checkbox"/> 821 148 <input type="checkbox"/> 821	132 <input type="checkbox"/> 821 164 <input type="checkbox"/> 821 196 <input type="checkbox"/> 821	124 <input type="checkbox"/> 801 142 <input type="checkbox"/> 801 160 <input type="checkbox"/> 801 178 <input type="checkbox"/> 801		
	Solder Lug	132 <input type="checkbox"/> 823	132 <input type="checkbox"/> 823 164 <input type="checkbox"/> 823	132 <input type="checkbox"/> 823 148 <input type="checkbox"/> 823	132 <input type="checkbox"/> 823 164 <input type="checkbox"/> 823 196 <input type="checkbox"/> 823			
	Press-in (5.5 mm) (Compliant Pin)	132 <input type="checkbox"/> 870 ¹⁰⁾	164 <input type="checkbox"/> 870 ¹⁰⁾	148 <input type="checkbox"/> 870 ¹⁰⁾	164 <input type="checkbox"/> 850 196 <input type="checkbox"/> 850			
	Press-in a. Wrap Post (13 mm) (Compliant Pin)	132 <input type="checkbox"/> 840 ¹⁰⁾	164 <input type="checkbox"/> 840 ¹⁰⁾		132 <input type="checkbox"/> 851 164 <input type="checkbox"/> 851 196 <input type="checkbox"/> 851			
	Faston Blade							
	Crimp (molding only)		064 3 214 ¹⁾		096 3 214 ¹⁾			
	IDC		264 <input type="checkbox"/> 828 ⁹⁾		264 <input type="checkbox"/> 828 ⁹⁾			
Cage-Clamp Spring								

Coding Pins:	
Type	Cat. No.
Gds A-B, A-2 B, Gds A-C, A-2 C, Gds A-M, Gds A-Q, A-2 Q Gds A-R, A-2 R	09 02 000 9901

* Wrap Posts, Straight				
Series	mm <input type="checkbox"/>		Length	
	mm	inch	mm	inch
2 B, B, 2 C, C, M, 2 Q, Q, 2 R, R	0.6 x 0.6	0.024 x 0.024	13	0.512
D, E	1 x 1	0.039 x 0.039	20	0.787
F/FC, MH	1 x 1	0.039 x 0.039	22	0.866

Please complete the Cat. No. with		DIN 41 612, Part 5	
<input type="checkbox"/> 7	Performance Level 3	50 mating cycles	No gas test Visual Inspection
<input type="checkbox"/> 6	Performance Level 2	400 mating cycles 200 mating cycles	4 days gas test using 10 ppm SO ₂ measured contact resistance ≤ 20 mΩ visual inspection; No abrasion of contact finish through to base material
<input type="checkbox"/> 2	Performance Level 1	500 mating cycles 250 mating cycles	21 days gas test using 10 ppm SO ₂ measured contact resistance ≤ 20 mΩ visual inspection; No abrasion of contact finish through to base material

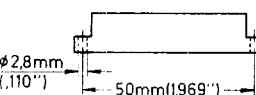
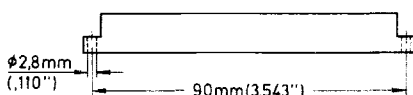
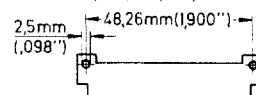
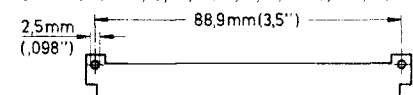
** Gds A-M inverse versions on request

2R	R	D	E	2F/FC	F/FC	FM	H	MH
2	2	6	6	6	6	6	15	6 15
≥ 1.2	≥ 1.2	≥ 1.6/3.0	≥ 1.6/3.0	≥ 1.6/3.0	≥ 1.6/3.0	≥ 1.6/3.0	≥ 4.5/8.0	≥ 1.6/3.0 ≥ 4.5/8.0
3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	4 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")	3 x 5.08 mm (0.20")
16 32 48	32 64 96	32	48	24	32 32 48	45	15	24 + 7
09 28	09 73	09 04	09 05	09 26	09 06	09 06	09 06	09 06
		132 □ 921	148 □ 921 148 □ 931 ³⁾		132 □ 901 132 □ 931 148 □ 901	145 2971 ¹⁾	115 2911 115 2932 ⁶⁾	131 □ 922 ⁶⁾ 131 □ 924 ⁷⁾
116 □ 902 132 □ 902 148 □ 902	132 □ 902 164 □ 902 196 □ 902	132 □ 922						
116 □ 903 132 □ 903 148 □ 903	132 □ 903 164 □ 903 196 □ 903		048 6924		032 2905 048 2905			
116 □ 907 132 □ 907 148 □ 907	132 □ 907 164 □ 907 196 □ 907				032 2903 048 2903			
116 □ 904 132 □ 904 148 □ 904	132 □ 904 164 □ 904 196 □ 904							
116 □ 985 132 □ 985 148 □ 985	132 □ 985 164 □ 985 196 □ 985						Faston Blade 015 2912 015 2931 ⁹⁾	031 □ 921 ⁶⁾ 031 □ 923 ⁷⁾
				024 3411 ¹⁾	048 2 906			
				024 2981	048 2 981			
116 □ 801 132 □ 801 148 □ 801	132 □ 801 164 □ 801 196 □ 801	232 □ 826 ⁴⁾			232 □ 846 ⁵⁾ 232 □ 836 ⁵⁾ 248 □ 836 ⁵⁾			
		232 □ 832	248 □ 832		232 □ 848 232 □ 858 248 □ 848		215 2821	
		232 □ 831	248 □ 831		232 □ 835 232 □ 845 248 □ 835		215 2831	231 □ 822
		232 □ 821	248 □ 821		232 □ 821 232 □ 831 248 □ 821	045 2872		231 □ 821
		232 □ 823	248 □ 823		232 □ 823 232 □ 843 248 □ 823			
					232 □ 832 232 □ 892 248 □ 832			
					232 □ 837 232 □ 897 248 □ 837			
Coding Pins:							215 2811	
Type	Cat. No.							
Gds A-D, A-E, Gds A-F/FC, Gds A-FM, Gds A-2F/FC, Gds A-MH	09 04 000 9908	032 3 213 ¹⁾	048 3 202 ¹⁾	024 3201 ¹⁾	248 3 201 ¹⁾	024 3202 ¹⁾		231 2 881 ¹⁾
							015 2813	

Basic Dimensions:

Series Gds A-B, C, M, Q, R, D, E, F/FC, FM, H, MH

Half size Gds A-2B, 2C, 2Q, 2R, 2F/FC



- ¹⁾ Molding only; see next page for crimp contacts
- ²⁾ See next page for special contacts
- ³⁾ Row separation 2.54 mm (.10")
- ⁴⁾ 2 Brackets required, 2 x 09 06 000 9912
- ⁵⁾ 2 Brackets required, 2 x 09 06 000 9975
- ⁶⁾ First mate, last break contact z 32
- ⁷⁾ First mate, last break contact z 2 and z 32
- ⁸⁾ Angled version
- ⁹⁾ Bench press 09 99 000 0114
Base plate 09 99 000 0150
- ¹⁰⁾ Without fixing flange

We reserve the right to modify designs in order to improve quality, keep in step with technological advancement or meet particular requirements in production.

Accessories and Tooling

Crimp Contacts (Performance Level 1)				Insertion Tool ¹⁾	Crimp Tool ¹⁾	Automatic Crimping Machine for	Elektric Press 09 98 000 2000
Type	AWG	Male	Female	Removal Tool ²⁾	Locator ²⁾ Service Tool incl. Locator ³⁾	Male	Female
B, C	26-22	Single 5000/reel	09 02 999 8474 09 02 000 6474	09 99 000 0100¹⁾ 09 99 000 0101²⁾	09 99 000 0075¹⁾ 09 99 000 0099²⁾		09 98 000 2004
D, E, 2 F/FC, F/FC, FM, MH	28-24	Single 2500/reel	09 06 000 9554 09 06 000 9544	09 06 000 8474 09 06 000 6474	09 99 000 0088¹⁾ 09 99 000 0087²⁾	09 99 000 0075¹⁾ 09 99 000 0086²⁾ 09 99 000 0191³⁾	09 98 000 2005 09 98 000 2001
	26-20	Single 2500/reel	09 06 000 9551 09 06 000 9541	09 06 000 8471 09 06 000 6471	09 99 000 0088¹⁾ 09 99 000 0087²⁾	09 99 000 0076¹⁾ 09 99 000 0086²⁾ 09 99 000 0191³⁾	09 98 000 2006 09 98 000 2002
	20-16	Single 2500/reel	09 06 000 9552 09 06 000 9542	09 06 000 8472 09 06 000 6472	09 99 000 0088¹⁾ 09 99 000 0087²⁾	09 99 000 0077¹⁾ 09 99 000 0086²⁾ 09 99 000 0191³⁾	09 98 000 2007 09 98 000 2003

Some Special Contacts for Series M

Type	I	High Current Contacts Straight	High Current Contacts Angled	High Voltage Contacts 2.8 kV	Coaxial Contacts Straight	Coaxial Contacts Angled	Removal Tool
Male Contacts	10 A 20 A 40 A	 09 03 000 6101 09 03 000 6102 09 03 000 6103	 09 03 000 6104	 max. AWG 20 09 03 000 6140	 09 03 000 6160	 09 03 000 6161	 09 99 300 0174
Female Contacts	10 A 20 A 40 A	 09 03 000 6201 09 03 000 6202 09 03 000 6203		 max. AWG 20 09 03 000 6240	 09 03 000 6260	 09 03 000 6262	

Shell Housings

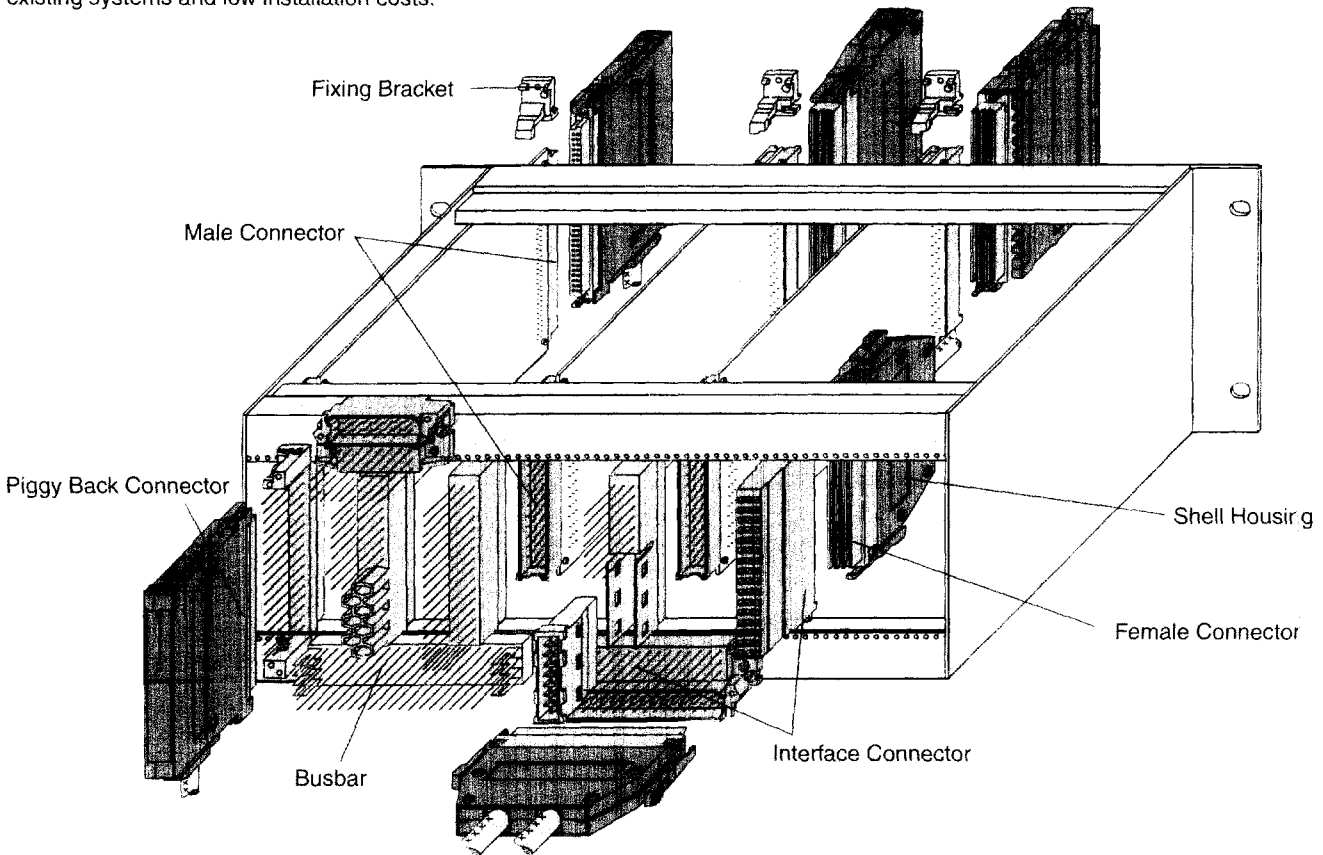
	C	A	B	D 15	D 20	G	O
With Female Insert							
With Male Insert							 ... 9968 ... 9930
Connector Series that fit into housings	Gds A-B, A-C, Gds A-D, A-E	Gds A-F/FC	Gds A-F/FC, Gds A-H, A-MH	Gds A-F/FC, Gds A-H, A-MH	Gds A-F/FC, Gds A-H, A-MH	Gds A-E, A-F/FC, Gds A-H, A-MH	Gds A-F/FC, Gds A-H, A-MH
Catalog No.	09 02 064 0501 09 02 064 0502 09 03 096 0501 09 05 048 0501	09 06 048 0501 09 06 048 0401 09 06 048 0402	09 06 048 0503 09 06 048 0504 09 06 048 0505	09 06 048 0515	09 06 048 0521	09 06 000 9957	09 06 000 9968 09 06 000 9930* * Order 2 pieces
Locking Levers Order 2 pieces, in some cases each with different part nos. for left and right hand	09 02 000 9902 09 02 000 9903	Supplied with the shell housing	09 06 000 9913 09 06 000 9919	Supplied with the shell housing			
Fixing Brackets	c	a	b	b	b	b	b
For Male Connectors							
Multiple Fixing	Left Right	09 02 000 9919 09 02 000 9920	09 06 000 9901 09 06 000 9902	09 06 000 9907 09 06 000 9908	09 06 000 9907 09 06 000 9908	09 06 000 9907 09 06 000 9908	09 06 000 9907 09 06 000 9908
Single Fixing	Left Right	09 02 000 9921 09 02 000 9922	09 06 000 9905 09 06 000 9906	09 06 000 9909 09 06 000 9910	09 06 000 9909 09 06 000 9910	09 06 000 9909 09 06 000 9910	09 06 000 9909 09 06 000 9910
For Female Connectors				b	b		t
Multiple Fixing	Left Right			09 06 000 9933 09 06 000 9933	09 06 000 9933 09 06 000 9933		09 06 000 9930 09 06 000 9933 09 06 000 9933
Single Fixing	Left Right			09 06 000 9951 09 06 000 9952	09 06 000 9951 09 06 000 9952		09 06 000 9930 09 06 000 9951 09 06 000 9952

HARTING's Gds A series of DIN connection components offers a comprehensive range of highly versatile connectors complemented by many styles of shell housings and a wide range of accessories, comprising a complete interconnection and interface system. Gds A series connectors are based on the requirements of DIN Standard 41 612. The number of contacts ranges from 15, 16, 32, 48, 64 and 96 in one, two or three rows in a 3.7" length molding. Contact areas are selectively gold plated according to the requirements of three different performance levels.

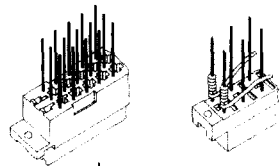
HARTING DIN connectors are also available with a wide variety of termination methods providing compatibility with existing systems and low installation costs.

The HARTING series Gds A DIN connectors include such features as:

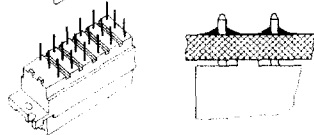
- Certified according to DIN EN ISO 9001 in design/development, production installation and servicing.
- All connectors series are CSA-approved.
- Connectors Series 2 B, B, 2 C, C, 2 Q, Q, 2 R, R, F/FC, 2 F/FC, H, M and MH are UL-approved.
- Low insertion and withdrawal force.
- High vibration resistance.
- Tinned terminations for greater solderability.
- All male connectors are available with first mate/last break connections for greater safety.



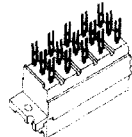
Wrap posts for automatic wiring techniques.



Solder pins for printed circuit boards.



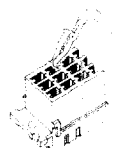
Solder lugs for discrete wiring.



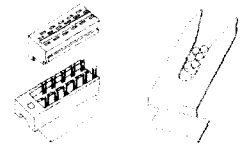
Press-in Technology for backplanes. (Compliant Pin)



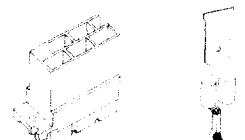
Crimp contacts for flexible wiring and selective loading. Contacts are easily replaced.



Insulation displacement contacts for mass termination of flat cable.



Faston blades for high power discrete wiring.



Cage-clamp spring contacts provide low cost connection for solid or stranded wires.

