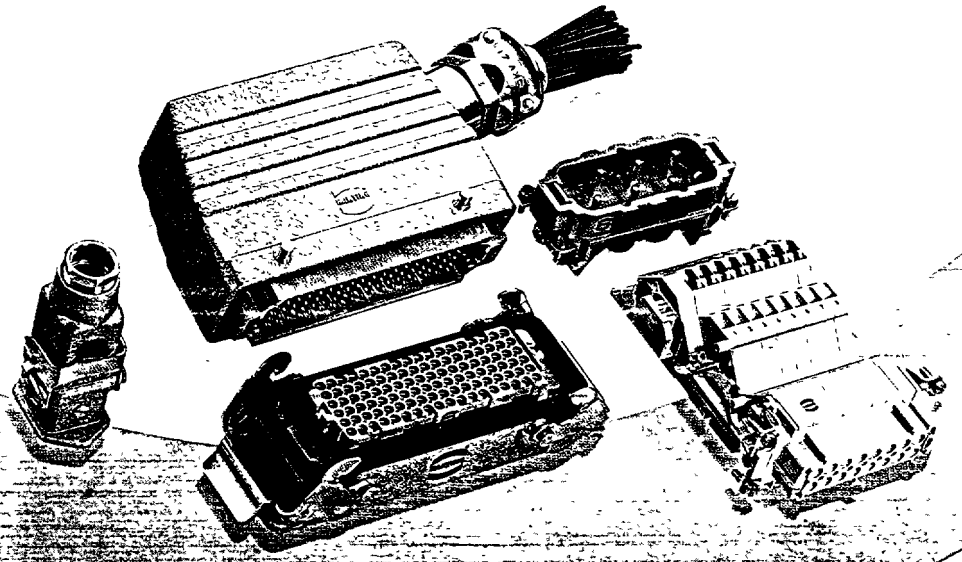
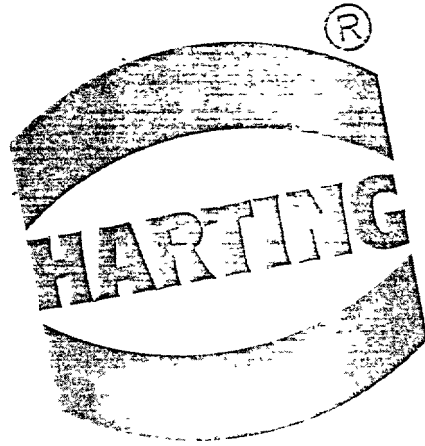


5 462 408 to 809

Heavy Duty Han[®] Connectors



Inserts



Catalog No. Guide

09 + Series No. + Contacts + Insert Suffix

0	9	+		+					
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Series		Han E®	Han® HsB	Han® DD	Han D®	Han A®		
Current Rating (A)		16	35	10	10	10		
Voltage Rating (V)		600	600	300	600	600		
CSA/UL		600	600	300	600	600		
VDE 0110		440~/C	440~/C	250~/C	250~/C	380~/B		
Wire Gauge (AWG)		12-26	max. 10	14-26	14-26	12-20		
Series No.	No. of Contacts	Male (M)/Female (F)	Contacts and Inserts Suffix	Contact arrangement	Termination*	Hoods/Housings Series	All inserts are with an integrated ground ⊕ clip	
							Series No.	No. of Contacts
33 Han E	6	M	006 2601	1-6	S	Han 6 E	Screw terminal with wire protection	
		F	2701					
		M	006 2602		C			
	10	M	006 2616	1-10	K	Han 10 E		
		F	2716					
		M	010 2601		S			
	16	M	010 2602	1-16	C	Han 16 E		
		F	2702					
		M	010 2616		K			
	24	M	016 2601	1-24	S	Han 24 E		
		F	2701					
		M	016 2602		C			
	32	M	016 2616	1-32	K	Han 32 E		
		F	2716					
		M	016 2601		S			
	48	M	016 2701	1-48	C	Han 48 E		
		F	2711					
		M	016 2602		S			
	6	M	016 2702	1-6	K	Han 6 E		
		F	2712					
		M	016 2616		S			
	12	M	016 2716	1-12	C	Han 12 E		
		F	2726					
		M	024 2601		S			
16	M	024 2701	1-16	C	Han 16 E			
	F	2711						
	M	024 2602		S		2612		
24	M	024 2702	1-24	K	Han 24 E			
	F	2712						
	M	024 2616		S		2626		
32	M	024 2716	1-32	C	Han 32 E			
	F	2726						
	M	024 2601		S		2611		
48	M	024 2701	1-48	C	Han 48 E			
	F	2711						
	M	024 2602		S		2612		
6	M	024 2702	1-6	K	Han 6 E			
	F	2712						
	M	024 2616		S		2626		
12	M	024 2716	1-12	C	Han 12 E			
	F	2726						
	M	024 2601		S		2611		
16	M	024 2701	1-16	C	Han 16 E			
	F	2711						
	M	024 2602		S		2612		
24	M	024 2702	1-24	K	Han 24 E			
	F	2712						
	M	024 2616		S		2626		
32	M	024 2716	1-32	C	Han 32 E			
	F	2726						
	M	024 2601		S		2611		
6	M	006 2601	1-6	S	Han 6 E	Screw terminal		
	F	2701						
	M	006 2601		C				2611
12	M	006 2701	1-12	K	Han 12 E			
	F	2711						
	M	006 2601		S		2611		
16	M	006 2701	1-16	C	Han 16 E			
	F	2711						
	M	006 2601		S		2611		
24	M	006 2701	1-24	K	Han 24 E			
	F	2711						
	M	006 2601		S		2611		
32	M	006 2701	1-32	C	Han 32 E			
	F	2711						
	M	006 2601		S		2611		
48	M	006 2701	1-48	K	Han 48 E			
	F	2711						
	M	006 2601		S		2611		
6	M	006 2701	1-6	C	Han 6 E	Cage-clamp spring terminal		
	F	2711						
	M	006 2601		S				2611
12	M	006 2701	1-12	K	Han 12 E			
	F	2711						
	M	006 2601		S		2611		
16	M	006 2701	1-16	C	Han 16 E			
	F	2711						
	M	006 2601		S		2611		
24	M	006 2701	1-24	K	Han 24 E			
	F	2711						
	M	006 2601		S		2611		
32	M	006 2701	1-32	C	Han 32 E			
	F	2711						
	M	006 2601		S		2611		
48	M	006 2701	1-48	K	Han 48 E			
	F	2711						
	M	006 2601		S		2611		

*Termination S - Screw clamp
 C - Crimp contact
 K - Cage-clamp spring

Note: Crimp contacts for wire gauges AWG 12 to 22-26 must be ordered separately

Hoods/Housings



Catalog No. Guide

09 + Series No. + Size + Type Suffix
 0 9 + [] + [] [] [] [] [] [] []

Series No	Hoods										Housings																
	Side-entry					Top-entry					Panel Mount					Surface Mount (two-side entry except Han 3 A)											
	Single lever		Double lever		Dimensions in mm		Pg		Pg		Pg		Pg		Pg		Pg		Pg								
	a	b	h	Pg	Size + Type Suffix 1 Lever	2 Levers	a	b	h	Pg	Size + Type Suffix 1 Lever	2 Levers	a	b	c	e	h	Size + Type Suffix 1 Lever	2 Levers	a	b	c	e	h	Size + Type Suffix 1 Lever	2 Levers	
20	Han 3 A	26.5	26.5	50	11	003 1640 ¹⁾ 003 0820 ²⁾	26.8	28.0	45	11	003 1440 ¹⁾ 003 0420 ²⁾		—	28	30	40	23	003 0301 ¹⁾ 003 0320 ²⁾		30	40	—	40.5	26.5	11	003 1250 ¹⁾ 003 0220 ²⁾	
	Han 10 A	63	29.5 36 36	54.5 64.5 64.5	16 21 21	010 1541 010 0540 010 0541	63	29.5 36 36	47 64.5 64.5	16 21 21	010 1440 010 0440 010 0441		70	81	17.5	29	26	010 0301		48	63.5	40	50	52	16	010 0291	
	Han 16 A	79.5	29.5 36 36	54.5 70.5 70.5	16 21 21	016 1541 016 0540 016 0541	79.5	29.5 36 36	47 70.5 70.5	16 21 21	016 1441 016 0440 016 0441		86	96	17.5	29	26	016 0301		64	80	40	50	50 57	16 16	016 1291 016 0291	
	Han 32 A	82	56	56 61 75 75	21 21 21 21	032 1520 032 1521 032 0520 032 0521	82	56	75	21	032 0420 032 0421		92	102	42	56	28.5	032 0301		94	106	46	57	82	21	032 0270 032 0271	
30	Han 6 E	60	43	43 43 70 70	15 16 21 23	006 1540 006 1541 006 0542 006 0543	60	43	40 40 70 70	15 16 21 23	006 1440 006 1441 006 0442 006 0443		70	80	32	43	28.5	006 0301 006 0302 ³⁾		70	82	40 45 45 45	52 52 57 57	51.5 51.5 73 73	16 16 21 23	006 1291 006 1296 ³⁾ 006 0292 006 0297 ³⁾ 006 0293 006 0298 ³⁾	
	Han 10 E	73	43	52 70 70	16 21 23	010 1541 010 0542 010 0543	73	43	45 70 70	16 21 23	010 1441 010 0442 010 0443	010 1421 010 0422 010 0423	83	93	32	43	28.5	010 0305 010 0303 ³⁾	010 0301	82	94	40 45 45 45	52 52 57 57	54 60 60 60	16 21 21 23	010 1291 010 1296 ³⁾ 010 0292 010 0297 ³⁾ 010 0293 010 0298 ³⁾	010-1271 010 0272 010 0273
	Han 16 E	93.5	43	60 76 76	21 21 23	016 1540 016 0540 016 0541	016 1520 016 0520 016 0521	93.5	43	45 76 76	21 21 23	016 1440 016 0440 016 0441	016 1420 016 0420 016 0421	103	113	32	43	28.5	016 0307 016 0306 ³⁾	016 0301	105	117	45 57 77 77	56 56 77 77	21 21 23 23	016 1290 016 1295 ³⁾ 016 0291 016 0296 ³⁾	016 1270 016 0271
	Han 24 E	120	43	60 76 76	21 21 23	024 1540 024 0540 024 0541	024 1520 024 0520 024 0521	120	43	55 76 76	21 21 23	024 1441 024 0440 024 0441	024 1421 024 0420 024 0421	130	140	32	43	28.5	024 0307 024 0304 ³⁾	024 0301	132	144	45 57 80 90	56 56 80 90	21 21 23 23	024 1290 024 1295 ³⁾ 024 0291 024 0296 ³⁾	024 1270 024 0271
	Han 32 E	94	82.5	94	23 23 23	032 0521 032 0522 032 0523	94	82.5	94	23 23 23	032 0421 032 0422 032 0423		110	124	65	90	33	032 0301		112	125	67	87	90	23 23 23	032 0271 032 0272 032 0273	
	Han 48 E	132	90	98	23 23 23	048 0540 048 0541 048 0542	132	90	98	23 23 23	048 0440 048 0441 048 0442		148	165	70	90	40	048 0301 ³⁾		111	141	106	120	99	23 23 23	048 0290 048 0295 ³⁾ 048 0291 048 0296 ³⁾	

¹⁾ Metal ²⁾ Thermoplastic ³⁾ With thermoplastic spring cover

Inserts



Catalog No. Guide

09 +Series No. + Contacts + Insert Suffix
 0 9 + [] + [] [] [] [] []

Series	Han E®	Han® HsB	Han® DD	Han D®	Han A®
Current Rating (A)	16	35	10	10	10
Voltage Rating (V)	600	600	300	600	600
CSA/UL	600	600	300	600	600
VDE 0110	440~/C	440~/C	250~/C	250~/C	380~/B
Wire Gauge (AWG)	12-26	max 10	14-26	14-26	12-20

Series No.	No. of Contacts	Male (M)/Female (F)	Contacts and Inserts Suffix	Contact arrangement	Termination*	Hoods/Housings Series	All inserts are with an integrated ground ⊕ clip	Series No.	No. of Contacts	Male (M)/Female (F)	Contacts and Inserts Suffix	Contact arrangement	Termination*	Hoods/Housings Series	All inserts are with an integrated ground ⊕ clip
33 Han E	6	M	006 2601	1-6	S	Han 6 E	Screw terminal with wire protection	16	M	024 3001	1-24	C	Han 6 E	Crimp terminal Order contacts separately	
		F	2701		F				3101						
		M	006 2602		F				042 3001						
		F	2702		M				072 3001						
		M	006 2616		F				3101						
		F	2716		M				108 3001						
	10	M	010 2601	1-10	S	Han 10 E									
		F	2701		M				3101						
		M	010 2602		F				072 3001						
		F	2702		M				3011						
		M	010 2616		F				3101						
		F	2716		M				73-144						
	16	M	016 2601	1-16	S	Han 16 E									
		F	2701		M			108 3001							
		M	016 2602		F			3011							
		F	2702		M			109-216							
		M	016 2616		F			3101							
		F	2716		M			109-216							
	24 32 48	24	M	016 2601	1-24	S		Han 24 E							
			F	2701		M			108 3001						
			M	016 2602		F			3011						
			F	2702		M			109-216						
			M	016 2616		F			3101						
			F	2716		M			109-216						
32		M	016 2601	1-16 17-32	S	Han 32 E									
		F	2701		M		108 3001								
		M	016 2602		F		3011								
		F	2702		M		109-216								
		M	016 2616		F		3101								
		F	2716		M		109-216								
6 12	6	M	006 2601	1-6	S	Han 6 E									
		F	2701		M		108 3001								
		M	006 2602		F		3011								
		F	2702		M		109-216								
		M	006 2616		F		3101								
		F	2716		M		109-216								
	12	M	006 2601	1-6 7-12	S	Han 12 E									
		F	2701		M		108 3001								
		M	006 2602		F		3011								
		F	2702		M		109-216								
		M	006 2616		F		3101								
		F	2716		M		109-216								

Series No.	No. of Contacts	Male (M)/Female (F)	Contacts and Inserts Suffix	Contact arrangement	Termination*	Hoods/Housings Series	All inserts are with an integrated ground ⊕ clip
16 Han DD	24	M	024 3001	1-24	C	Han 6 E	Crimp terminal Order contacts separately
		F	3101				
		M	042 3001				
		F	3101				
		M	072 3001				
		F	3101				
	108	M	108 3001	1-108	C	Han 24 E	
		F	3101				
		M	072 3001				
		F	3011				
		M	072 3101				
		F	3111				
216	M	108 3001	1-108 109-216	C	Han 48 E		
	F	3011					
	M	108 3001					
	F	3111					
	M	108 3001					
	F	3111					
21 Han D	7	M	007 3031 ¹⁾	1-7	C	Han 3 A ¹⁾	Crimp terminal Order contacts separately
		F	3131 ¹⁾				
		M	015 3001				
		F	3101				
		M	025 3001				
		F	3101				
	40	M	040 3001	1-40	C	Han 16 A	
		F	3101				
		M/F	2x Han 25 D				
		F	1-25				
		M	064 3001				
		F	3101				
80	M	064 3001	1-64	C	Han 32 A		
	F	3101					
	M/F	2x Han 40 D					
	F	1-40					
	M	064 3001					
	F	3101					
128	M/F	2x Han 64 D	1-64 1-64	C	Han 48 E		
	F	1-64					
	M/F	2x Han 64 D					
	F	1-64					
	M	064 3001					
	F	3101					
20 Han A	3	M	003 2611	1-3	S	Han 3 A	Screw terminal
		F	2711				
		M	010 2612				
		F	2812				
		M	010 3001				
		F	3101				
	10	M	010 2612	1-10	C	Han 10 A	
		F	2812				
		M	010 3001				
		F	3101				
		M	016 2612				
		F	2812				
16	M	016 2612	1-16	C	Han 16 A		
	F	2812					
	M	016 3001					
	F	3101					
	M	016 2612					
	F	2613					
32	M	016 2612	1-16 17-32	S	Han 32 A		
	F	2613					
	M	016 2812					
	F	2813					
	M	016 3001					
	F	3011					
32	M	016 3001	1-16 17-32	C	Han 32 A		
	F	3011					
	M	016 3101					
	F	3111					
	M	016 3101					
	F	3111					

Series No.	No. of Contacts	Male (M)/Female (F)	Contacts and Inserts Suffix	Contact arrangement	Termination*	Hoods/Housings Series	All inserts are with an integrated ground ⊕ clip
31 Han HsB	6	M	006 2601	1-6	S	Han 16 E	Screw terminal
		F	2701				
		M	006 2601				
12	12	M	006 2601	1-6 7-12	S	Han 32 E	Cage-clamp spring terminal
		F	2701				
		M	006 2601				
27	27	M	006 2601	1-6 7-12	S	Han 32 E	Cage-clamp spring terminal
		F	2701				
		M	006 2601				

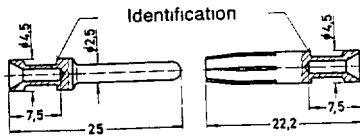
*Termination: S - Screw clamp
 C - Crimp contact
 K - Cage-clamp spring

Note: Crimp contacts for wire gauges AWG 12 to 22-26 must be ordered separately

Crimp Contacts — Silver Plated

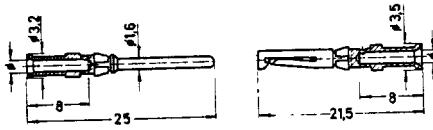
Dimensions in mm

For Inserts Han E, Han A



Male Contacts	Female Contacts	Identification	Wire Gauge
09 33 000 6121	09 33 000 6220	no groove	0.5 mm AWG 20
09 33 000 6105	09 33 000 6205	1 groove	0.75 mm AWG 18
09 33 000 6104	09 33 000 6204	2 grooves	1 mm AWG 16
09 33 000 6102	09 33 000 6202	3 grooves	1.5 mm AWG 14
09 33 000 6107	09 33 000 6207	no groove	2 mm AWG 12

For Inserts Han DD, Han D



Male Contacts	Female Contacts	Ø	Wire Gauge
09 15 000 6104	09 15 000 6204	0.90	0.4-0.57 mm AWG 26-22
09 15 000 6103	09 15 000 6203	1.10	0.5 mm AWG 20
09 15 000 6102	09 15 000 6202	1.45	0.75 mm AWG 18
09 15 000 6101	09 15 000 6201	1.75	1 mm AWG 16
09 15 000 6106	09 15 000 6206	2.25	1.5 mm AWG 14

Crimping Tools

HARTING-crimping tool

Locator for contacts Han E, Han A
Locator for contacts Han DD, Han D



Locator order separately

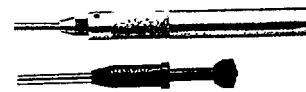
Buchanan-crimping tool

Locator for contacts Han E, Han A
Locator for contacts Han DD, Han D



Locator order separately

Removal tool for contacts Han DD, Han D



Available on demand:
- Semi-automatic crimping machine
- Automatic crimping machine
- Wire stripping tool

09 99 000 0110
09 99 000 0112
09 99 000 0111

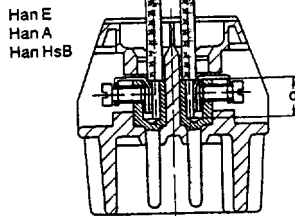
09 99 000 0001
09 99 000 0013
09 99 000 0028

09 99 000 0012

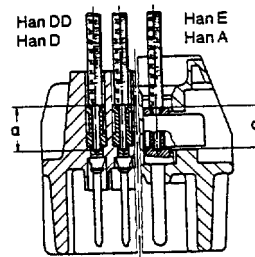
09 99 000 0052

Termination details for inserts

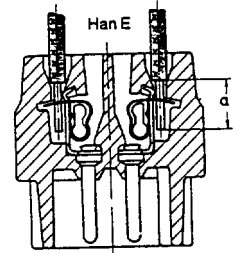
Screw Terminal



Crimp Terminal



Cage-Clamp Spring Terminal



Inserts	max. wire gauge (mm ²)	Stripping length a (mm)
Han 3A	2.5	4.5
Han A	2.5	7
Han E	2.5	7
Han HsB	6.0	11.5

Wire gauge (mm ²)		AWG	Internal diameter Ø (mm)	Stripping length a (mm)	
				Han DD Han D	Han E Han A
0.14	.037	26-22	0.9	8	-
0.5		20	1.1	8	7.5
0.75	.1	18	1.45	8	7.5
1.5		16	1.75	8	7.5
2.5		14	2.25	6	7.5
4		12	2.85	-	7.5

Wire gauge (mm ²)
0.14...2.5
AWG 26...AWG 14
Stripping length a (mm)
9...11

Cable Entry Protection — Metal

Pg	Image 1	Image 2	Image 3	Image 4	Image 5	Image 6	Image 7
	09 00 000 5101 09 00 000 5102 09 00 000 5103 09 00 000 5104 09 00 000 5106 09 00 000 5107 09 00 000 5108	09 00 000 5020 09 00 000 5021 09 00 000 5022 09 00 000 5023 09 00 000 5024 09 00 000 5025 09 00 000 5026	09 00 000 5027 09 00 000 5028 09 00 000 5029 09 00 000 5030 09 00 000 5031 09 00 000 5032 09 00 000 5033	09 00 000 5113 09 00 000 5114 09 00 000 5115 09 00 000 5116 09 00 000 5117 09 00 000 5146 09 00 000 5119	09 00 000 5013 09 00 000 5014 09 00 000 5015 09 00 000 5016 09 00 000 5017 09 00 000 5018 09 00 000 5019	09 00 000 5164	

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

HARTING Products Application Orientated Technology



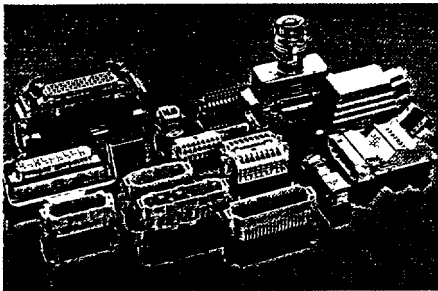
Founded in 1945 HARTING ELEKTRONIK has become one of the World's leading manufacturers and suppliers of Industrial Power Connectors designed to meet demanding industrial applications and environments.

Reliable Quality and Service from HARTING.

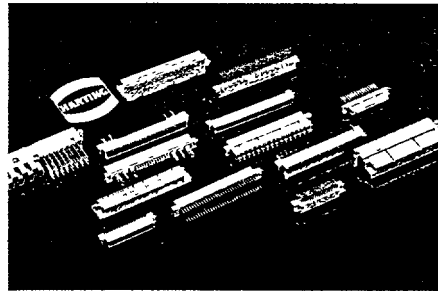
With manufacturing facilities in Germany, Great Britain, Switzerland, France and Hong Kong, and subsidiary companies throughout the world, HARTING'S dedicated staff of connection technology experts forms the foundation of a company prepared to meet the challenge of today's ever changing and demanding market-customer requirements.

Internationally recognized as a major supplier of advanced technology and reliable quality connectors, HARTING ELEKTRONIK's market leader dedication in the research and development of connection technology and inter-connection systems assures that only top-quality products complying with international standards are offered.

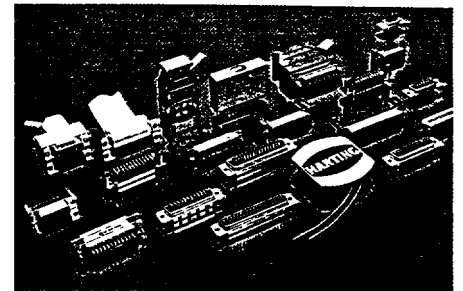
The following product lines are currently available from HARTING ELEKTRONIK.



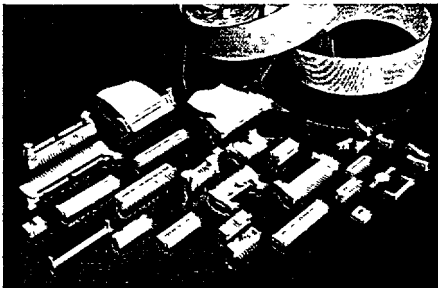
Heavy Duty Han® Connectors



DIN Connectors



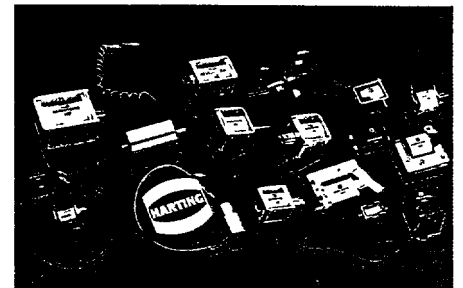
D-Subminiature Connectors



IDC Flat Cable Connectors



LWL Fiber Optic Systems



Miniature Solenoids



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 ☎ 9723 10-14 he d
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Sweden: S-16353 Spånga
 ☎ (08) 7617980

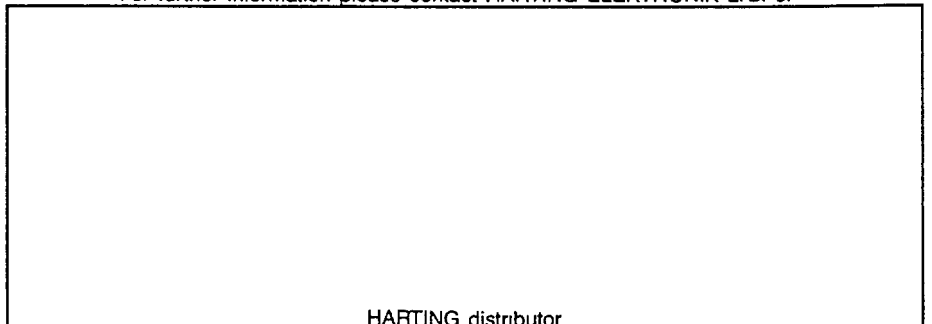
Switzerland:
 CH-8603 Schwerzenbach
 ☎ 01-8255151

USA: Illinois 60195
 ☎ (312) 519-7700

Production Plants

Germany
Great Britain
Switzerland
France
Hong Kong

For further information please contact HARTING ELEKTRONIK LTD. or -



HARTING distributor

HARTING Products Application Orientated Technology



HARTING Heavy Duty Han® Connectors are applicable in a wide variety of electronic and electrical applications including for example:

- Power Utilities
- Chemical Plants
- Machine Tool Controls
- Industrial Instrumentation
- Conveyor Equipment

and many more.

All hoods and housings are in accordance with International Standard IEC 529 (DIN 40050) degree of protection IP 65 which specifies that enclosures are protected against windblown dust and rain, splashing water and hose directed water.

This degree of protection complies in full with NEMA Type 4 (Publication No. 250-1979) requirements.

The following HARTING Han® series connectors Han E®, Han® HsB, Han D®, Han A®, Han® Hv E, Han® Hv ES are:

- Recognized under file # E 80178 and
- Approved under certified file # 18753.

A complete connector consists of the following components:

Accessories (Consult Factory)

- cable clamps and glands with seals
- coding keys
- fixing screws

Hoods with

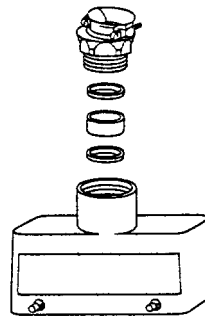
- top or side entry
- low or high profile
- single or double locking lever

Male/Female inserts with

- screw clamp or
- crimp contact or
- cage-clamp spring termination

Housings (panel or surface mount)

- one or two side entry
- low or high profile
- single or double locking lever
- with or without plastic spring cover
- protective covers available
- labels according to CSA-approval



Special cable clamp

Seal

Hood
Die-Cast
Aluminium



Male contacts
Silver or
Gold plated



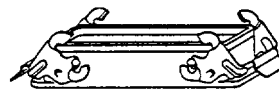
Male insert
UL Recognized
Material



Female insert
UL Recognized
Material



Female contacts
Silver or
Gold plated



Housing
Die-Cast
Aluminium

Additional Heavy Duty Han® Connector series available from HARTING.

Series	Han® K				Han® EAV	Han® Hv E		Han® Hv ES	
Current	16 A	10 A	80 A	16 A	16 A	16 A		16 A	
Voltage CSA/UL	600 V	300 V	600 V		600 V	600 V		600 V	
VDE 0110	380 V AC 450 V DC	250 V AC 300 V DC	380 V AC 450 V DC		380 V AC / 450 V DC	500 V AC / 600 V DC		750 V AC / 900 V DC	
No. of Contacts	8	24	4	8	6, 10, 16, 24	3, 6, 10, 12, 16, 20, 26, 32		3, 6, 10, 12, 20	

Heavy Duty Han® Hoods and Housings for applications where aggressive atmospheres are encountered use standard series Han® M and for hazardous intrinsically safe applications use series Han® U.

R 15

462-608 to 462-524

470-524

250 V~
300 V- max. 10 A

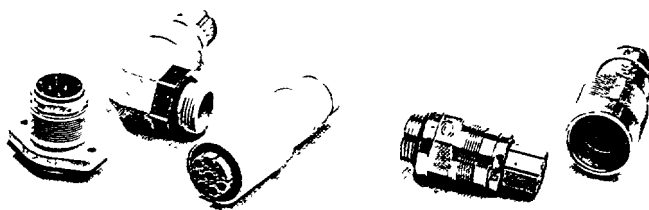


157-583

157-584

Number of contacts

7+



Inserts

Identification

Series

Part No
Male insert (M)

Female insert

Drawing

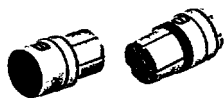
Dimensions in mm

Crimp terminal

Inserts for plastic hoods/housings

Order contacts separately

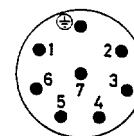
R15



09 15 007 3001

09 15 007 3101

Male insert



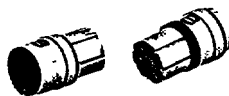
Contact arrangement View from termination side

Crimp terminal

Inserts for metal hoods/housings

Order contacts separately

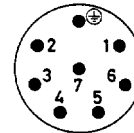
R15



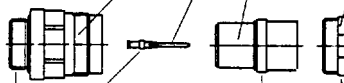
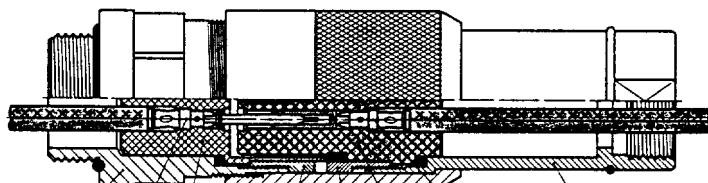
09 15 007 3021

09 15 007 3121

Female insert



Mounting example



Male contact M-Male insert



F-Female insert Female contact Hood Cable seal

Identification

Wire gauge (mm²)

Part No.
Male contacts

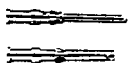
Female contacts

Drawing

Dimensions in mm

Crimp contacts

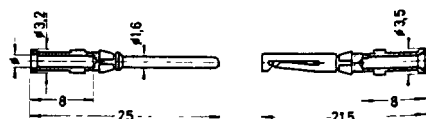
Crimping tools page 152



0,14-0,37
0,5
0,75-1
1,5
2,5

silver plated
09 15 000 6104
09 15 000 6103
09 15 000 6102
09 15 000 6101
09 15 000 6106

silver plated
09 15 000 6204
09 15 000 6203
09 15 000 6202
09 15 000 6201
09 15 000 6206



0,14-0,37
0,5
0,75-1
1,5
2,5

gold plated
09 15 000 6124
09 15 000 6123
09 15 000 6122
09 15 000 6121
09 15 000 6126

gold plated
09 15 000 6224
09 15 000 6223
09 15 000 6222
09 15 000 6221
09 15 000 6226

Wire gauge		∅	Stripping length
0,14-0,37 mm ²	AWG 26-22	0,90 mm	8 mm
0,5 mm ²	AWG 20	1,10 mm	8 mm
0,75-1 mm ²	AWG 18	1,45 mm	8 mm
1,5 mm ²	AWG 16	1,75 mm	8 mm
2,5 mm ²	AWG 14	2,25 mm	6 mm

Identification	Part No.		Pg	Drawing	Dimensions in mm
	Thermoplastic	Metal			
Hoods					
	09 15 000 0401		11		
		09 15 000 0421	11		
Housings bulkhead mounting					
	09 15 000 0301				
Housings screw mounting					
	09 15 000 0101				
		09 15 000 0121			
Housings angled					
	09 15 000 0102				
		09 15 000 0122			
Housings Cover					
	09 15 000 5401				
Coupled connector					