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HARTING High density Han[®] DDD insert and Han-Eco[®] B

Connectivity solutions for increased efficiency

LD/2019-08-04_98_42_968_0201_DIN A 5_Version 1

Han® DDD: Strong signal transmission requires less space

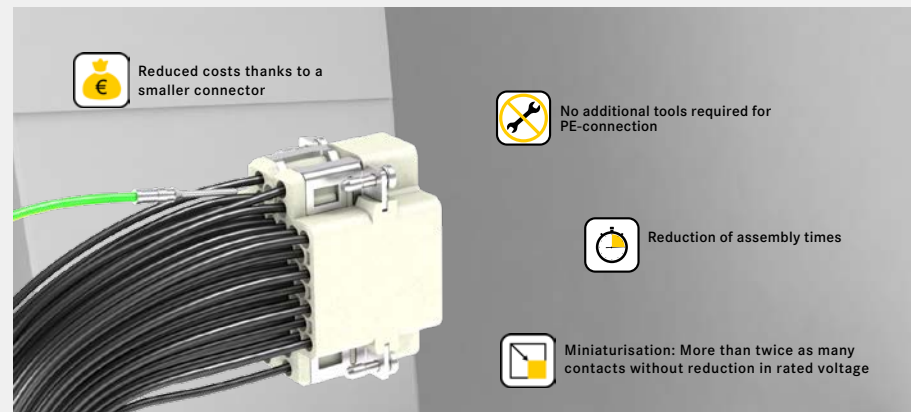
The Han DDD® is the industrial connector for transmitting signals that most consistently reflects the miniaturisation trend in the robotics sector.

The triple "D" stands for the highest contact density. Compared to the previous standard, the number of contacts in the Han® DDD has more than doubled – with dimensions and electrical characteristics remaining the same (250 V / 10 A).

This higher power density has been achieved by an improved PE connection, which frees up the insulating body surface for additional contact chambers.

The benefits for the customer:

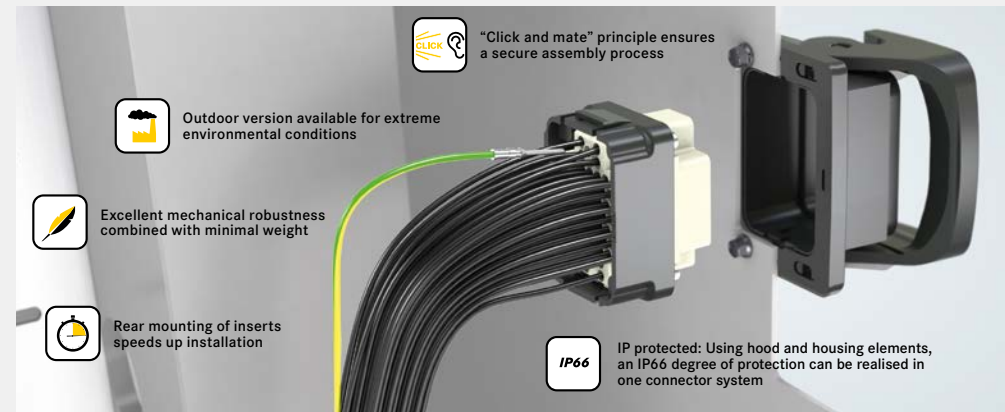
- Up to 130% higher contact density without reduction in rated voltage (compared to well-known Han® DD inserts)
- Cost reduction: Increased number of contacts per interface
- Process optimisation: One termination technology for electrical and PE contacts
- Reduction of assembly times: No additional accessories or tools required for PE-connection
- Additional space savings: Connector size can be reduced



Han-Eco® B



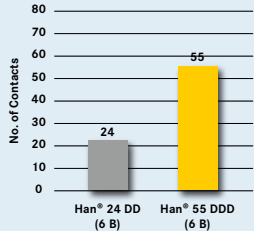
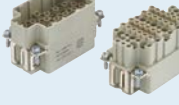

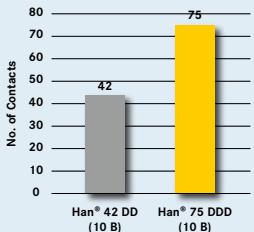


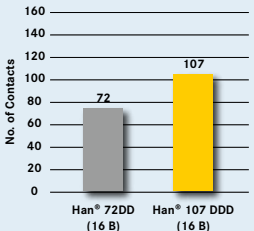
So far, the use of connectors means significant and unavoidable efforts when attaching cable harnesses to switch cabinets. Assembly is mainly carried out in the field, outside the control cabinet. For this purpose, the cables have to be conducted from the inside to the outside; then, the insulation body is pre-assembled and pushed back into the bulk-head mounted housing on the cabinet wall.

The new Han® B and Han-Eco® B connectors simplify the installation of switch cabinets. They help to master the challenges by enabling time savings e.g. when it comes to the installation of devices using the industrial standard Han® B. Both ends of the pre-fabricated harnesses can be snapped directly into the housing.



Identification

Han® 55 / 75 / 107 DDD




Identification	Figure	Comparison to Han DD®
Size 6 B Male (M): Han® 55 DDD M-c Part No.: 09 16 055 2001 Female (F): Han® 55 DDD F-c Part No.: 09 16 055 2101		Higher Contact Density up to + 130 %  
Size 10 B Male (M): Han® 75 DDD M-c Part No.: 09 16 075 2001 Female (F): Han® 75 DDD F-c Part No.: 09 16 075 2101		Higher Contact Density up to + 78 %  
Size 16 B Male (M): Han® 107 DDD M-c Part No.: 09 16 107 2001 Female (F): Han® 107 DDD F-c Part No.: 09 16 107 2101		Higher Contact Density up to + 48 %  

Technical Characteristics

Han® 55 / 75 / 107 DDD

Inserts

Contacts	55, 75, 107
Rated current	10 A
Rated voltage	250 V
Rated impulse voltage	4 K
Pollution degree	3
Limiting temperatures	-40 °C to +125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	Polycarbonate
Colour (insert)	RAL 7032


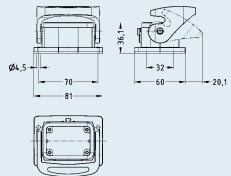

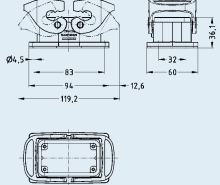

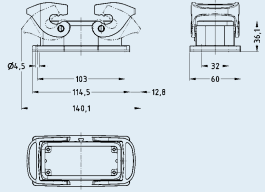

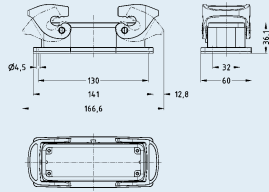
Identification	Conductor cross-section (mm ²)	Part number Male	Part number Female
Han D® crimp contact, silver plated 	0.14 ... 0.37	09 15 000 6104	09 15 000 6204
	0.5	09 15 000 6103	09 15 000 6203
	0.75	09 15 000 6105	09 15 000 6205
	1	09 15 000 6102	09 15 000 6202
	1.5	09 15 000 6101	09 15 000 6201
Han D® crimp contact, gold plated 	0.14 ... 0.37	09 15 000 6124	09 15 000 6224
	0.5	09 15 000 6123	09 15 000 6223
	0.75	09 15 000 6125	09 15 000 6225
	1	09 15 000 6122	09 15 000 6222
Crimping tool 			09 99 000 0888

Identification

Han-Eco® B

Technical Characteristics

Han-Eco® B

	Identification	Figure	Drawings
Size 6 B	Han-Eco® B, Bulkhead mounted housing, Rear mounting, Part No.: 19 43 006 0340		
Size 10 B	Han-Eco® B, Bulkhead mounted housing, Rear mounting, Part No.: 19 43 010 0320		
Size 16 B	Han-Eco® B, Bulkhead mounted housing, Rear mounting, Part No.: 19 43 016 0320		
Size 24 B	Han-Eco® B, Bulkhead mounted housing, Rear mounting, Part No.: 19 43 024 0320		

Hood/Housing/Locking/Seal/Accessories

Limiting temperature	-40 ... +125 °C
Degree of protection acc. to IEC 60529	IP66
Material (hood/housing)	Polyamide
Colour (hood/housing)	RAL 9005 (jet black)
Material (seal)	NBR
Material (locking)	Polyamide
Colour (locking)	RAL 9005 (jet black)
Material (accessories)	Polyamide
Flammability acc. to UL 94	V-0