



**Automatización Eléctrica**  
Especialistas en Automatización

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# Heavy-duty plug-in connectors

## HEAVYCON type D7 - contact inserts

### Q series

250 - 500 V, 10 - 40 A

- Connection technology:
  - Axial screw connection
  - Crimp connection

To determine the matching housings, refer to the cross-reference list on page 402.

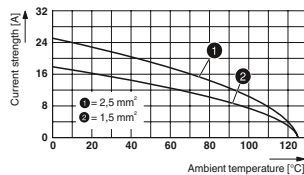
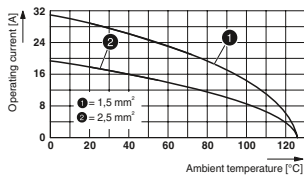
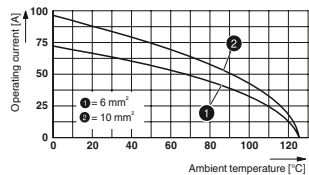
**Notes:**

For accessories, see from page 552
HC-B 5-E...C does not contain an IP65 sealing screw
HC-B5-ESTC profile gaskets made from NBR
Order crimp contacts separately
Connectors may only be operated when under no load.
Observe notes on the connection technology



Type	Technical data			
	HC-HS 2-D7-E...S	HC-B 5-E...C	HC-D 7-E...C-COD	HC-Q 12-I-CT...
Approvals				-
IEC data				
Rated current, contacts (at 40°C)	A	40	16	10
Surge voltage category		III	III	III
Pollution degree		3	3	3
Rated voltage (III/3) contacts	V	400	230 / 400	400
Rated surge voltage, contacts	kV	6	4	6
Connection cross section	mm <sup>2</sup>	4 ... 10	0.5 ... 2.5	0.14 ... 2.5
UL data				
Rated voltage	V	600	-	600
Rated current	A	28	-	10
AWG		-	-	14
CSA data				
Rated voltage	V	-	-	-
Rated current	A	-	-	-
AWG		-	-	-
Material data				
Contact carrier material		PC	PA	PC
Inflammability class in acc. with UL 94		V0	V0	V0
Contact material		Copper alloy	Copper alloy	Copper alloy
Contact surface material		Ag	Ag (alternatively Au)	Ag (alternatively Au)
Temperature data				
Ambient temperature range	°C	-40 ... 125	-40 ... 125	-40 ... 125
General data				
Connection method		Axial screw connection	Crimp connection	Crimp connection
No. of pos.		2	5	7
Contact numbering		1 - 2	1 - 5	1 - 7
Insertion/withdrawal cycles		≥ 500	≥ 500	≥ 500

### Derating curves



# Heavy-duty plug-in connectors

## HEAVYCON type D7 - contact inserts

Description	Pos.	Number	Housing	Type	Ordering data		Pcs./ Pkt.	Dimensions (in mm)																																																	
					Socket	Plug		a	b	c	d																																														
<b>Axial screw connection</b>								<p>Dimensional drawing: socket</p>																																																	
	2	1 - 2	D7	① HC-HS 2-D7-E...S	1586264	1586277	10	<p>Dimensional drawing: pin</p>																																																	
<b>Crimp connection CK 2,5</b>								<p>Dimensional drawing: socket</p>																																																	
	5	1 - 5	D7	② HC-B 5-E...C	1687820	1687817	10																																																		
<b>Crimp connection CK 1,6</b>								<p>Dimensional drawing: socket</p>																																																	
	7	1 - 7	D7	③ HC-D 7-E...C-COD	1408588	1408575	10																																																		
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	12	1 - 12	D7	④ HC-Q 12-I-CT...	1409419	1409422	1	<table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>① Socket</td> <td></td> <td></td> <td>34.8</td> <td></td> </tr> <tr> <td>① Plug</td> <td></td> <td></td> <td>40</td> <td></td> </tr> <tr> <td>② Socket</td> <td></td> <td></td> <td>40</td> <td></td> </tr> <tr> <td>② Plug</td> <td></td> <td></td> <td>39.5</td> <td></td> </tr> <tr> <td>③ Socket</td> <td></td> <td></td> <td>40.1</td> <td></td> </tr> <tr> <td>③ Plug</td> <td></td> <td></td> <td>39.5</td> <td></td> </tr> <tr> <td>④ Socket</td> <td></td> <td></td> <td>43.1</td> <td></td> </tr> <tr> <td>④ Plug</td> <td></td> <td></td> <td>40.8</td> <td></td> </tr> </tbody> </table>						a	b	c	d	① Socket			34.8		① Plug			40		② Socket			40		② Plug			39.5		③ Socket			40.1		③ Plug			39.5		④ Socket			43.1		④ Plug			40.8	
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### Accessories



Dummy sockets  
From page 582



Coding profiles  
From page 582



Crimp contacts  
From page 564

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<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
HEAVYCON male insert, B5 series, 5-pos., crimp connection	1687817	HC-B 5-ESTC	<a href="#">Buy on EAN</a>
HEAVYCON female insert, B5 series, 5-pos., crimp connection	1687820	HC-B 5-EBUC	<a href="#">Buy on EAN</a>