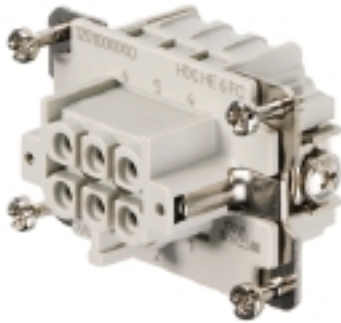


HDC insert HDC HE 6 FC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com



For the crimp connection, the wire connection level is designed as a crimp contact. The established crimp connection has been used as a standard for decades. Crimp contacts are not delivered with the inserts.

Number of poles: **6**

Rated current: **24 A**

Rated voltage: **500 V**

Nominal voltage acc. to UL/CSA: **600 V AC/DC**

Crimp connection

General ordering data

Type	HDC HE 6 FC
Order No.	1201000000
Version	HDC insert, Female, 500 V, 24 A, No. of poles: 6, Crimp connection, Size: 3
GTIN (EAN)	4008190131678
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	51 mm	Length (inches)	2.008 inch
Width	34 mm	Width (inches)	1.339 inch
Height	33.5 mm	Height (inches)	1.319 inch
Net weight	34 g		

Temperatures

Limit temperature	-40 °C ... 125 °C
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Dimensions

Height of socket	33.5 mm	Total length base	51 mm
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General data

Conductor cross-section	4 mm ²	Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)
Insulating material group	IIIa	Insulation resistance	10 ¹⁰ Ω
Material	Copper alloy	No. of poles	6
Plugging cycles, gold	≥ 500	Plugging cycles, silver	≥ 500
Pollution severity	3	Rated current (DIN EN 61984)	24 A
Rated impulse voltage (DIN EN 61984)	6 kV	Rated voltage (DIN EN 61984)	500 V
Rated voltage according to UL/CSA	600 V AC/DC	Series	HE
Size	3	Surface finish	Silver passivated, gold
Type	Female	UL 94 flammability rating	V-0
Volume resistance	≤ 2mΩ		

Connection data PE

Blade size, crosshead	size PH1	Blade size, slotted (PE connection)	SD 0.8 x 4.0
Connection type PE	Screw connection	Fixing screw	M 4
Rated cross-section	4 mm ²	Stripping length PE connection	10 mm
Tightening torque, max. PE connection	1.5 Nm	Tightening torque, min. PE connection	1.2 Nm
Wire connection cross section, finely stranded, max.	4 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	4 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire cross section, AWG (PE), max.	AWG 12	Wire cross section, AWG (PE), min.	AWG 20
Wire cross-section, solid, max.	4 mm ²	Wire cross-section, solid, min.	0.5 mm ²

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Technical data**Version**

Conductor cross-section, max.	4 mm ²	Conductor cross-section, min.	0.5 mm ²
Material	Copper alloy	Size	3
Stripping length, rated connection	7.5 mm	Surface finish	Silver passivated, gold
Type of connection	Crimp connection	Volume resistance	≤ 2mΩ
Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section, finely stranded, max.	4 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	4 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire cross-section, solid, max.	4 mm ²	Wire cross-section, solid, min.	0.5 mm ²

Classifications

ETIM 3.0	EC001121	ETIM 4.0	EC000438
ETIM 5.0	EC000438	ETIM 6.0	EC000438
UNSPSC	30-21-18-01	eClass 5.1	27-14-34-19
eClass 6.2	27-26-12-04	eClass 7.1	27-44-02-05
eClass 8.1	27-44-02-05	eClass 9.0	27-44-02-05
eClass 9.1	27-44-02-05		

Product information

Descriptive text technical data	Rated voltage 630 V / 6 kV at pollution degree 2. For 6-pole HE inserts, the rated current is 24 A.
Descriptive text accessories	Accessories, see chapter J - Tools, see chapter K

Approvals

Approvals



ROHS Conform

Downloads

Brochure/Catalogue	CAT 3 HDC 17/18 EN FL FIELDWIRING EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
Technical Documentation	1201000000_HDC_HE_06_FC_STP_Blatt_1.pdf

Data sheet

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Drawings



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Accessories

... for milled contacts



Crimping tools for turned contacts

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
CTIN CM 1.6/2.5	9205430000	Crimping tool, Crimping tool for contacts, 0.14mm ² , 6mm ² , 4-indent crimp	4032248733446	1 pc(s).
CTX CM 1.6/2.5	9018490000	Crimping tool, Crimping tool for contacts, 0.14mm ² , 4mm ² , W crimp	4008190884598	1 pc(s).

Crosshead screwdriver Phillips

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDK PH1	9008480000	Screwdriver, Blade width (B): 4.5 mm, Blade length: 80 mm	4032248056477	1 pc(s).

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Accessories

Crosshead screwdriver Phillips

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDIK PH1	9008570000	Screwdriver, Blade length: 80 mm	4032248056569	1 pc(s).

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDS 0.8X4.0X100	9008340000	Screwdriver, Blade width (B): 4 mm, Blade length: 100 mm, Blade thickness (A): 0.8 mm	4032248056293	1 pc(s).

Tools

Tools for removing the sheathing of uncut power cables and outgoing feeders, plus screwdrivers for installing FieldPower components.



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDS 0.6X3.5X100	9008330000	Screwdriver, Blade width (B): 3.5 mm, Blade length:	4032248056286	1 pc(s).

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Accessories

100 mm, Blade thickness
 (A): 0.6 mm

Crimp contacts HE

Crimps provide a electrical and mechanical connection between wire and contact that is both secure and reliable. The optimal crimp connection is gas-tight and corrosion-resistant.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
HDC-C-HE- BM0.75-1.00AG	1201200000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 1, turned, Copper alloy	4008190044480	100 pc(s).
HDC-C-HE- BM1.5AG	1201300000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 1.5, turned, Copper alloy	4008190100346	100 pc(s).
HDC-C-HE- BM0.5AU	1651470000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 0.5, turned, Copper alloy	4008190400149	100 pc(s).
HDC-C-HE- BM1.5AU	1651490000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 1.5, turned, Copper alloy	4008190400163	100 pc(s).
HDC-C-HE- BM0.5AG	1201100000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 0.5, turned, Copper alloy	4008190142698	100 pc(s).
HDC-C-HE- BM0.75-1.00AU	1651480000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 1, turned, Copper alloy	4008190400156	100 pc(s).

Data sheet

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Accessories

HDC-C-HE- BM2.5AU	1651500000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 2.5, turned, Copper alloy	4008190400170 100 pc(s).
HDC-C-HE- BM4.0AG	1201500000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 4, turned, Copper alloy	4008190148096 100 pc(s).
HDC-C-HE- BM4.0AU	1651510000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 4, turned, Copper alloy	4008190400187 100 pc(s).
HDC-C-HE- BM2.5AG	1201400000	Heavy Duty Connectors, Crimp contact, HE, HEE, HQ, MixMate, Female, Conductor cross-section, max.: 2.5, turned, Copper alloy	4008190047078 100 pc(s).

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDIS 0.8X4.0X100	9008400000	Screwdriver, Blade width (B): 4 mm, Blade length: 100 mm, Blade thickness (A): 0.8 mm	4032248056361	1 pc(s).
SDIS 0.6X3.5X100	9008390000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	4032248056354	1 pc(s).

Data sheet

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Accessories

Non-contact tools



Tools for dismantling Weidmüller crimp contacts

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
Removal Tool HE	1866750000	Tools, Contact removal tool	4032248437078	1 pc(s).

HE

Various accessories are available for our inserts. This includes coding elements for the inserts.



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
HDC HE CP	1003240000	Heavy Duty Connectors, Accessories, Coding System	4032248698233	100 pc(s).

Tightening torques and screwing tools

Screw size	Connector type	Dia. tightening torque in Nm	Recommended blade inserts and AF size for hexagon socket
M 2.5	Signal contacts		
	S 6/6	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	S 6/12	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
M 2.9 x 0.5	Fastening screws		
	HQ 4/2	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
	HQ 8	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
	HQ 17	0.8 (plastic) / 1.1 (metal)	SD 0.6 x 3.5 mm or PH0
M 3	Contact screws		
	HA 3	0.5 - 0.55	SD 0.5 x 3.0 mm
	HA 4	0.5 - 0.55	SD 0.5 x 3.0 mm
	HA 10 bis HA 48	0.5 - 0.55	SD 0.6 x 3.5 mm or PH0
	HE	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	HVE	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Signal contacts:		
	S 4/2	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	S 4/8	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	PE connection via female contact		
	S 4	0.5 - 0.8	SD 0.6 x 3.5 mm
	ConCept modular frame, metal	0.5 - 0.55	SD 0.6 x 3.5 mm
	PE terminal		
	HQ 5	0.5 - 0.55	SD 0.6 x 3.5 or 0.8 x 4 mm
	HQ 7	0.5 - 0.55	SD 0.6 x 3.5 or 0.8 x 4 mm
	Fastening screws	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Guide pin	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Guide bush	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	Coding pins	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	M 4	Contact screws	
HSB		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
PE connection via male contact			
S 4		0.5 - 0.8	SD 0.6 x 3.5 mm
ConCept modular frame, metal		1.2 - 1.5	SD 0.6 x 3.5 mm
PE terminal			
HA		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HEE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HVE		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PH1
HD		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
HDD		1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
S 6/6 (for signal contacts)		1.2 - 1.5	0.8 x 4 mm or PZ1
ConCept modular frame, plastic		1.2 - 1.5	0.8 x 4 mm or PZ1
M 5		PE terminal	
	HSB	2 - 2.5	SD 1 x 5.5 mm or PZ2
	S 4/0 (Screw connection)	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 4/0 (Axial screw connection)	2 - 2.5	SD 0.8 x 4 mm or PZ 2
	S 4/2	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 4/8	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 6/12	2 - 2.5	SD 0.8 x 4 mm or PZ 2
	S 6/36	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 8/24	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	S 12/2	2 - 2.5	SD 1.2 x 6.5 mm or PH2
	M 6	Power contacts	
S 4/0 (Screw connection)		1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²)	SD 0.8 x 4 mm
S 4/2		1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²)	SD 0.8 x 4 mm
S 4/8		1.2 (1.5 mm ²) / 2 (2.5 mm ²) / 3 (4-16 mm ²)	SD 0.8 x 4 mm
M 7 x 0.75	Power contacts		
	S 4	1.1 - 1.7	SW 2
	S 6/6 (+ PE)	6 - 8	SW 4
M 8 x 0.75	Power contacts		
	S 6/12	1.1 - 1.7	SW 2
	S 8/0 (+ PE)	6 (10-16 mm ²) - 7 (25 mm ²)	SW 4
M10 x 1	Power contacts		
	S 4/0 (Axial connection)	2 - 3	SW 3

Increasing the tightening torque does not improve the contact resistance. The stated torque settings offer optimal mechanical, thermal and electrical conditions. Exceeding the recommended values may even damage the conductor and terminal.