

**HDC insert
HDC HD 8 MC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

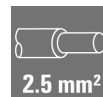
D-32758 Detmold

Germany

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www.weidmueller.com



The HD range features a high density of contacts. It is thus optimally suited for signal processing.
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: **7 - 8**

Rated current: **10 A**

Rated voltage: 42/**250 V**

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

Crimp connection

General ordering data

Type	HDC HD 8 MC
Order No.	1650590000
Version	HDC insert, Male, 50 V, 10 A, No. of poles: 8, Crimp connection, Size: 1
GTIN (EAN)	4008190299262
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	21 mm	Length (inches)	0.827 inch
Width	21 mm	Width (inches)	0.827 inch
Height	34 mm	Height (inches)	1.339 inch
Net weight	10 g		

Temperatures

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

Height of plug	34 mm	Total length base	21 mm
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General data

Conductor cross-section	2.5 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	8
Plugging cycles, gold	≥ 500	Plugging cycles, silver	≥ 500
Pollution severity	3	Rated current (DIN EN 61984)	10 A
Rated impulse voltage (DIN EN 61984)	4 kV	Rated voltage (DIN EN 61984)	50 V
Rated voltage according to UL/CSA	600 V AC/DC	Series	HD
Size	1	Surface finish	Silver passivated, gold
Type	Male	UL 94 flammability rating	V-0
Volume resistance	≤ 4mΩ		

Connection data PE

Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²	Rated cross-section	2.5 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	2.5 mm ²
Wire connection cross-section, finely stranded, min.	0.5 mm ²	Wire cross section, AWG (PE), max.	AWG 14
Wire cross section, AWG (PE), min.	AWG 20	Wire cross-section, solid, max.	2.5 mm ²
Wire cross-section, solid, min.	0.5 mm ²		

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Technical data

Version

Conductor cross-section, max.	2.5 mm ²	Conductor cross-section, min.	0.14 mm ²
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²	Material	Copper alloy
Size	1	Stripping length, rated connection	8 mm
Surface finish	Silver passivated, gold	Type of connection	Crimp connection
Volume resistance	≤ 4mΩ	Wire connection cross section AWG, max.	AWG 14
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section, finely stranded, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	2.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire cross-section, solid, max.	2.5 mm ²	Wire cross-section, solid, min.	0.5 mm ²

Classifications

ETIM 3.0	EC001121	ETIM 4.0	EC001121
ETIM 5.0	EC001121	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	HD 8 insert without protective earth connection
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

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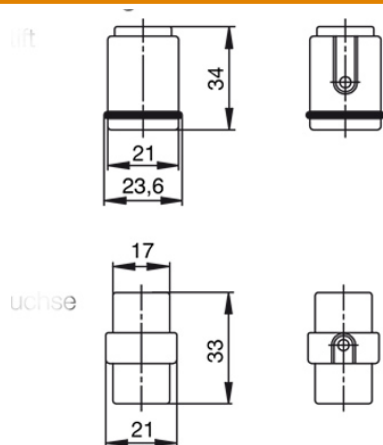
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Drawings



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Accessories

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).

Crosshead screwdriver Pozidriv

VDE insulated crosshead screwdriver type Pozidriv SDIK
 PZ DIN 7438, ISO 8764/2-PZ, output to ISO 8764-PZ,
 SoftFinish grip



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDIK PZ1	9008900000	Screwdriver, Blade length: 80 mm	4032248266685	1 pc(s).

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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 HD	1866730000	Tools, Contact removal tool	4032248437054	1 pc(s).

Crosshead screwdriver Pozidriv



Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDK PZ1	9008530000	Screwdriver, Blade width (B): 4.5 mm, Blade length: 80 mm	4032248056521	1 pc(s).

Crimp contacts HD



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-HD- SM0.5AG	1651530000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,	4008190400200	100 pc(s).

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Accessories

		Conductor cross-section, max.: 0.5, turned, Copper alloy	
HDC-C-HD- SM1.5AU	1651650000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 1.5, turned, Copper alloy	4008190400323 100 pc(s).
HDC-C-HD- SM2.5AU	1651660000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 2.5, turned, Copper alloy	4008190400330 100 pc(s).
HDC-C-HD- SM0.75-1.00AG	1601750000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 1, turned, Copper alloy	4008190134280 100 pc(s).
HDC-C-HD- SM0.14-0.37AU	1651620000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 0.37, turned, Copper alloy	4008190400293 100 pc(s).
HDC-C-HD- SM1.5AG	1651550000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 1.5, turned, Copper alloy	4008190400224 100 pc(s).
HDC-C-HD- SM0.5AU	1651630000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 0.5, turned, Copper alloy	4008190400309 100 pc(s).
HDC-C-HD- SM0.75-1.00AU	1651640000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 1, turned, Copper alloy	4008190400316 100 pc(s).
HDC-C-HD- SM2.5AG	1651560000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section, max.: 2.5, turned, Copper alloy	4008190400231 100 pc(s).
HDC-C-HD- SM0.14-0.37AG	1651520000	Heavy Duty Connectors, Crimp contact, HD, HDD, HQ, MixMate, Male, Conductor cross-section,	4008190400194 100 pc(s).

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Accessories

max.: 0.37, turned, Copper
alloy

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 0.6X3.5X100	9008390000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	4032248056354	1 pc(s).
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).

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: 100 mm, Blade thickness (A): 0.6 mm	4032248056286	1 pc(s).

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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).

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.