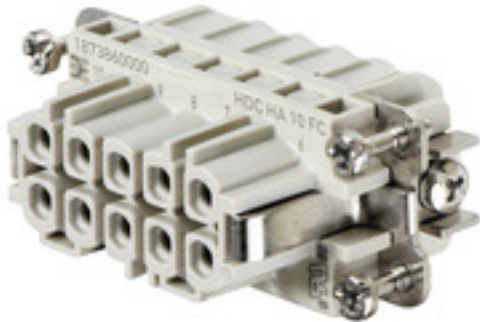


**HDC HA 10 FC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

The small and thin HA series can be used wherever space is limited.

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.

Pole count: 10

Rated current: 22 A

Rated voltage 250 V

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

Crimp connection

**General ordering data**

Version	HDC insert, Female, 250 V, 16 A, Number of poles: 10, Crimp connection, Size: 2
Order No.	<a href="#">1873860000</a>
Type	HDC HA 10 FC
GTIN (EAN)	4032248458370
Qty.	1 pc(s).

## HDC HA 10 FC

Weidmüller Interface GmbH &amp; Co. KG

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www.weidmueller.com

## Technical data

## Dimensions and weights

Depth	56.6 mm	Depth (inches)	2.228 inch
Height	31.1 mm	Height (inches)	1.224 inch
Width	23 mm	Width (inches)	0.906 inch
Net weight	28 g		

## Temperatures

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

## Dimensions

Height of socket	31.1 mm	Total length base	56.6 mm
Width	23 mm		

## General data

BG	2	
Colour	beige	
Conductor cross-section	2.5 mm²	
Free from halogens	true	
Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)	
Insulating material group	IIIa	
Insulation strength	10 <sup>10</sup> Ω	
Low smoke acc. DIN EN 45545-2	Yes	
Material	Copper alloy	
Number of poles	10	
Plugging cycles, gold	≥ 500	
Plugging cycles, silver	≥ 500	
Pollution severity	3	
Rated current (DIN EN 61984)	16 A	
Rated current (UR)	Wire connection cross section AWG	AWG 12
	Rated current	20 A
	Wire connection cross section AWG	AWG 14
	Rated current	15 A
	Wire connection cross section AWG	AWG 16
	Rated current	10 A
	Wire connection cross section AWG	AWG 18
	Rated current	7 A
	Wire connection cross section AWG	AWG 20
Rated current (cUR)	Rated current	5 A
	Wire connection cross section AWG	AWG 12
	Rated current	19 A
	Wire connection cross section AWG	AWG 14
	Rated current	15 A
	Wire connection cross section AWG	AWG 16
	Rated current	12 A
	Wire connection cross section AWG	AWG 18
	Rated current	8 A
Rated impulse voltage (DIN EN 61984)	Wire connection cross section AWG	AWG 20
	Rated current	8 A
	Rated current	8 A
Rated impulse voltage (DIN EN 61984)	4 kV	
Rated voltage (DIN EN 61984)	250 V	
Rated voltage according to UL/CSA	600 V AC/DC	
Series	HA	

Creation date November 5, 2024 7:16:39 PM CET

Catalogue status 26.10.2024 / We reserve the right to make technical changes.

## HDC HA 10 FC

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## Technical data

Size	2
Type	Female
Type of connection	Crimp connection
UL 94 flammability rating	V-0
Volume resistance	≤2 mΩ

## Connection data PE

Blade size, slotted (PE connection)	SD 0.8 x 4.0	Connection type PE	Screw connection, Crimp connection
Fixing screw	M 4	Rated cross-section	2.5 mm <sup>2</sup>
Stripping length PE connection	10 mm	Tightening torque, max. PE connection	1.5 Nm
Tightening torque, min. PE connection	1.2 Nm	Wire cross section, AWG (PE), max.	AWG 14
Wire cross section, AWG (PE), min.	AWG 20		

## Version

BG	2	Conductor cross-section, max.	4 mm <sup>2</sup>
Conductor cross-section, min.	0.5 mm <sup>2</sup>	Material	Copper alloy
Size	2	Stripping length, rated connection	8 mm
Type of connection	Crimp connection	Volume resistance	≤2 mΩ
Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	2.5 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>

## Classifications

ETIM 6.0	EC000438	ETIM 7.0	EC000438
ETIM 8.0	EC000438	ETIM 9.0	EC000438
ECLASS 9.0	27-44-02-05	ECLASS 9.1	27-44-02-05
ECLASS 10.0	27-44-02-05	ECLASS 11.0	27-44-02-05
ECLASS 12.0	27-44-02-05	ECLASS 13.0	27-44-02-05
ECLASS 14.0	27-44-02-05		

Substance	Acetone
Chemical resistance	Resistant
Substance	Ammonia, watery
Chemical resistance	Conditionally resistant
Substance	Petrol
Chemical resistance	Resistant
Substance	Benzene
Chemical resistance	Resistant
Substance	Diesel oil
Chemical resistance	Conditionally resistant
Substance	Acetic acid, concentrated
Chemical resistance	Resistant
Substance	Potassium hydroxide

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## Technical data

Chemical resistance	Conditionally resistant
Substance	Methanol
Chemical resistance	Conditionally resistant
Substance	Motor oil
Chemical resistance	Conditionally resistant
Substance	Lye, diluted
Chemical resistance	Resistant
Substance	Hydrochlorofluorocarbons
Chemical resistance	Conditionally resistant
Substance	Outdoor use
Chemical resistance	Conditionally resistant

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3
SCIP	b67daa31-7dca-434d-8290-da7fb52f83a2
Chemical resistance	de.myview.objectmodel.impl.BlockImpl@6b03cdde de.myview.objectmodel.impl.BlockImpl@78334f43 de.myview.objectmodel.impl.BlockImpl@466e62b de.myview.objectmodel.impl.BlockImpl@660ea133 de.myview.objectmodel.impl.BlockImpl@1396ed11 de.myview.objectmodel.impl.BlockImpl@71bdf177 de.myview.objectmodel.impl.BlockImpl@425916d5 de.myview.objectmodel.impl.BlockImpl@51cd3094 de.myview.objectmodel.impl.BlockImpl@7597a1d9 de.myview.objectmodel.impl.BlockImpl@6b3fc055 de.myview.objectmodel.impl.BlockImpl@61da9c59 de.myview.objectmodel.impl.BlockImpl@59ab4966

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E92202

## Downloads

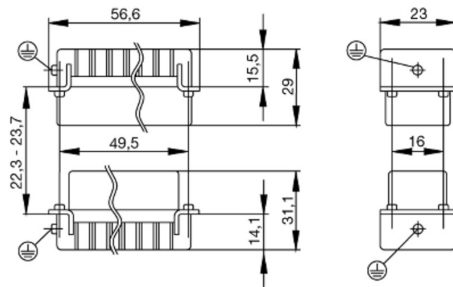
Engineering Data	<a href="#">CAD data – STEP</a>
Technical Documentation	<a href="#">1873860000 HDC HA 10 FC STP Blatt_1.pdf</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a> <a href="#">FL FIELDWIRING EN</a>

## HDC HA 10 FC

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## Drawings



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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	SDIS 0.6X3.5X100	Version
Order No.	<a href="#">9008390000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056354	
Qty.	1 pc(s).	
Type	SDIS 0.8X4.0X100	Version
Order No.	<a href="#">9008400000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056361	
Qty.	1 pc(s).	

**Contact removal tools**

Weidmüller offers a variety of crimping tools, contact removal tools, and fibre optic tools.

**General ordering data**

Type	REMOVAL TOOL HE	Version
Order No.	<a href="#">1866750000</a>	Tools, Contact Removal Tool
GTIN (EAN)	4032248437078	
Qty.	1 pc(s).	

## HDC HA 10 FC

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## Accessories

## 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	HDC-C-HE-BM2.5AG	Version
Order No.	<a href="#">1201400000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190047078	Female, Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM4.0AG	Version
Order No.	<a href="#">1201500000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190148096	Female, Conductor cross-section, max.: 4, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM1.5AU	Version
Order No.	<a href="#">1651490000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190400163	Female, Conductor cross-section, max.: 1.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM1.5AG	Version
Order No.	<a href="#">1201300000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190100346	Female, Conductor cross-section, max.: 1.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM0.5AU	Version
Order No.	<a href="#">1651470000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190400149	Female, Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM0.75-1.00AG	Version
Order No.	<a href="#">1201200000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190044480	Female, Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM0.75-1.00AU	Version
Order No.	<a href="#">1651480000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190400156	Female, Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM2.5AU	Version
Order No.	<a href="#">1651500000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190400170	Female, Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-BM0.5AG	Version
Order No.	<a href="#">1201100000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190142698	Female, Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories**

Type	HDC-C-HE-BM4.0AU	Version
Order No.	<a href="#">1651510000</a>	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate,
GTIN (EAN)	4008190400187	Female, Conductor cross-section, max.: 4, turned, Copper alloy
Qty.	100 pc(s).	

**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	SDIK PH1	Version
Order No.	<a href="#">9008570000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	

**HE**

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

**General ordering data**

Type	HDC HE CP	Version
Order No.	<a href="#">1003240000</a>	Heavy-duty connectors, Accessories, Coding System
GTIN (EAN)	4032248698233	
Qty.	100 pc(s).	



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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	SDK PH1	Version
Order No.	<a href="#">9008480000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056477	
Qty.	1 pc(s).	

**Crimping tools****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	CTX CM 1.6/2.5	Version
Order No.	<a href="#">9018490000</a>	Pressing tool, Crimping tool for contacts, 0.14mm <sup>2</sup> , 4mm <sup>2</sup> , W crimp
GTIN (EAN)	4008190884598	
Qty.	1 pc(s).	

Type	CTIN CM 1.6/2.5	Version
Order No.	<a href="#">9205430000</a>	Pressing tool, Crimping tool for contacts, 0.14mm <sup>2</sup> , 6mm <sup>2</sup> , 4-indent
GTIN (EAN)	4032248733446	crimp
Qty.	1 pc(s).	

## HDC HA 10 FC

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## Accessories

## DSTV

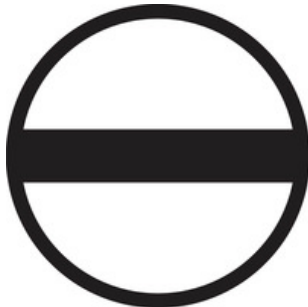


Various accessories are available for our inserts. This includes coding elements for the inserts.

## General ordering data

Type	DSTV COBU5	Version
Order No.	<a href="#">1471500000</a>	Heavy-duty connectors, Accessories, Coding element
GTIN (EAN)	4008190178543	
Qty.	100 pc(s).	
Type	DSTV COST4	Version
Order No.	<a href="#">1471300000</a>	Heavy-duty connectors, Accessories, Coding System
GTIN (EAN)	4008190017354	
Qty.	100 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	SDS 0.6X3.5X100	Version
Order No.	<a href="#">9008330000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 pc(s).	
Type	SDS 0.8X4.0X100	Version
Order No.	<a href="#">9008340000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056293	
Qty.	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
<b>M 2.5</b>	<b>Signal contacts</b>		
	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
<b>M 2.9 x 0.5</b>	<b>Fastening screws</b>		
	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
<b>M 3</b>	<b>Contact screws</b>		
	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
	<b>Signal contacts:</b>		
	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
	<b>PE connection via female contact</b>		
	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
	<b>PE terminal</b>		
	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
	<b>Fastening screws</b>	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	<b>Guide pin</b>	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	<b>Guide bush</b>	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
	<b>Coding pins</b>	0.5 - 0.55	SD 0.6 x 3.5 mm or PZ0
<b>M 4</b>	<b>Contact screws</b>		
	HSB	1.2 - 1.5	SD 0.6 x 3.5 or 0.8 x 4 mm or PZ1
	<b>PE connection via male contact</b>		
	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
	<b>PE terminal</b>		
	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
<b>M 5</b>	<b>PE terminal</b>		
	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
<b>M 6</b>	<b>Power contacts</b>		
	S 4/0 (Screw connection)	1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> )	SD 0.8 x 4 mm
	S 4/2	1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> )	SD 0.8 x 4 mm
	S 4/8	1.2 (1.5 mm <sup>2</sup> ) / 2 (2.5 mm <sup>2</sup> ) / 3 (4-16 mm <sup>2</sup> )	SD 0.8 x 4 mm
<b>M 7 x 0.75</b>	<b>Power contacts</b>		
	S 4	1.1 - 1.7	SW 2
	S 6/6 (+ PE)	6 - 8	SW 4
<b>M 8 x 0.75</b>	<b>Power contacts</b>		
	S 6/12	1.1 - 1.7	SW 2
	S 8/0 (+ PE)	6 (10-16 mm <sup>2</sup> ) - 7 (25 mm <sup>2</sup> )	SW 4
<b>M10 x 1</b>	<b>Power contacts</b>		
	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.