

HDC HA 10 MS**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

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

The wire connection level is designed as a screw element. All screw connection elements are equipped with wire protection (with the exception of size 1).

Pole count: 10

Rated current: 16 A

Rated voltage: 250 V

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

Screw connection

General ordering data

Version	HDC insert, Male, 250 V, 16 A, Number of poles: 10, Screw connection, Size: 2
Order No.	1650610000
Type	HDC HA 10 MS
GTIN (EAN)	4008190299286
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	56.6 mm	Depth (inches)	2.228 inch
Height	29 mm	Height (inches)	1.142 inch
Width	23 mm	Width (inches)	0.906 inch
Net weight	49 g		

Temperatures

Limit temperature -40 °C ... 125 °C

Environmental Product Compliance

REACH SVHC Lead 7439-92-1, Potassium perfluorobutane sulfonate 29420-49-3

SCIP b67daa31-7dca-434d-8290-da7fb52f83a2

Chemical resistance	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
	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

Dimensions

Height of plug	29 mm	Total length base	56.6 mm
Width	23 mm		

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General data

BG	2
Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)
Insulation strength	$10^{10} \Omega$
Max. torque for main contact	0.55 Nm
Number of poles	10
Pollution severity	3
Rated impulse voltage (DIN EN 61984)	4 kV
Rated voltage according to UL/CSA	600 V AC/DC
Size	2
Type	Male
Volume resistance	$\leq 2 \text{ m}\Omega$

Conductor cross-section	2.5 mm^2
Insulating material group	IIIa
Material	Copper alloy
Min. torque for main contact	0.5 Nm
Plugging cycles, silver	≥ 500
Rated current (DIN EN 61984)	16 A
Rated voltage (DIN EN 61984)	250 V
Series	HA
Surface finish	Silver passivated
UL 94 flammability rating	V-0

Connection data PE

Blade size, slotted (PE connection)	SD 0.8 x 4.0
Fixing screw	M 4
Stripping length PE connection	10 mm
Tightening torque, min. PE connection	1.2 Nm
Wire cross section, AWG (PE), min.	AWG 20

Connection type PE	Screw connection
Rated cross-section	2.5 mm^2
Tightening torque, max. PE connection	1.5 Nm
Wire cross section, AWG (PE), max.	AWG 14

Version

BG	2
Blade size, slotted (screw connection)	SD 0.6 x 3.5
Conductor cross-section, max.	2.5 mm^2
Material	Copper alloy
Min. torque for main contact	0.5 Nm
Stripping length, rated connection	9 mm
Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 14
Wire connection cross section, finely stranded, max.	2.5 mm^2
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm^2
Wire cross-section, solid, max.	2.5 mm^2

Blade size	size PHO
Clamping screw	M 3
Conductor cross-section, min.	0.5 mm^2
Max. torque for main contact	0.55 Nm
Size	2
Surface finish	Silver passivated
Volume resistance	$\leq 2 \text{ m}\Omega$
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section, finely stranded, min.	0.5 mm^2
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm^2
Wire cross-section, solid, min.	0.5 mm^2

Classifications

ETIM 6.0	EC000438
ETIM 8.0	EC000438
ECLASS 9.1	27-44-02-05
ECLASS 11.0	27-44-02-05

ETIM 7.0	EC000438
ECLASS 9.0	27-44-02-05
ECLASS 10.0	27-44-02-05
ECLASS 12.0	27-44-02-05

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Approvals



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

Downloads

Approval/Certificate/Document of Conformity	Manufacturer's declaration
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Technical Documentation	1650610000 HDC HA 10 MS STP Blatt 1.pdf
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN FL FIELDWIRING EN

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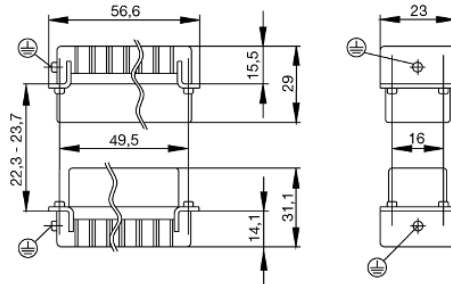
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Drawings



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.

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