

HDC S8/24 MC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

The MixMate series of connectors can simultaneously transmit high rated currents and voltages as well as signals.

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.

Crimp connection

General ordering data

Version	HDC insert, Male, 400 V, 16 A, Number of poles: 32, Crimp connection, Size: 4
Order No.	1023290000
Type	HDC S8/24 MC
GTIN (EAN)	4032248739448
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	64 mm	Depth (inches)	2.52 inch
Height	35.3 mm	Height (inches)	1.39 inch
Width	34 mm	Width (inches)	1.339 inch
Net weight	48 g		

Temperatures

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

Height of plug	35.3 mm	Total length base	64 mm
Width	34 mm		

General data

BG	4	Colour	beige
Free from halogens		Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)
	true		
Insulating material group	IIIa	Insulation strength	10 ¹⁰ Ω
Low smoke acc. DIN EN 45545-2	Yes	Material	Copper alloy
Number of poles	32	Number of power contacts	8
Number of signal contacts	24	Plugging cycles, gold	≥ 500
Plugging cycles, silver	≥ 500	Pollution severity	3
Power contact, type	HE	Rated current (DIN EN 61984)	16 A
Rated impulse voltage (DIN EN 61984)	4 kV	Rated voltage (DIN EN 61984)	400 V
Rated voltage according to UL/CSA	600 V AC/DC	Series	MixMate
Signal contact, type	HD	Size	4
Type	Male	Type of connection	Crimp connection
UL 94 flammability rating	V-0	Volume resistance	≤2 mΩ

Connection data PE

Blade size, slotted (PE connection)	SD 1.2 x 6.5	Connection type PE	Screw connection
Fixing screw	M 5	Rated cross-section	6 mm ²
Stripping length PE connection	13 mm	Tightening torque, max. PE connection	2.5 Nm
Tightening torque, min. PE connection	2 Nm	Wire cross section, AWG (PE), max.	AWG 10
Wire cross section, AWG (PE), min.	AWG 20		

Power contact

Clamping range, power contact, max.	4 mm ²	Clamping range, power contact, min.	0.5 mm ²
Number of poles, performance contact	8	Rated current (DIN EN 61984), power contact	16 A
Rated impulse voltage (DIN EN 61984), power contact	4 kV	Rated voltage (DIN EN 61984), power contact	400 V
Stripping length, performance contact	7.5 mm	Type of connection, power contact	Crimp connection

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Signal contact

Clamping range, signal contact, max.	2.5 mm ²	Clamping range, signal contact, min.	0.5 mm ²
Number of poles, signal	24	Rated current (DIN EN 61984), signal	10 A
Rated impulse voltage (DIN EN 61984), signal	2.5 kV	Rated voltage (DIN EN 61984), signal contact	160 V
Stripping length, signal	8 mm	Type of connection, signal	Crimp connection

Version

BG	4	Conductor cross-section, max.	4 mm ²
Conductor cross-section, min.	0.5 mm ²	Material	Copper alloy
Size	4	Stripping length, rated connection	7.5 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.	6 mm ²	Wire connection cross section, finely stranded, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire cross-section, solid, max.	6 mm ²	Wire cross-section, solid, min.	0.5 mm ²

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

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

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Technical data

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

Environmental Product Compliance

REACH SVHC	Potassium perfluorobutane sulfonate 29420-49-3
SCIP	1609748e-c278-4c9b-b3d1-e6215d2988cd
Chemical resistance	de.myview.objectmodel.impl.BlockImpl@611cb45d de.myview.objectmodel.impl.BlockImpl@34f7543d de.myview.objectmodel.impl.BlockImpl@1df0653a de.myview.objectmodel.impl.BlockImpl@700c96a8 de.myview.objectmodel.impl.BlockImpl@74366aa8 de.myview.objectmodel.impl.BlockImpl@7aee8eaf de.myview.objectmodel.impl.BlockImpl@6429fd7d de.myview.objectmodel.impl.BlockImpl@70048e86 de.myview.objectmodel.impl.BlockImpl@37a0c904 de.myview.objectmodel.impl.BlockImpl@39b5b2a9 de.myview.objectmodel.impl.BlockImpl@12dc62f7 de.myview.objectmodel.impl.BlockImpl@46f8be94

Approvals

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
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN FL FIELDWIRING EN

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Accessories

Crimping tools



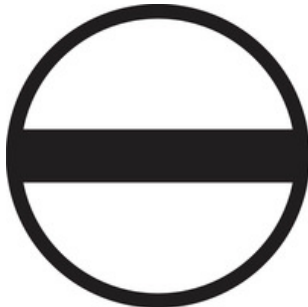
Crimping tools for turned contacts

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

General ordering data

Type	CTIN CM 1.6/2.5	Version
Order No.	9205430000	Pressing tool, Crimping tool for contacts, 0.14mm ² , 6mm ² , 4-indent
GTIN (EAN)	4032248733446	crimp
Qty.	1 pc(s).	
Type	CTX CM 1.6/2.5	Version
Order No.	9018490000	Pressing tool, Crimping tool for contacts, 0.14mm ² , 4mm ² , W crimp
GTIN (EAN)	4008190884598	
Qty.	1 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	SDIS 1.2X6.5X150	Version
Order No.	9008420000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056385	
Qty.	1 pc(s).	
Type	SDIS 0.6X3.5X100	Version
Order No.	9008390000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056354	
Qty.	1 pc(s).	

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Accessories

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	HDC-C-HD-SM0.75-1.00AU	Version
Order No.	1651640000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400316	Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM2.5AU	Version
Order No.	1651660000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400330	Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM2.5AG	Version
Order No.	1651560000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400231	Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM0.14-0.37AG	Version
Order No.	1651520000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400194	Conductor cross-section, max.: 0.37, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM1.5AG	Version
Order No.	1651550000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400224	Conductor cross-section, max.: 1.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM0.5AG	Version
Order No.	1651530000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400200	Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM0.5AU	Version
Order No.	1651630000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400309	Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM1.5AU	Version
Order No.	1651650000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400323	Conductor cross-section, max.: 1.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HD-SM0.75-1.00AG	Version
Order No.	1601750000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190134280	Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	

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Accessories

Type	HDC-C-HD-SM0.14-0.37AU	Version
Order No.	1651620000	Heavy-duty connectors, Crimp contact, HD, HDD, HQ, MixMate, Male,
GTIN (EAN)	4008190400293	Conductor cross-section, max.: 0.37, turned, Copper alloy
Qty.	100 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	SDK PH2	Version
Order No.	9008490000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056484	
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.	1866750000	Tools, Contact Removal Tool
GTIN (EAN)	4032248437078	
Qty.	1 pc(s).	
Type	REMOVAL TOOL HD	Version
Order No.	1866730000	Tools, Contact Removal Tool
GTIN (EAN)	4032248437054	
Qty.	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	SDIK PH2	Version
Order No.	9008580000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056576	
Qty.	1 pc(s).	

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-SM2.5AG	Version
Order No.	1200800000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190131913	Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM1.5AG	Version
Order No.	1200700000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190074920	Conductor cross-section, max.: 1.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM2.5AU	Version
Order No.	1651450000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190400125	Conductor cross-section, max.: 2.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM0.5AU	Version
Order No.	1651420000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190400095	Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM0.5AG	Version
Order No.	1200500000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190159627	Conductor cross-section, max.: 0.5, turned, Copper alloy
Qty.	100 pc(s).	

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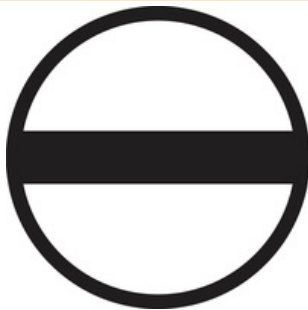
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Accessories

Type	HDC-C-HE-SM0.75-1.00AU	Version
Order No.	1651430000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190400101	Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM0.75-1.00AG	Version
Order No.	1200600000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190171308	Conductor cross-section, max.: 1, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM4.0AG	Version
Order No.	1200900000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190115906	Conductor cross-section, max.: 4, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM4.0AU	Version
Order No.	1651460000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190400132	Conductor cross-section, max.: 4, turned, Copper alloy
Qty.	100 pc(s).	
Type	HDC-C-HE-SM1.5AU	Version
Order No.	1651440000	Heavy-duty connectors, Crimp contact, HE, HEE, HQ, MixMate, Male,
GTIN (EAN)	4008190400118	Conductor cross-section, max.: 1.5, turned, Copper alloy
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 1.2X6.5X150	Version
Order No.	9009010000	Screwdriver, Screwdriver
GTIN (EAN)	4032248266869	
Qty.	1 pc(s).	
Type	SDS 0.6X3.5X100	Version
Order No.	9008330000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****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.	1003240000	Heavy-duty connectors, Accessories, Coding System
GTIN (EAN)	4032248698233	
Qty.	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.