HDC insert
HDC S8/24 MC

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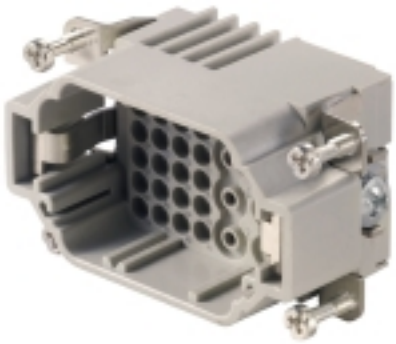

The MixMate series of connectors can simultaneously transmit high rated currents and voltages as well as signals.
The wire connection level is designed as a crimp contact.
The established crimp connection has been used as a standard for decades.
Crimp contacts are not delivered with the inserts.
Crimp connection

General ordering data

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

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Technical data

Dimensions and weights

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

Temperatures

Limit temperature	-40 °C ... 125 °C

Dimensions

Height of plug	35.3 mm	Total length base	64 mm

General data

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	32	No. of power contacts	8
No. 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
Surface finish	Silver passivated, gold	Type	Male
UL 94 flammability rating	V-0	Volume resistance	≤ 2mΩ

Connection data PE

Blade size, crosshead	Gr. PH2	Blade size, slotted (PE connection)	SD 1.2 x 6.5
Connection type PE	Screw connection	Fixing screw	M 5
Rated cross-section	6 mm²	Stripping length PE connection	13 mm
Tightening torque, max. PE connection	2.5 Nm	Tightening torque, min. PE connection	2 Nm
Wire connection cross section, finely stranded, max.	6 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²	Wire connection cross-section, finely stranded, min.	0.5 mm²
Wire cross section, AWG (PE), max.	AWG 10	Wire cross section, AWG (PE), min.	AWG 20
Wire cross-section, solid, max.	6 mm²	Wire cross-section, solid, min.	0.5 mm²

Power contact

Clamping range, power contact, max.	4 mm²	Clamping range, power contact, min.	0.5 mm²
No. 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 mm²	Clamping range, signal contact, min.	0.5 mm²
No. 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

Conductor cross-section, max.	4 mm²	Conductor cross-section, min.	0.5 mm²
Material	Copper alloy	Size	4
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.	6 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²	Wire connection cross-section, finely stranded, min.	0.5 mm²
Wire cross-section, solid, max.	6 mm²	Wire cross-section, solid, min.	0.5 mm²

Classifications

ETIM 3.0	EC002413	ETIM 4.0	EC002413
ETIM 5.0	EC001121	ETIM 6.0	EC000438
UNSPSC	30-21-18-01	eClass 6.2	27-26-12-90
eClass 7.1	27-44-02-90	eClass 8.1	27-44-02-90
eClass 9.0	27-44-02-90	eClass 9.1	27-44-02-05

Product information

Descriptive text ordering data	The signal contacts are designed for a rated voltage of 160 V and a rated current of 10 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

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.