

**HDC insert
HDC S4/2 FS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

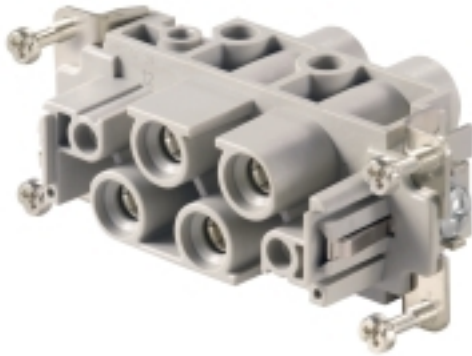
D-32758 Detmold

Germany

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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 for screw connections.

Screw connection.

General ordering data

Type	HDC S4/2 FS
Order No.	1023230000
Version	HDC insert, Female, 830 V, 80 A, No. of poles: 6, Screw connection, Size: 6
GTIN (EAN)	4032248739301
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	34 mm	Width (inches)	1.339 inch
Height	46.2 mm	Height (inches)	1.819 inch
Depth	84.5 mm	Depth (inches)	3.327 inch
Net weight	109 g		

Temperatures

Limit temperature	-40 °C ... 125 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Dimensions

Height of socket	46.2 mm	Total length base	84.5 mm
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General data

Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)	Insulating material group	IIIa
Insulation strength	$10^{10} \Omega$	Material	Copper alloy
No. of poles	6	No. of power contacts	4
No. of signal contacts	2	Plugging cycles, silver	≥ 500
Pollution severity	3	Rated current (DIN EN 61984)	80 A
Rated impulse voltage (DIN EN 61984)	8 kV	Rated voltage (DIN EN 61984)	830 V
Rated voltage according to UL/CSA	600 V AC/DC	Series	MixMate
Size	6	Surface finish	Silver passivated
Type	Female	UL 94 flammability rating	V-0
Volume resistance	$\leq 1 \text{ m}\Omega$		

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	16 mm ²	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.	16 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire cross section, AWG (PE), max.	AWG 6	Wire cross section, AWG (PE), min.	AWG 20
Wire cross-section, solid, max.	16 mm ²	Wire cross-section, solid, min.	0.5 mm ²

Power contact

Clamping range, power contact, max.	16 mm ²	Clamping range, power contact, min.	1.5 mm ²
No. of poles, performance contact	4	Rated current (DIN EN 61984), power contact	80 A
Rated impulse voltage (DIN EN 61984), power contact	8 kV	Rated voltage (DIN EN 61984), power contact	830 V
Stripping length, performance contact	15 mm	Type of connection, power contact	Screw connection

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Technical data**Signal contact**

AF size	SD 0.6 x 3.5	Clamping range, signal contact, max.	2.5 mm ²
Clamping range, signal contact, min.	0.5 mm ²	No. of poles, signal	2
Rated current (DIN EN 61984), signal	16 A	Rated impulse voltage (DIN EN 61984), signal	6 kV
Rated voltage (DIN EN 61984), signal contact	400 V	Stripping length, signal	8 mm
Type of connection, signal	Screw connection		

Version

Blade size, slotted (screw connection)	SD 0.8 x 4.0	Clamping screw	M 6
Conductor cross-section, max.	16 mm ²	Conductor cross-section, min.	1.5 mm ²
Material	Copper alloy	Size	6
Stripping length, rated connection	15 mm	Surface finish	Silver passivated
Type of connection	Screw connection	Volume resistance	≤ 1 mΩ
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 16
Wire connection cross section, finely stranded, max.	16 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire cross-section, solid, max.	16 mm ²	Wire cross-section, solid, min.	0.5 mm ²

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	27-44-02-05	eClass 9.1	27-44-02-05

Approvals

Approvals



ROHS

Conform

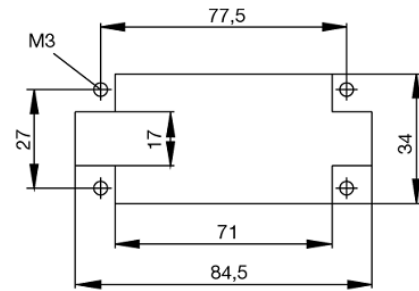
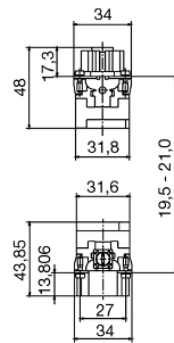
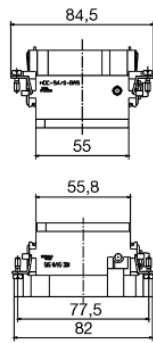
Downloads

Brochure/Catalogue	CAT 3 HDC 17/18 EN FL FIELDWIRING EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP

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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.