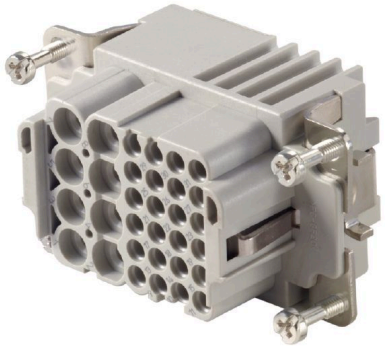
Data sheet

HDC S8/24 FC

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, Female, 400 V, 16 A, Number of poles: 32, Crimp connection, Installation size: 4
Order No.	1023270000
Type	HDC S8/24 FC
GTIN (EAN)	4032248739431
Qty.	1 items

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Technical data

Approvals

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

Dimensions and weights

Depth	64 mm	Depth (inches)	2.5197 inch
Height	37.8 mm	Height (inches)	1.4882 inch
Width	34 mm	Width (inches)	1.3386 inch
Net weight	48.4 g		

Temperatures

Limit temperature	-40 °C ... 125 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	Potassium perfluorobutane sulfonate 29420-49-3	
SCIP	1609748e-c278-4c9b-b3d1-e6215d2988cd	
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

Width	34 mm	Total length base	64 mm
Height of socket	37.8 mm		

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General data

Number of poles	32	Plugging cycles, silver	≥ 500
Plugging cycles, gold	≥ 500	Type of connection	Crimp connection
Installation size	4	UL 94 flammability rating	V-0
Volume resistance	≤2 mΩ	Colour	beige
Insulation resistance	1010 Ω	Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)
Insulating material group	IIIa	Type	Female
Pollution severity	3	Basic material	Copper alloy
Series	MixMate	Rated voltage (DIN EN 61984)	400 V
Rated voltage according to UL/CSA	600 V AC/DC	Rated impulse voltage (DIN EN 61984)	4 kV
Rated current (DIN EN 61984)	16 A	Free from halogens	true
Low smoke acc. DIN EN 45545-2	Yes	BG	4
Number of signal contacts	24	Signal contact, type	HD
Number of power contacts	8	Power contact, type	HE

Connection data PE

Connection type PE	Screw connection	Blade size, slotted (PE connection)	SD 1.2 x 6.5
Stripping length PE connection	13 mm	Tightening torque, max. PE connection	2.5 Nm
Tightening torque, min. PE connection	2 Nm	Fixing screw	M 5
Rated cross-section	6 mm²	Wire cross section, AWG (PE), min.	AWG 20
Wire cross section, AWG (PE), max.	AWG 10		

Power contact

Type of connection, power contact	Crimp connection	
Number of poles, performance contact	8	
Stripping length, performance contact	7.5 mm	
Clamping range, power contact, max.	4 mm²	
Clamping range, power contact, min.	0.5 mm²	
Rated voltage (DIN EN 61984), power contact	400 V	
Rated impulse voltage (DIN EN 61984), power contact	4 kV	
Rated current (DIN EN 61984), power contact	16 A	
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 12
	Rated current	16 A
	Wire connection cross section AWG	AWG 14
	Rated current	13 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	5 A
Rated current signal circuit (UR)	Wire connection cross section AWG	AWG 14
	Rated current	10 A
	Wire connection cross section AWG	AWG 16
	Rated current	8 A
	Wire connection cross section AWG	AWG 18
	Rated current	7 A
	Wire connection cross section AWG	AWG 20
	Rated current	5 A
	Wire connection cross section AWG	AWG 22

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	Rated current	3 A
Rated current signal circuit (cUR)	Wire connection cross section AWG	AWG 14
	Rated current	8 A
	Wire connection cross section AWG	AWG 16
	Rated current	8 A
	Wire connection cross section AWG	AWG 18
	Rated current	7 A
	Wire connection cross section AWG	AWG 20
	Rated current	5 A
	Wire connection cross section AWG	AWG 22
	Rated current	3 A
Rated current power circuit (cUR)	Wire connection cross section AWG	AWG 12
	Rated current	14 A
	Wire connection cross section AWG	AWG 14
	Rated current	10 A
	Wire connection cross section AWG	AWG 16
	Rated current	8.5 A
	Wire connection cross section AWG	AWG 18
	Rated current	6 A
	Wire connection cross section AWG	AWG 20
	Rated current	4 A

Signal contact

Type of connection, signal	Crimp connection	
Number of poles, signal	24	
Clamping range, signal contact, max.	2.5 mm²	
Clamping range, signal contact, min.	0.5 mm²	
Stripping length, signal	8 mm	
Rated voltage (DIN EN 61984), signal contact	160 V	
Rated impulse voltage (DIN EN 61984), signal	2.5 kV	
Rated current (DIN EN 61984), signal	10 A	
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 12
	Rated current	16 A
	Wire connection cross section AWG	AWG 14
	Rated current	13 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	5 A
Rated current signal circuit (UR)	Wire connection cross section AWG	AWG 14
	Rated current	10 A
	Wire connection cross section AWG	AWG 16
	Rated current	8 A
	Wire connection cross section AWG	AWG 18
	Rated current	7 A
	Wire connection cross section AWG	AWG 20
	Rated current	5 A
	Wire connection cross section AWG	AWG 22
	Rated current	3 A
Rated current signal circuit (cUR)	Wire connection cross section AWG	AWG 14
	Rated current	8 A
	Wire connection cross section AWG	AWG 16
	Rated current	8 A

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	Wire connection cross section AWG	AWG 18
	Rated current	7 A
	Wire connection cross section AWG	AWG 20
	Rated current	5 A
	Wire connection cross section AWG	AWG 22
	Rated current	3 A
Rated current power circuit (cUR)	Wire connection cross section AWG	AWG 12
	Rated current	14 A
	Wire connection cross section AWG	AWG 14
	Rated current	10 A
	Wire connection cross section AWG	AWG 16
	Rated current	8.5 A
	Wire connection cross section AWG	AWG 18
	Rated current	6 A
	Wire connection cross section AWG	AWG 20
	Rated current	4 A

Version

Wire connection cross section AWG, max.	AWG 12	Stripping length, rated connection	7.5 mm
Type of connection	Crimp connection	Installation size	4
Volume resistance	≤2 mΩ	Wire connection cross section AWG, min.	AWG 20
Wire cross-section, solid, max.	6 mm²	Wire cross-section, solid, min.	0.5 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, max.	6 mm²	Wire connection cross section, finely stranded, min.	0.5 mm²
Conductor cross-section, max.	4 mm²	Conductor cross-section, min.	0.5 mm²
Basic material	Copper alloy	BG	4

Classifications

ETIM 6.0	EC000438	ETIM 7.0	EC000438
ETIM 8.0	EC000438	ETIM 9.0	EC000438
ETIM 10.0	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
ECLASS 15.0	27-44-02-05		