

HDC HQ 4/2 FC**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



The HQ series - big features in a compact design. The electrical characteristics speak for themselves. You can also use the proven HD and HX crimp contacts here. The wire connection level is designed for crimp contacts. The proven crimp connection has been in standard use for decades.

Crimp contacts are not included in the scope of delivery of inserts.

Pole count: 4/2 (+PE)

Rated current: 40/10 A

Rated voltage: 690 / 250 V

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

General ordering data

Version	HDC insert, Female, 690 V, 40 A, Number of poles: 6, Crimp connection, Installation size: HQ
Order No.	1003160000
Type	HDC HQ 4/2 FC
GTIN (EAN)	4032248698158
Qty.	1 items

Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	41.6 mm	Depth (inches)	1.6378 inch
Height	39.8 mm	Height (inches)	1.5669 inch
Width	22.4 mm	Width (inches)	0.8819 inch
Net weight	13.2 g		

Temperatures

Limit temperature	-40 °C ... 125 °C
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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	22.4 mm	Total length base	41.6 mm
Height of socket	39.8 mm		

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Technical data

General data

Number of poles	6	Plugging cycles, silver	≥ 500
Plugging cycles, gold	≥ 500	Type of connection	Crimp connection
Installation size	HQ	UL 94 flammability rating	V-0
Volume resistance	≤1 mΩ, ≤4 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	HQ	Rated voltage (DIN EN 61984)	690 V
Rated voltage according to UL/CSA	600 V AC/DC	Rated impulse voltage (DIN EN 61984)	6 kV
Rated current (DIN EN 61984)	40 A	Free from halogens	false
Low smoke acc. DIN EN 45545-2	Yes	BG	HQ
Number of signal contacts	2	Signal contact, type	HD
Number of power contacts	4	Power contact, type	HX

Connection data PE

Connection type PE	Crimp connection	Stripping length PE connection	9 mm
Rated cross-section	6 mm ²	Wire cross section, AWG (PE), min.	AWG 16
Wire cross section, AWG (PE), max.	AWG 8		

Power contact

Type of connection, power contact	Crimp connection		
Number of poles, performance contact	4		
Stripping length, performance contact	9 mm		
Clamping range, power contact, max.	6 mm ²		
Clamping range, power contact, min.	1.5 mm ²		
Rated voltage (DIN EN 61984), power contact	690 V		
Rated impulse voltage (DIN EN 61984), power contact	6 kV		
Rated current (DIN EN 61984), power contact	40 A		
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 10	
	Rated current	40 A	
	Wire connection cross section AWG	AWG 12	
	Rated current	20 A	
	Wire connection cross section AWG	AWG 14	
	Rated current	15 A	
Rated current signal circuit (UR)	Wire connection cross section AWG	AWG 14	
	Rated current	15 A	
	Wire connection cross section AWG	AWG 16	
	Rated current	10 A	
	Wire connection cross section AWG	AWG 18	
	Rated current	7 A	
Rated current signal circuit (cUR)	Wire connection cross section AWG	AWG 20	
	Rated current	5 A	
	Wire connection cross section AWG	AWG 22	
	Rated current	3 A	
	Wire connection cross section AWG	AWG 14	
	Rated current	10.5 A	
	Wire connection cross section AWG	AWG 16	

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	Rated current	8.2 A
	Wire connection cross section AWG	AWG 18
	Rated current	6.8 A
	Wire connection cross section AWG	AWG 20
	Rated current	5.7 A
	Wire connection cross section AWG	AWG 22
	Rated current	4.3 A
Rated current power circuit (cUR)	Wire connection cross section AWG	AWG 10
	Rated current	30 A
	Wire connection cross section AWG	AWG 12
	Rated current	25 A
	Wire connection cross section AWG	AWG 14
	Rated current	18 A
	Wire connection cross section AWG	AWG 16
	Rated current	14 A

Signal contact

Type of connection, signal	Crimp connection		
Number of poles, signal	2		
Clamping range, signal contact, max.	2.5 mm ²		
Clamping range, signal contact, min.	0.14 mm ²		
Stripping length, signal	8 mm		
Rated voltage (DIN EN 61984), signal contact	250 V		
Rated impulse voltage (DIN EN 61984), signal	4 kV		
Rated current (DIN EN 61984), signal	10 A		
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 10	
	Rated current	40 A	
	Wire connection cross section AWG	AWG 12	
	Rated current	20 A	
	Wire connection cross section AWG	AWG 14	
	Rated current	15 A	
	Wire connection cross section AWG	AWG 16	
	Rated current	10 A	
Rated current signal circuit (UR)	Wire connection cross section AWG	AWG 14	
	Rated current	15 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	
	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	10.5 A
Wire connection cross section AWG		AWG 16	
Rated current		8.2 A	
Wire connection cross section AWG		AWG 18	
Rated current		6.8 A	
Wire connection cross section AWG		AWG 20	
Rated current		5.7 A	
Wire connection cross section AWG		AWG 22	
Rated current		4.3 A	
Rated current power circuit (cUR)		Wire connection cross section AWG	AWG 10
		Rated current	30 A

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Wire connection cross section AWG	AWG 12
Rated current	25 A
Wire connection cross section AWG	AWG 14
Rated current	18 A
Wire connection cross section AWG	AWG 16
Rated current	14 A

Version

Wire connection cross section AWG, max.	AWG 8	Stripping length, rated connection	9 mm
Type of connection	Crimp connection	Installation size	HQ
Volume resistance	≤1 mΩ, ≤4 mΩ	Wire connection cross section AWG, min.	AWG 16
Wire connection cross section, finely stranded, max.	6 mm ²	Wire connection cross section, finely stranded, min.	1.5 mm ²
Conductor cross-section, max.	6 mm ²	Conductor cross-section, min.	1.5 mm ²
Basic material	Copper alloy	BG	HQ

Classifications

ETIM 8.0	EC000438	ETIM 9.0	EC000438
ETIM 10.0	EC000438	ECLASS 14.0	27-44-02-05
ECLASS 15.0	27-44-02-05		

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Drawings

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