



Weidmüller Interface GmbH & Co. KG

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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.	<u>1003160000</u>
Туре	HDC HQ 4/2 FC
GTIN (EAN)	4032248698158
Qty.	1 items





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# **Technical data**

### **Approvals**

	C TABUS
ROHS	Conform
UL File Number Search	UL Website

E92202

### **Dimensions and weights**

Certificate No. (cURus)

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

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	Potassium perfluorobutane sulfonat	te 29420-49-3	
SCIP	1609748e-c278-4c9b-b3d1-e621	5d2988cd	
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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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	Illa	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 mm²	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 mm²	
Clamping range, power contact, min.	1.5 mm <sup>2</sup>	
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
	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
3 ( 214)	Rated current	10.5 A
	Wire connection cross section AWG	AWG 16

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# **Technical data**

	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

Signal contact		
Type of connection, signal	Crimp connection	
Number of poles, signal	2	
Clamping range, signal contact, max.	2.5 mm <sup>2</sup>	
Clamping range, signal contact, min.	0.14 mm²	
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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# **Technical data**

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,	AWG 8	Stripping length, rated connection	9 mm
max.		<u> </u>	
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 <sup>2</sup>	Wire connection cross section, finely stranded, min.	1.5 mm <sup>2</sup>
Conductor cross-section, max.	6 mm <sup>2</sup>	Conductor cross-section, min.	1.5 mm <sup>2</sup>
Basic material	Copper alloy	BG	HQ

## 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		

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