

HDC S6 12 BAS**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. An axial screw can be used to secure the wire.
Axial screw connection / TOP connection

General ordering data

Version	HDC insert, Female, 630 V, 48 A, Number of poles: 18, Axial screw connection, Size: 6
Order No.	1790010000
Type	HDC S6 12 BAS
GTIN (EAN)	4032248212071
Qty.	1 pc(s).

HDC S6 12 BAS**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Dimensions and weights**

Depth	84.5 mm	Depth (inches)	3.327 inch
Height	47.3 mm	Height (inches)	1.862 inch
Width	34 mm	Width (inches)	1.339 inch
Net weight	146.3 g		

Temperatures

Limit temperature	-40 °C ... 125 °C
-------------------	-------------------

Dimensions

Height of socket	47.3 mm	Total length base	84.5 mm
Width	34 mm		

General data

BG	6		
Colour	beige		
Free from halogens	true		
Insulating material	PC glass-fibre reinforced (UL-listed and railway-certified)		
Insulating material group	IIIa		
Insulation strength	10 ¹⁰ Ω		
Low smoke acc. DIN EN 45545-2	Yes		
Material	Copper alloy		
Number of poles	18		
Number of power contacts	6		
Number of signal contacts	12		
Plugging cycles, silver	≥ 500		
Pollution severity	3		
Rated current (DIN EN 61984)	48 A		
Rated current (cUR)	Wire connection cross section AWG	AWG 14	
	Rated current	8 A	
Rated impulse voltage (DIN EN 61984)	8 kV		
Rated voltage (DIN EN 61984)	630 V		
Rated voltage according to UL/CSA	600 V AC/DC		
Series	MixMate		
Size	6		
Surface finish	Silver passivated		
Type	Female		
Type of connection	Axial screw connection		
UL 94 flammability rating	V-0		
Volume resistance	≤2 mΩ		

Connection data PE

Blade size, slotted (PE connection)	SD 0.8 x 4.0	Connection type PE	Screw connection
Fixing screw	M 5	Rated cross-section	10 mm ²
Stripping length PE connection	8 mm	Tightening torque, max. PE connection	2.5 Nm
Tightening torque, min. PE connection	2 Nm	Wire cross section, AWG (PE), max.	AWG 8
Wire cross section, AWG (PE), min.	AWG 14		

Power contact

Clamping range, power contact, max.	10 mm ²
-------------------------------------	--------------------

Creation date November 26, 2024 12:06:40 PM CET

Catalogue status 26.11.2024 / We reserve the right to make technical changes.

HDC S6 12 BAS

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Clamping range, power contact, min.	2.5 mm ²	
Hexagon socket	2 mm	
Number of poles, performance contact	6	
Rated current (DIN EN 61984), power contact	48 A	
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 14
	Rated current	8 A
Rated impulse voltage (DIN EN 61984), power contact	8 kV	
Rated voltage (DIN EN 61984), power contact	690 V	
Stripping length, performance contact	8 mm	
Tightening torque, max.	0.9 Nm	
Tightening torque, min.	0.45 Nm	
Tightening torque, power contact, max.	1.7 Nm	
Tightening torque, power contact, min.	1.1 Nm	
Type of connection, power contact	Axial screw connection	

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	
Number of poles, signal	12	
Rated current (DIN EN 61984), signal	16 A	
Rated current power circuit (UR)	Wire connection cross section AWG	AWG 14
	Rated current	8 A
Rated impulse voltage (DIN EN 61984), signal	6 kV	
Rated voltage (DIN EN 61984), signal contact	400 V	
Stripping length, signal	12 mm	
Tightening torque, max.	0.9 Nm	
Tightening torque, min.	0.45 Nm	
Tightening torque, signal contact, max.	0.8 Nm	
Tightening torque, signal contact, min.	0.4 Nm	
Type of connection, signal	Screw connection	

Version

BG	6	Clamping screw	M 8 x 0.75 mm
Conductor cross-section, max.	10 mm ²	Conductor cross-section, min.	2.5 mm ²
Material	Copper alloy	Size	6
Stripping length, rated connection	8 mm	Surface finish	Silver passivated
Type of connection	Axial screw connection	Volume resistance	≤2 mΩ
Wire connection cross section AWG, max.	AWG 8	Wire connection cross section AWG, min.	AWG 14
Wire connection cross section, finely stranded, max.	10 mm ²	Wire connection cross section, finely stranded, min.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	10 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	2.5 mm ²
Wire cross-section, solid, max.	10 mm ²	Wire cross-section, solid, min.	2.5 mm ²

HDC S6 12 BAS

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Classifications

ETIM 6.0	EC000438	ETIM 7.0	EC000438
ETIM 8.0	EC000438	ETIM 9.0	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		

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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	c4c4c9fc-7957-49de-b5fd-516c2623a8c3
Chemical resistance	de.myview.objectmodel.impl.BlockImpl@62c43d95 de.myview.objectmodel.impl.BlockImpl@7788db42 de.myview.objectmodel.impl.BlockImpl@57adeb88 de.myview.objectmodel.impl.BlockImpl@23dc472 de.myview.objectmodel.impl.BlockImpl@41567935 de.myview.objectmodel.impl.BlockImpl@7035e896 de.myview.objectmodel.impl.BlockImpl@487cbcb3 de.myview.objectmodel.impl.BlockImpl@248eef9a de.myview.objectmodel.impl.BlockImpl@56e3a5ef de.myview.objectmodel.impl.BlockImpl@94d96fd de.myview.objectmodel.impl.BlockImpl@24f92a43 de.myview.objectmodel.impl.BlockImpl@7758e379

Creation date November 26, 2024 12:06:40 PM CET

Catalogue status 26.11.2024 / We reserve the right to make technical changes.

Data sheet**HDC S6 12 BAS**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E310075

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN FL FIELDWIRING EN

HDC S6 12 BAS

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

