

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image











Naturally, the CH20M system also shows its perfection in the peripheral interface.

When considering design options, processing, usability, reliability and security, the PCB terminals or pin headers and connectors are just as important in the practice as the entire system.

In every sector, the connection technology is at the top of its class.

- 100% non-interchangeable Together with the captive, unique "Auto-Set" encoding, the uniquely detectable markers on the plug connection and in the front ensure misconnection-proof assignment of the connections. Both markers can be printed as cards in a PrintJet and then permanently snapped on.
- 100% intuitive Quick and easy operation by means of an integrated colour-coded release lever with grip tab and including a screwdriver pocket.
- 100% safe Touch protection for the male and female header on both sides
- 100% efficient All PCB connection elements are reflow compatible
- 100% time and cost savings During the installation: the quick all-purpose "Multi-Tool" screw head ensures a secure contact, user-friendly operation and less complexity. Additional features, such as the "Wire ready" technology, enable you to minimize wiring costs and increase customer satisfaction.

Simple, component-friendly unplugging of the female plug using the integrated release lever.

General ordering data

Version	PCB plug-in connector BHZ 5.00/04/90LH SN
	GGY/GGY BX
Order No.	<u>1372520000</u>
Туре	BHZ 5.00/04/90LH GGY/GGY
GTIN (EAN)	4050118174229
Qty.	78 pc(s).
Product data	IEC: 400 V / 10 A / 0.2 - 2.5 mm ²
	UL: 300 V / 10 A / AWG 26 - AWG 12
Packaging	Box



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Technical data

Dimensions and weights

Height	29 mm	Height (inches)	1.142 inch
Width	22.4 mm	Width (inches)	0.882 inch
Length	14.6 mm	Length (inches)	0.575 inch
Net weight	9.24 g		

System Parameters

Product family	OMNIMATE Housing -	Type of connection	F: 11
	series CH20M		Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	Conductor outlet direction	90°
Number of poles	4	L1 in mm	15 mm
L1 in inches	0.591 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm ²
Protection degree	IP20	Can be coded	Yes
Stripping length	8 mm	Tightening torque for screw flange, min.	0.4 Nm
Tightening torque for screw flange	e, max. 0.6 Nm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping screw	M 2.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25

Material data

Insulating material	PA 66 GF 30	Colour	Graphite grey
Colour chart (similar)	RAL 7024	Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI	UL 94 flammability rating	V-0
Contact material	CuSn	Contact surface	tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-25 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	3.31 mm ²
Wire connection cross section AWG,		Wire connection cross section AWG,	
min.	AWG 26	max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Stranded, max. H07V-R	2 mm ²	Flexible, min. H05(07) V-K	0.2 mm ²
w. plastic collar ferrule, DIN 46228 p	t 4,	w. plastic collar ferrule, DIN 46228 pt	1,
min.	0.25 mm ²	max.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1,		w. wire end ferrule, DIN 46228 pt 1,	
min.	0.25 mm ²	max.	2.5 mm ²
Plug gauge in accordance with EN 60999 a x b; ø		Reference text	The outside diameter of the plastic collar should
			not be larger than the pitch
			(P), Length of ferrules is to
			be chosen depending on
			the product and the rated
	2.8 mm x 2.4 mm; 3.0 mm		voltage.



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Technical data

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	10 A
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree II/2	400 V	pollution degree III/2	320 V
Rated voltage for surge voltage class /		Rated impulse voltage for surge voltage	
pollution degree III/3	250 V	class/ pollution degree II/2	4 kV
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree III/2	4 kV	class/ contamination degree III/3	4 kV
Clearance, min.	3 mm	Creepage distance, min.	3.2 mm

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	10 A
Rated current (Use group C / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus
	C 77 US	

Rated voltage (Use group B / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group C / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

	E60693
Rated voltage (Use group C / UL 1059)	50 V
Rated current (Use group B / UL 1059)	10 A
Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, max.	AWG 12

General data

Colour	Graphite grey	Colour chart (similar)	RAL 7024
Protection degree	IP20		

Material data

Comparative Tracking Index (CTI)	600 ≤ CTI	Insulating material	PA 66 GF 30
Insulating material group	I	UL 94 flammability rating	V-0

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02		

Important note

are developed, manufactured and delivered according international recognized
comply with the assured properties in the data sheet resp. fulfill decorative properties
310 "Class 2". Further claims on the products can be evaluated on request.



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Technical data

Approvals

Brochures

Approvals	c TAL us III
ROHS	Conform
UL File Number Search	E60693
Downloads	
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

FL ANALO.SIGN.CONV. EN

MB DEVICE MANUF. EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN



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Drawings

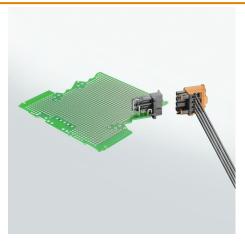
Product image



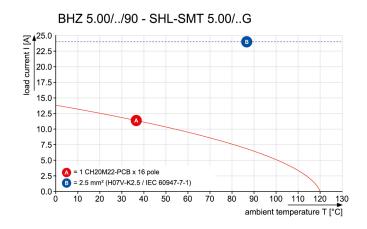
Product image



Similar to illustration, Example of use



Derating curve



Derating curve

BHZ 5.00/../90 - SHL-SMT 5.00/..G

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Accessories

Custom printing



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Туре	ESG 6.6/20 BHZ 5.00 SDR	Version
Order No.	1221520000	ESG, Device markers x 20 mm, PA 66, Colour: To customer
GTIN (EAN)	4050118005066	specification
Qty.	40 pc(s).	



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Accessories

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type ESG 6.6/20 BHZ 5.00/04 Version
Order No. 1082540000 ESG, Device markers x 20 mm, PA 66, Colour: white
GTIN (EAN) 4032248845439
Otty. 200 pc(s).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>Weidmuller</u>: 1372520000