OMNIMATE Signal - series BL/SL 5.00
BHF 5.00/04/180LH BK/BK

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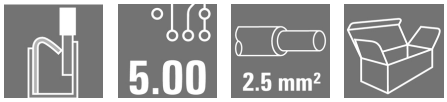

Naturally, the CH20M system also shows its perfection in the peripheral interface.
When considering design options, processing, usability, reliability and security, the PCB terminals or pin headers and connectors are just as important in the practice as the entire system.
In every sector, the connection 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

Type	BHF 5.00/04/180LH BK/BK
Order No.	1497500000
Version	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 4, 180°, PUSH IN, Box
GTIN (EAN)	4050118306828
Qty.	78 pc(s).
Product data	IEC: 400 V / 10 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box

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Technical data

Dimensions and weights

Length	14.6 mm	Length (inches)	0.575 inch
Width	22.15 mm	Width (inches)	0.872 inch
Depth	30.82 mm	Depth (inches)	1.213 inch
Net weight	9.14 g		

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.00	Type of connection	Field connection
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
No. of poles	4	L1 in mm	15 mm
L1 in inches	0.591 inch	Number of rows	1
Pin series quantity	1	Can be coded	Yes
Plugging cycles	25		

Material data

Insulating material	PA 66 GF 30	Colour	black
Colour of operational elements	black	Material of operational elements	PBT
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 400	Insulation strength	≥ 10^8 Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	85 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	10 A
Rated current, min. no. of poles (Tu=40°C)	9 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Clearance, min.	3 mm
Creepage distance, min.	3.2 mm		

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-70153051
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 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	50 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	10 A
Rated current (Use group C / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Classifications

ETIM 4.0	EC002637	ETIM 5.0	EC002637
ETIM 6.0	EC002638	eClass 6.2	27-26-07-08
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09

Notes

Notes	
IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals	

Downloads

Approval/Certificate/Document of Conformity	CSA Certificate of Compliance
Engineering Data	STEP STEP

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Drawings



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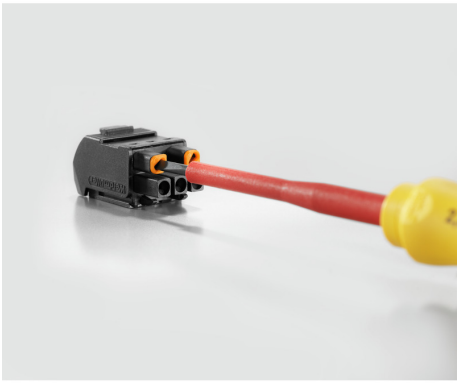

coding

Dimensioned drawing



