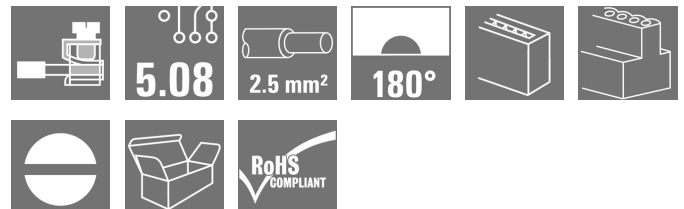


OMNIMATE Signal - series BL/SL 5.08
BL 5.08/07/180 SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
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Female plugs with leaf-spring wire connection system.
 The female plugs provide space for labelling.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2019-12-31
Type	BL 5.08/07/180 SN BK BX
Order No.	1716520000
Version	PCB plug-in connector, female plug, 5.08 mm, No. of poles: 7, 180°, Pressure clamp connection, Clamping range, max. : 2.08 mm², Box
GTIN (EAN)	4008190376598
Qty.	50 pc(s).
Product data	IEC: 400 V / 14 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 14
Packaging	Box
Alternative product	1943860000

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Technical data

Dimensions and weights

Net weight	10.2 g
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System parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Wire connection method	Pressure clamp connection
Pitch in mm (P)	5.08 mm	Pitch in inches (P)	0.2 inch
Conductor outlet direction	180°	No. of poles	7
L1 in mm	30.48 mm	L1 in inches	1.2 inch
Number of rows	1	Pin series quantity	1
Rated cross-section	1.5 mm ²	Touch-safe protection acc. to DIN VDE 0470	IP 00
Volume resistance	4.60 mΩ	Can be coded	Yes
Stripping length	6 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Plugging cycles	25	Withdrawal force per pole	1.6 N
Packaging	Box		

Material data

Insulating material	PA	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	I
CTI	≥ 600	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-2	Contact material	CuSn
Contact surface	tinned	Layer structure of plug contact	4-8 μm Sn hot-dip tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	2.08 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	2.4 mm x 1.5 mm		

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Technical data
Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

 Rated current, max. no. of poles
 (Tu=20°C)

12 A

 Rated current, max. no. of poles
 (Tu=40°C)

10 A

 Rated voltage for surge voltage class /
 pollution degree III/2

320 V

 Rated impulse voltage for surge voltage
 class/ pollution degree II/2

4 kV

 Rated impulse voltage for surge voltage
 class/ contamination degree III/3

4 kV

 Rated current, min. no. of poles
 (Tu=20°C)

14 A

 Rated current, min. no. of poles
 (Tu=40°C)

12 A

 Rated voltage for surge voltage class /
 pollution degree II/2

400 V

 Rated voltage for surge voltage class /
 pollution degree III/3

250 V

 Rated impulse voltage for surge voltage
 class/ pollution degree III/2

4 kV

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1027343

Rated voltage (Use group B)

300 V

Rated current (use group B)

10 A

Wire cross-section, AWG, min.

AWG 26

Reference to approval values

 Specifications are
 maximum values, details -
 see approval certificate.

Rated voltage (use group D)

300 V

Rated current (use group D)

10 A

Wire cross-section, AWG, max.

AWG 14

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (use group B)

300 V

Rated current (use group B)

10 A

Wire cross-section, AWG, min.

AWG 26

Reference to approval values

 Specifications are
 maximum values, details -
 see approval certificate.

Rated voltage (use group D)

300 V

Rated current (use group D)

10 A

Wire cross-section, AWG, max.

AWG 14

Classifications

ETIM 3.0

EC001284

ETIM 5.0

EC002637

UNSPSC

30-21-18-10

eClass 6.2

27-26-07-04

eClass 8.1

27-44-04-02

eClass 9.1

27-44-04-02

ETIM 4.0

EC002637

ETIM 6.0

EC002637

eClass 5.1

27-26-07-04

eClass 7.1

27-44-04-02

eClass 9.0

27-44-04-02

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Technical data

Notes

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- P on drawing = pitch
- Do not tighten screws in inserted condition
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

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



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Brochure/Catalogue

[FL DRIVES EN](#)
[MB DEVICE MANUF. EN](#)
[FL DRIVES DE](#)
[FL BUILDING SAFETY EN](#)
[FL APPL LED LIGHTING EN](#)
[FL INDUSTR.CONTROLS EN](#)
[FL MACHINE SAFETY EN](#)
[FL HEATING ELECTR EN](#)
[FL APPL INVERTER EN](#)
[FL_BASE_STATION_EN](#)
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[FL POWER SUPPLY EN](#)
[FL 72H SAMPLE SER EN](#)
[PO OMNIMATE EN](#)

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Drawings

Dimensional drawing

