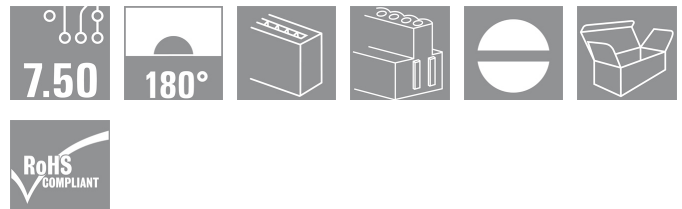


OMNIMATE Signal - series BL/SL 7.50 BLZ 7.50/07/180B SN OR BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Female plugs with clamping-yoke screw wire-connect system. The female plugs provide space for labelling and can be coded.

- 0.20 - 2.5 mm² (IEC) / 26 - 12 AWG (UL)
- 800 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

General ordering data

Order No.	1628190000
Type	BLZ 7.50/07/180B SN OR BX
Version	PCB plug-in connector, female plug, 7.50 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm ² , Box
GTIN (EAN)	4008190200992
Qty.	40 pc(s).
Product data	IEC: 800 V / 18.5 A / 0.2 - 2.5 mm ² UL: 300 V / 15 A / AWG 26 - AWG 12
Packaging	Box

Creation date June 10, 2013 11:18:41 AM CEST

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Technical data**Dimensions and weights**

Net weight	14.35 g
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System parameters

Product family	OMNIMATE Signal - series BL/SL 7.50	Wire connection method	Clamping yoke connection
Conductor outlet direction	180°	Pitch in mm (P)	7.5 mm
Pitch in inches (P)	0.295 inch	No. of poles	7
Number of rows	1	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Stripping length	7 mm	L1 in mm	45 mm
L1 in inches	1.772 inch	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PBT	Colour	Orange
Colour chart (similar)	RAL 2000	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C		

Connectable conductors

Clamping range, rated connection, min.	0.13 mm ²	Clamping range, rated connection, max.	3.31 mm ²
Wire connection cross section AWG, min.	AWG 28	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	2.8 mm x 2.0 mm; 2.4 mm		

DIN IEC rating data

Rated current, min. no. of poles (Tu=20°C)	18.5 A	Rated current, max. no. of poles (Tu=20°C)	17 A
Rated current, number of poles (Tu=40°C), min	15 A	Rated current, number of poles (Tu=40°C), max.	14.5 A
Rated voltage for surge voltage class / pollution degree II/2	800 V	Rated voltage for surge voltage class / pollution degree III/2	630 V
Rated voltage for surge voltage class / pollution degree III/3	500 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV
Short-time withstand current resistance	3 x 1s with 120 A		

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Technical data

CSA rating data

Institute (CSA)



Rated voltage (Use group B)

300 V

Rated current (use group B)	15 A
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 12

Rated voltage (use group D)	300 V
Wire cross-section, AWG, min.	AWG 26

UL 1059 rating data

Institute (UR)



Rated voltage (use group B)

300 V

Rated current (use group B)	15 A
Rated current (use group D)	10 A
Wire cross-section, AWG, max.	AWG 12

Rated voltage (use group D)	300 V
Wire cross-section, AWG, min.	AWG 26

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02

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
- 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.

Approvals

Approvals

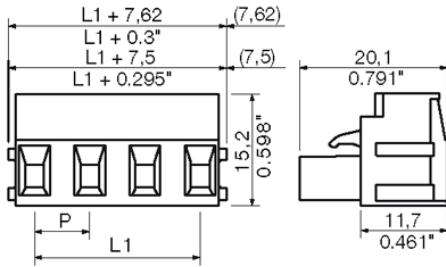


ROHS

Conform

**OMNIMATE Signal - series BL/SL 7.50
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Drawings

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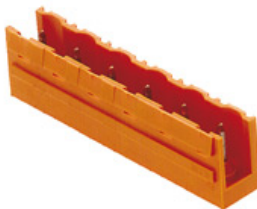
Mating connector (conditionally pluggable)
SL 7.50/90


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 800 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1628410000	SL 7.50/07/90 3.2SN OR BX	PCB plug-in connector, male header, open side, Solder connection, 7.50 mm, No. of poles: 7, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190201210	50 pc(s).	IEC: 800 V / 18.5 A UL: 300 V / 15 A	Box

SL 7.50/180


Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 800 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1629070000	SL 7.50/07/180 3.2SN OR BX	PCB plug-in connector, male header, open side, Solder connection, 7.50 mm, No. of poles: 7, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190201876	50 pc(s).	IEC: 800 V / 18.5 A UL: 300 V / 15 A	Box

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Mating connector (fully pluggable)
SL 7.50/90B


Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 800 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1628520000	SL 7.50/07/90B 3.2SN OR BX	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 7.50 mm, No. of poles: 7, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190201326	50 pc(s).	IEC: 800 V / 18.5 A UL: 300 V / 15 A	Box

SL 7.50/180B


Male connectors with straight outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

- 800 V (IEC) / 300 V (UL)
- 18.5 A (IEC) / 15 A (UL)

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.	Product data	Packaging
1629180000	SL 7.50/07/180B 3.2SN OR BX	PCB plug-in connector, male header, Dovetails for fixing blocks, Solder connection, 7.50 mm, No. of poles: 7, 180°, Solder pin length (l): 3.2 mm, tinned, Orange, Box	4008190201982	50 pc(s).	IEC: 800 V / 18.5 A UL: 300 V / 15 A	Box