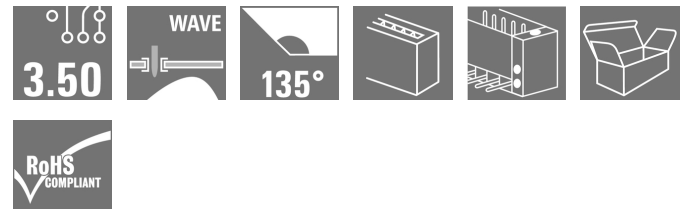


OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/135F 3.2SN OR BX

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Product image



Similar to illustration

Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

General ordering data

Type	SL 3.50/09/135F 3.2SN OR BX
Order No.	1643400000
Version	PCB plug-in connector, male header, Flange, THT solder connection, 3.50 mm, Number of poles: 9, 135°, Solder pin length (l): 3.2 mm, tinned, orange, Box
GTIN (EAN)	4008 190282 165
Qty.	48 pc(s).
Product data	IEC: 320 V / 15 A UL: 300 V / 10 A
Packaging	Box

Creation date May 3, 2020 5:03:49 PM CEST

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Technical data**Dimensions and weights**

Width	38.5 mm	Width (inches)	1.516 inch
Height	16.2 mm	Height (inches)	0.638 inch
Height of lowest version	13 mm	Depth	13.2 mm
Depth (inches)	0.52 inch	Net weight	4.06 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 3.50		
Type of connection	Board connection		
Mounting onto the PCB	THT solder connection		
Pitch in mm (P)	3.5 mm		
Pitch in inches (P)	0.138 inch		
Outgoing elbow	135°		
Number of poles	9		
Number of solder pins per pole	1		
Solder pin length (l)	3.2 mm		
Solder pin length tolerance	+0.1 / -0.3 mm		
Tolerance of solder pin position	± 0.1 mm		
Solder pin dimensions	d = 1.2 mm, Octagonal		
Solder pin dimensions = d tolerance	0 / -0.03 mm		
Solder eyelet hole diameter (D)	1.4 mm		
Solder eyelet hole diameter tolerance (D)	+ 0.1 mm		
L1 in mm	28 mm		
L1 in inches	1.102 inch		
Number of rows	1		
Pin series quantity	1		
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch		
Touch-safe protection acc. to DIN VDE 0470	IP 10		
Volume resistance	≤ 5mΩ		
Can be coded	Yes		
Plugging cycles	25		
Plugging force/pole, max.	10 N		
Pulling force/pole, max.	10 N		
Tightening torque	Torque type	PCB, Screw flange	
	Usage information	Tightening torque	min. 0.1 Nm max. 0.15 Nm
		Recommended screw	Part number PTSC KA 2.2X4.5 WN1412

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	CuSn	Contact surface	tinned
Layer structure of solder connection	1-3 μm Ni / 2-4 μm Sn matt	Layer structure of plug contact	1-3 μm Ni / 2-4 μm Sn matt
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

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Technical data**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	15 A
Rated current, max. number of poles (Tu=20°C)	11 A	Rated current, min. number of poles (Tu=40°C)	13 A
Rated current, max. number of poles (Tu=40°C)	9 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 100 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	154685-1318353
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	61 mm
VPE width	100 mm	VPE height	118 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

Data sheet

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Technical data

Notes

Notes	<ul style="list-style-type: none"> • Additional colours on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • 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.
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

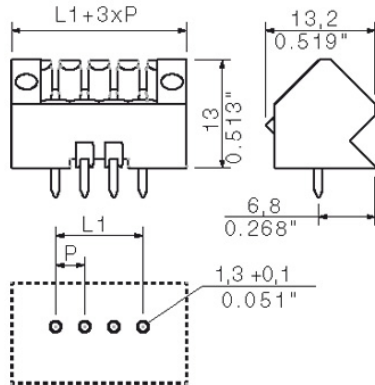
Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FLIndustr.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	SL.zip

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Drawings**Dimensional drawing**

**OMNIMATE Signal - series BL/SL 3.50
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Mating connector (conditionally pluggable)
BL 3.50/180LH


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/180LH SN OR ...	Version	Product data	Packaging
Order No.	1687720000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190853273	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	48 pc(s).	Box		
Type	BL 3.50/09/180LH SN BK ...	Version	Product data	Packaging
Order No.	1687950000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190853501	180°, Clamping yoke connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	48 pc(s).	Box		

BLZF 3.5/180LH


Female connectors with tension clamp system for connecting cables in 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	BLZF 3.50/09/180LH SN O ...	Version	Product data	Packaging
Order No.	1691640000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190373603	180°, Tension-clamp connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		
Type	BLZF 3.50/09/180LH SN B ...	Version	Product data	Packaging
Order No.	1691870000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190373849	180°, Tension-clamp connection, Clamping range, max.: 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

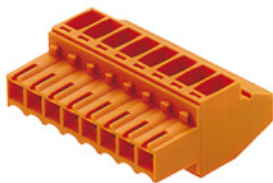
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Mating connector (conditionally pluggable)**BLZF 3.5/180**

Female connectors with tension clamp system for connecting cables in 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	BLZF 3.50/09/180 SN DKG ...	Version	Product data	Packaging
Order No.	1690720000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190329235	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		
Type	BLZF 3.50/09/180 SN BK ...	Version	Product data	Packaging
Order No.	1690490000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190329006	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		
Type	BLZF 3.50/09/180 SN OR ...	Version	Product data	Packaging
Order No.	1690260000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190328757	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		

BL 3.50/90

Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/90 SN OR BX	Version	Product data	Packaging
Order No.	1638620000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190276164	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	54 pc(s).			
Type	BL 3.50/09/90 SN BK BX	Version	Product data	Packaging
Order No.	1638850000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190276393	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	54 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Mating connector (conditionally pluggable)
BL 3.50/270


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/270 SN BK BX	Version	Product data	Packaging
Order No.	1639770000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190277321	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	54 pc(s).	Box		
Type	BL 3.50/09/270 SN OR BX	Version	Product data	Packaging
Order No.	1639540000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190277093	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	54 pc(s).	Box		

BL 3.50/180


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/180 SN OR BX	Version	Product data	Packaging
Order No.	1597430000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190192006	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	54 pc(s).	Box		
Type	BL 3.50/09/180 SN BK BX	Version	Product data	Packaging
Order No.	1615710000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190060251	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	54 pc(s).	Box		
Type	BL 3.50/09/180 SN DKGN	Version	Product data	Packaging
Order No.	1606560000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190111694	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	54 pc(s).	Box		

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Mating connector (conditionally pluggable)

BLIDC 3.5 SN



Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	BLIDC 3.50/09/180 SN OR ...	Version	Product data	Packaging
Order No.	1750860000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 6 A / 0.2 - 0.5 mm ²	Box
GTIN (EAN)	4032248146161	90°/270°, IDC terminal, Clamping range, max. : 0.5 mm ² , Box	UL: 300 V / 7 A / AWG 22 - AWG 20	
Qty.	50 pc(s).			

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Mating connector (fully pluggable)
BLIDC 3.5F SN


Female connectors for fast processing with insulation displacement connectors (IDC) for connecting wires at 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	BLIDC 3.50/09/180F SN O ...	Version	Product data	Packaging
Order No.	1751160000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 6 A / 0.2 - 0.5 mm ²	Box
GTIN (EAN)	4032248146710	90°/270°, IDC terminal, Clamping range, max. : 0.5 mm ² , Box	UL: 300 V / 7 A / AWG 22 - AWG 20	
Qty.	50 pc(s).			

BLF 3.50/180LH


Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

General ordering data

Type	BLF 3.50/09/180LH SN BK ...	Version	Product data	Packaging
Order No.	2538080000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ²	Box
GTIN (EAN)	4050118549805	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	48 pc(s).	Box		
Type	BLF 3.50/09/180LH SN OR ...	Version	Product data	Packaging
Order No.	2460020000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ²	Box
GTIN (EAN)	4050118475432	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	48 pc(s).	Box		

**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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Mating connector (fully pluggable)
BL 3.50/180F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/180F SN OR BX	Version	Product data	Packaging
Order No.	1606710000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190084202	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	48 pc(s).	Box		
Type	BL 3.50/09/180F SN BK BX	Version	Product data	Packaging
Order No.	1615850000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190063122	180°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 28 - AWG 14	
Qty.	48 pc(s).	Box		

BLF 3.50/180F


Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

General ordering data

Type	BLF 3.50/09/180F SN OR ...	Version	Product data	Packaging
Order No.	2459460000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ²	Box
GTIN (EAN)	4050118474374	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	48 pc(s).	Box		
Type	BLF 3.50/09/180F SN BK ...	Version	Product data	Packaging
Order No.	2459640000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ²	Box
GTIN (EAN)	4050118475050	180°, PUSH IN, Spring connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / AWG 26 - AWG 16	
Qty.	48 pc(s).	Box		

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Mating connector (fully pluggable)
BLZF 3.5/180F


Female connectors with tension clamp system for connecting cables in 3.50 pitch. They provide space for labelling and can be coded.

General ordering data

Type	BLZF 3.50/09/180F SN OR ...	Version	Product data	Packaging
Order No.	1690950000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190329464	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		
Type	BLZF 3.50/09/180F SN BK ...	Version	Product data	Packaging
Order No.	1691180000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190329723	180°, Tension-clamp connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 10 A / AWG 26 - AWG 14	
Qty.	50 pc(s).	Box		

BL 3.50/90F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/90F SN OR BX	Version	Product data	Packaging
Order No.	1639080000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190276621	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	48 pc(s).			
Type	BL 3.50/09/90F SN BK BX	Version	Product data	Packaging
Order No.	1639310000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190276850	90°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² , Box	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	48 pc(s).			

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Mating connector (fully pluggable)
BL 3.50/270F


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

General ordering data

Type	BL 3.50/09/270F SN OR BX	Version	Product data	Packaging
Order No.	1640000000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190277550	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	48 pc(s).	Box		
Type	BL 3.50/09/270F SN BK BX	Version	Product data	Packaging
Order No.	1640230000	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 9,	IEC: 320 V / 12 A / 0.2 - 1.5 mm ²	Box
GTIN (EAN)	4008190277796	270°, Clamping yoke connection, Clamping range, max. : 1.5 mm ² ,	UL: 300 V / 8 A / AWG 28 - AWG 14	
Qty.	50 pc(s).	Box		

OMNIMATE Signal - series BL/SL 3.50 SL 3.50/09/135F 3.2SN OR BX

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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BL SL 3.5 KO SW	Version	Product data	Packaging
Order No.	1610100000	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190187637	of poles: 1		
Qty.	100 pc(s).			
Type	BL SL 3.5 KO OR	Version	Product data	Packaging
Order No.	1693430000	PCB plug-in connector, Accessories, Coding element, orange, Number		Box
GTIN (EAN)	4008190867447	of poles: 1		
Qty.	100 pc(s).			

Additional accessories



No task is too small when creating the perfect solution. br />

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs - ensure reliable pick-up from diagnostic sockets
- Cross-connectors - ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements - divide a large number of male connectors into several separate socket connector channels
- Locks and clips - optional vibration-resistant clip-on connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

General ordering data

Type	BL/SL 3.50 VR BK BX	Version	Product data
Order No.	1669300000	PCB plug-in connector, Accessories, Latches, black, Number of poles:	
GTIN (EAN)	4008190428471	1	
Qty.	100 pc(s).		

Data sheet**OMNIMATE Signal - series BL/SL 3.50
SL 3.50/09/135F 3.2SN OR BX**

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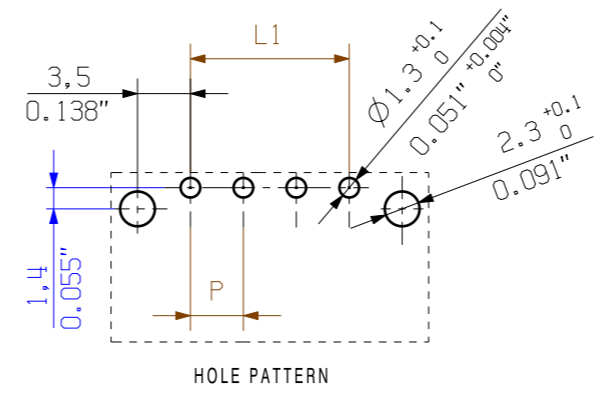
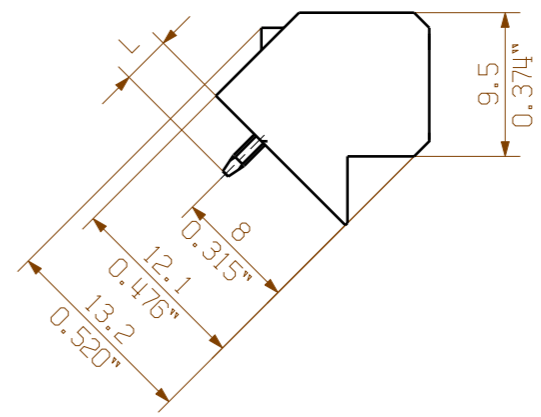
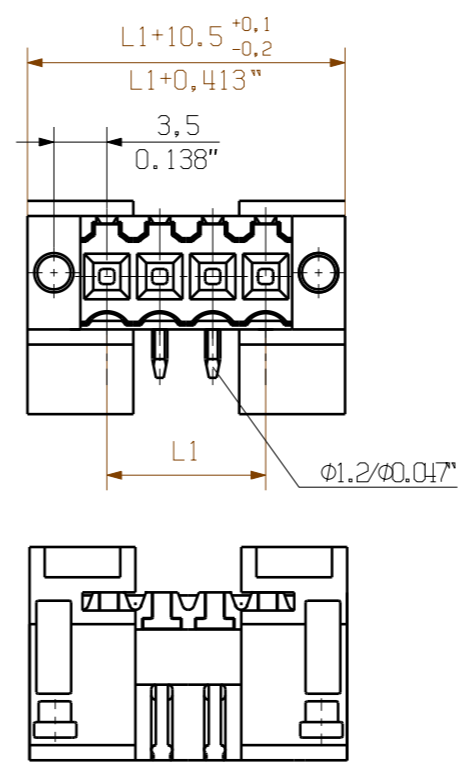
Accessories

Type	BL/SL 3.50 VR OR BX	Version	Product data
Order No.	1669310000	PCB plug-in connector, Accessories, Latches, orange, Number of poles:	
GTIN (EAN)	4008190428488	1	
Qty.	100 pc(s).		

MASSE OHNE TOLERANZ SIND KEINE PRUEFMASSE
 DIMS. WITHOUT TOLERANCE ARE NOT CONTROL DIMS.

DIE DEUTSCHE VERSION IST VERBINDLICH
 THE GERMAN VERSION IS BINDING

WEITERGABE SOWIE VERVIELFAELTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.
 ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER- ODER GESCHMACKSMUSTEREINTRAGUNG VORBEHALTEN.
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P= RASTER / PITCH
 SHOWN SL3.5/04/135F

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

STIFTLAENGE L	TOLERANZ
3,2	0,1 -0,3
4,5	0,1 -0,3

n	L1 [mm]	L1 [Inch]
24	80,50	3,169
23	77,00	3,031
22	73,50	2,894
21	70,00	2,756
20	66,50	2,618
19	63,00	2,480
18	59,50	2,343
17	56,00	2,205
16	52,50	2,067
15	49,00	1,929
14	45,50	1,791
13	42,00	1,654
12	38,50	1,516
11	35,00	1,378
10	31,50	1,240
9	28,00	1,102
8	24,50	0,965
7	21,00	0,827
6	17,50	0,689
5	14,00	0,551
4	10,50	0,413
3	7,00	0,276
2	3,50	0,138

METRIC TOLERANCES: X. = ±0.3 X.X = ±0.1 X.XX = ±0.05	49545/5 20.01.10 HELIS_MA 02	CAT.NO.:	
	MODIFICATION		C 21377 05 DRAWING NO. ISSUE NO.
	DATE: 02.11.2009 NAME: HELIS_MA	SHEET 02 OF 02 SHEETS	
SCALE: 2:1 SUPERSEDES:	CHECKED: 22.01.2010 NAME: HECKERT_M	SL 3.50/.../135(F)... STIFTLAENGE PIN HEADER	
APPROVED:	NAME: HECKERT_M	PRODUCT FILE: SL 3.50	7296

Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.