

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

### **Product image**













1





Two-row female plug with PUSH IN spring connection

- Simply insert the prepared wire and you're done
- Intuitive to use because
- the wire-entry area and handling area are clearly sepa-
- Integrated push-buttons for opening the terminal point
- High component density because of low heights
- Optional: locking and releasing require no tools when using Weidmüller's

release latch (LR) or release lever (LH)

### **General ordering data**

O. I. NI	tor, Clamping range, max.: 1.5 mm², Box	
Order No.	<u>2558730000</u>	
Туре	B2CF 3.50/40/180LH SN OR BX	
GTIN (EAN)	4050118662931	
Qty.	24 items	
Product data	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm <sup>2</sup>	
	UL: 300 V / 9.5 A / AWG 30 - AWG 16	
Packaging	Box	







Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

Ap	proval	s
----	--------	---

ROHS	Conform				
Dimensions and weights					
Depth	29.9 mm	Depth (inches)	1.1772 inch		
Height	17.25 mm	Height (inches)	0.6791 inch		
Width	76.9 mm	Width (inches)	3.0276 inch		
Net weight	27.58 g				

### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	

### **System Parameters**

Product family	OMNIMATE Signal - series B2C/S2C 3.50 - 2-row	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	3.50 mm
Pitch in inches (P)	0.138 "	Conductor outlet direction	180°
Number of poles	40	L1 in mm	66.50 mm
L1 in inches	2.622 "	Number of rows	1
Pin series quantity	2	Rated cross-section	15 mm²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged
Protection degree	IP20, when fully mounted	Can be coded	Yes
Stripping length	10 mm	Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25
Plugging force/pole, max.	3.5 N	Pulling force/pole, max.	3.5 N

### **Material data**

Insulating material	PA 66 GF 30	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 600	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	25 µm Sn hot-dip tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-40 °C
Temperature range, installation, max.	120 °C		

### **Conductors suitable for connection**

Clamping range, min.	0.14 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 30
Wire connection cross section AWG,	AWG 16
max.	
Solid, min. H05(07) V-U	0.14 mm <sup>2</sup>
Solid, max. H05(07) V-U	1.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.14 mm <sup>2</sup>
Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>

w. plastic collar ferrule, DIN 46228 pt 4, 0.14 mm<sup>2</sup> min.

Creation date 07.11.2025 10:21:50 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

nax.			
v. wire end ferrule, DIN 46228 pt 1, nin.	0.14 mm²		
v. wire end ferrule, DIN 46228 pt 1, nax.	1.5 mm²		
lampable conductor	Cross-section for conductor connection	nominal	0.14 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,14/12 GR SV
	Cross-section for conductor connection nominal 0.		0.25 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL SV
	Cross-section for conductor connection	nominal	0.34 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK SV
	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,5/16 OR SV
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/10
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H0,75/16 W SV
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	<u>H0,75/10</u>
	Cross-section for conductor connection	nominal	1
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,0/16 GE SV
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	<u>H1,0/10</u>
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H1,5/10

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 voltage.

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	13.4 A
Rated current, max. number of poles (Tu=20°C)	10 A	Rated current, min. number of poles (Tu=40°C)	12 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 80 A

Creation date 07.11.2025 10:21:50 MEZ





### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

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)	9.5 A
Rated current (Use group C / CSA)	9.5 A	Rated current (Use group D / CSA)	9.5 A
Wire cross-section, AWG, min.	AWG 30	Wire cross-section, AWG, max.	AWG 16

### Rated data acc. to UL 1059

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)	9.5 A
Rated current (Use group C / UL 1059)	9.5 A	Rated current (Use group D / UL 1059)	9.5 A
Wire cross-section, AWG, min.	AWG 30	Wire cross-section, AWG, max.	AWG 16

## **Packing**

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	33.00 mm

### Type tests

Test: Durability of markings	Standard	IEC 61984 section 6.2 and 7.3.2 / 10.11 taking pattern from IEC 60068-2-70 / 12.95	
	Test	mark of origin, type identification, pitch, type of material, date clock, approval marking UL, approval marking cULus	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non-interchangeability)	Standard	IEC 61984 section 6.3 and 6.9.1 / 10.11, IEC 60512-13-5 / 02.06	
	Test	180° turned without coding elements	
	Evaluation	passed	
	Test	180° turned with coding elements	
	Evaluation	passed	
	Test	visual examination	
	Evaluation	passed	
est: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11	
	Conductor type	Type of conductor solid 0.14 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.14 mm <sup>2</sup> and conductor cross-section	
		Type of conductor solid 1.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 1.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor AWG 26/1 and conductor cross-section	
		Type of conductor AWG 26/19 and conductor cross-section	
		Type of conductor AWG 16/1 and conductor cross-section	



### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 26/1 and conductor cross-
		section
		Type of conductor AWG 26/19 and conductor cross-
		section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor H05V-U0.75 and conductor cross-section
		Type of conductor H05V-K0.75 and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor H07V-U1.5 and conductor cross-section
		Type of conductor H07V-K1.5 and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	IEC 60999-1 section 9.5 / 11.99
	Requirement	≥10 N
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section
		Type of conductor AWG 26/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-U0.75 and conductor cross-section
		Type of conductor H05V-K0.75 and conductor cross-section
	Evaluation	passed
	Requirement	≥40 N
	Conductor type	Type of conductor H07V-U1.5 and conductor cross-section
		Type of conductor H07V-K1.5 and conductor cross-section
		Type of conductor AWG 16/1 and conductor cross-section



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Technical data**

	Type of conductor AWG 16/19 and conductor cross-section	
Evaluation	passed	

#### **Important note**

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. Notes

- Additional variants on request
- · Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Crimp shape A for wire-end ferrules with crimping tools PZ 1,5 (order no. 9005990000) or PZ 6/5 (order no. 9011460000) for larger wire cross-sections recommended.
- 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.
- Max. outer diameter of the conductor 2.6 mm
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	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	ECLASS 12.0	27-46-02-02
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

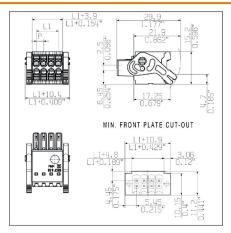
www.weidmueller.com

# **Drawings**

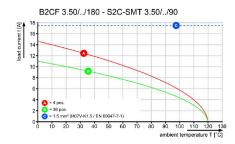
### **Product image**



### **Dimensional drawing**



## Graph



#### **Product benefits**



Solid PUSH IN contactSafe and durable



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

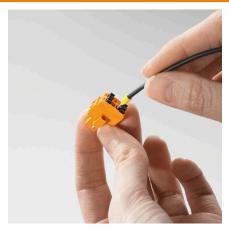
# **Drawings**

### **Product benefits**



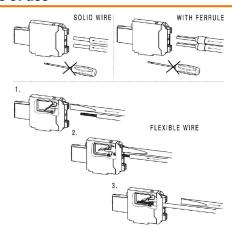
Large connection cross-sectionUp to 1.5 mm possible with ease

### **Product benefits**



Fast PUSH IN connectionTool-free and touch-safe

## Example of use







Weidmüller Interface GmbH & Co. KG

9

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **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**

Туре	B2L/S2L 3.50 KO BK BX	Version
Order No.	<u>1849740000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4032248378203	of poles: 1
Qty.	100 ST	
_		
Туре	B2L/S2L 3.50 KO OR BX	Version
Type Order No.	B2L/S2L 3.50 KO OR BX 1849730000	Version PCB plug-in connector, Accessories, Coding element, orange, Number
• •	'	