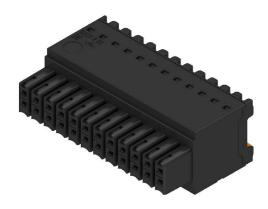


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# **Product image**















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 separated
- 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

   Talance lotely (LR) or release lover (LR)

release latch (LR) or release lever (LH)

### **General ordering data**

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 24, 180°, PUSH IN with push button, Clamping range, max. : 1.5 mm², Box
Order No.	1277570000
Туре	B2CF 3.50/24/180 SN BK BX
GTIN (EAN)	4050118068078
Qty.	42 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	Вох



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# **Technical data**

# **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

# **Dimensions and weights**

Depth	25.25 mm	Depth (inches)	0.9941 inch
Height	15.2 mm	Height (inches)	0.5984 inch
Width	42 mm	Width (inches)	1.6535 inch
Net weight	15.78 g		

### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0.357 kg CO2eq.

### **System Parameters**

Product family	OMNIMATE Signal - series B2C/S2C 3.50 - 2-row	Type of connection	Field connection
Wire connection method	PUSH IN with push button	Pitch in mm (P)	3.50 mm
Pitch in inches (P)	0.138 "	Conductor outlet direction	180°
Number of poles	24	L1 in mm	38.50 mm
L1 in inches	1.516 "	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	black
Colour chart (similar)	RAL 9011	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,	AWG 30
min.	

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# **Technical data**

for conductor connection ule for conductor connection ule	Type fine-wired nominal 0.14 mm² Stripping length nominal 10 m Recommended wire- end ferrule Type fine-wired nominal 0.25 mm² Stripping length nominal 10 m Recommended wire- end ferrule Type fine-wired nominal 0.34 mm²
for conductor connection  le  for conductor connection	nominal 0.14 mm²  Stripping length nominal 10 m  Recommended wire- end ferrule  Type fine-wired nominal 0.25 mm²  Stripping length nominal 10 m  Recommended wire- end ferrule  Type fine-wired nominal 0.34 mm²
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for conductor connection	nominal 0.25 mm²  Stripping length nominal 10 m  Recommended wire- end ferrule  Type fine-wired nominal 0.34 mm²
for conductor connection	Stripping length nominal 10 m  Recommended wire- end ferrule  Type fine-wired nominal 0.34 mm²
for conductor connection	Recommended wire- end ferrule  Type fine-wired nominal 0.34 mm²
	end ferrule Type fine-wired nominal 0.34 mm²
	nominal 0.34 mm <sup>2</sup>
ıle	nominal 0.34 mm <sup>2</sup>
ıle	
	Stripping length nominal 10 m
	Recommended wire- H0,34/12 TK SV
	end ferrule
for conductor connection	Type fine-wired
	nominal 0.5 mm <sup>2</sup>
ıle	Stripping length nominal 12 m
	Recommended wire- H0,5/16 OR SV
	end ferrule
	Stripping length nominal 10 m
	Recommended wire- H0.5/10 end ferrule
for conductor connection	nominal 0.75 mm <sup>2</sup>
ıle	Stripping length nominal 12 m
	Recommended wire- end ferrule  H0,75/16 W SV
	Stripping length nominal 10 m
	Recommended wire- end ferrule
for conductor connection	nominal 1
	Stripping length nominal 12 m
iie	Recommended wire- H1,0/16 GE SV
	end ferrule
	Stripping length nominal 10 m
	Recommended wire- H1,0/10 end ferrule
for conductor connection	
for conductor connection	nominal 1.5 mm <sup>2</sup>
for conductor connection le	
u	rule

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# **Technical data**

Kated	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

# Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

# Rated data acc. to UL 1059

Institute (cURus)	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)	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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

### **Packing**

Packaging	Box	VPE length	349.00 mm
VPE width	137.00 mm	VPE height	32.00 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

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# **Technical data**

Test: 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 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
		Type of conductor AWG 16/19 and conductor cross-section
	Evaluation	passed
est for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99
osening 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
ull-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



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# **Technical data**

Evaluation	Type of conductor AWG 26/19 and conductor cross-section	
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	
	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  $50\,^{\circ}\text{C}$  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		

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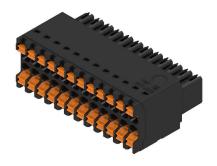
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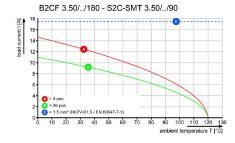
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# **Drawings**

# **Product image**



### Graph



#### **Product benefits**



Solid PUSH IN contactSafe and durable



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# **Drawings**

### **Product benefits**



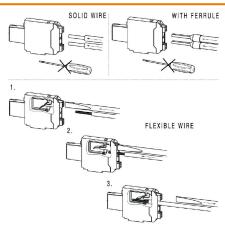
Large connection cross-sectionUp to 1.5 mm possible with ease

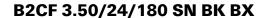
# **Product benefits**



Fast PUSH IN connectionTool-free and touch-safe

# Example of use







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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**

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
•	D22, 022 0.00 110 011 D/1	VOIDIO
Order No.	<u>1849730000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
• •	·	



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# Counterpart

### **S2C-SMT 3.50/180G Box**



High-temperature-resistant pin header.

- touch-safe
- can be plugged into B2CF 3.50 PUSH IN female plug
- Plug-in direction is perpendicular or parallel to the circuit board (180° / 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Box packaging (BX) or, anti-static, tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.5 mm

# **General ordering data**

Туре	S2C-SMT 3.50/24/180G 1	Version
Order No.	1290520000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118083415	connection, 3.50 mm, Number of poles: 24, 180°, Solder pin length
Qty.	42 ST	(I): 1.5 mm, tinned, black, Box
Туре	S2C-SMT 3.50/24/180G 3	Version
Order No.	1290140000	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118082371	connection, 3.50 mm, Number of poles: 24, 180°, Solder pin length
Qty.	42 ST	(I): 3.5 mm, tinned, black, Box

### **S2C-SMT 3.50/180G Tape**



High-temperature-resistant pin header.

- touch-safe
- can be plugged into B2CF 3.50 PUSH IN female plug
- Plug-in direction is perpendicular or parallel to the circuit board (180° / 90°)
  • Housing variants: closed (G) and with solder flange (LF)
- Box packaging (BX) or, anti-static, tape-on-reel (RL)
- Suitable for reflow and wave soldering applications
- Pin length of either 1.5 mm or 3.5 mm

### **General ordering data**

Туре	S2C-SMT 3.50/24/180G 1	Version
Order No.	<u>1359060000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118161878	connection, 3.50 mm, Number of poles: 24, 180°, Solder pin length
Qty.	150 ST	(I): 1.5 mm, tinned, black, Tape
Туре	S2C-SMT 3.50/24/180G 3	Version
Type Order No.	S2C-SMT 3.50/24/180G 3 1358850000	Version PCB plug-in connector, male header, closed side, THT/THR solder
	, ,	

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# Counterpart

### **S2C-SMT 3.50/90G Box**



High-temperature-resistant male header

- Finger-safe
- Can be plugged into female plug B2CF 3.50 PUSH IN
- Plug-in direction is perpendicular or parallel to the circuit board (180° / 90°)
- Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or on anti-static tape-on-reel (RL)
- Suitable for reflow and wave soldering
- applications
- Pin length of either 1.5 mm or 3.2 mm

### **General ordering data**

Туре	S2C-SMT 3.50/24/90G 1.5	Version
Order No.	<u>1289750000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118081992	connection, 3.50 mm, Number of poles: 24, 90°, Solder pin length (I):
Qty.	42 ST	1.5 mm, tinned, black, Box
Туре	S2C-SMT 3.50/24/90G 3.2	Version
Order No.	<u>1289370000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118082081	connection, 3.50 mm, Number of poles: 24, 90°, Solder pin length (I):

### **S2C-SMT 3.50/90G Tape**



High-temperature-resistant male header

- Finger-safe
- Can be plugged into female plug B2CF 3.50 PUSH IN
- Plug-in direction is perpendicular or parallel to the circuit board (180° / 90°)
- · Housing variants: closed (G) and with solder flange (LF)
- Packed either in a box (BX) or on anti-static tape-on-reel (RL)
- Suitable for reflow and wave soldering
- · applications
- Pin length of either 1.5 mm or 3.2 mm

#### **General ordering data**

Туре	S2C-SMT 3.50/24/90G 1.5	Version
Order No.	<u>1359690000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118162998	connection, 3.50 mm, Number of poles: 24, 90°, Solder pin length (I):
Qty.	235 ST	1.5 mm, tinned, black, Tape
Туре	S2C-SMT 3.50/24/90G 3.2	Version
Order No.	<u>1359570000</u>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118162875	connection, 3.50 mm, Number of poles: 24, 90°, Solder pin length (I):
Qty.	235 ST	3.2 mm, tinned, black, Tape

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