

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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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

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 12, 180°, PUSH IN with push button, Clamping range, max. : 1.5 mm², Box
Order No.	1277720000
Туре	B2CF 3.50/12/180F SN OR BX
GTIN (EAN)	4050118067507
Qty.	66 items
Product data	IEC: 320 V / 13.4 A / 0.14 - 1.5 mm ² 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	28 mm	Width (inches)	1.1024 inch
Net weight	8.38 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0.198 kg CO2eq.

System Parameters

Product family	OMNIMATE Signal - series B2C/S2C 3.50 - 2-rov	V		
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	12			
L1 in mm	17.50 mm			
L1 in inches	0.689 "			
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			
Tightening torque	Torque type	Screw flange		
	Usage information	Tightening torque	min.	0.15 Nm
			max.	0.2 Nm

Material data

Insulating material	PA 66 GF 30	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II

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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 ²	
Clamping range, max.	1.5 mm ²	
Wire connection cross section AWG, min.	AWG 30	
Wire connection cross section AWG, max.	AWG 16	
Solid, min. H05(07) V-U	0.14 mm ²	
Solid, max. H05(07) V-U	1.5 mm ²	
Flexible, min. H05(07) V-K	0.14 mm ²	
Flexible, max. H05(07) V-K	1.5 mm²	
w. plastic collar ferrule, DIN 46228 pt min.	•	
w. plastic collar ferrule, DIN 46228 pt max.	4, 1 mm ²	
w. wire end ferrule, DIN 46228 pt 1, min.	0.14 mm ²	
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²	
Clampable conductor	wire end ferrule	Stripping length nominal 10 mm
		Recommended wire- end ferrule
	wire end ferrule	Stripping length nominal 10 mm
		Recommended wire- H0,25/12 HBL SV end ferrule
	wire end ferrule	Stripping length nominal 10 mm
		Recommended wire- end ferrule H0,34/12 TK SV
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H0,5/16 OR SV end ferrule
		Stripping length nominal 10 mm
		Recommended wire- H0.5/10 end ferrule
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H0,75/16 W SV end ferrule
		Stripping length nominal 10 mm
		Recommended wire- H0,75/10
		end ferrule
	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
	wire end ferrule	Stripping length nominal 10 mm

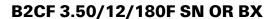
Reference text

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.

Recommended wire-

end ferrule

H1,5/10





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Technical data

Rated data acc. to IE	(ΙF	ı	to	1	c	c	a	ta	la	6	d	te	at	R
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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	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 -		

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	135.00 mm	VPE height	39.00 mm

Type tests

Test: Durability of markings	Standard	IEC 61984 section 6.2 and 7.3.2 / 10.11 tak 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, IE 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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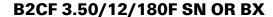
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Test: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, II 60947-1 section 8.2.4.5.1 / 03.11	EC
	Conductor type	Type of conductor solid 0.14 mm ² and conductor cross-section	
		Type of conductor stranded 0.14 mi and conductor cross-section	m²
		Type of conductor solid 1.5 mm ² and conductor cross-section	
		Type of conductor stranded 1.5 mm and conductor cross-section	2
		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	
S	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	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

	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		
	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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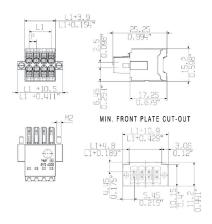
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Drawings

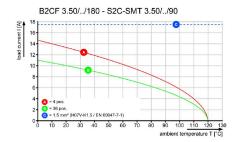
Product image



Dimensional drawing



Graph



Product benefits



Solid PUSH IN contactSafe and durable



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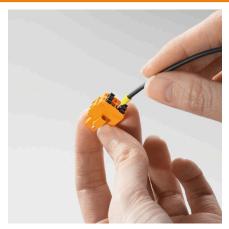
Drawings

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

