

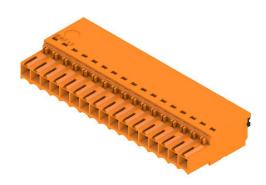


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image













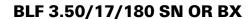


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Connect efficiently - in a small space: female header with spring connection (PUSH IN) as a plug-in connection level; used together with male headers in 3.50 mm pitch.

General ordering data

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 17, 180°, PUSH IN with actua- tor, Clamping range, max.: 1.5 mm², Box
Order No.	<u>2459200000</u>
Туре	BLF 3.50/17/180 SN OR BX
GTIN (EAN)	4050118474558
Qty.	30 items
Product data	IEC: 320 V / 17.5 A / 0.14 - 1.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 16
Packaging	Вох





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Technical data

Approvals

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

Dimensions and weights

Depth	22.7 mm	Depth (inches)	0.8937 inch
Height	9 mm	Height (inches)	0.3543 inch
Width	59.5 mm	Width (inches)	2.3425 inch
Net weight	17.67 g		

Environmental Product Compliance

Compliant without exemption
No SVHC above 0.1 wt%

System Parameters

Product family	OMNIMATE Signal - series BL/SL 3.50
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	17
L1 in mm	56.00 mm
L1 in inches	2.205 "
Number of rows	1
Pin series quantity	1
Rated cross-section	1.5 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Protection degree	IP20, when fully mounted
Volume resistance	≤5 mΩ
Can be coded	Yes
Stripping length	8 mm
Stripping length tolerance	min. 0 mm
	max. 1 mm
Screwdriver blade	0.4 x 2.5
Screwdriver blade standard	DIN 5264-A
Plugging cycles	25
Plugging force/pole, max.	6 N
Pulling force/pole, max.	6 N

Material data

Insulating material	PA GF	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 400, ≤ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy

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Technical data

Contact surface	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.	-30 °C
Temperature range, installation, max	100 °C		

Conductors suitable for connection

Clamping range, min.	0.14 mm ²		
Clamping range, max.	1.5 mm ²		
Wire connection cross section AWG,	AWG 26		
min.			
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 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.28 mm ²		
w. plastic collar ferrule, DIN 46228 pt a	4, 1 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	1 mm²		
Plug gauge in accordance with EN	2.4 mm x 1.5 mm		
60999 a x b; ø	<u> </u>		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,25/12 HBL
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.34 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,34/12 TK
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/14 OR
	Cross-section for conductor connection	Type	fine-wired
		nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire-	H0,75/14T HBL
		end ferrule	
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H1,0/14 GE
Reference text	The outside diameter of the plastic collar show		(5)

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Technical data

Rated da	ta acc	. to	IEC
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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	17.5 A
Rated current, max. number of poles (Tu=20°C)	14.7 A	Rated current, min. number of poles (Tu=40°C)	17.1 A
Rated current, max. number of poles (Tu=40°C)	13.1 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	1 x 1s with 120 A

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)	10 A
Rated current (Use group D / CSA)	10 A	Wire cross-section, AWG, min.	AWG 16
Wire cross-section, AWG, max.	AWG 26		

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)	10 A
Rated current (Use group D / UL 1059)	10 A	Wire cross-section, AWG, min.	AWG 26
Wire cross-section, AWG, max.	AWG 16	Reference to approval values	Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	27.00 mm

Type tests

isual and dimensional test	Standard	IEC 60512-1-1:2002-02	
	Test	dimensional inspection	
	Evaluation	passed	
	Standard	IEC 60512-1-2:2002-02	
	Test	weight check	
	Evaluation	passed	
	Standard	IEC 61984:2001-10 section 6.2	
	Test	visual examination	
	Evaluation	passed	
Test: Durability of markings	Standard	IEC 60068-2-70:1995-12 test Xb	
	Test	mark of origin, type identification, pitch, type of material, date clock, approval marking UL, approval marking CSA, durability	
	Evaluation	available	
Test: Misengagement (Non- interchangeability)	Standard	IEC 60512-13-5:2006-02	
	Test	intentional plugging	
	Evaluation	passed	
	Test	180° turned without coding elements	
	Evaluation	passed	
	Test	180° turned with coding elements	

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	Evaluation	passed	
	Test	visual examination	
	Evaluation	passed	
Test: Clampable cross section	Standard	IEC 60999-1:1999-11 section 9.1, IEC 60947-1:2011-03 section 8.2.4.5.1	
	Conductor type	Type of conductor solid 0.14 mm ² and conductor cross-section	
		Type of conductor stranded 0.14 mm ² and conductor cross-section	
		Type of conductor solid 1.5 mm ² and conductor cross-section	
		Type of conductor stranded 1.5 mm ² 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	
Test for damage to and accidental loosening of conductors	Standard	IEC 60999-1:1999-11 section 9.4 bzw. section 8.10	
	Requirement	0.3 kg	
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section	
		Type of conductor H05V-K0.5 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	
	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	
Pull-out test	Standard	IEC 60999-1:1999-11 section 9.5	





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Technical data

Requirement	≥20 N	
Conductor type	Type of conductor and conductor cross- section	H05V-U0.5
	Type of conductor and conductor cross-section	H05V-K0.5
Evaluation	passed	
Requirement	≥40 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
	Type of conductor and conductor cross-section	H07V-K1.5
	Type of conductor and conductor cross-section	AWG 16/1
	Type of conductor and conductor cross-section	AWG 16/19
Evaluation	passed	
Requirement	≥10 N	
Conductor type	Type of conductor and conductor cross-section	AWG 26/1
	Type of conductor and conductor cross-section	AWG 26/19
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.
- 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.
- The test point can only be used as potential-pickup point.
- 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

EC002638	ETIM 7.0	EC002638
EC002638	ETIM 9.0	EC002638
EC002638	ECLASS 9.0	27-44-03-09
27-44-03-09	ECLASS 10.0	27-44-03-09
27-46-02-02	ECLASS 12.0	27-46-02-02
27-46-02-02	ECLASS 14.0	27-46-02-02
27-46-02-02		
	EC002638 EC002638 27-44-03-09 27-46-02-02 27-46-02-02	EC002638 ETIM 9.0 EC002638 ECLASS 9.0 27-44-03-09 ECLASS 10.0 27-46-02-02 ECLASS 12.0 27-46-02-02 ECLASS 14.0

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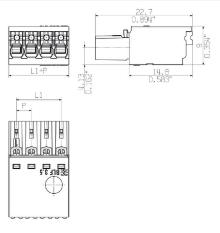
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Drawings

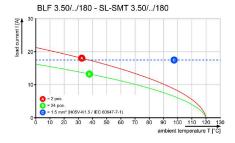
Product image



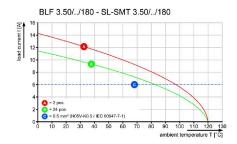
Dimensional drawing



Derating curve



Derating curve



Product benefits



Solid PUSH IN contactSafe and durable