

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





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

Version	PCB plug-in connector, female plug, 3.50 mm, Number of poles: 2, 180°, Clamping yoke connection, Clamping range, max. : 1.5 mm², Box
Order No.	<u>1615670000</u>
Туре	BL 3.50/02/180 SN BK BX
GTIN (EAN)	4008190058890
Qty.	264 pc(s).
Product data	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14
Packaging	Box



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Technical data

Dimensions and weights					
Depth	18.5 mm	Depth (inches)		0.728 inch	
Height	13 mm	Height (inches)		0.512 inch	
Width	7 mm	Width (inches)		0.276 inch	
Net weight	1.958 g				
System Parameters					
Product family	OMNIMATE Signal - series				
Type of connection	Field connection	BL/ 3L 3.50			
Wire connection method					
Pitch in mm (P)	Clamping yoke connection 3.5 mm				
Pitch in inches (P)	0.138 inch				
Conductor outlet direction	180°				
Number of poles	2				
L1 in mm	3.5 mm				
L1 in inches	0.138 inch				
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	IP 20				
Volume resistance	≤5 mΩ				
Can be coded	Yes				
Stripping length	6 mm				
Clamping screw	M 2				
Screwdriver blade	0.4 x 2.5				
Screwdriver blade standard	DIN 5264				
Plugging cycles	25				
Plugging force/pole, max.	7 N				
Pulling force/pole, max.	5 N				
Tightening torque	Torque type		Wire connection		
	Usage information		Tightening torque	min.	0.2 Nm
				max.	0.25 Nm

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	48 µm Sn hot-dip tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.08 mm ²
Clamping range, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 14



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Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	1.5 mm ²		
lexible, min. H05(07) V-K	0.2 mm ²		
lexible, max. H05(07) V-K	1.5 mm ²		
v. plastic collar ferrule, DIN 46228 pt	4, 0.2 mm ²		
nin.			
v. plastic collar ferrule, DIN 46228 pt nax.	4, 1.5 mm²		
v. wire end ferrule, DIN 46228 pt 1, nin.	0.2 mm ²		
<i>v.</i> wire end ferrule, DIN 46228 pt 1, nax.	1.5 mm²		
lug gauge in accordance with EN 0999 a x b; ø	2.4 mm x 1.5 mm		
lampable conductor	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,5/12 OR
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	<u>H0,5/6</u>
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,75/12 W
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	<u>H0,75/6</u>
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H1,0/12 GE
		Stripping length	nominal 6 mm
		Recommended wire- end ferrule	<u>H1,0/6</u>
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.25 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	H0,25/10 HBL
		Stripping length	nominal 5 mm
		Recommended wire- end ferrule	<u>H0,25/5</u>
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.34 mm ²
	wire end ferrule	Stripping length	nominal 8 mm
		Recommended wire- end ferrule	<u>H0,34/10 TK</u>
Reference text	The outside diameter of the plastic collar show		

Technical data

Rated data acc. to IEC

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tested acc. to standard		Rated current, min. number of poles		
	IEC 60664-1, IEC 61984	(Tu=20°C)	17 A	
Rated current, max. number of poles		Rated current, min. number of poles		
(Tu=20°C)	12 A	(Tu=40°C)	14.5 A	
Rated current, max. number of poles		Rated voltage for surge voltage class /		
(Tu=40°C)	10 A	pollution degree II/2	320 V	
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /		
pollution degree III/2	160 V	pollution degree III/3	160 V	
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage		
class/ pollution degree II/2	2.5 kV	class/ pollution degree III/2	2.5 kV	
Rated impulse voltage for surge voltage		Short-time withstand current resistance		
class/ contamination degree III/3	2.5 kV		3 x 1s with 100 A	

Rated data acc. to CSA

Institute (CSA)	€₽°
Rated voltage (Use group B / CSA)	300 V
Rated current (Use group B / CSA)	10 A
Wire cross-section, AWG, min.	AWG 28
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (CSA)

	154685-1318353
Rated voltage (Use group D / CSA)	300 V
Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, max.	AWG 14

Rated data acc. to UL 1059

Institute (UR)
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Rated voltage (Use group B / UL 1059)	300 V
Rated current (Use group B / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 28
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (UR)	

	E60693
Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, max.	AWG 14

Packing

Packaging	Box	VPE length	351 mm
VPE width	135 mm	VPE height	25 mm

Type tests

Test: Durability of markings

Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
Test	mark of origin, type identification, approval marking SEV, approval marking CSA
Evaluation	available
Test	durability
Evaluation	passed





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Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 60512 part 7 section 5 / 05.94
	Test	180° turned with coding elements
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.99
	Conductor type	Type of conductor solid 0.2 mm ² and conductor cross- section
		Type of conductor stranded 0.2 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 28/1 and conductor cross- section
		Type of conductor AWG 28/19 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	DIN EN 60999-1 section 9.4 / 12.00
	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 28/1 and conductor cross- section
		Type of conductor AWG 28/19 and conductor cross- section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor 2 × AWG 24/1 and conductor cross- section
		Type of conductor 2 × AWG 24/19 with and conductor cross- section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	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 16/7 and conductor cross- section

Technical data



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and conductor cross- section Type of conductor 2 × AV	Standard DIN EN 60999-1 section 9.5 / 12.00			
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Wire end ferrule with plastic collar to DIN 46228/4	Max. outer diameter of the conductor: 2.9 mm			
	Wire end ferrule without plastic collar to DIN 46228/1			
• P on drawing = pitch	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 be designed in accordance with the relevant application standards. 	r components are to			

• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Technical data



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Approvals	
Approvals	
ROHS	Conform
UL File Number Search	E60693
Downloads	
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Product Change Notification	20210629 Visual adjustment - Temporary different color for signal connectors 20210629 Visuelle Änderung - Vorübergehend andere Farbe für Signalstecker
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL BUILDING SAFETY EN FL INDUSTR.CONTROLS EN FL INDUSTR.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

Drawings

Product image



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Dimensional drawing







Graph



Graph



Graph



Graph



Accessories

Coding elements





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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

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



BL 3.50/04/180LR



BL 3.50/04/180LR REDESIGN





SCREWDRIVER DIRECTION 21.6 0.85" 29.5 1.16"

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 860810
 GBPACX-12

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 PVP03-3,50
 PVP04-3,50
 PVS02-5,00
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 1546228-5
 ELFH16150

 ELFP03110
 ELFP10210
 ELFT06250
 ELVP03100
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 1700410
 1702246
 1705229
 1710175
 1714537
 1717806
 1719600

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 1734795
 1736036
 1740194
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