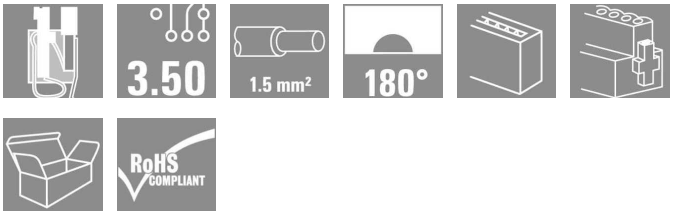
OMNIMATE Signal - series BL/SL 3.50
BL-I/O 3.50/10F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com





Female header with spring connection (PUSH IN) as a plug-in connection level for decentralised I/O electronics; used together with male headers in 3.50 mm pitch.

General ordering data

Type	BL-I/O 3.50/10F SN BK BX
Order No.	1779880000
Version	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 10, 180°, PUSH IN spring connection, Clamping range, rated connection, max.: 1.5 mm², Box
GTIN (EAN)	4032248165209
Qty.	20 pc(s).
Product data	IEC: 200 V / 2.2 A / 0.2 - 1.5 mm² UL: 50 V / 5 A / AWG 24 - AWG 16
Packaging	Box

Erstellungs-Datum January 14, 2014 6:56:49 PM CET

OMNIMATE Signal - series BL/SL 3.50
BL-I/O 3.50/10F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technische Daten

Dimensions and weights

Net weight	11.15 g

System parameters

Product family	OMNIMATE Signal - series BL/SL 3.50	Wire connection method	PUSH IN spring connection
Conductor outlet direction	180°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	10
Screwdriver blade	0.4 x 2.5	Screwdriver blade standard	DIN 5264
Stripping length	8 mm	L1 in mm	31.5 mm
L1 in inches	1.24 inch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		

Material data

Insulating material	PBT	Colour	Black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	Cu-Leg
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	75 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	75 °C		

Connectable conductors

Clamping range, rated connection, min.	0.2 mm²	Clamping range, rated connection, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	1.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²	Flexible, max. H05(07) V-K	1.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min	0.2 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	1 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm²
Plug gauge acc. to EN 60999 a x b; Ø	2.4 mm x 1.5 mm; 1.9mm		

DIN IEC rating data

Rated current, min. no. of poles (TU=20°C)	2.2 A	Rated current, max. no. of poles (Tu=20°C)	2 A
Rated current, number of poles (Tu=40°C), min	2.2 A	Rated current, number of poles (Tu=40°C), max.	2 A
Rated voltage for surge voltage class pollution degree II/2	200 V	Rated voltage for surge voltage class pollution degree III/2	160 V
Rated voltage for surge voltage class pollution degree III/3	50 V	Rated impulse voltage for surge voltage classpollution degree II/2	2.5 kV
Rated impulse voltage for surge voltage classpollution degree III/2	2.5 kV	Rated impulse voltage for surge voltage classcontamination degree III/3	0.8 kV
Short-time withstand current resistance	3 x 1s with 120 A		

OMNIMATE Signal - series BL/SL 3.50
BL-I/O 3.50/10F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technische Daten

CSA rating data

Institute (CSA)		Rated voltage (Use group B)	
			50 V
Rated current (use group B)	5 A	Rated voltage (use group D)	50 V
Rated current (use group D)	5 A	Wire cross-section, AWG, min.	AWG 22
Wire cross-section, AWG, max.	AWG 16		

UL 1059 rating data

Institute (UR)		Rated voltage (use group B)	
			50 V
Rated current (use group B)	5 A	Rated voltage (use group D)	50 V
Rated current (use group D)	5 A	Wire cross-section, AWG, min.	AWG 24
Wire cross-section, AWG, max.	AWG 16		

Classifications

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 5.1	27-26-07-04	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02		

Notes

Notes

- Additional colours on request
- 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.
- Total load-carrying capacity of the potential bridges when feeding with 1.5 mm² is max. 17.5 A (so the capacity is 2.18 A for poles 2 through 9)
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- Conductor < 0.2 mm² tinned
- Max. outer diameter of the conductor: 2.9 mm
- 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.

Approvals

Approvals	
ROHS	Conform

OMNIMATE Signal - series BL/SL 3.50
BL-I/O 3.50/10F SN BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Zeichnungen

