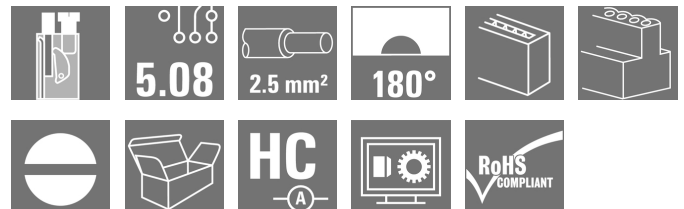


**OMNIMATE Signal - series BL/SL 5.08
BLT 5.08HC/06/180 SN OR BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

Female plugs with TOP screw connection system for connecting wires with straight 180° outlet direction. The female connectors provide space for labelling and can be coded. HC = High Current.

General ordering data

Type	BLT 5.08HC/06/180 SN OR BX
Order No.	1499960000
Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6, 180°, TOP connection, Clamping range, max. : 2.5 mm², Box
GTIN (EAN)	4008190140953
Qty.	60 pc(s).
Product data	IEC: 400 V / 27 A / 0.2 - 2.5 mm² UL: 300 V / 17 A / AWG 26 - AWG 14
Packaging	Box

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Technical data

Dimensions and weights

Width	30.48 mm	Width (inches)	1.2 inch
Height	12.2 mm	Height (inches)	0.48 inch
Depth	31.8 mm	Depth (inches)	1.252 inch
Net weight	16.56 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Field connection
Wire connection method	TOP connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Conductor outlet direction	180°
Number of poles	6	L1 in mm	25.4 mm
L1 in inches	1 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Volume resistance	4.50 mΩ
Can be coded	Yes	Stripping length	13 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping screw	M 2.5	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25
Plugging force/pole, max.	8 N	Pulling force/pole, max.	7 N

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	CuSn	Contact surface	tinned
Layer structure of plug contact	4-8 µm Sn hot-dip tinned	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²
Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Plug gauge in accordance with EN 60999 a x b; ø	2.4 mm x 1.5 mm ; 2.4 mm

Creation date November 20, 2019 8:50:25 PM CET

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	fine-wired		
		nominal	0.5 mm²		
	wire end ferrule	Stripping length	nominal	14 mm	
		Recommended wire-end ferrule	H0.5/18 OR		
	Cross-section for conductor connection	Type	fine-wired		
		nominal	1 mm²		
	wire end ferrule	Stripping length	nominal	15 mm	
		Recommended wire-end ferrule	H1.0/18 GE		
	Cross-section for conductor connection	Type	fine-wired		
		nominal	1.5 mm²		
	wire end ferrule	Stripping length	nominal	15 mm	
		Recommended wire-end ferrule	H1.5/18D SW		
Stripping length		nominal	12 mm		
Recommended wire-end ferrule		H1.5/12			
Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P).				
Max. clamping range	2.5 mm²				

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	27 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	16 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Short-time withstand current resistance	3 x 1s with 100 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	15 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data
Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 17 A

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, min. AWG 26

Wire cross-section, AWG, max. AWG 14

Reference to approval values

 Specifications are
 maximum values, details -
 see approval certificate.

Packing

Packaging Box

VPE length 30 mm

VPE width 135 mm

VPE height 350 mm

Classifications

ETIM 6.0 EC002638

ETIM 7.0 EC002638

eClass 9.0 27-44-03-09

eClass 9.1 27-44-03-09

eClass 10.0 27-44-03-09

UNSPSC 30-21-18-10

Notes

Notes

- Additional colours 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
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- 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.

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.

Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

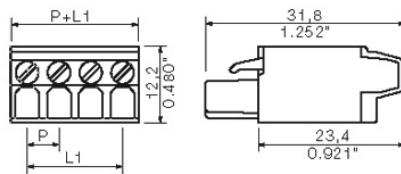
Approval/Certificate/Document of Conformity	CB Certificate CB Testreport Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	WSCAD

OMNIMATE Signal - series BL/SL 5.08 BLT 5.08HC/06/180 SN OR BX

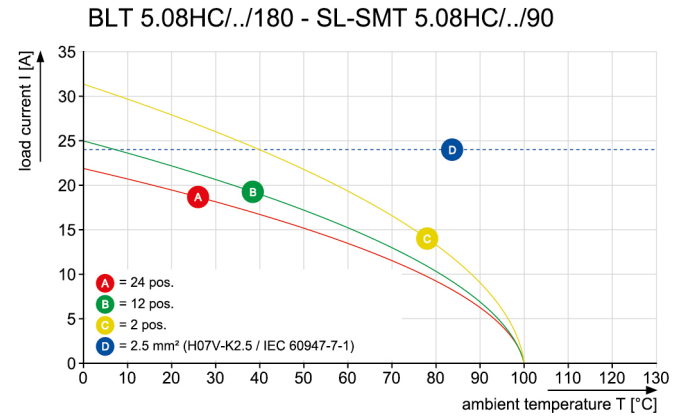
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Drawings

Dimensional drawing



Graph

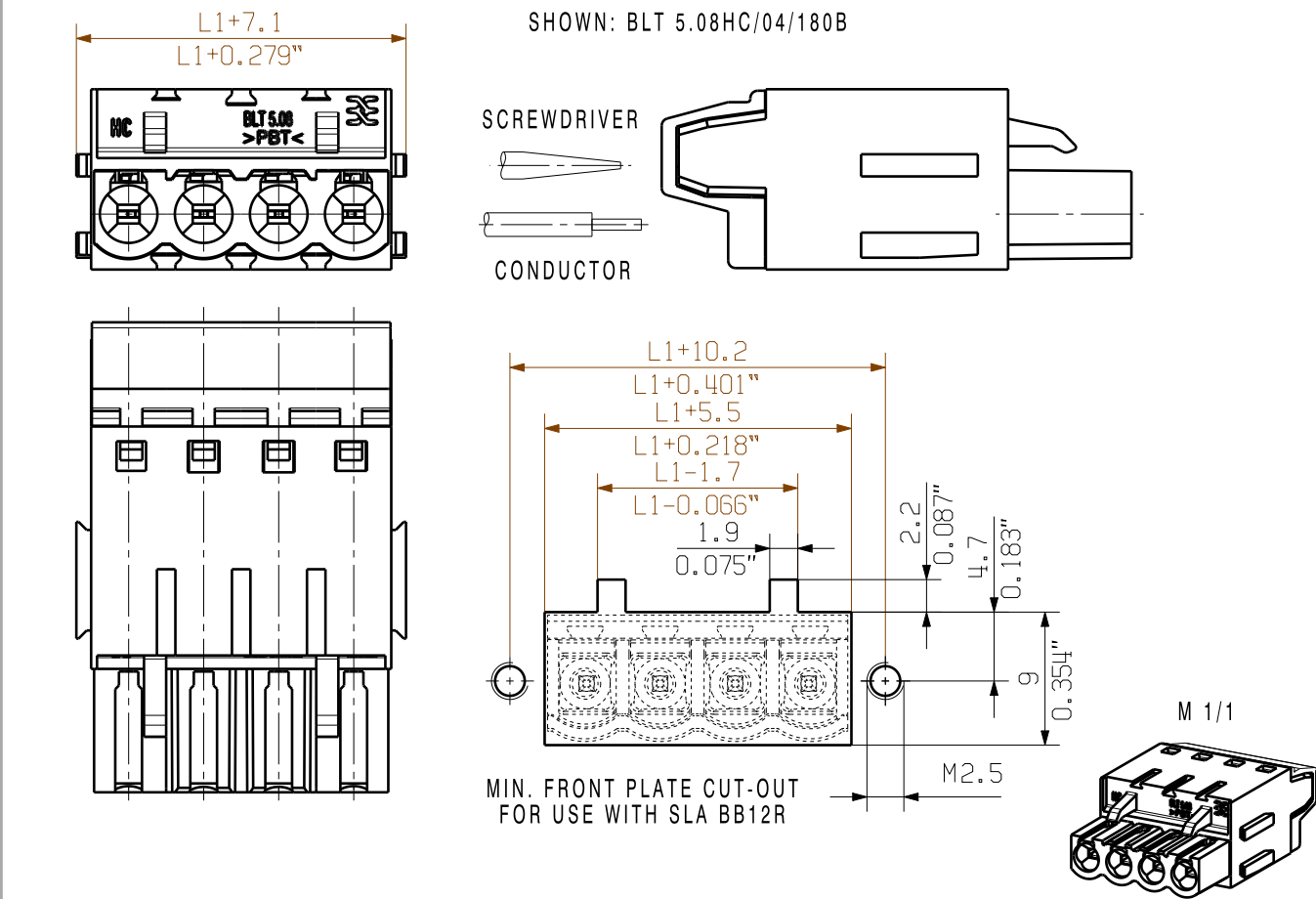
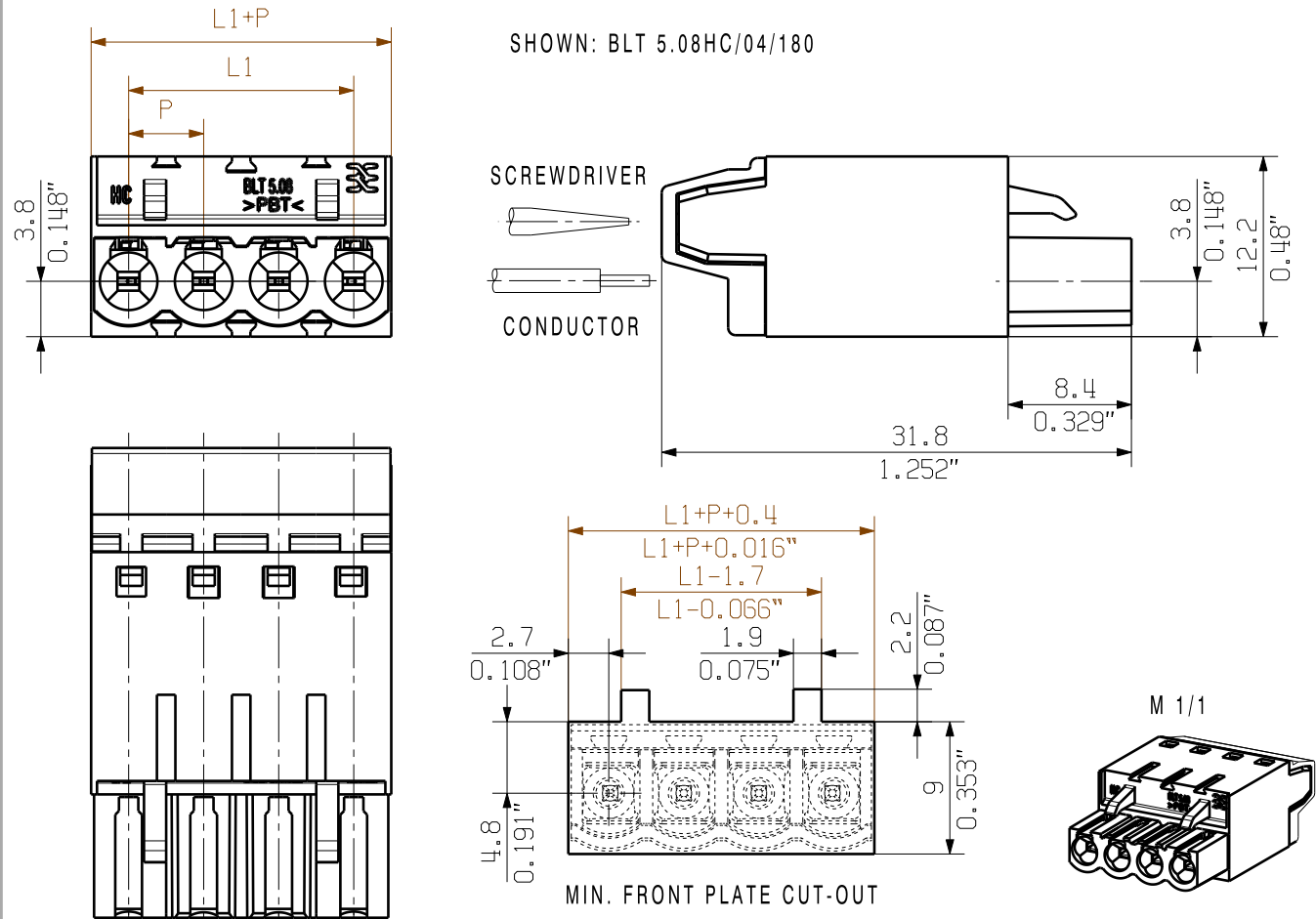


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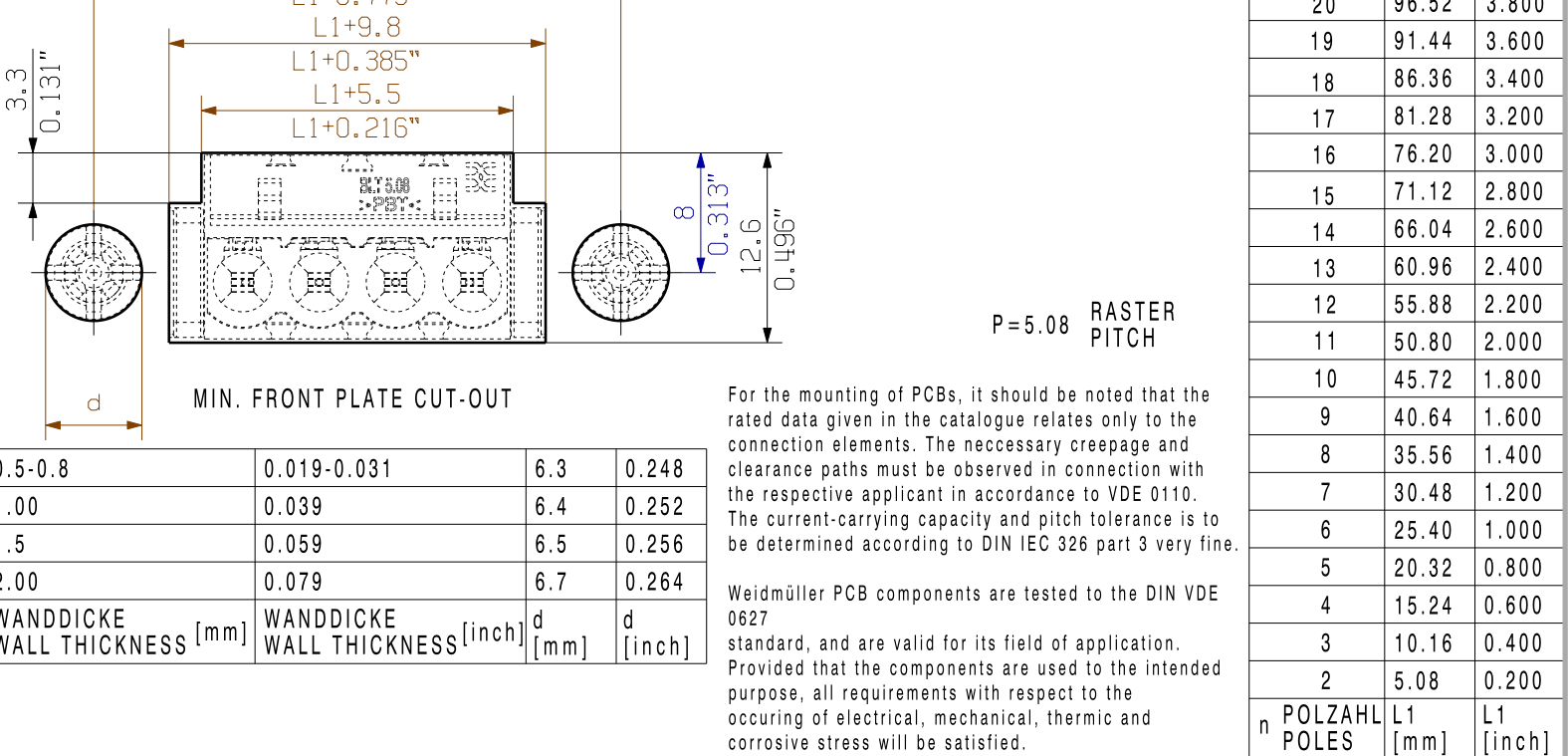
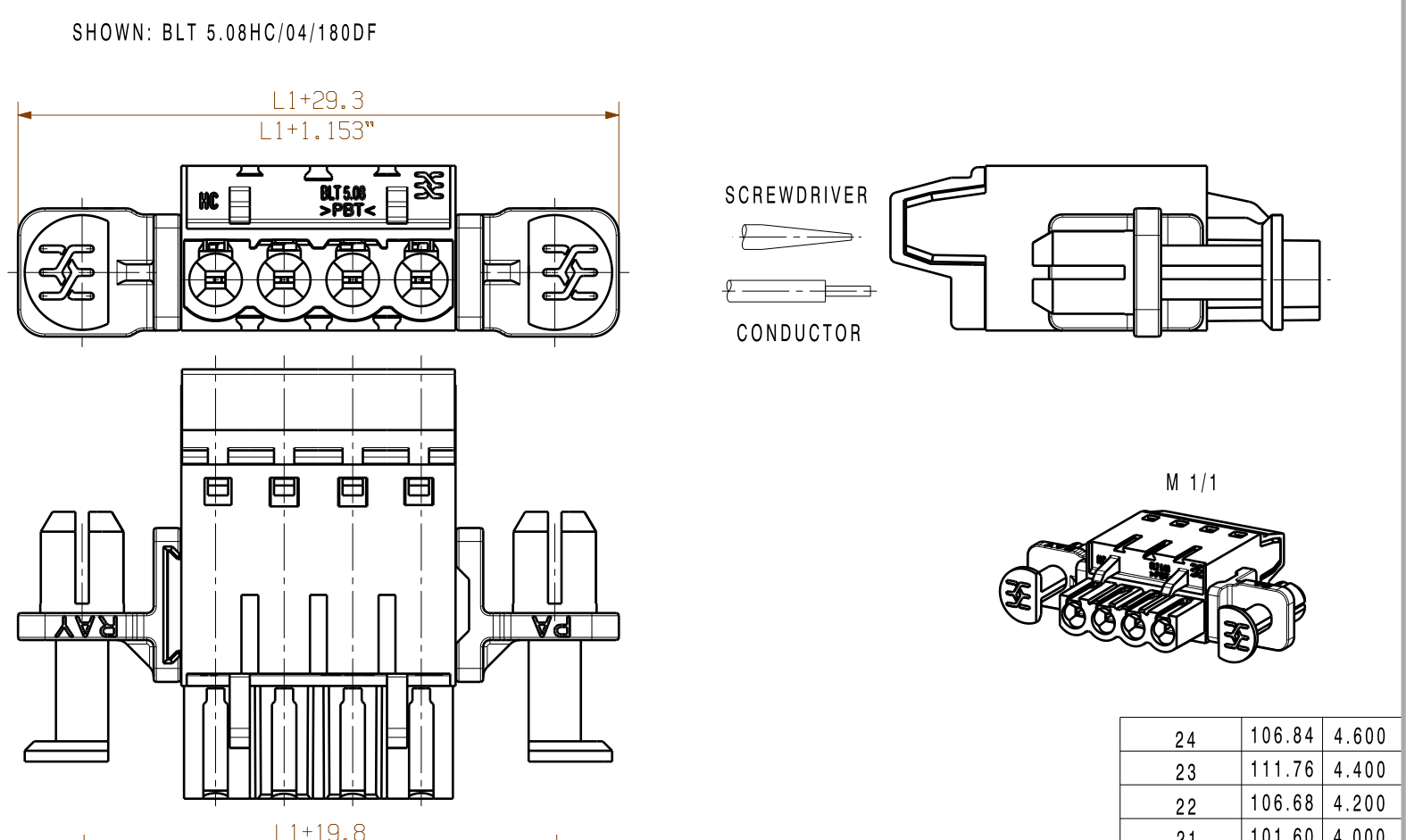
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DIN ISO 2768-m

RoHS COMPLIANT

70664/4
24.09.13 HERTEL_S 01

MODIFICATION

	DATE	NAME
DRAWN	11.06.2003	KNOTH_G
RESPONSIBLE		HERTEL_S
CHECKED	24.09.2013	HERTEL_S
APPROVED		HECKERT_M

CAT.NO.: .

Weidmüller

BLT5.08HC/.../180 ...
BUCHSENSTECKER
FEMALE PLUG

PRODUCT FILE: BLT 5.08

C 16018 41

DRAWING NO. SHEET 01 OF 01 SHEETS

ISSUE NO.