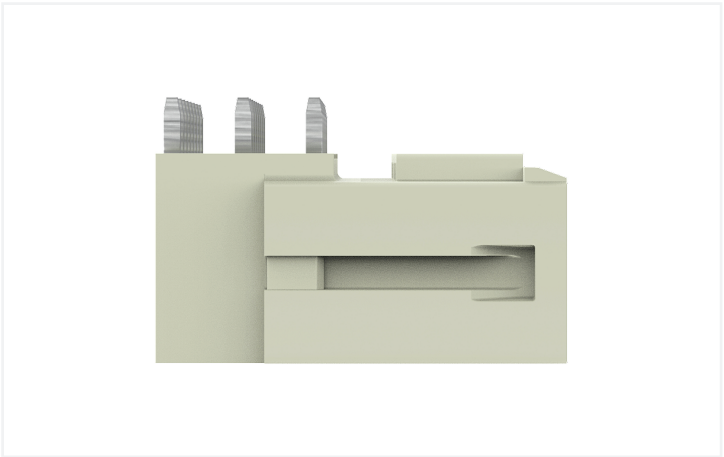
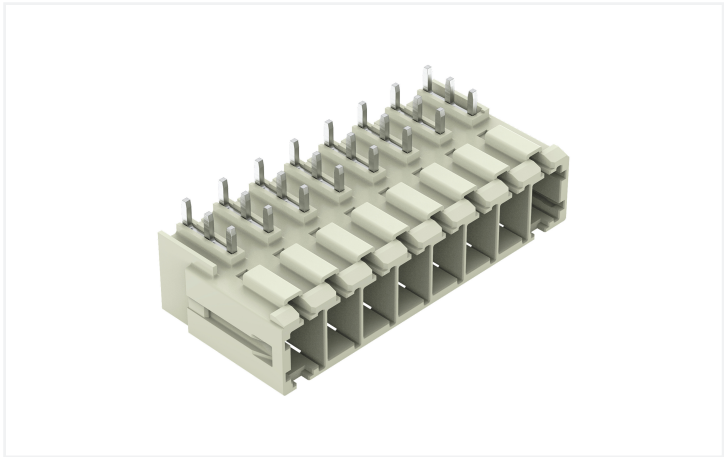


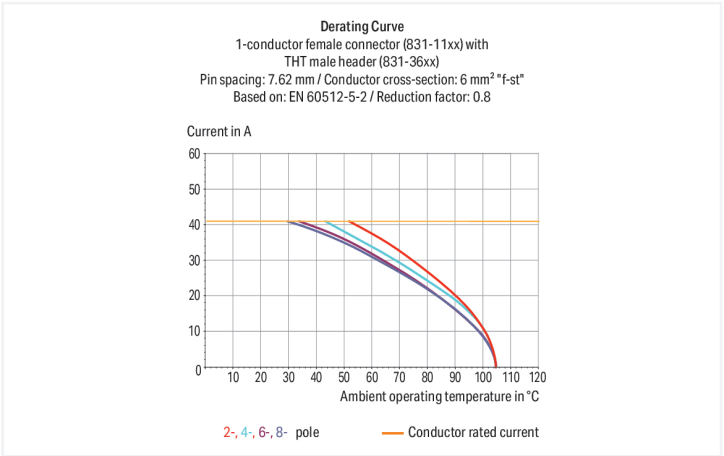
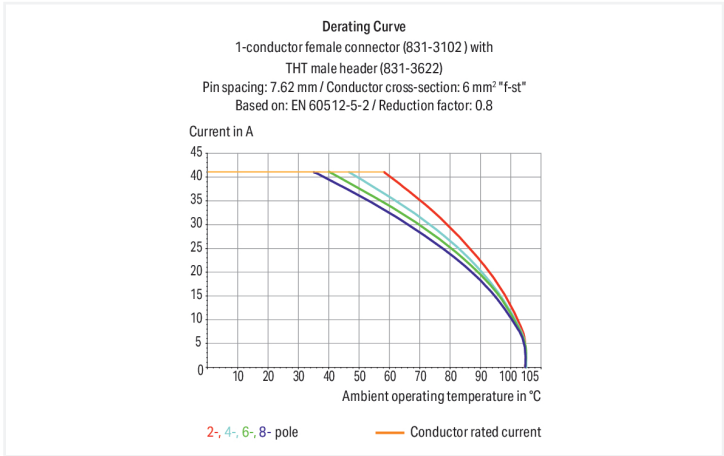
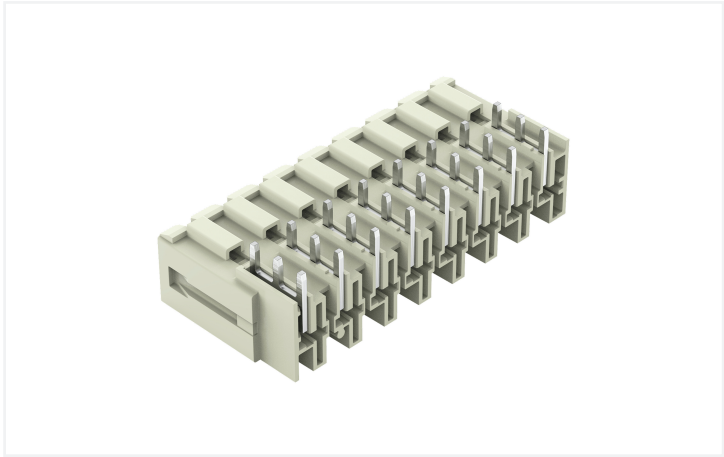
Data Sheet | Item Number: 831-3648

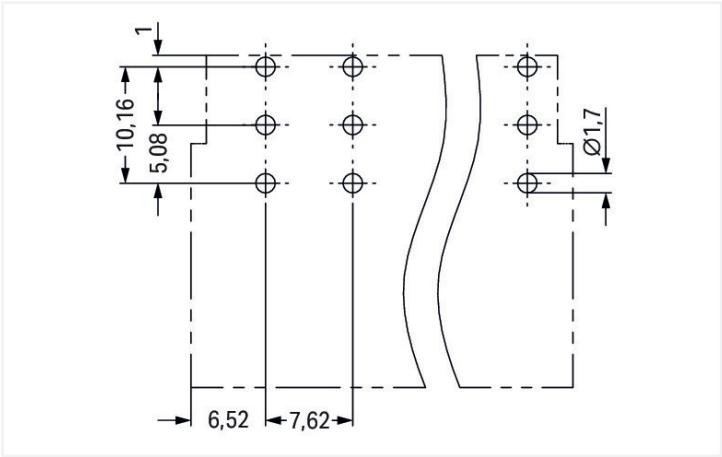
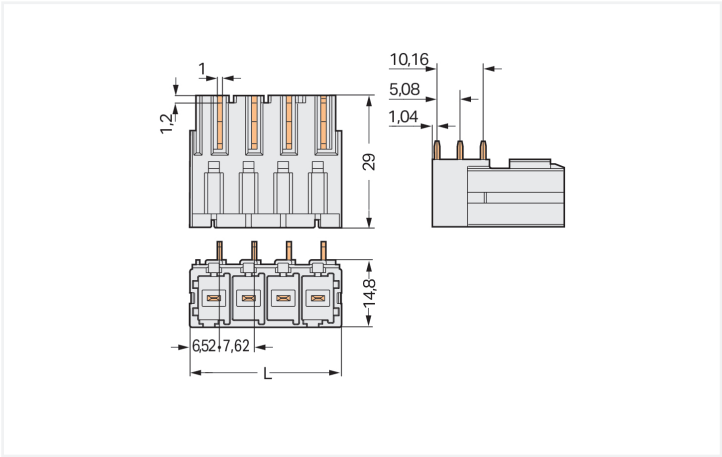
THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mis-
mating; Pin spacing 7.62 mm; 8-pole; light gray

<https://www.wago.com/831-3648>



Color: ■ light gray





$L = (\text{pole no.} - 1) \times \text{pin spacing} + 10.5 \text{ mm}$

Male connector, 831 Series, solder pin dimensions 1 x 1.2 mm

This male connector (item number 831-3648) simplifies electrical installations.

Tin is used for coating the contact surfaces. The pcb connector is designed for THT soldering.

Notes

Safety Information

Other pole numbers
Protection against PCB mounting errors
Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

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Protection against PCB mounting errors
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The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		500 V	630 V	1000 V
Rated impulse withstand voltage		6 kV	6 kV	6 kV
Rated current		41 A	41 A	41 A
Approvals per		CSA		
Use group		B	C	D
Rated voltage		-	300 V	600 V
Rated current		-	41 A	5 A

Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		-	300 V	600 V
Rated current		-	42 A	5 A

Connection Data				
Total number of potentials	8	Connection 1		
Number of connection types	1	Pole number	8	
Number of levels	1			

Physical data

Pin spacing	7.62 mm / 0.3 inches
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter with tolerance	1.7 ^(+0.1) mm

Mechanical data

Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	180 °

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3

Material data

Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.348 MJ
Weight	22.1 g

Environmental requirements

Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C

Commercial data

PU (SPU)	12 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966134964
Customs tariff number	85366930000



Product Classification		
UNSPSC		39121409
ETIM 9.0		EC002637
ETIM 10.0		EC002637
ECCN		NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals			Approvals for marine applications		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-61360/M1	LR Lloyds Register	IEC 61984	96/20035 (E5)
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-116057			
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0			

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 831-3648	

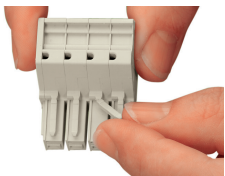
Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 831-3648 	ZUKEN Portal 831-3648 

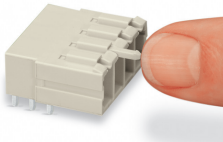
PCB Design	
Symbol and Footprint via SamacSys 831-3648	
Symbol and Footprint via Ultra Librarian 831-3648	

Installation Notes

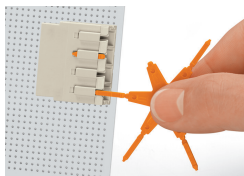
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.