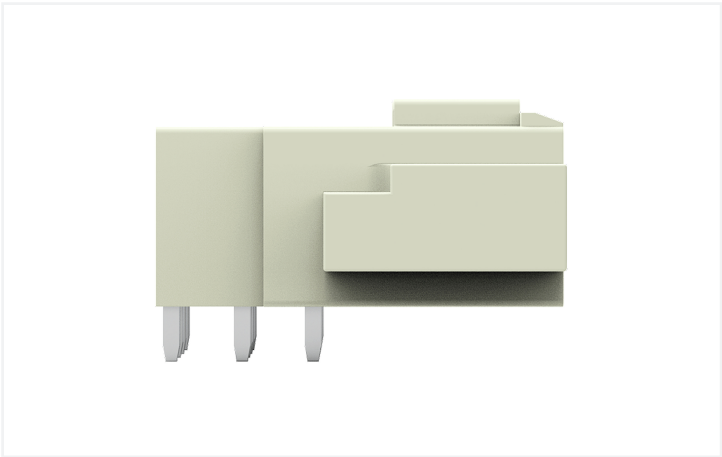
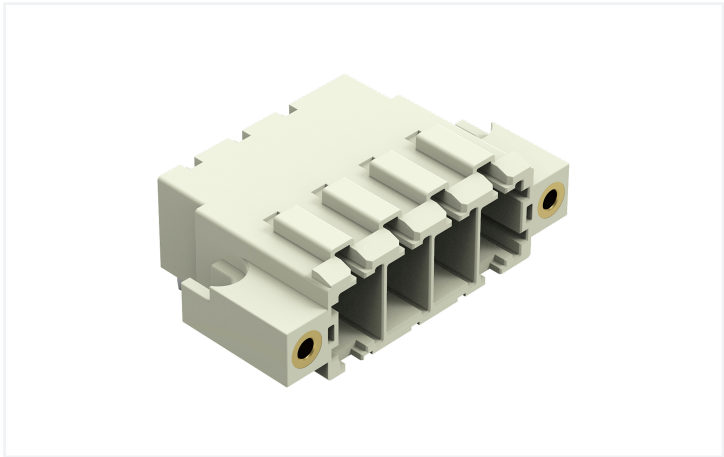
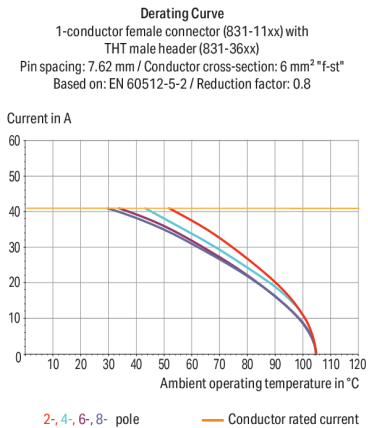
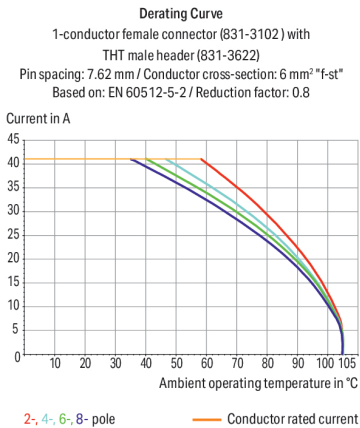
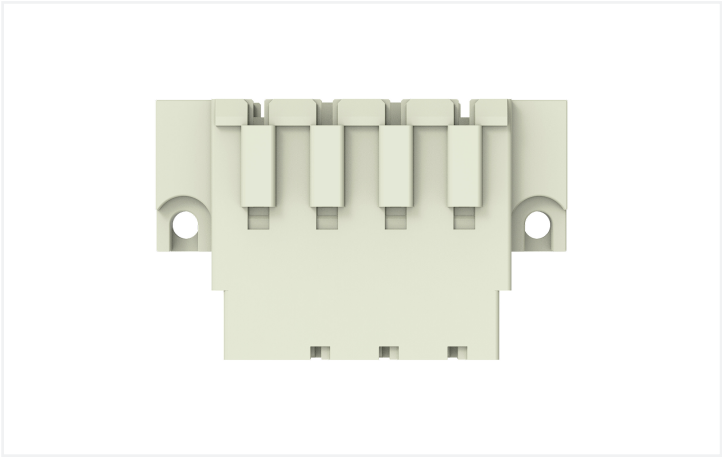
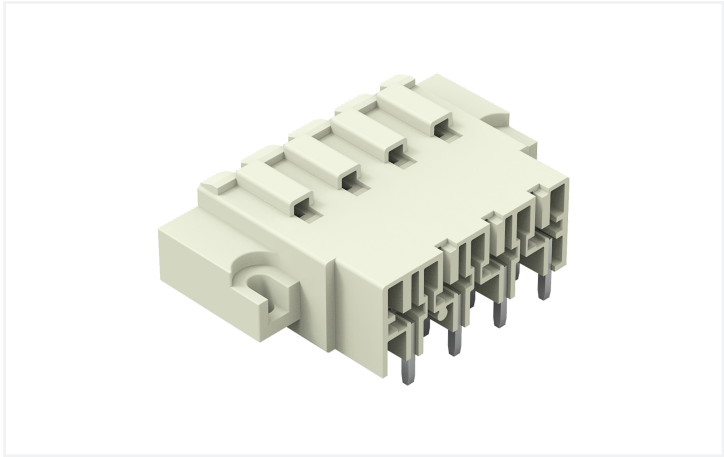
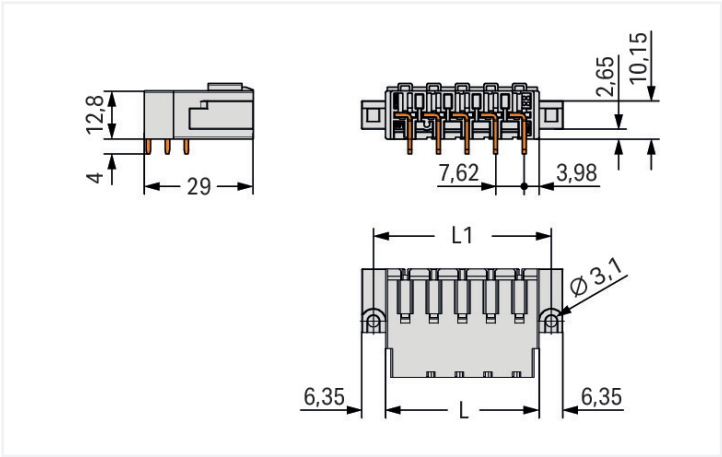




Color: ■ light gray





Dimensions in mm
L = pole no. x pin spacing + 2.9 mmL1 = L + 6.5 mm

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

This male connector (item number 831-3624/108-000) simplifies electrical installations. The dimensions are (46.1 x 18.8 x 29) mm (width x height x depth).

Tin is used for coating the contact surfaces. THT is used to solder the pcb connector.

Notes	
Safety Information	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.
Variants:	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/ .

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		UL 1059		
Use group		B	C	D
Rated voltage		-	300 V	600 V
Rated current		-	42 A	5 A
Approvals per		CSA		
Use group		B	C	D
Rated voltage		-	300 V	600 V
Rated current		-	41 A	5 A

Connection Data

Total number of potentials	4
Number of connection types	1
Number of levels	1

Connection 1

Pole number	4
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Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	46.1 mm / 1.814 inches
Height	18.8 mm / 0.74 inches
Height from the surface	14.8 mm / 0.583 inches
Depth	29 mm / 1.142 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	0 °
Locking of plug-in connection	Threaded flange

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	0.228 MJ
Weight	13.6 g

Environmental requirements

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

Environmental Testing

Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data

PU (SPU)	24 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966089974
Customs tariff number	85366930000



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

Environmental Product Compliance	
CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,No Exemption
SCIP notification number (Austria)	890ceb92-e9e0-4cc1-85ad-89796614887c
SCIP notification number (Belgium)	2cac6024-0e53-433f-94ed-b7e302cfe971
SCIP notification number (Bulgaria)	19f0fbca-a002-4127-a896-235eab59c4fe
SCIP notification number (Czech Republic)	f7227c32-0464-4cbb-b4e4-211d05a89cda
SCIP notification number (Denmark)	27b4d791-bbfc-41ed-81e6-878b91a6dbd9
SCIP notification number (Finland)	e453bcff-dcb0-45b9-81e7-d2caa240aec1
SCIP notification number (France)	236eea8a-6d7f-4d8c-9efe-b19ac610c9ac
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SCIP notification number (Hungary)	6d4ecee5-f859-4e2e-a332-8e7214c5aeb8
SCIP notification number (Italy)	76dbfc3f-2625-4aeb-a39d-f9d4a5c5d875
SCIP notification number (Netherlands)	05141a49-3001-4c0b-bfc0-7355f8bfdc03
SCIP notification number (Poland)	0989400b-d31e-4527-9374-883981795899
SCIP notification number (Romania)	3b06bcec-e6a6-438e-9ae2-5996c2e7f59d
SCIP notification number (Sweden)	ac1e9418-0aa5-4e47-a528-adad4b972abe

Approvals / Certificates					
General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-61360/M1	Railway WAGO GmbH & Co. KG	-	Railway Ready
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-116057			
UL Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0			

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 831-3624/108-000	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data
2D/3D Models 831-3624/108-000



CAE data
ZUKEN Portal 831-3624/108-000



PCB Design

Symbol and Footprint via SamacSys 831-3624/108-000
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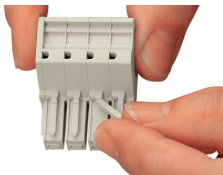


Symbol and Footprint via Ultra Librarian 831-3624/108-000

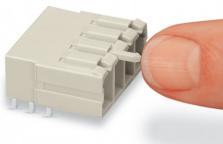


Installation Notes

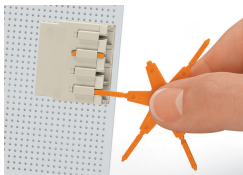
Coding



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.