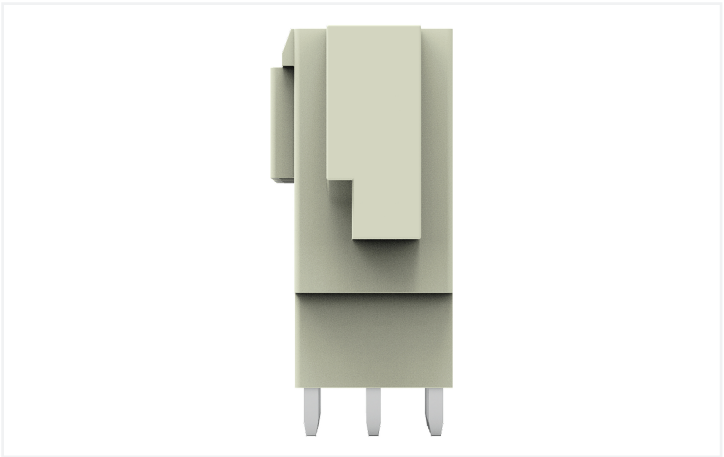
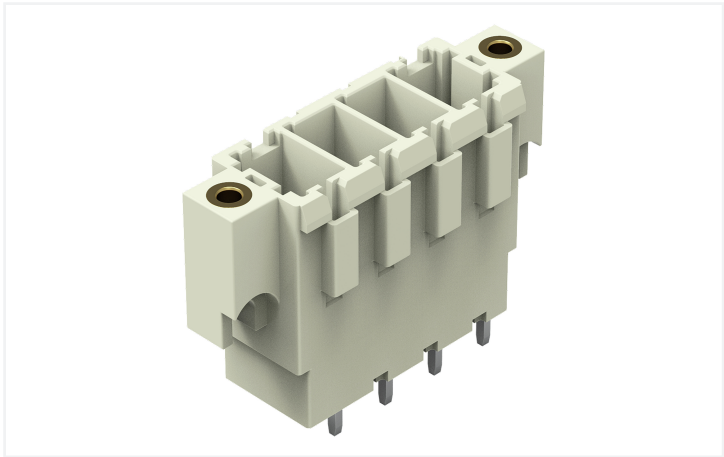
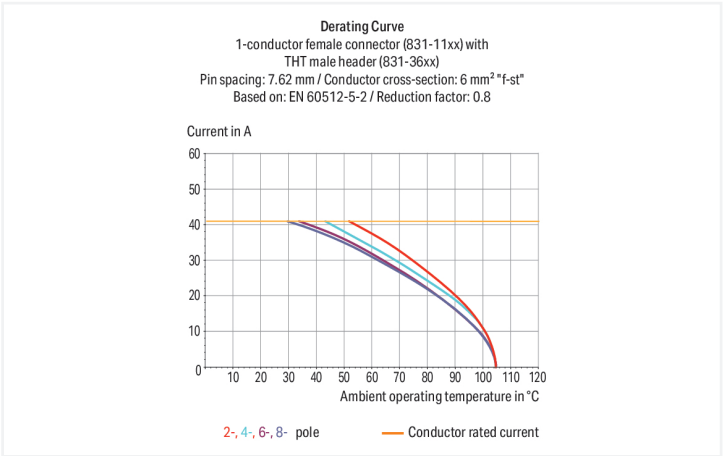
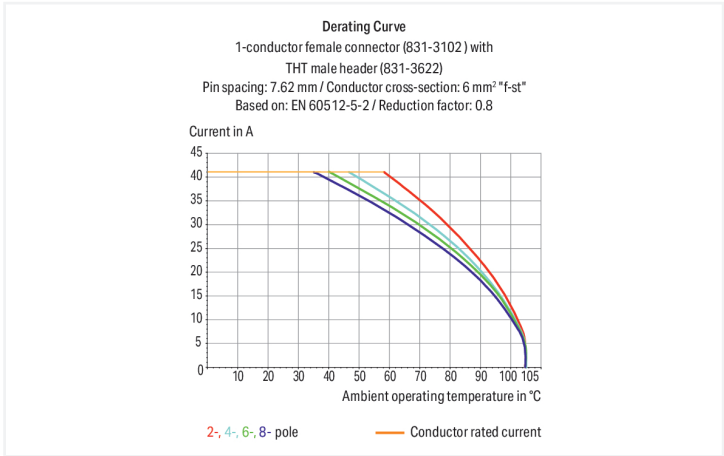
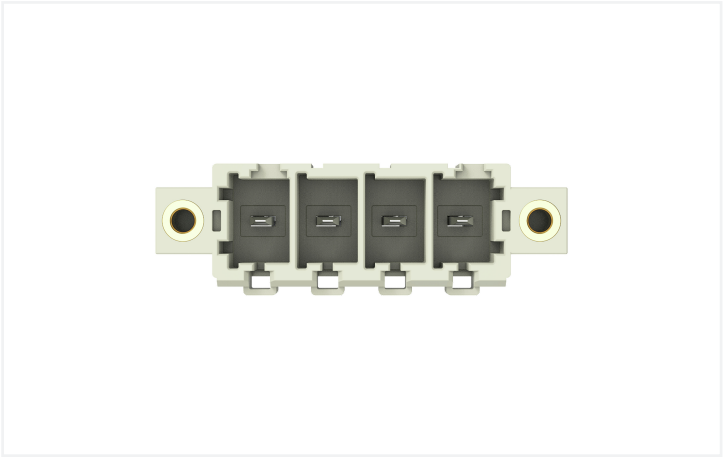
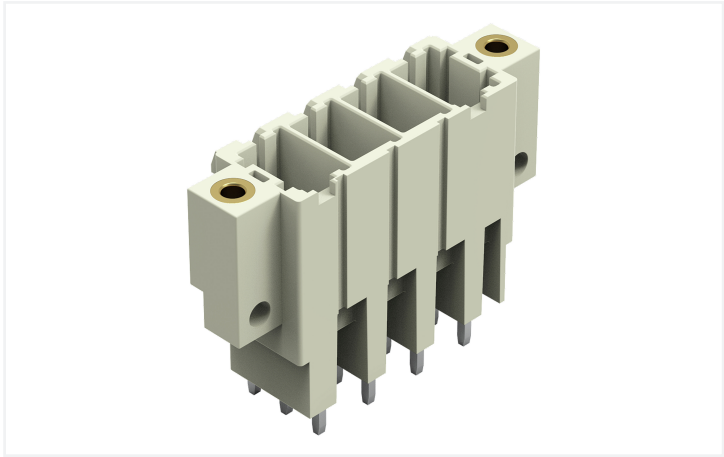
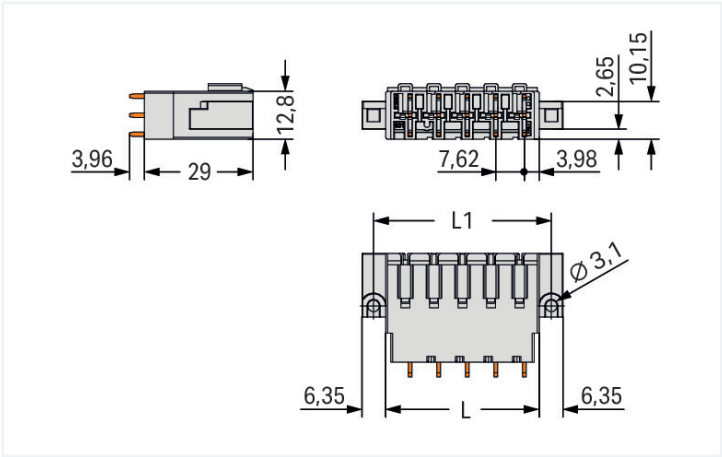




Color: ■ light gray





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

Male connector, 831 Series, light gray

Our male connector (item number 831-3604/108-000) ensures effortless electrical installations. The item's dimensions are (46.1 x 33 x 14.8) mm (width x height x depth).

The contact surface is coated with tin. 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			Approvals per	
		UL 1059				
Overvoltage category	III	III	II	Use group	B	C
Pollution degree	3	2	2	Rated voltage	-	300 V
Nominal voltage	500 V	630 V	1000 V	Rated current	-	42 A
Rated impulse withstand voltage	6 kV	6 kV	6 kV			5 A
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	



Connection Data		
Total number of potentials	4	Connection 1
Number of connection types	1	
Number of levels	1	
		Pole number 4

Physical data		
Pin spacing	7.62 mm / 0.3 inches	
Width	46.1 mm / 1.814 inches	
Height	33 mm / 1.299 inches	
Height from the surface	29 mm / 1.142 inches	
Depth	14.8 mm / 0.583 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	90 °	
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	14.4 g	



Environmental requirements			
Limit temperature range	-60 ... +105 °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 f₁ = 5 Hz to f₂ = 150 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 f₁ = 5 Hz to f₂ = 150 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	
Processing temperature	-35 ... +60 °C		
Commercial data			
PU (SPU)	24 pcs		
Packaging type	Box		
Country of origin	PL		
GTIN	4066966090918		
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)	fb719135-5ade-4d84-b033-411a4833f644
SCIP notification number (Belgium)	412d1b18-5d59-4195-9d11-7ccc8e134581
SCIP notification number (Bulgaria)	ae81137e-7991-416b-875d-8a3ec493d606
SCIP notification number (Czech Republic)	d924e6bb-e956-4747-ad68-775fee535d20
SCIP notification number (Denmark)	40b121c6-dfeb-4ba7-9eab-103956edb5e5
SCIP notification number (Finland)	6f9236b2-e622-4b48-93d8-37aaa9c3e25c
SCIP notification number (France)	901566af-26b5-497f-8a89-ae87afbeeb07
SCIP notification number (Germany)	0edc6eac-37e3-4c40-b5c3-64ecb9f01c62
SCIP notification number (Hungary)	9b5a1b53-8d3c-4a35-bcdd-48d97bca7cc9
SCIP notification number (Italy)	223189b1-5290-4127-b3d0-fbe1daf027a3
SCIP notification number (Netherlands)	465059e4-17dc-447d-9823-bd4899e8a6a6
SCIP notification number (Poland)	d4aa98ca-1170-4691-9982-99eb7c73aec8
SCIP notification number (Romania)	5213ea6a-aafd-4479-b0ae-d46d2e279039
SCIP notification number (Sweden)	8538da89-8645-42e7-a096-73a58f578f21

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			
UR Underwriters Laboratories Inc.	UL 1059	UL-US-2426356-0			

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 831-3604/108-000	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

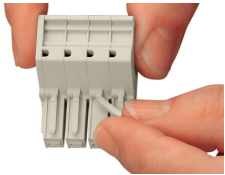
CAD data	
2D/3D Models 831-3604/108-000	

CAE data	
ZUKEN Portal 831-3604/108-000	

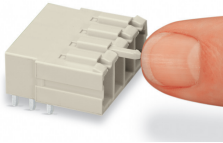
PCB Design	
Symbol and Footprint via SamacSys 831-3604/108-000	
Symbol and Footprint via Ultra Librarian 831-3604/108-000	

Installation Notes

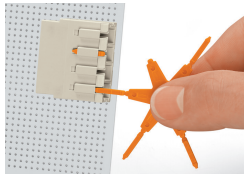
Coding



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.