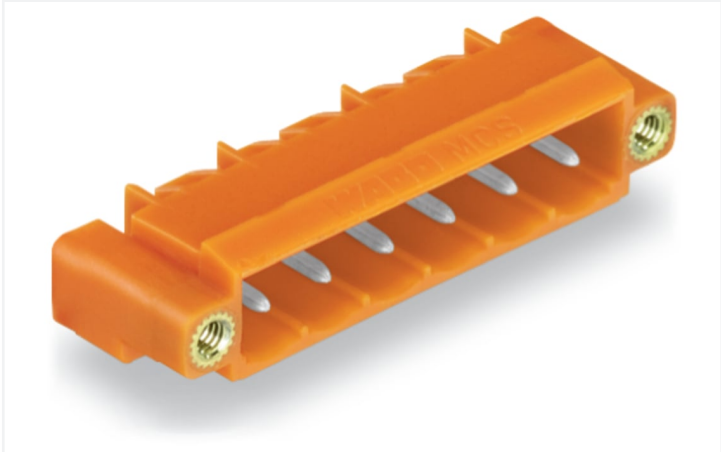
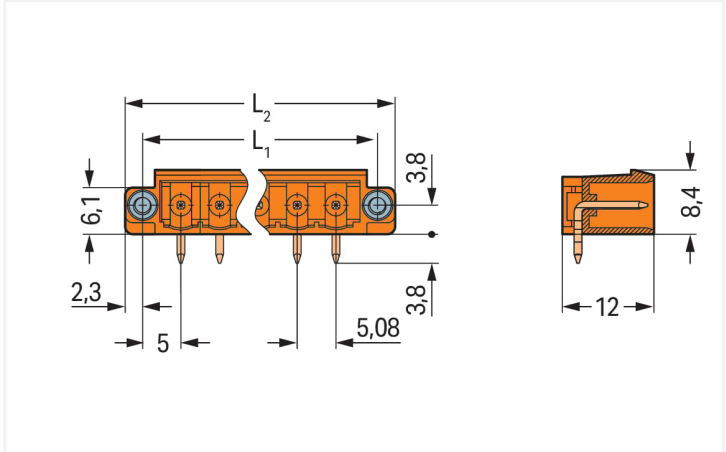


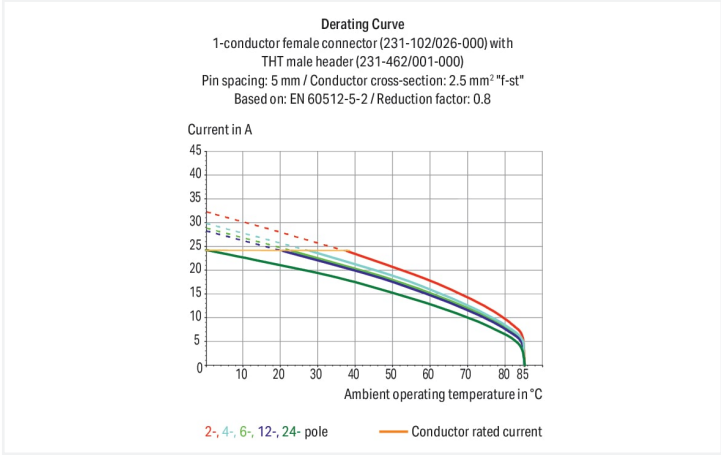


Color: ■ orange

Similar to illustration



Dimensions in mm
L1 = (pole no. x pin spacing) + 5.4 mm
L2 = (pole no. x pin spacing) + 10 mm



- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- With coding fingers

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 3.8 mm pin projection for male headers with straight solder pins Gold-plated or partially gold-plated contact surfaces 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	D
Pollution degree	3	2	2	Rated voltage	300 V	-	300 V
Nominal voltage	250 V	320 V	630 V	Rated current	15 A	-	10 A
Rated surge voltage	4 kV	4 kV	4 kV				
Rated current	16 A	16 A	16 A				

Approvals per UL 1977		Approvals per CSA			
Rated voltage	600 V	Use group	B	C	D
Rated current	15 A	Rated voltage	300 V	-	300 V
		Rated current	15 A	-	10 A

Connection data

Total number of potentials	5	Connection 1	
Number of connection types	1	Pole number	5
Number of levels	1		

Physical data

Pin spacing	5.08 mm / 0.2 inches
Width	35.4 mm / 1.394 inches
Height	12.2 mm / 0.48 inches
Height from the surface	8.4 mm / 0.331 inches
Depth	12 mm / 0.472 inches
Solder pin length	3.8 mm
Solder pin dimensions	1.2 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	No
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	1



Material data	
Note (material data)	Information on material specifications can be found here
Color	orange
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	0.042 MJ
Weight	2.7 g

Environmental requirements	
Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C
Environmental Testing (Environmental Conditions)	
Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Installation location	Service life test, Category 1, Class A/B
Function test with noise-like vibration	Test passed according to Section 8 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)
Test duration per axis	10 min. 5 h
Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
Monitoring for contact faults/interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like vibration	Test passed according to Section 9 of the standard
Extended test scope: Monitoring for contact faults/interruptions	Passed Passed
Extended test scope: Voltage drop measurement before and after each axis	Passed Passed
Shock test	Test passed according to Section 10 of the standard
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed



Commercial data		
Product Group	3 (Multi Conn. System)	
eCl@ss 10.0	27-44-04-02	
eCl@ss 9.0	27-44-04-02	
ETIM 9.0	EC002637	
ETIM 8.0	EC002637	
PU (SPU)	100 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4045454843748	
Customs tariff number	85366930000	

Environmental Product Compliance		
CAS-No.	7439-92-1	
REACH Candidate List Substance	Lead	
RoHS Compliance Status	Compliant,With Exemption	
RoHS Exemption	6(c)	
SCIP notification number (Austria)	83b787cf-be48-419e-aed9-09553825c6dd	
SCIP notification number (Belgium)	fa207ed8-e83c-4102-bd48-5589b86c67c3	
SCIP notification number (Bulgaria)	38c90b83-ff0f-420b-8958-3d154eb8a4df	
SCIP notification number (Czech Republic)	9f2d28b9-35c5-4cbf-a24b-1688335a28a7	
SCIP notification number (Denmark)	3bd81b5f-7e27-402c-8c7d-23c4ed856c2c	
SCIP notification number (Finland)	12e9fb4d-c5d2-4b48-9d66-339ac95fd241	
SCIP notification number (France)	500820b8-2b5e-44ca-be84-c1c75f43df62	
SCIP notification number (Germany)	08887042-badf-474a-ad3e-4ef242fda892	
SCIP notification number (Hungary)	c942c610-a589-4679-b6ca-de8d631e8c34	
SCIP notification number (Italy)	78bd2c05-a3ff-4a40-85b0-ebd28c6c6034	
SCIP notification number (Netherlands)	c7b89090-3882-49dd-bf31-0ad205e58f1e	
SCIP notification number (Poland)	672466aa-1d29-44ae-970d-3d084ff0643e	
SCIP notification number (Romania)	24245a28-efac-4853-b1e7-1a83b6d792e8	
SCIP notification number (Sweden)	3991ad10-6080-4409-adba-39e70e626c89	

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
231-565/108-000

↓

Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

↓



CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 231-565/108-000	ZUKEN Portal 231-565/108-000

PCB Design	
Symbol and Footprint via SamacSys 231-565/108-000	↓
Symbol and Footprint via Ultra Librarian 231-565/108-000	↓

1 Compatible Products
1.1 System counterpart
1.1.1 Female connector/socket



Item No.: 231-305/107-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 5-pole; Screw flange; 2,50 mm²; orange

1.2 Optional Accessories
1.2.1 Coding
1.2.1.1 Coding



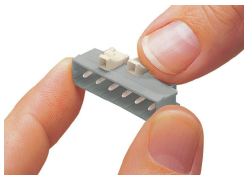
Item No.: 231-129
Coding key; snap-on type; light gray

1.2.1.2 Intermediate plate



Item No.: 231-500
Spacer; for formation of groups; light gray

Installation Notes
Coding



Coding a male header – fitting coding key(s).

