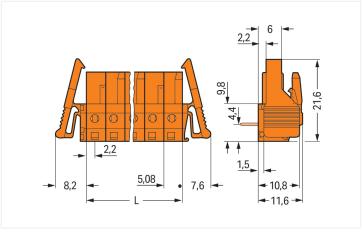
THT female header; angled; Pin spacing 5.08 mm; 12-pole; Locking lever; 0.6 x 1.0

mm solder pin; orange

https://www.wago.com/232-272/039-000





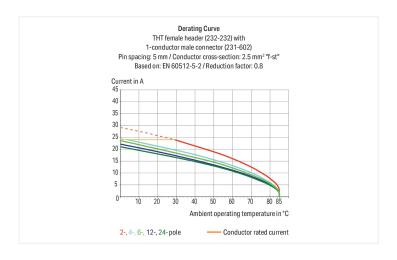


Dimensions in mm

L = pole no. x pin spacing

Distance to first solder pin: 2.2 mm

2- to 3-pole female connectors - one latch only



- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- · With coding fingers

N	o	t	e	s

Safety Information

Variants:

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.

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/.

# Data Sheet | Item Number: 232-272/039-000 https://www.wago.com/232-272/039-000



Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	12 A	12 A	12 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per	UL 1977
Rated voltage	600 V
Rated current	15 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data		
Clamping units	12	
Total number of potentials	12	
Number of connection types	1	
Number of levels	1	

Connection 1	
Pole number	12

Physical data	
Pin spacing	5.08 mm / 0.2 inches
Width	76.76 mm / 3.022 inches
Height	16.6 mm / 0.654 inches
Height from the surface	11.6 mm / 0.457 inches
Depth	18.25 mm / 0.719 inches
Solder pin length	5 mm
Solder pin dimensions	0.6 x 1 mm
Drilled hole diameter with tolerance	1.3 <sup>(+0.1)</sup> mm

Mechanical data		
Variable coding	Yes	
Anti-rotation protection	Yes	

Plug-in connection	
Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	0°
Locking of plug-in connection	Locking lever

# Data Sheet | Item Number: 232-272/039-000 https://www.wago.com/232-272/039-000



PCB contact	
PCB contact	THT
Solder pin arrangement	over the entire female 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	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact Plating	Tin
Fire load	0.209 MJ
Weight	11.3 g

temperature range -60 +85 °C		Environmental Testing (Enviro	ing (Environmental Conditions)	
ocessing temperature	-35 +60 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-	
		Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011	
		Spectrum/Installation location	Service life test, Category 1, Class A/	
		Function test with noise-like vibratio	Test passed according to Section 8 o the standard	
		Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$	
		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/interrulons	oti- Passed	
		Voltage drop measurement before a after each axis	nd Passed	
		Simulated service life test through in ased levels of noise-like vibration	cre- Test passed according to Section 9 of the standard	
		Extended test scope: Monitoring for tact faults/interruptions	con- Passed Passed	
		Extended test scope: Voltage drop n surement before and after each axis	ea- Passed Passed	
		Shock test	Test passed according to Section 10 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	

https://www.wago.com/232-272/039-000



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)	25 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918625616
Customs tariff number	85366990990

## **Environmental Product Compliance**

RoHS Compliance Status Compliant,No Exemption

# Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
UL UL International Germany GmbH	UL 1977	E45171
UR Underwriters Laboratories	UL 1059	E45172

## Declarations of conformity and manufacturer's declarations



Approvai	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

#### Approvals for marine applications



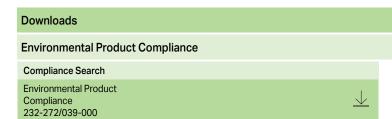




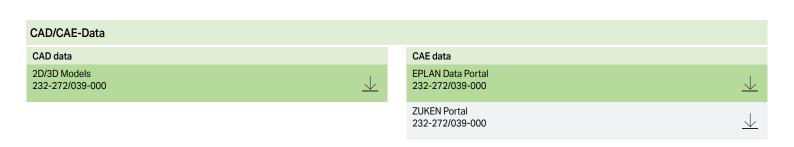
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG15869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z

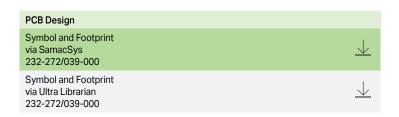
https://www.wago.com/232-272/039-000





# Documentation Additional Information Technical Section pdf 2027.26 KB





## 1 Compatible Products

#### 1.1 System counterpart

# 1.1.1 Male connector/plug



Item No.: 231-642
1-conductor male connector; CAGE
CLAMP®; 2.5 mm²; Pin spacing 5.08 mm;
12-pole; 2,50 mm²; orange

https://www.wago.com/232-272/039-000



# 1.2 Optional Accessories

#### 1.2.1 Test and measurement

#### 1.2.1.1 Testing accessories



Item No.: 231-661
Test plugs for fema

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

Current addresses can be found at::  $\underline{www.wago.com}$