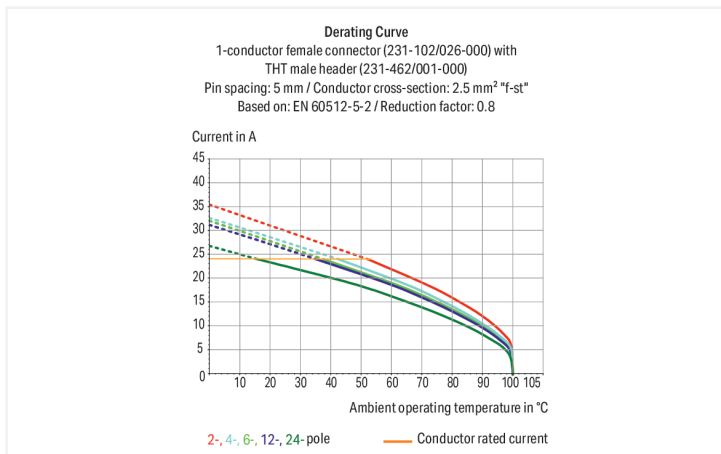


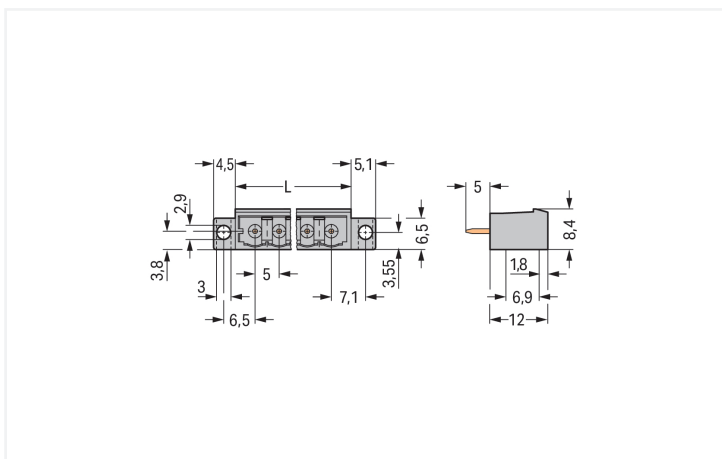
Data Sheet | Item Number: 231-162/040-000

THT male header; 1.2 x 1.2 mm solder pin; straight; clamping collar; Pin spacing 5 mm; 2-pole; gray

<https://www.wago.com/231-162/040-000>



Color: ■ gray



Dimensions in mm

L = (pole no. - 1) x pin spacing + 8.2 mm

Male connector, 231 Series, solder pin dimensions 1.2 x 1.2 mm

Our male connector (item number 231-162/040-000) ensures effortless electrical installations. The dimensions are (22.8 x 17 x 8.4) 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
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		
	III	III	II
Overtoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	320 V	630 V
Rated impulse withstand voltage	4 kV	4 kV	4 kV
Rated current	16 A	16 A	16 A

Approvals per	UL 1059		
	B	C	D
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	20 A	-	10 A

Ratings

Approvals per	UL 1977		
	B	C	D
Rated voltage	300 V	-	300 V
Rated current	20 A	-	10 A

Approvals per

Approvals per	CSA		
	B	C	D
Rated voltage	300 V	-	300 V
Rated current	20 A	-	10 A

Connection Data

Total number of potentials	2
Number of connection types	1
Number of levels	1

Connection 1

Pole number	2
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Physical data

Pin spacing	5 mm / 0.197 inches
Width	22.8 mm / 0.898 inches
Height	17 mm / 0.669 inches
Height from the surface	12 mm / 0.472 inches
Depth	8.4 mm / 0.331 inches
Solder pin length	5 mm
Solder pin dimensions	1.2 x 1.2 mm
!	1.7 ^(+0.1) mm

Mechanical data

Variable coding	Yes
Mounting type	Mounting flange
Mounting type	Feed-through mounting Panel mounting
Anti-rotation protection	Yes
Suitable for through-panel applications	Yes

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90 °

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	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	0.025 MJ
Weight	1.2 g

Environmental requirements

Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C

Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	200 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918928342
Customs tariff number	85366930000

Product Classification

UNSPSC	39121409
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 9.0	EC002637
ETIM 10.0	EC002637
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-113351
CSA DEKRA Certification B.V.	C22.2	LR 18677-25
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-130478 REV.1
UL Underwriters Laboratories Inc.	UL 1977	E45171
UL Underwriters Laboratories Inc.	UL 1059	E45172

Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	24-0095975-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/E0 BV
DNV DNV GL SE	-	TAE000016Z
PRS Polski Rejestr Statków	-	TE/1095/880590/23

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 231-162/040-000	↓

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 231-162/040-000	↓

CAE data	
EPLAN Data Portal 231-162/040-000	↓
ZUKEN Portal 231-162/040-000	↓

PCB Design	
Symbol and Footprint via SamacSys 231-162/040-000	↓
Symbol and Footprint via Ultra Librarian 231-162/040-000	↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 231-102/026-000
 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 2-pole; gray

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

1.2.2 Installation

1.2.2.1 Mounting accessories



Item No.: 231-295
 Screw with nut



Item No.: 231-195
 Screw with nut; M2x12; for fixing element



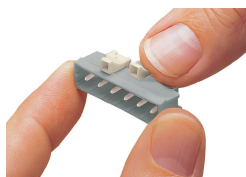
Item No.: 209-147
 Self-tapping screw



Item No.: 231-194
 Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

Installation Notes

Coding



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