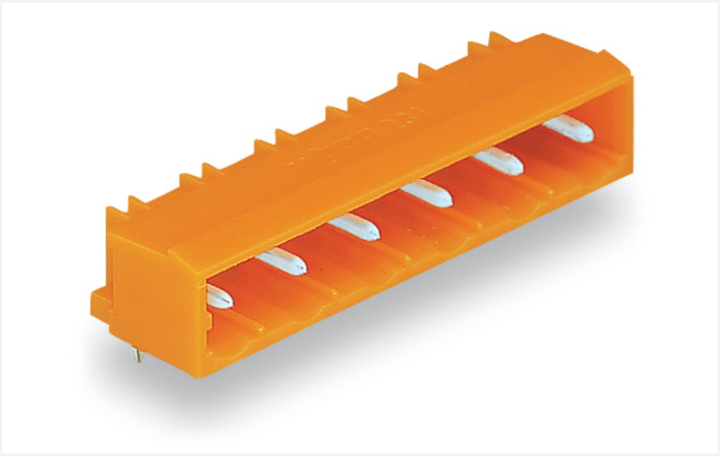
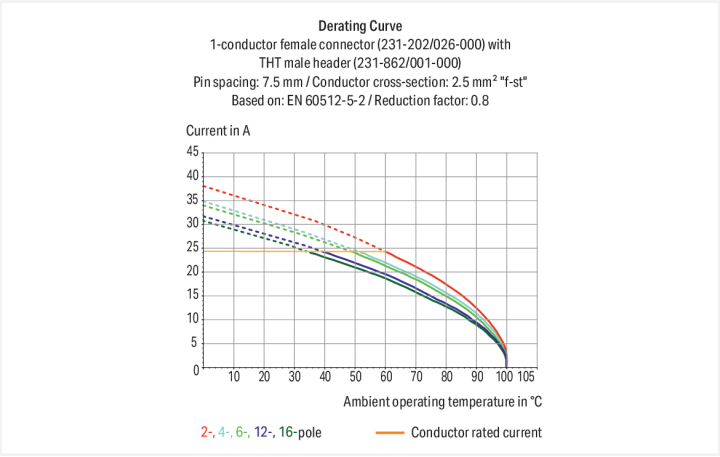
Data Sheet | Item Number: 231-942/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 7.62 mm; 12-pole; orange

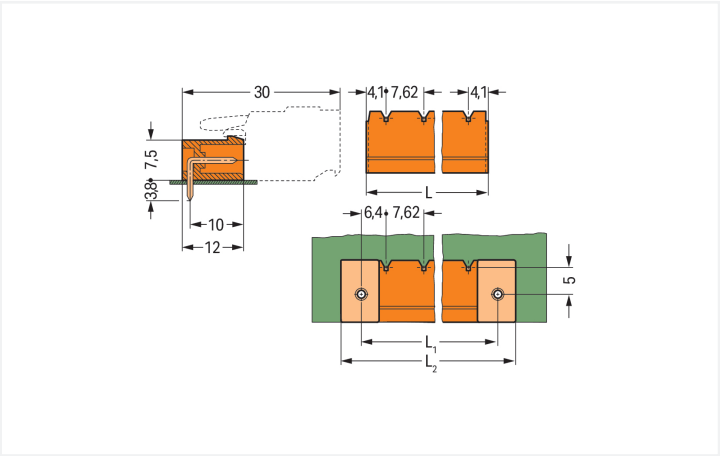
https://www.wago.com/231-942/001-000





Color: orange

Similar to illustration



Dimensions in mm
L = (pole no. – 1) x pin spacing + 8.2 mmL1 = L + 5 mmL2 = L1 + 7.4 mm

Male connector, 231 Series, orange

This male connector (item number 231-942/001-000) simplifies electrical installations. The item's dimensions are (92.02 x 12.2 x 12) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THT soldering.

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		
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	12 A	12 A	12 A

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

Ratings per UL 1977	
Rated current UL 1977	10 A

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

Connection Data

Total number of potentials	12
Number of connection types	1
Number of levels	1

Connection 1	
Pole number	12

Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	92.02 mm / 3.623 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 x 1 mm
Drilled hole diameter	1.4 $^{(+0.1)}$ 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 °

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Continued on next page

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	0.083 MJ
Weight	4.6 g

Environmental requirements

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

Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918868709
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

Approvals / Certificates

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	24-0095975-PDA

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
231-942/001-000

Documentation

Additional Information

Technical Section 03.04.2019 pdf 2027.26 KB

CAD/CAE-Data

CAD data

2D/3D Models
231-942/001-000

CAE data

EPLAN Data Portal
231-942/001-000

ZUKEN Portal
231-942/001-000

PCB Design

Symbol and Footprint via SamacSys
231-942/001-000

Symbol and Footprint via Ultra Librarian
231-942/001-000

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 732-132/026-000
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; orange



Item No.: 231-712/027-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; orange



Item No.: 231-712/031-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; orange



Item No.: 231-712/037-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; orange



Item No.: 231-712/026-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; orange



Item No.: 2231-712/031-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; clamping collar; orange



Item No.: 2231-712/037-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; orange



Item No.: 2231-712/026-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; orange



Item No.: 231-2712/037-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; Lateral locking levers; orange



Item No.: 231-2712/026-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 12-pole; with integrated end plate; orange

Continued on next page

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 231-130
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

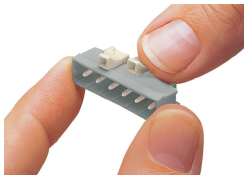
1.2.2.1 Mounting accessories



Item No.: 231-393
Locking device; for male connectors; 1 part; orange

Installation Notes

Coding



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