Data Sheet | Item Number: 231-842/001-000

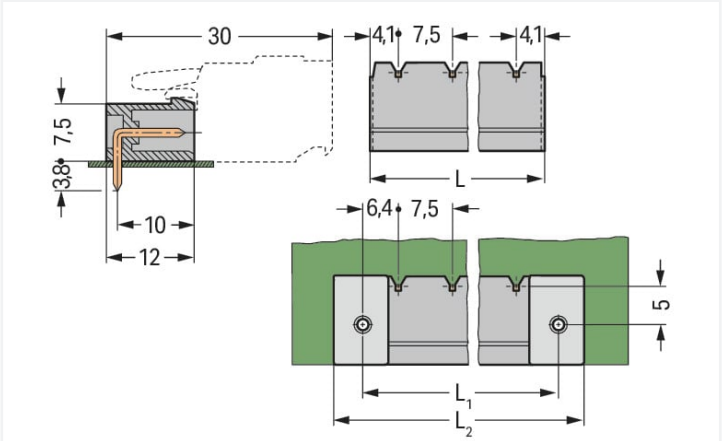
THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 7.5 mm; 12-pole; gray

https://www.wago.com/231-842/001-000

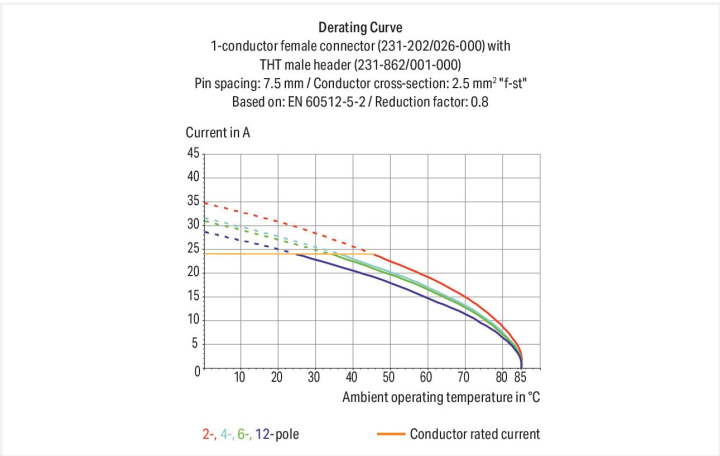


Color: gray

Similar to illustration



Dimensions in mm
L = (pole no. – 1) x pin spacing + 8.2 mm
L1 = L + 5 mm
L2 = L1 + 7.4 mm



- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 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		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	500 V	630 V	1000 V
Rated surge 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

Approvals per	UL 1977
Rated voltage	600 V
Rated current	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	7.5 mm / 0.295 inches
Width	90.7 mm / 3.571 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 with tolerance	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	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E_{Cu})
Contact plating	Tin
Fire load	0.198 MJ
Weight	4.8 g

Environmental requirements

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

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 8.0	EC002637
ETIM 7.0	EC002637
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918868310
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UR Underwriters Laboratories Inc.	UL 1977	E 45171
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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

 Continued on next page

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
231-842/001-000

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2010.85 KB

CAD/CAE-Data

CAD data

2D/3D Models
231-842/001-000

CAE data

EPLAN Data Portal
231-842/001-000

ZUKEN Portal
231-842/001-000

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 732-112/026-000
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 2,50 mm²; gray



Item No.: 231-212/026-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 2,50 mm²; gray



Item No.: 231-212/027-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; clamping collar; 2,50 mm²; gray



Item No.: 231-212/031-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; clamping collar; 2,50 mm²; gray



Item No.: 231-212/037-000
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; Lateral locking levers; 2,50 mm²; gray



Item No.: 2231-212/026-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; 2,50 mm²; gray



Item No.: 2231-212/031-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; clamping collar; 2,50 mm²; gray



Item No.: 2231-212/037-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; Lateral locking levers; 2,50 mm²; gray

Continued on next page

1.1.1 Female connector/socket



Item No.: 231-2212/037-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; Lateral locking levers; 2,50 mm²; gray



Item No.: 231-2212/026-000
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 12-pole; with integrated end plate; 2,50 mm²; 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

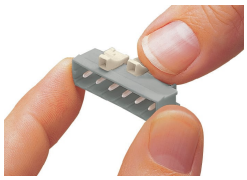
1.2.2.1 Mounting accessories



Item No.: 231-193
Locking device; for male connectors; 1 part; gray

Installation Notes

Coding



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