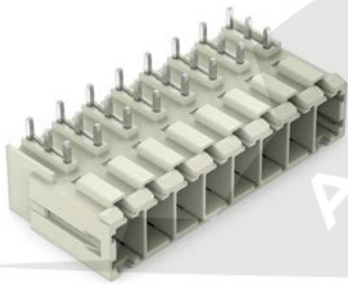


Data sheet | Item number: 831-3648

THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 8-pole; light gray

www.wago.com/831-3648



Color: —

Derating Curve

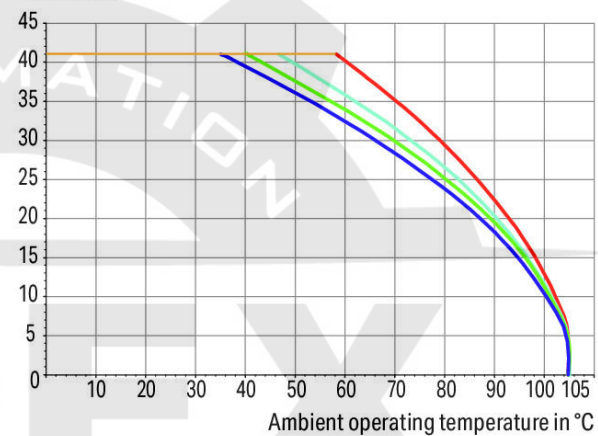
1-conductor female connector (831-3102) with

THT male header (831-3622)

Pin spacing: 7.62 mm / Conductor cross-section: 6 mm² "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



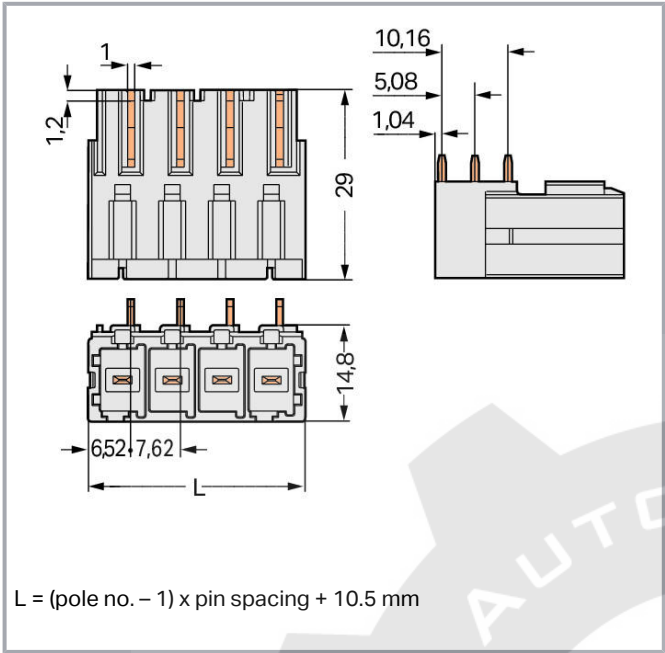
2-, 4-, 6-, 8- pole

— Conductor rated current

Subject to changes. Please also observe the further product documentation!

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Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismating
- Coding via coding fingers

Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV

Subject to changes. Please also observe the further product documentation!

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Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated current	41 A
Legend (ratings)	(III / 2) \triangle Overvoltage category III / Pollution degree 2

UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	42 A
Rated voltage UL (Use Group D)	600 V
Rated current UL (Use Group D)	5 A

CSA Approvals

Approvals per	CSA
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	41 A
Rated voltage CSA (Use Group D)	600 V
Rated current CSA (Use Group D)	5 A

Connection data

Pole No.	8
Total number of potentials	8
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	7.62 mm / 0.3 inch
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter with tolerance	1.7 (+0.1) mm

Plug-in connection

Contact type (pluggable connector)	Male header
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	180°

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Locking of plug-in connection	Without
-------------------------------	---------

PCB contact

PCB Contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3

Material data

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Weight	22.4 g

Environmental requirements


Limit temperature range	-60 ... +105 °C
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Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055144081978
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals


Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-116057

Ship Approvals

Subject to changes. Please also observe the further product documentation!

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Logo	Approval	Additional Approval Text	Certificate name
	LR Lloyds Register	IEC 61984	96/20035 (E5)

Counterpart

	Item no.831-1108 1-conductor female connector; 100% protected against mismatching; lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-1108
	Item no.831-1108/037-000 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-1108/037-000
	Item no.831-1108/038-000 1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-1108/038-000
	Item no.831-1108/322-000 1-conductor female connector; 100% protected against mismatching; lever; center locking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-1108/322-000
	Item no.831-3108 1-conductor female connector; 100% protected against mismatching; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-3108
	Item no.831-3108/000-9037 1-conductor female connector; 100% protected against mismatching; direct marking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-3108/000-9037
	Item no.831-3108/037-000 1-conductor female connector; 100% protected against mismatching; Locking lever; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-3108/037-000
	Item no.831-3108/037-9037 1-conductor female connector; 100% protected against mismatching; Locking lever; direct marking; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-3108/037-9037
	Item no.831-3108/136-000 1-conductor female connector; 100% protected against mismatching; Gripping plate; 10 mm ² ; Pin spacing 7.62 mm; 8-pole; 10,00 mm ² ; light gray	www.wago.com/831-3108/136-000

Subject to changes. Please also observe the further product documentation!

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Downloads Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 2.0 MB	Download
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CAD files

CAD data

2D/3D Models 831-3648	URL	Download
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CAE data

ZUKEN Portal 831-3648	URL	Download
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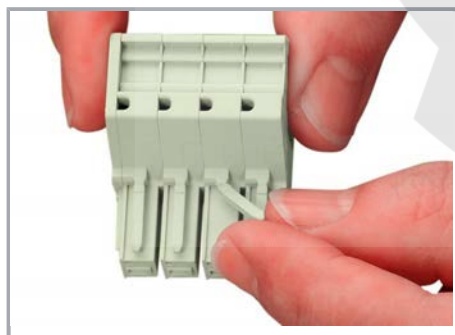
Environmental Product Compliance

Compliance Search

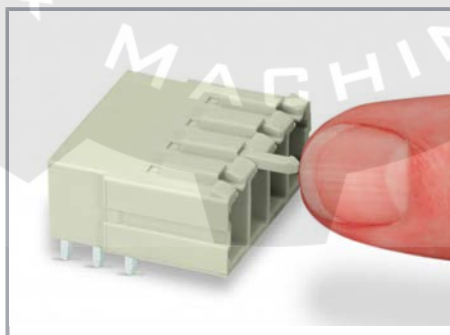
Environmental Product Compliance 831-3648 THT male header; 1.0 x 1.2 mm solder pin; angled; 100% protected against mismatching; Pin spacing 7.62 mm; 8-pole; light gray	URL	Download
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Installation Notes

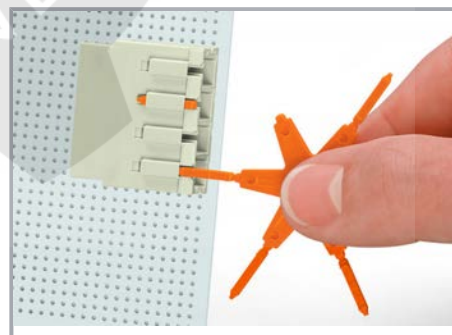
Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

Subject to changes. Please also observe the further product documentation!

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Product family

<i>MCS</i> MAXI 6

[Show all products from the family](#)



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