

**Data sheet | Item number: 769-640**

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 10-pole; gray

[www.wago.com/769-640](http://www.wago.com/769-640)



**Data**

**Electrical data**

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

WAGO GmbH & Co. KG  
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### Ratings per IEC/EN

Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	500 V
Rated impulse voltage (III/2)	4 kV
Rated current	32 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

### Connection data

Total number of potentials	10
Number of levels	1
Preceding contacts	No

### Connection 1

Pole number	10
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### Physical data

Pin spacing	5 mm / 0.197 inches
Width	53.6 mm / 2.11 inches
Height from the surface	22.2 mm / 0.874 inches
Depth	18.3 mm / 0.72 inches

### Mechanical Data

Variable coding	Yes
Mounting type	PCB
Anti-rotation protection	Yes

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	No
Mating direction to the PCB	90 °

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



## PCB contact

PCB contact	THT
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## 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
Fire load	0.259 MJ
Weight	9.8 g

## Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

## Commercial data

Product Group	18 (X-COM-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)	25 pcs
Packaging type	box
Country of origin	PL
GTIN	4044918270748
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

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

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Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL-7626
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-47799/A1
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2190419.02
	<b>CSA</b> CSA Group	C22.2	1101144
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	2190419.01
	<b>UL</b> Underwriters Laboratories Inc.	UL 1977	E 45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

#### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2

#### Optional accessories

##### Coding

Coding		
<b>Item no.: 769-435</b> Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange		<a href="http://www.wago.com/769-435">www.wago.com/769-435</a>

##### Marking accessories

Marking strip		
<b>Item no.: 210-831</b> Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white		<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
<b>Item no.: 210-833</b>		

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Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)

**Item no.: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)

**Item no.: 210-832**

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

[www.wago.com/210-832](http://www.wago.com/210-832)

**Downloads**

**Documentation**

**Bid Text**

769-640 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
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769-640 doc - Datei	2017 年10月4日	doc 25.6 kB	Download
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**Additional Information**

		pdf 2.3 MB	Download
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**CAD/CAE-Data**

**CAD data**

2D/3D Models 769-640		URL	Download
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**PCB Design**

Symbol and Footprint 769-640		URL	Download
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CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

**Supported formats:**

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation

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



- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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#### CAE data

ZUKEN Portal 769-640	<a href="#">URL</a>	<a href="#">Download</a>
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#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 769-640	<a href="#">URL</a>	<a href="#">Download</a>
THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 10-pole; gray		

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#### Installation Notes

##### Installation

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



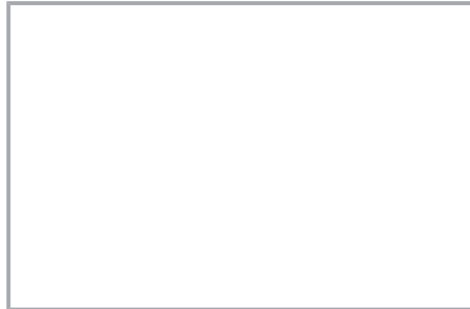
Cutout

Male headers with solder pins

### Application



Male headers with straight solder pins and 1-conductor female plugs (picture shows a relay module)

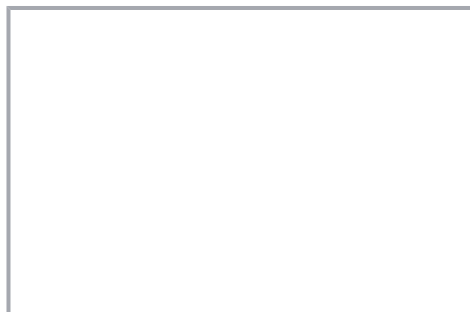


Male headers with solder pins for printed circuit boards



Pluggable PCB connection

Connection to a relay module inside the switchgear cabinet



Male headers with solder pins

Integrating PCB components into the system wiring.

### Product family

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



**X-COM**

[Show all products from the family](#)

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