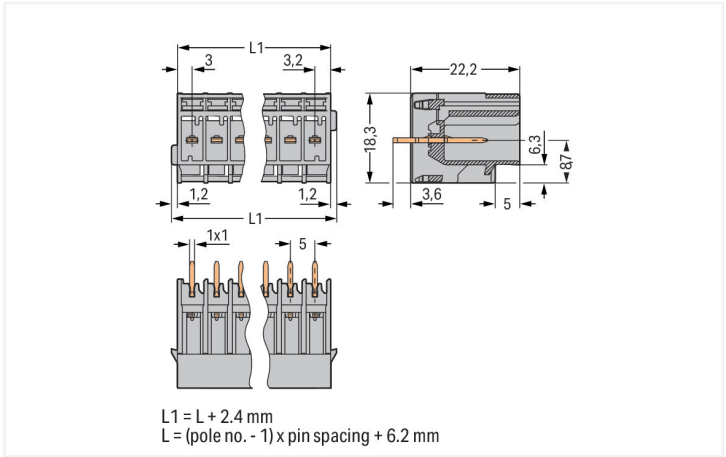


Data Sheet | Item Number: 769-644
THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 14-pole; gray
<https://www.wago.com/769-644>



Color: ■ gray

Similar to illustration



Dimensions in mm

Male connector, 769 Series, with 5 mm pin spacing

Our male connector (item number 769-644) simplifies electrical installations.

THT is used to solder the pcb connector.

Electrical data

Ratings per IEC/EN	
Nominal voltage (III/3)	250 V
Rated impulse withstand voltage (III / 3)	4 kV
Rated voltage (III/2)	500 V
Rated impulse withstand 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	14
Number of levels	1
Preceding contacts	No

Connection 1	
Pole number	14



Physical data		
Pin spacing		5 mm / 0.197 inches
Width		73.6 mm / 2.898 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
Mating direction to the PCB		90 °

PCB contact		
PCB contact		THT

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
Fire load		0.298 MJ
Weight		14.1 g

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

Commercial data		
Product Group		18 (X-COM-System)
PU (SPU)		25 pcs
Packaging type		Box
Country of origin		PL
GTIN		4017332553506
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

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
CCA DEKRA Certification B.V.	EN 61984	2190419.02
CCA DEKRA Certification B.V.	IEC 61984	NL-47799/A1
CSA CSA Group	C22.2	1101144
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2190419.01
UL Underwriters Laboratories Inc.	UL 1059	E45172
UL Underwriters Laboratories Inc.	UL 1977	E 45171

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004428.000

Approvals for marine applications



Approval	Standard	Certificate Name
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 769-644			

Documentation

Bid Text			
769-644	19.02.2019	xml 2.96 KB	
769-644	04.10.2017	doc 25.00 KB	

CAD/CAE-Data

CAD data	
2D/3D Models 769-644	

CAE data	
ZUKEN Portal 769-644	

PCB Design	
Symbol and Footprint via SamacSys 769-644	
Symbol and Footprint via Ultra Librarian 769-644	

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



[Item No.: 769-114](#)
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; 4,00 mm²; gray



[Item No.: 769-114/021-000](#)
1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; Lateral locking levers; 4,00 mm²; gray



[Item No.: 769-134](#)
2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; 4,00 mm²; gray

1.2.1 Coding

1.2.1.1 Coding



Item No.: 769-435

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

1.2.2.1 Marking strip

Item No.: 210-833

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



Item No.: 210-831

Marking strips; on reel; 2.3 mm wide;
plain; Self-adhesive; white



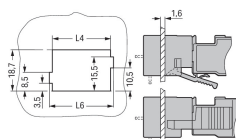
Item No.: 210-832

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

Item No.: 210-834

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

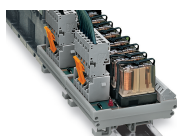
Installation



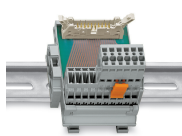
L6 = L4 + 2.6 mm
L4 = pole no. x pin spacing + 1.7 mm

Cutout
Male headers with solder pins

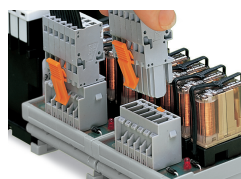
Application



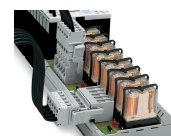
Male headers with straight solder pins and 1-conductor female plugs (picture shows a relay module)



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 sys-
tem wiring.