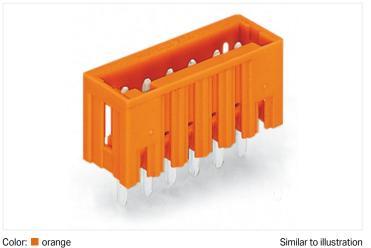
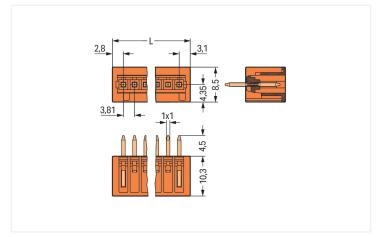
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mismating; Pin spacing 3.81 mm; 20-pole; orange

https://www.wago.com/734-250



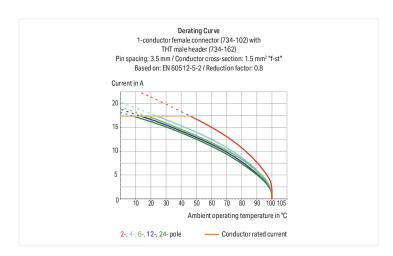




Color: ■ orange

Dimensions in mm

L = (pole no. - 1) x pin spacing + 5.9 mm



- · Horizontal or vertical PCB mounting via straight or angled solder pins
- · 100% protected against mismating; only mating halves with the same number of poles can be connected together
- Coding option available

N	o	t	е	s	
---	---	---	---	---	--

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

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	160 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	10 A	10 A	10 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Data Sheet | Item Number: 734-250 https://www.wago.com/734-250



Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Connection data		
Total number of potentials	20	Connection 1
Number of connection types	1	Pole number 20
Number of levels	1	

Physical data	
Pin spacing	3.81 mm / 0.15 inches
Width	78.29 mm / 3.082 inches
Height	14.8 mm / 0.583 inches
Height from the surface	10.3 mm / 0.406 inches
Depth	8.5 mm / 0.335 inches
Solder pin length	4.5 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	Yes
Mating direction to the PCB	90 °

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

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	orange
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.081 MJ
Weight	4.7 g



Environmental requirements

Limit temperature range $-60 \dots +100 \,^{\circ}\text{C}$ Processing temperature $-35 \dots +60 \,^{\circ}\text{C}$ **Environmental Testing (Environmental Conditions)**

Test specification Railway applications – Rolling stock – Electronic equipment

Test procedure

DIN EN 50155 (VDE 0115-200):2022-06

DIN EN 61373 (VDE 0115-0106):2011-04

Railway applications – Rolling stock equipment – Shock and vibration tests

Spectrum/Installation location Service life test, Category 1, Class A/B

Function test with noise-like vibration Test passed according to Section 8 of the standard

Frequency $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$

Acceleration 0.101g (highest test level used for all

axes)
0.572g (highest test level used for all axes)
5g (highest test level used for all axes)

Test duration per axis 10 min. 5 h

Test directions X, Y and Z axes X, Y and Z axes X, Y and Z axes X, Y and Z axes

Monitoring for contact faults/interrupti-

Voltage drop measurement before and

l Passed

after each axis
Simulated service life test through incre-

simulated service life test through increased levels of noise-like vibration

Test passed according to Section 9 of the standard

Extended test scope: Monitoring for contact faults/interruptions

Passed Passed

Extended test scope: Voltage drop measurement before and after each axis Shock test

Passed
Test passed according to Section 10 of

Shock form Half sine
Shock duration 30 ms

Vibration and shock stress for rolling stock equipment

Number of shocks per axis

Passed

3 pos. und 3 neg.

Commercial data **Product Group** 3 (Multi Conn. System) 27-44-04-02 eCl@ss 10.0 eCl@ss 9.0 27-44-04-02 ETIM 9.0 EC002637 **ETIM 8.0** EC002637 PU (SPU) 50 pcs Packaging type Box Country of origin **GTIN** 4044918848053 Customs tariff number 85366930000

https://www.wago.com/734-250



Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals





E 45171

UL 1977

Underwriters Laboratories Inc.

Declarations of conformity and manufacturer's declarations



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

Approvals for marine applications





Approval	Standard	Certificate Name
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 734-250



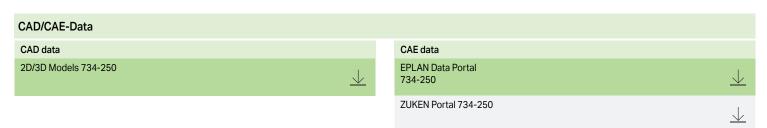
Documentation

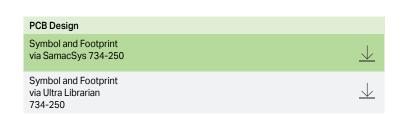
Additional Information

Technical Section pdf 03.04.2019 2027.26 KB

https://www.wago.com/734-250







1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 734-220

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; 1,50 mm²; orange



1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; Lateral locking levers; 1,50 mm²;



1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; 1,50 mm²;



Item No.: 2734-220/027-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; clamping collar; 1,50 mm²; orange



Item No.: 2734-220/031-000







1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; Lateral locking levers; 1,50 mm²; orange



THT female header; angled; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; 0.9 x 0.9 mm solder pin; orange



Item No.: 734-580/037-000

THT female header; angled; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; Locking lever; 0.9 x 0.9 mm solder pin; orange



1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin

spacing 3.81 mm; 20-pole; 100% protec-

ted against mismating; clamping collar;

Item No.: 734-520

1,50 mm²; orange

THT female header; straight; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; 0.9 x 0.9 mm solder pin; orange

Item No.: 734-520/037-000

THT female header; straight; Pin spacing 3.81 mm; 20-pole; 100% protected against mismating; Locking lever; 0.9 x 0.9 mm solder pin; orange

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding





Item No.: 734-159

Coding key; to be snapped above top level; black

Item No.: 734-130

Coding key; to be snapped above top level; white

https://www.wago.com/734-250



Installation Notes

Coding



Coding a male header – fitting coding key

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$