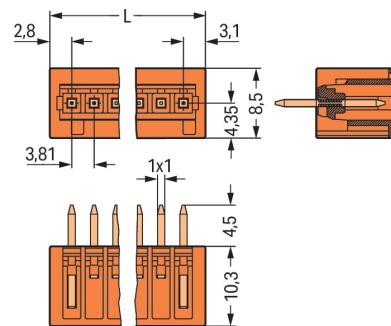




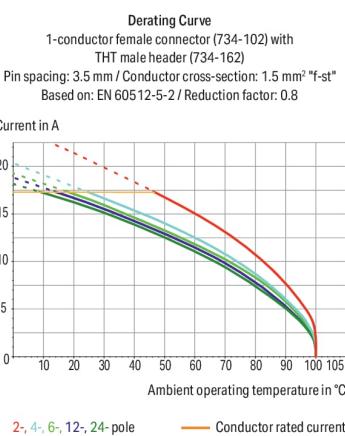
Color: ■ orange

Similar to illustration



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

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

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			Approvals per UL 1059		
Overvoltage category	III	III	Use group	B	C
Pollution degree	3	2	Rated voltage	300 V	-
Nominal voltage	160 V	160 V	Rated current	10 A	-
Rated surge voltage	2.5 kV	2.5 kV			10 A
Rated current	10 A	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	4
Number of connection types	1
Number of levels	1

Connection 1

Pole number	4
-------------	---

Physical data

Pin spacing	3.81 mm / 0.15 inches
Width	17.33 mm / 0.682 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	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Material data

Note (material data)	Information on material specifications can be found here
Color	orange
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Electrolytic copper (E_{Cu})
Contact Plating	Tin
Fire load	0.019 MJ
Weight	1.1 g

Environmental requirements

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

Environmental Testing (Environmental Conditions)

Test specification	DIN EN 50155 (VDE 0115-200):2022-06
Railway applications – Rolling stock – Electronic equipment	
Test procedure	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
Monitoring for contact faults/interruptions	Passed
Voltage drop measurement before and after each axis	Passed
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	Passed Passed
Shock test	Test passed according to Section 10 of the standard
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed

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 9.0	EC002637
ETIM 8.0	EC002637
PU (SPU)	200 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918847865
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals



Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	EN 61984	NL-54190	Railway WAGO GmbH & Co. KG	-	Railway Ready
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-105522			
UL Underwriters Laboratories Inc.	UL 1977	E 45171			

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 734-234

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	
-------------------	------------	-------------------	---

CAD/CAE-Data

CAD data

2D/3D Models 734-234



CAE data

EPLAN Data Portal
734-234

ZUKEN Portal 734-234



PCB Design

Symbol and Footprint
via SamacSys 734-234Symbol and Footprint
via Ultra Librarian
734-234

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket

[Item No.: 734-204](#)

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; 1,50 mm²; orange

[Item No.: 734-204/037-000](#)

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; Lateral locking levers; 1,50 mm²; orange

[Item No.: 2734-204](#)

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; 1,50 mm²; orange

[Item No.: 2734-204/031-000](#)

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; clamping collar; 1,50 mm²; orange

[Item No.: 2734-204/037-000](#)

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; Lateral locking levers; 1,50 mm²; orange

[Item No.: 734-564](#)

THT female header; angled; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; 0.9 x 0.9 mm solder pin; orange

[Item No.: 734-564/037-000](#)

THT female header; angled; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; Locking lever; 0.9 x 0.9 mm solder pin; orange

[Item No.: 734-504](#)

THT female header; straight; Pin spacing 3.81 mm; 4-pole; 100% protected against mismating; Locking lever; 0.9 x 0.9 mm solder pin; orange

[Item No.: 734-504/037-000](#)

THT female header; straight; Pin spacing 3.81 mm; 4-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](#)

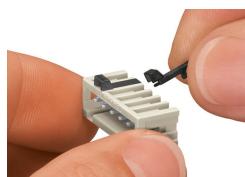
Coding key; to be snapped above top level; black

[Item No.: 734-130](#)

Coding key; to be snapped above top level; white

Installation Notes

Coding



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