

Data Sheet | Item Number: 734-235

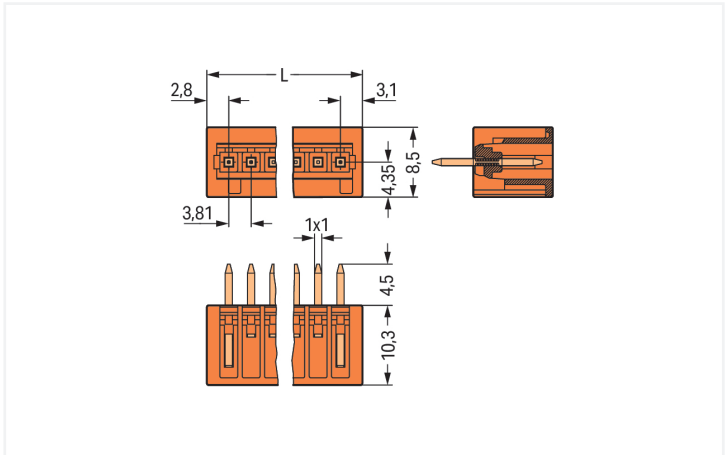
THT male header; 1.0 x 1.0 mm solder pin; straight; 100% protected against mis-mating; Pin spacing 3.81 mm; 5-pole; orange

<https://www.wago.com/734-235>

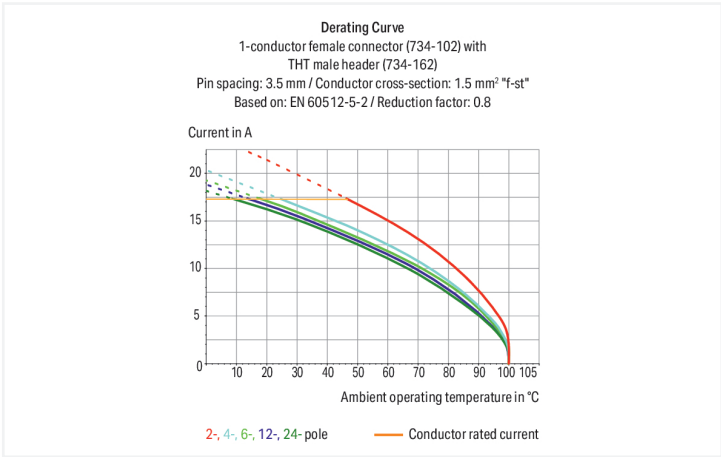


Color: ■ orange

Similar to illustration



Dimensions in mm
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$



Stiftleiste Serie 734, orange

Die Stiftleiste (Artikelnummer 734-235) bietet eine ordentliche Elektroinstallation. Unsere Leiterplatten-Steckverbinder ermöglichen Ihnen die größtmögliche Flexibilität bei verschiedenen Montagearten. Die Abmessungen sind in Breite x Höhe x Tiefe (21,14 x 14,8 x 8,5) mm. Für die Kontaktoberfläche wurde Zinn verwendet. Das MCS – "Multi Connection System" von WAGO umfasst insgesamt 7 Familien in den Rastermaßen 2,5 mm bis 10,16 mm und bietet mit dem Leiterquerschnittsbereich von 0,08 bis 25 mm² ein großes Portfolio an Einsatzmöglichkeiten. Die Verlötlung des Leiterplatten-Steckverbinders erfolgt mittels THT.

Notes	
Safety Information	The MCS – <i>MULTI CONNECTION SYSTEM</i> 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	II		Use group	B C D
Pollution degree	3	2	2		Rated voltage	300 V - 300 V
Nominal voltage	160 V	160 V	320 V		Rated current	10 A - 10 A
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV			
Rated current	10 A	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	5	Connection 1	
Number of connection types	1	Pole number	5
Number of levels	1		

Physical data	
Pin spacing	3.81 mm / 0.15 inches
Width	21.14 mm / 0.832 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	V0
Contact material	Electrolytic copper (E _{CU})
Contact Plating	Tin
Fire load	0.022 MJ
Weight	1.3 g

Environmental requirements	
Limit temperature range	-60 ... +100 °C
Processing temperature	-35 ... +60 °C
Environmental Testing (Environmental Conditions)	
Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04
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 Hz to f ₂ = 150 Hz f ₁ = 5 Hz to f ₂ = 150 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)	
PU (SPU)	200 pcs	
Packaging type	Box	
Country of origin	DE	
GTIN	4044918847896	
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 8.0	EC002637	
ECCN	NO US CLASSIFICATION	

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 734-235
↓

Documentation

Additional Information
Technical Section
03.04.2019
pdf
2027.26 KB
↓

CAD/CAE-Data

CAD data
2D/3D Models 734-235
↓

CAE data
EPLAN Data Portal 734-235
↓
ZUKEN Portal 734-235
↓

PCB Design
Symbol and Footprint via SamacSys 734-235
↓
Symbol and Footprint via Ultra Librarian 734-235
↓

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: 734-205
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; 1,50 mm²; orange



Item No.: 734-205/037-000
1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; orange



Item No.: 2734-205
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; 1,50 mm²; orange



Item No.: 2734-205/031-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; clamping collar; 1,50 mm²; orange



Item No.: 2734-205/037-000
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; orange



Item No.: 734-565
THT female header; angled; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange



Item No.: 734-565/037-000
THT female header; angled; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange



Item No.: 734-505
THT female header; straight; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; orange



Item No.: 734-505/037-000
THT female header; straight; Pin spacing 3.81 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; orange



1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

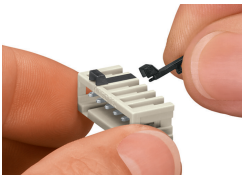


Item No.: 734-159
Coding key; to be snapped above top level; black

Item No.: 734-130
Coding key; to be snapped above top level; white

Installation Notes

Coding



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