

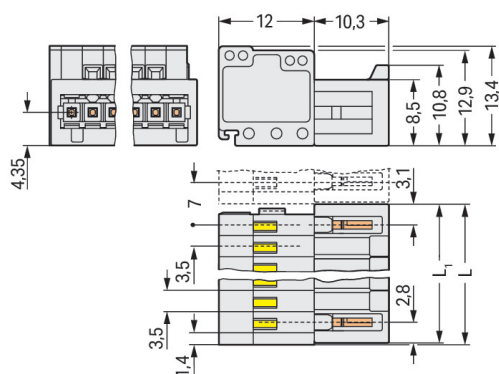
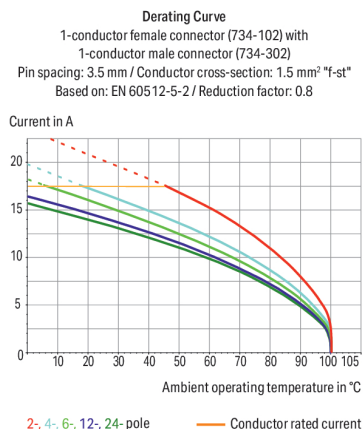
Data Sheet | Item Number: 734-305

1-conductor male connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; light gray

<https://www.wago.com/734-305>



Color: ■ light gray



Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}$
 $L_1 = L - 0.45 \text{ mm}$

Male connector, 734 Series, operating tool

This male connector (item number 734-305) simplifies electrical installations. Strip lengths must be between 6 and 7 mm when connecting conductors to this male connector. This product incorporates one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a dependable and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The item's dimensions are (19.9 x 13.4 x 22.3) mm (width x height x depth). Depending on the conductor type, this male connector is ideal for conductor cross sections ranging from 0.08 mm² to 1.5 mm².

Tin is used for coating the contact surfaces.

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 impulse withstand voltage	2.5 kV	2.5 kV	2.5 kV				
Rated current	10 A	10 A	10 A				

Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Clamping units	5
Total number of potentials	5
Number of connection types	1
Number of levels	1

Connection 1	
Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Actuation direction 1	Operation parallel to conductor entry
Actuation direction 2	Operation perpendicular to conductor entry
Solid conductor	0.08 ... 1.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 1.5 mm² / 28 ... 14 AWG
Fine-stranded conductor; with insulated fer- rule	0.25 ... 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1.5 mm²
Note (conductor cross-section)	Terminating 1.5 mm² conductors is possi- ble; however insulation diameter does not allow clamping units to be terminated in a row.
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Pole number	5
Conductor entry direction to mating direc- tion	0 °

Pin spacing	3.5 mm / 0.138 inches
Width	19.9 mm / 0.783 inches
Height	13.4 mm / 0.528 inches
Depth	22.3 mm / 0.878 inches



Mechanical data	
Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection	
Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes

Material data	
Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.074 MJ
Weight	4.3 g

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

Environmental Testing	
Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard
Frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms



Environmental Testing	
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data		
Product Group	3 (Multi Conn. System)	
PU (SPU)	100 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4044918513555	
Customs tariff number	85366930000	

Product Classification		
UNSPSC	39121409	
eCl@ss 10.0	27-44-03-09	
eCl@ss 9.0	27-44-03-09	
ETIM 9.0	EC002638	
ETIM 10.0	EC002638	
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
CCA DEKRA Certification B.V.	EN 61984	2169534.02	Railway WAGO GmbH & Co. KG	-	Railway Ready
CCA DEKRA Certification B.V.	EN 61984	nl-54190			
CSA DEKRA Certification B.V.	C22.2	1465035			
UL Underwriters Laboratories Inc.	UL 1977	E 45171			



Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	24-0095975-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)
PRS Polski Rejestr Statków	-	TE/1095/880590/23

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 734-305



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 734-305



CAE data
EPLAN Data Portal 734-305
ZUKEN Portal 734-305



1 Compatible Products

1.1 System counterpart

1.1.1 Distribution connector



Item No.: 734-365
2-conductor combi strip; 100% protected
against mismatching; 1.5 mm²; 5-pole; Pin
spacing 3.5 mm; light gray



Item No.: 734-365/037-000
2-conductor combi strip; 100% protected
against mismatching; 1.5 mm²; Locking lever;
5-pole; Pin spacing 3.5 mm; light gray



Item No.: 734-365/008-000
2-conductor combi strip; 100% protected
against mismatching; Snap-in mounting feet;
1.5 mm²; 5-pole; Pin spacing 3.5 mm; light
gray



1.1.2 Female connector/socket

 Item No.: 734-105/037-004 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; black	 Item No.: 734-105/037-000 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; light gray	 Item No.: 734-105/037-000/033-000 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm²; light gray	 Item No.: 734-105 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; light gray
 Item No.: 734-105/008-000 1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Snap-in mounting feet; light gray	 Item No.: 2734-1105/327-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 1,50 mm²; light gray	 Item No.: 2734-1105/328-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Centered locking levers; 1,50 mm²; light gray	 Item No.: 2734-1105/328-000/334-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Centered locking levers; Strain relief plate; 1,50 mm²; light gray
 Item No.: 2734-1105/327-047 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; direct marking; 1,50 mm²; light gray	 Item No.: 2734-1105/327-9037 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; direct marking; 1,50 mm²; light gray	 Item No.: 2734-1105/038-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm²; light gray	 Item No.: 2734-1105/038-000/334-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm²; light gray
 Item No.: 2734-1105/327-000/334-000 1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Strain relief plate; 1,50 mm²; light gray	 Item No.: 2734-105/031-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; clamping collar; light gray	 Item No.: 2734-105/037-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; light gray	 Item No.: 2734-105 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; light gray
 Item No.: 734-535 THT female header; angled; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray	 Item No.: 734-535/037-000 THT female header; angled; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray	 Item No.: 734-465 THT female header; straight; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray	 Item No.: 734-465/037-000 THT female header; straight; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding

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

1.2.2.1 Cover

 Item No.: 734-420 Cover for male connectors; for 734 Series; IP20 protection; black



1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-321
Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-131
Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored



Item No.: 216-322
Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-132
Ferrule; Sleeve for 0.34 mm² / 22 AWG; uninsulated; electro-tin plated



Item No.: 216-221
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item No.: 216-121
Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored



Item No.: 216-222
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-122
Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; silver-colored



Item No.: 216-223
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-123
Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored



Item No.: 216-224
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-124
Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

1.2.4 Marking

1.2.4.1 Marking strip



Item No.: 210-332/350-202
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-204
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/350-206
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.5 Strain relief

1.2.5.1 Strain relief housing



Item No.: 734-605
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 3.5 mm; 5-pole; light gray

1.2.5.2 Strain relief plate



Item No.: 734-128
Strain relief plate; for female and male connectors; 12.5 mm wide; 1 part; Pin spacing 3.5 mm; light gray

1.2.6 Test and measurement

1.2.6.1 Testing accessories



Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC;
CAT0; 1 A; 6 mm uninsulated; Test lead for
soldering up to 0,5mm²

1.2.7 Tool

1.2.7.1 Operating tool



Item No.: 734-190
Combination operating tool; natural



Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a
partially insulated shaft



Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a
partially insulated shaft; multicoloured



Item No.: 210-251
Operating tool; for MCS MICRO and MINI
with CAGE CLAMP® connection; yellow



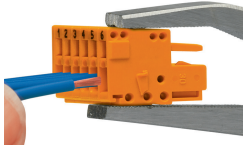
Item No.: 210-250
Operating tool; for MCS MINI and MIDI with
CAGE CLAMP® connection; red



Item No.: 734-191
Operating tool; made of insulating material;
1-way; loose; black

Installation Notes

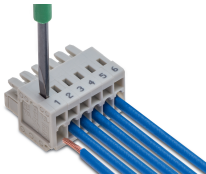
Conductor termination



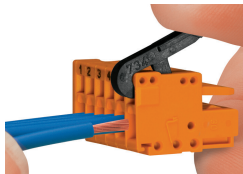
Inserting a conductor into CAGE CLAMP®
unit via operating tool (210-251 or 210-250).



Inserting a conductor via (2.5 x 0.4) mm
screwdriver – CAGE CLAMP® actuation par-
allel to conductor entry.

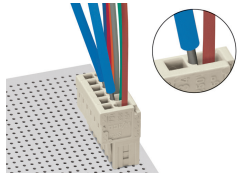


Inserting a conductor via (2.5 x 0.4) mm
screwdriver – CAGE CLAMP® actuation per-
pendicular to conductor entry.



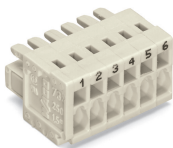
Inserting a conductor into CAGE CLAMP®
unit via operating tool (734-191).

Testing



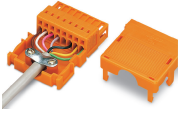
Testing via 1 mm Ø test pin (735-500) –
CAGE CLAMP® connection – touch contact.

Marking



Labeling via direct marking or self-adhesive
strips.

Installation



Strain relief housing for 734 Series Male and Female Connectors with CAGE CLAMP® connection