1-conductor male connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismating; clamping collar; 1,50 mm²; light gray

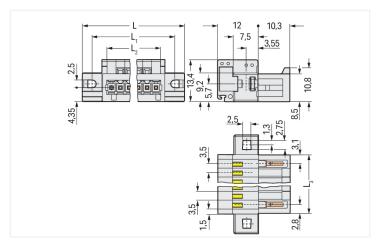


https://www.wago.com/734-305/019-000



Color: ■ light gray

Similar to illustration



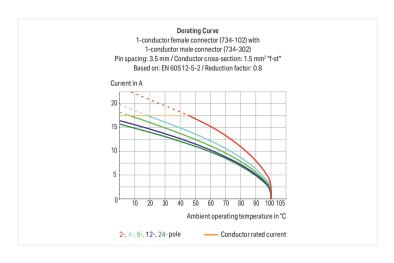
Dimensions in mm

L = (pole no. x pin spacing) + 14.8 mm

L1 = (pole no. x pin spacing) + 8.8 mm

L2 = pole no. x pin spacing

 $L3 = (pole no. - 1) \times pin spacing + 5.9 mm$



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- · For wire-to-wire and board-to-wire connections
- Strain relief plates and housings for factory and field assembly
- 100% protected against mismating
- Coding option available

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Safety Information

Variants:

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.

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	IEG	C/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

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

Connection data	
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 ferrule	0.25 1.5 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 1.5 mm ²
Note (conductor cross-section)	Terminating 1.5 mm² conductors is possible; 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 direction	0°

Physical data	
Pin spacing	3.5 mm / 0.138 inches
Width	32.3 mm / 1.272 inches
Height	13.4 mm / 0.528 inches
Depth	22.3 mm / 0.878 inches

Mechanical data	
Variable coding	Yes
Mounting type	Mounting flange Feed-through mounting Panel mounting
Anti-rotation protection	Yes

Data Sheet | Item Number: 734-305/019-000 https://www.wago.com/734-305/019-000



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

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
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	0.103 MJ
Weight	5.1 g

nvironmental requirements				
mit temperature range	-60 +100 °C		Environmental Testing (Environme	ntal Conditions)
Processing temperature	-35 +60 °C	-35 +60 °C	Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-0
			Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011
			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	$f_1 = 5 Hz \text{ to } f_2 = 150 Hz$ $f_1 = 5 Hz \text{ to } f_2 = 150 Hz$
		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)	
		Monitoring for corons Voltage drop measafter each axis Simulated service ased levels of nois Extended test scottact faults/interrup Extended test scottact faults/scottact faults/scottact faults/scottact scottact faults/scottact faults	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	

https://www.wago.com/734-305/019-000



Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 9.0	EC002638
ETIM 8.0	EC002638
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143268851
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61984	2169534.02
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
UR Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



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

Approvals for marine applications



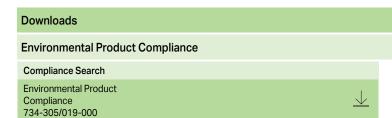


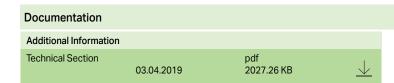


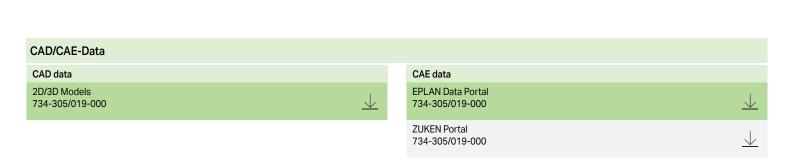
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z

https://www.wago.com/734-305/019-000











1.2.1 Coding 1.2.1.1 Coding

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

1.2 Optional Accessories

https://www.wago.com/734-305/019-000



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 Item No.: 216-131 Item No.: 216-302 Item No.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; yellow uninsulated; electro-tin plated; silver-cosulated; electro-tin plated; yellow sulated; electro-tin plated; light turquoise Item No.: 216-322 Item No.: 216-132 Item No.: 216-241 Item No.: 216-201 Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-Ferrule; Sleeve for 0.34 mm² / AWG 24; Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; light turquoise uninsulated; electro-tin plated sulated; electro-tin plated; electrolytic sulated; electro-tin plated; white copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white Item No.: 216-221 Item No.: 216-141 Item No.: 216-101 Item No.: 216-121 Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-Ferrule; Sleeve for 0.5 mm² / AWG 22; un-Ferrule; Sleeve for 0.5 mm² / AWG 22; unsulated; electro-tin plated; white insulated; electro-tin plated; electrolytic insulated; electro-tin plated; silver-coloinsulated; electro-tin plated; silver-colocopper; gastight crimped; acc. to DIN red red 46228, Part 1/08.92 Item No.: 216-262 Item No.: 216-242 Item No.: 216-202 Item No.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic sulated; electro-tin plated; gray sulated; electro-tin plated; gray copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray 46228, Part 4/09.90; gray Item No.: 216-142 Item No.: 216-102 Item No.: 216-122 Item No.: 216-243 Ferrule; Sleeve for 0.75 mm² / 18 AWG; Ferrule; Sleeve for 0.75 mm² / AWG 20; Ferrule; Sleeve for 0.75 mm² / AWG 20; Ferrule; Sleeve for 1 mm2 / AWG 18; insuuninsulated; electro-tin plated; electrolyuninsulated; electro-tin plated; silver-couninsulated; electro-tin plated; silver-colated; electro-tin plated; electrolytic coptic copper; gastight crimped; acc. to DIN per; gastight crimped; acc. to DIN 46228, 46228, Part 1/08.92 Part 4/09.90; red Item No.: 216-263 Item No.: 216-103 Item No.: 216-203 Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item No.: 216-143 Ferrule; Sleeve for 1 mm² / AWG 18; unin-

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated

sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

https://www.wago.com/734-305/019-000



1.2.3.1 Ferrule

Item No.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored Item No.: 216-104

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored

1.2.4 Installation

1.2.4.1 Mounting accessories

Item No.: 231-295 Screw with nut

n No.: 231-295 <u>Item No.: 231-195</u>

Screw with nut; M2x12; for fixing element

Item No.: 209-147

Self-tapping screw

Item No.: 231-194

Self-tapping screw; B 2.2x13, fixing hole

1.2.5 Marking

1.2.5.1 Marking strip

Item No.: 210-332/350-202

Marking strips; as a DIN A4 sheet; MAR-KED; 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; MAR-KED; 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; MAR-KED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.6 Strain relief

1.2.6.1 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

1.2.7 Test and measurement

1.2.7.1 Testing accessories



Item No.: 735-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CATO; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

https://www.wago.com/734-305/019-000



1.2.8 Tool

1.2.8.1 Operating tool

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<u>Item No.: 734-190</u> Combination operating tool; natural J.

Item No.: 734-231
Operating tool; black



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



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

Item No.: 734-230

Operating tool; made of insulating material; 1-way; white

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 parallel to conductor entry.



Inserting a conductor via (2.5 x 0.4) mm screwdriver – CAGE CLAMP® actuation perpendicular 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

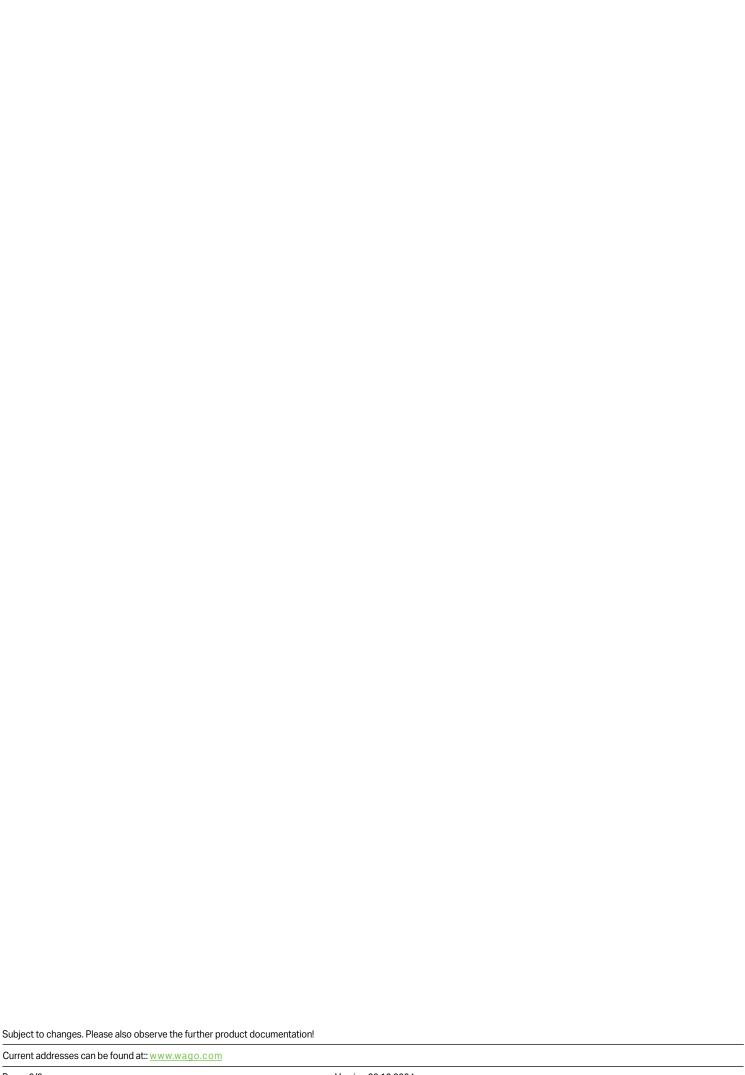


Labeling via direct marking or self-adhesive strips.

Installation



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



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