

Data Sheet | Item Number: 713-1118/037-000

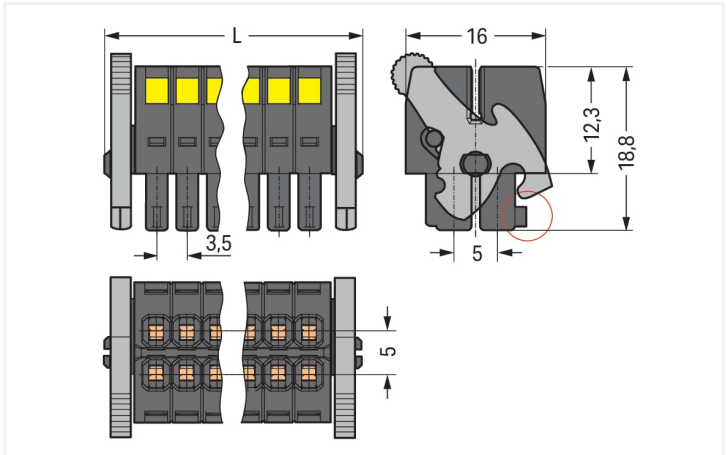
1-conductor female connector, 2-row; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 36-pole; 100% protected against mismatching; Levers; 1,50 mm²; black

<https://www.wago.com/713-1118/037-000>

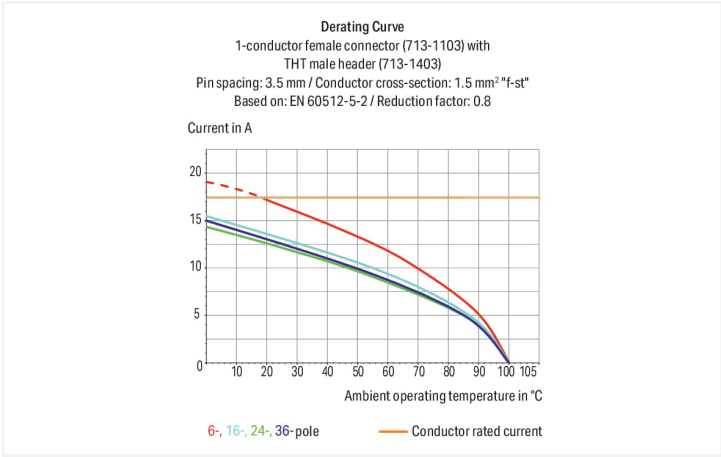


Color: ■ black

Similar to illustration



Dimensions in mm  
 $L = [(pole\ no./2) - 1] \times pin\ spacing + 12.2\ mm$   
Coding finger (red circle)



Federleiste/Buchse Serie 713 mit Betätigungswerkzeug

Bei dieser Federleiste/Buchse mit der Artikelnummer 713-1118/037-000 ist eine reibungslose Elektroinstallation das Hauptaugenmerk. Setzen Sie beim Design-In Ihres Gerätes auf erprobte Sicherheit: Mit Leiterplatten-Steckverbindern erhalten Sie verschiedene Verwendungsmöglichkeiten. Bei dieser Federleiste/Buchse ist für den Leiteranschluss eine Abisolierlänge im Bereich von 6 bis 7 mm nötig. Bei diesem Produkt kommt die CAGE CLAMP®-Technologie zum Einsatz. Der zuverlässige und wartungsfreie CAGE CLAMP® Universalanschluss ermöglicht den Anschluss aller Leiterarten mit einer Käfigzugfeder. Eine Vorbehandlung der Leiter, z.B. durch das Aufcrimpen von Aderendhülsen, ist nicht erforderlich. In Breite x Höhe x Tiefe betragen die Abmessungen (71,5 x 18,8 x 16) mm. In Abhängigkeit von der Leiterart eignet sich diese Federleiste/Buchse für Leiterquerschnitte von 0,08 mm² bis 1,5 mm². Die Kontaktoberfläche ist aus Zinn. Für diese Federleiste/Buchse erfolgt die Betätigung per Betätigungswerkzeug. Das "Multi Connection System" – MCS von WAGO ist das vielfältige Steckverbindersystem mit überzeugenden Lösungen für Ihre Anwendungen.

| 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<br>Gold-plated or partially gold-plated contact surfaces<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                             |



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 | 50 V | - |
| Nominal voltage            | 80 V   | 160 V  | 250 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 | - | - |
| Rated current     | 10 A  | - | - |

Connection data

|                            |    |                                                   |                                            |
|----------------------------|----|---------------------------------------------------|--------------------------------------------|
| Clamping units             | 36 | Connection 1                                      |                                            |
| Total number of potentials | 36 | Connection technology                             | CAGE CLAMP®                                |
| Number of connection types | 1  | Actuation type                                    | Operating tool                             |
| Number of levels           | 2  | Actuation direction 1                             | Operation perpendicular to conductor entry |
|                            |    | Solid conductor                                   | 0.08 ... 1.5 mm² / 28 ... 16 AWG           |
|                            |    | Fine-stranded conductor                           | 0.08 ... 1.5 mm² / 28 ... 16 AWG           |
|                            |    | Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1 mm²                             |
|                            |    | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 1 mm²                             |
|                            |    | Strip length                                      | 6 ... 7 mm / 0.24 ... 0.28 inches          |
|                            |    | Pole number                                       | 36                                         |
|                            |    | Conductor entry direction to mating direction     | 0°                                         |

Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 3.5 mm / 0.138 inches  |
| Width       | 71.5 mm / 2.815 inches |
| Height      | 18.8 mm / 0.74 inches  |
| Depth       | 16 mm / 0.63 inches    |

Mechanical data

|                          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

Plug-in connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type)        | for conductor           |
| Mismating protection               | Yes                     |
| Locking of plug-in connection      | Locking lever           |



| Material data                      |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note (material data)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | black                                                                    |
| Material group                     | II                                                                       |
| Insulation material (main housing) | Glass fiber-reinforced polyamide (PA66 GF)                               |
| Flammability class per UL94        | V0                                                                       |
| Clamping spring material           | Chrome-nickel spring steel (CrNi)                                        |
| Contact material                   | Copper alloy                                                             |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.264 MJ                                                                 |
| Weight                             | 19 g                                                                     |

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

| Commercial data       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| eCl@ss 10.0           | 27-14-11-06            |
| eCl@ss 9.0            | 27-14-11-06            |
| ETIM 9.0              | EC001284               |
| ETIM 8.0              | EC001284               |
| PU (SPU)              | 10 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4045454806354          |
| Customs tariff number | 85366990990            |

| Environmental Product Compliance          |                                                    |
|-------------------------------------------|----------------------------------------------------|
| REACH Candidate List Substance            | Perfluorobutane sulfonic acid (PFBS) and its salts |
| RoHS Compliance Status                    | Compliant, No Exemption                            |
| SCIP notification number (Austria)        | 0d6e4436-c13a-4377-ac4b-5b5a3dfbd80c               |
| SCIP notification number (Belgium)        | 3beb0435-2a5e-4235-9f37-7c61586e9e12               |
| SCIP notification number (Bulgaria)       | ae5637c5-a6dd-4063-bc3f-4f5cd55aaf1c               |
| SCIP notification number (Czech Republic) | ad7d9f20-4655-4db4-a9fd-e4188824d63e               |
| SCIP notification number (Denmark)        | db2107a7-7040-4273-bbd0-5bd05738585b               |
| SCIP notification number (Finland)        | 646673a1-00ce-4a1e-848f-db6f8b79f14b               |
| SCIP notification number (France)         | 5c9f7dbd-465a-4e9c-859f-35a0546dd73b               |
| SCIP notification number (Germany)        | 9bb47377-7046-4d6e-b2be-08464b9fd770               |
| SCIP notification number (Hungary)        | 3776a68a-defd-4970-8131-6042b23193df               |
| SCIP notification number (Italy)          | d8fbbafa-9407-45e8-ac8c-1874636ed04b               |
| SCIP notification number (Netherlands)    | 7f45b5ee-3d00-4545-b1fc-74df14eaa885               |
| SCIP notification number (Poland)         | d49e2581-4332-4957-b0e2-04ab342899ff               |
| SCIP notification number (Romania)        | 0a21cc67-f136-475b-a203-542020d6cb0d               |
| SCIP notification number (Sweden)         | 29f4eeff-26e2-4e00-80f6-d1d45d32b7c2               |



Approvals / Certificates

| General approvals                                                                                                                                                                                                                                    |           |                                 | Declarations of conformity and manufacturer's declarations                        |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------|-----------------------------------------------------------------------------------|----------|------------------|
|    |           |                                 |  |          |                  |
| Approval                                                                                                                                                                                                                                             | Standard  | Certificate Name                | Approval                                                                          | Standard | Certificate Name |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                       | IEC 61984 | NL-102427                       | Railway<br>WAGO GmbH & Co. KG                                                     | -        | Z00004423.000    |
| CSA<br>CSA Group                                                                                                                                                                                                                                     | C22.2     | 2315087                         |                                                                                   |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                | EN 61984  | 71-133740                       |                                                                                   |          |                  |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                 | UL 1059   | UL-US-L45172-6187124-22905991-1 |                                                                                   |          |                  |

Downloads

| Environmental Product Compliance                     |                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------|
| Compliance Search                                    |                                                                                   |
| Environmental Product Compliance<br>713-1118/037-000 |  |

Documentation

| Additional Information |            |                   |                                                                                     |
|------------------------|------------|-------------------|-------------------------------------------------------------------------------------|
| Technical Section      | 03.04.2019 | pdf<br>2027.26 KB |  |

CAD/CAE-Data

| CAD data                                                                                                             | CAE data                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 2D/3D Models<br>713-1118/037-000  | ZUKEN Portal<br>713-1118/037-000  |

1 Compatible Products

1.1 System counterpart

| 1.1.1 Male connector/plug                                                                                                                              |                                                                                                                                                                                                                           |                                                                                                                                                                                       |                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     |                                                                                                                                        |                                                                                                   |                                                                                                                                        |
| <a href="#">Item No.: 713-1498/037-000</a><br>Panel feedthrough male connector; 100% protected against mismatching; 36-pole; Pin spacing 3.5 mm; black | <a href="#">Item No.: 713-1438/116-000/997-409</a><br>THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Levers; in tape-and-reel packaging; Pin spacing 3.5 mm; 36-pole; black | <a href="#">Item No.: 713-1438/116-000</a><br>THR male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Levers; Pin spacing 3.5 mm; 36-pole; black | <a href="#">Item No.: 713-1418/116-000/997-409</a><br>THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Levers; in tape-and-reel packaging; Pin spacing 3.5 mm; 36-pole; black |



1.1.1 Male connector/plug



**Item No.: 713-1418/116-000**  
THR male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Levers; Pin spacing 3.5 mm; 36-pole; black



**Item No.: 713-1438/037-000**  
THT male header, 2-row; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Levers; Pin spacing 3.5 mm; 36-pole; black



**Item No.: 713-1418/037-000**  
THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; Levers; Pin spacing 3.5 mm; 36-pole; black



**Item No.: 713-1478/037-000**  
THT male header, 2-row; 0.8 x 0.8 mm solder pin; straight; 100% protected against mismatching; with orientation nose; Levers; Pin spacing 3.5 mm; 36-pole; black

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 Ferrule



**Item No.: 216-301**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-321**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-302**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-322**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated



**Item No.: 216-201**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



**Item No.: 216-221**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-141**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-101**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-121**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-242**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-262**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-202**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-222**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-142**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-102**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-122**  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-243**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-263**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-203**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-223**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-103**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated



**Item No.: 216-143**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



**Item No.: 216-123**  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored

1.2.2 Stickers with operating instructions

1.2.2.1 Stickers with operating instructions



Item No.: 210-493  
Stickers for operating instructions

1.2.3 Strain relief

1.2.3.1 Strain relief plate



Item No.: 713-129  
Strain relief plate; for female connectors;  
53 mm wide; 1 part; Pin spacing 3.5 mm;  
black

1.2.4 Tool

1.2.4.1 Operating tool



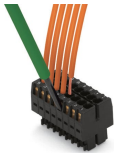
Item No.: 210-719  
Operating tool; Blade: 2.5 x 0.4 mm; with a  
partially insulated shaft



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

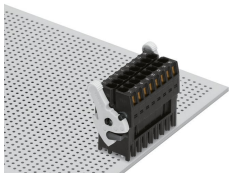
Installation Notes

Conductor termination

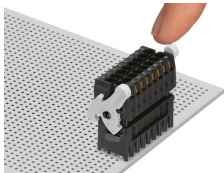


Inserting a conductor via (2.5 x 0.4) mm  
screwdriver.

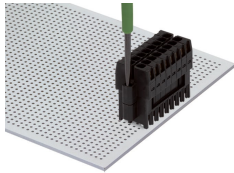
Locking system



Lever as a lock – when closed, female  
connector is locked.

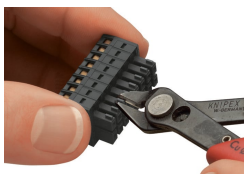


Lever as a disconnection aid – when open-  
ed, female connector is disconnected.  
Rotating the lever lifts the female  
connector out of the male header.



Screw interlock can only be disconnected  
using a tool.

## Coding

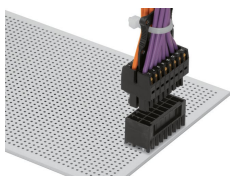


Coding a female connector by removing coding finger(s).

## Strain relief



Strain relief plate for field assembly



Centered strain relief plate anchors conductors for easy disconnection.