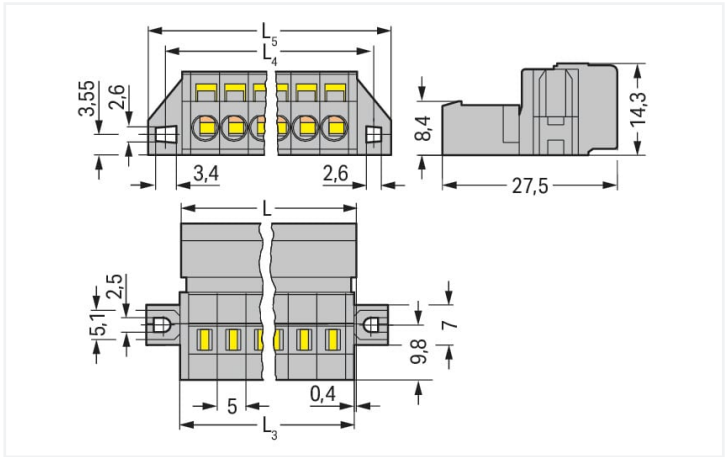
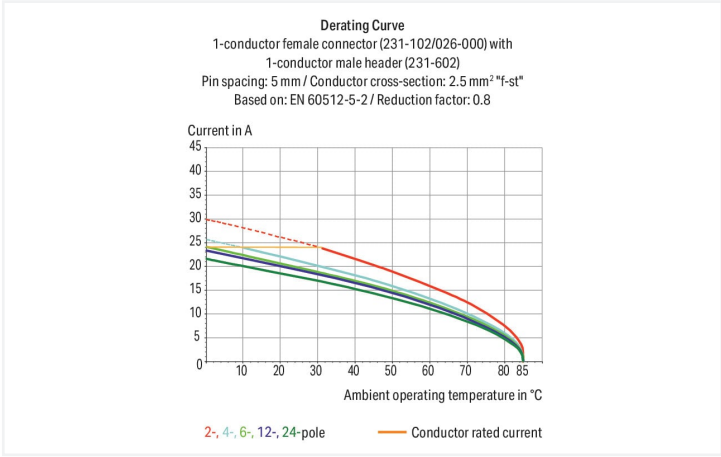




Color: ■ gray



Dimensions in mm  
 $L = (\text{pole no.} - 1) \times \text{pin spacing} + 8.2 \text{ mm}$   
 $L3 = L - 0.2 \text{ mm}$   
 $L4 = L3 + 5.8 \text{ mm}$   
 $L5 = L3 + 11.8 \text{ mm}$



- 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
- Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- With coding fingers

| 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 |       |       |
|----------------------|----------------|-------|-------|
| Overvoltage category | III            | III   | II    |
| Pollution degree     | 3              | 2     | 2     |
| Nominal voltage      | 320 V          | 320 V | 630 V |
| Rated surge voltage  | 4 kV           | 4 kV  | 4 kV  |
| Rated current        | 12 A           | 12 A  | 12 A  |

| Approvals per | UL 1059 |   |       |
|---------------|---------|---|-------|
| Use group     | B       | C | D     |
| Rated voltage | 300 V   | - | 300 V |
| Rated current | 15 A    | - | 10 A  |

| Approvals per | UL 1977 |
|---------------|---------|
| Rated voltage | 600 V   |
| Rated current | 15 A    |

| Approvals per | CSA   |   |       |
|---------------|-------|---|-------|
| Use group     | B     | C | D     |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 15 A  | - | 10 A  |

Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 8 |
| Total number of potentials | 8 |
| 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 ... 2.5 mm² / 28 ... 12 AWG           |
| Fine-stranded conductor                           | 0.08 ... 2.5 mm² / 28 ... 12 AWG           |
| Fine-stranded conductor; with insulated ferrule   | 0.25 ... 1.5 mm²                           |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm²                           |
| Strip length                                      | 8 ... 9 mm / 0.31 ... 0.35 inches          |
| Pole number                                       | 8                                          |
| Conductor entry direction to mating direction     | 0°                                         |

Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 5 mm / 0.197 inches    |
| Width       | 54.8 mm / 2.157 inches |
| Height      | 14.3 mm / 0.563 inches |
| Depth       | 27.5 mm / 1.083 inches |

Mechanical data

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| Variable coding          | Yes                                                        |
| Mounting type            | Mounting flange<br>Feed-through mounting<br>Panel mounting |
| Anti-rotation protection | Yes                                                        |



| Plug-in connection                 |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for conductor       |
| Mismating protection               | No                  |

| Material data               |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Note (material data)        | <a href="#">Information on material specifications can be found here</a> |
| Color                       | gray                                                                     |
| Material group              | I                                                                        |
| Insulation material         | Polyamide (PA66)                                                         |
| Flammability class per UL94 | V0                                                                       |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                                        |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> )                                   |
| Contact plating             | Tin                                                                      |
| Fire load                   | 0.386 MJ                                                                 |
| Weight                      | 13 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           | 27-44-03-09            |
| eCl@ss 9.0            | 27-44-03-09            |
| ETIM 8.0              | EC002638               |
| ETIM 7.0              | EC002638               |
| PU (SPU)              | 50 pcs                 |
| Packaging type        | Box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918257817          |
| Customs tariff number | 85366930000            |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

Approvals / Certificates

General approvals



| Approval                              | Standard  | Certificate Name |
|---------------------------------------|-----------|------------------|
| CB<br>DEKRA Certification B.V.        | IEC 61984 | NL-39756/A1      |
| CSA<br>DEKRA Certification B.V.       | C22.2     | LR 18677-25      |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984  | 71-121453        |
| UL<br>Underwriters Laboratories Inc.  | UL 1977   | E45171           |

Declarations of conformity and manufacturer's declarations



| Approval                      | Standard | Certificate Name |
|-------------------------------|----------|------------------|
| Railway<br>WAGO GmbH & Co. KG | -        | Railway Ready    |



Approvals for marine applications



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

Downloads

Environmental Product Compliance

|                                                        |
|--------------------------------------------------------|
| Compliance Search                                      |
| Environmental Product<br>Compliance<br>231-608/019-000 |



Documentation

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



CAD/CAE-Data

|                                 |
|---------------------------------|
| CAD data                        |
| 2D/3D Models<br>231-608/019-000 |



|                                      |
|--------------------------------------|
| CAE data                             |
| EPLAN Data Portal<br>231-608/019-000 |
| ZUKEN Portal<br>231-608/019-000      |



1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| Item No.: 231-108/026-000                                                                           |
| 1-conductor female connector; CAGE<br>CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-<br>pole; 2,50 mm²; gray |



|                                                                                       |
|---------------------------------------------------------------------------------------|
| Item No.: 232-238                                                                     |
| THT female header; angled; Pin spacing 5<br>mm; 8-pole; 0.6 x 1.0 mm solder pin; gray |



|                                                                                         |
|-----------------------------------------------------------------------------------------|
| Item No.: 232-138                                                                       |
| THT female header; straight; Pin spacing 5<br>mm; 8-pole; 0.6 x 1.0 mm solder pin; gray |



| 1.2 Optional Accessories                                                                                                                                                                             |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.2.1 Coding                                                                                                                                                                                         |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| 1.2.1.1 Coding                                                                                                                                                                                       |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
|                                                                                                                     |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| <div><div>Item No.: 231-129</div><div>Coding key; snap-on type; light gray</div></div>                                                                                                               |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| 1.2.2 Cover                                                                                                                                                                                          |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| 1.2.2.1 Cover                                                                                                                                                                                        |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
|                                                                                                                     |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| <div><div>Item No.: 231-668</div><div>Lockout caps; for covering unused clamping units; gray</div></div>                                                                                             |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| 1.2.3 Ferrule                                                                                                                                                                                        |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
| 1.2.3.1 Ferrule                                                                                                                                                                                      |                                                                                                                                                                                                  |                                                                                                                                                                                                      |                                                                                                                                                                                                      |
|                                                                                                                    |                                                                                                                |                                                                                                                    |                                                                                                                  |
| <div><div>Item No.: 216-301</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</div></div>                                                                       | <div><div>Item No.: 216-321</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</div></div>                                                                   | <div><div>Item No.: 216-151</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated</div></div>                                                                             | <div><div>Item No.: 216-131</div><div>Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored</div></div>                                                             |
|                                                                                                                   |                                                                                                               |                                                                                                                   |                                                                                                                 |
| <div><div>Item No.: 216-302</div><div>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</div></div>                                                              | <div><div>Item No.: 216-322</div><div>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</div></div>                                                          | <div><div>Item No.: 216-132</div><div>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated</div></div>                                                                             | <div><div>Item No.: 216-152</div><div>Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated</div></div>                                                                             |
|                                                                                                                   |                                                                                                               |                                                                                                                   |                                                                                                                 |
| <div><div>Item No.: 216-241</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</div></div> | <div><div>Item No.: 216-201</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</div></div>                                                                     | <div><div>Item No.: 216-221</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</div></div>                                                                         | <div><div>Item No.: 216-141</div><div>Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</div></div>      |
|                                                                                                                   |                                                                                                               |                                                                                                                   |                                                                                                                 |
| <div><div>Item No.: 216-101</div><div>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored</div></div>                                                              | <div><div>Item No.: 216-121</div><div>Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored</div></div>                                                          | <div><div>Item No.: 216-242</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</div></div> | <div><div>Item No.: 216-262</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</div></div> |
|                                                                                                                   |                                                                                                               |                                                                                                                   |                                                                                                                 |
| <div><div>Item No.: 216-202</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</div></div>                                                                         | <div><div>Item No.: 216-222</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</div></div>                                                                     | <div><div>Item No.: 216-142</div><div>Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92</div></div>     | <div><div>Item No.: 216-102</div><div>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored</div></div>                                                             |
|                                                                                                                   |                                                                                                               |                                                                                                                   |                                                                                                                 |
| <div><div>Item No.: 216-122</div><div>Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored</div></div>                                                             | <div><div>Item No.: 216-243</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</div></div> | <div><div>Item No.: 216-263</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</div></div>     | <div><div>Item No.: 216-203</div><div>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red</div></div>                                                                             |



1.2.3.1 Ferrule

|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                             | <br><b>Item No.: 216-103</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated        | <br><b>Item No.: 216-143</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92                   | <br><b>Item No.: 216-123</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored                                                                |
| <br><b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                         | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black | <br><b>Item No.: 216-244</b><br>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            | <br><b>Item No.: 216-264</b><br>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 |
| <br><b>Item No.: 216-284</b><br>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 | <br><b>Item No.: 216-124</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated      | <br><b>Item No.: 216-144</b><br>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 | <br><b>Item No.: 216-104</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; silver-colored                                                              |
| <br><b>Item No.: 216-106</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored                                                              |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                       |

1.2.4 Installation

1.2.4.1 Mounting accessories

|                                                                                                                                   |                                                                                                                                                              |                                                                                                                                        |                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 231-295</b><br>Screw with nut | <br><b>Item No.: 231-195</b><br>Screw with nut; M2x12; for fixing element | <br><b>Item No.: 209-147</b><br>Self-tapping screw | <br><b>Item No.: 231-194</b><br>Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2.5 Insulation stop

1.2.5.1 Insulation stop

|                                                                                                                                                                       |                                                                                                                                                                |                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 231-670</b><br>Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white | <br><b>Item No.: 231-671</b><br>Insulation stop; 0.25 - 0.5 mm²; light gray | <br><b>Item No.: 231-672</b><br>Insulation stop; 0.75 - 1 mm²; dark gray |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2.6 Jumper

1.2.6.1 Jumper

|                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                         |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 231-902</b><br>Jumper; for conductor entry; 2-way; insulated; gray | <br><b>Item No.: 231-903</b><br>Jumper; for conductor entry; 3-way; insulated; gray | <br><b>Item No.: 231-905</b><br>Jumper; for conductor entry; 5-way; insulated; gray | <br><b>Item No.: 231-907</b><br>Jumper; for conductor entry; 7-way; insulated; gray |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



1.2.7 Marking

1.2.7.1 Marking strip



**Item No.: 210-331/500-103**  
Marking strips; as a DIN A4 sheet; MARKED; 1-12 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-202**  
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-205**  
Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-331/500-104**  
Marking strips; as a DIN A4 sheet; MARKED; 13-24 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-204**  
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



**Item No.: 210-332/500-206**  
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.8 Strain relief

1.2.8.1 Strain relief housing



**Item No.: 232-608**  
Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 8-pole; gray

1.2.9 Tool

1.2.9.1 Operating tool



**Item No.: 231-231**  
Combination operating tool; red



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured



**Item No.: 209-132**  
Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



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



**Item No.: 209-130**  
Operating tool; made of insulating material; 1-way; for 264 Series (1-1/2-way), 280, 281 Series (up to 3-way); natural



**Item No.: 231-291**  
Operating tool; made of insulating material; 1-way; loose; red



**Item No.: 231-131**  
Operating tool; made of insulating material; 1-way; loose; white



**Item No.: 280-432**  
Operating tool; made of insulating material; 2-way; white



**Item No.: 280-433**  
Operating tool; made of insulating material; 3-way



**Item No.: 280-434**  
Operating tool; made of insulating material; 4-way



**Item No.: 280-435**  
Operating tool; made of insulating material; 5-way; gray



**Item No.: 280-436**  
Operating tool; made of insulating material; 6-way



**Item No.: 280-437**  
Operating tool; made of insulating material; 7-way



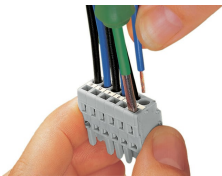
**Item No.: 280-438**  
Operating tool; made of insulating material; 8-way



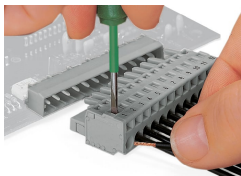
**Item No.: 231-159**  
Operating tool; natural

Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.

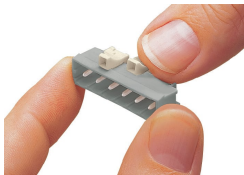


Inserting a conductor into CAGE CLAMP® unit via operating tool (231-291).



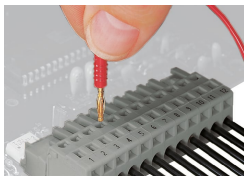
Inserting a conductor via operating tool.

Coding



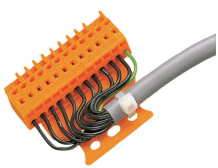
Coding a male header – fitting coding key(s).

Testing



Testing – female connector with CAGE CLAMP®  
Integrated test ports for testing perpendicular to conductor entry via 2 or 2.3 mm Ø test plug

Installation

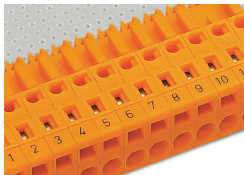


Male connector with strain relief plate



Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Marking



Labeling via direct marking or self-adhesive strips.